



## **CITY MULTI YKD-Series**

# Further Enhanced Energy Saving

Saving energy is becoming ever more important all around the world. Mitsubishi Electric is at the forefront of this development, with advanced products that realize high-quality energy saving solutions for customers in all fields.

## Energy saving key point 1 High rated performance

Compared to the conventional series, all models of the YKD series (8 to 60HP) are improved rated EER/COP. This means less energy will be consumed during peak hours, such as high-temperature periods in the daytime.

## Energy saving key point 2 High partial-load performance

The YKD-Series surpass the conventional series not only in rated specifications but also in terms of partial-load performance. During mornings and evenings, when the temperature is lower and less cooling power is required, better efficiency also enables significant energy savings.

## Energy saving key point 3 Energy saving assist function

The functions makes it possible to optimize energy saving performance by closely matching the requirements of the installation location. This makes it possible to achieve results that surpass the specifications of the product, contributing to truly energy-saving buildings.



## 8-series

## **PUMY**

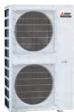
Side-flow type outdoor units have a depth of 330 mm [13 in.], and can be installed in tight spaces. The lineup includes models from 4 HP to 9 HP. They are suitable for small-scale offices and residences.

#### **Cooling only**

- PUMY-CP YKM
- PUMY-CP YBM

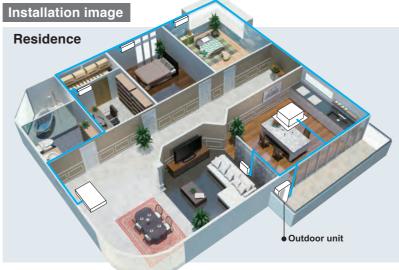






PUMY-CP175-225YKM(-BS) PUMY-C

BS) PUMY-CP250-300YBM(-BS)



## Advantage of PUMY (for residences)

One outdoor unit can be connected to up to 12 indoor units. Even when indoor units are installed in many rooms, one outdoor unit can connect multiple indoor units.



#### All models features

### Wide range of available according to use pattern

## ① Operation guaranteed at an outside air temperature of up to 52°C [125°F].

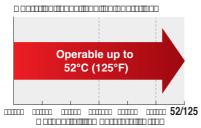
• New inverter technology has made it possible for units to operate at an outdoor air temperature as high as 52°C [125°F].

#### 2 Quiet mode

All models have three quiet modes in addition to the normal mode, and a suitable noise mode can be selected from among the four available modes. The noise level can be set according to the application, for example, in a residential zone where noise may be an issue.

- \* Capacity reduction differs by mode setting.
- \* PAC-SC36NA-E is required to activate this mode.
- \* Available during cooling only.

#### ■ Operation at high temperatures (52°C/125°F)



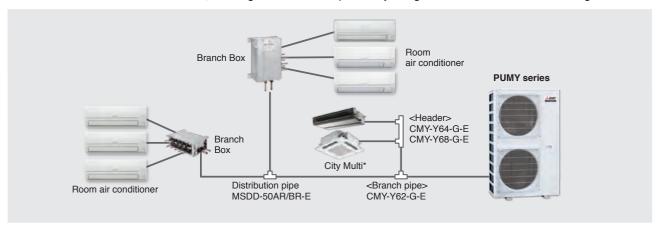
Features of the Branch Box

Connecting branch boxes makes it possible to connect to Mitsubishi Electric indoor units (room air conditioners, Mr. SLIM) that do not normally support M-NET connections.



#### System example

The use of branch boxes makes it possible for PUMY-Series devices to connect not only to CITY MULTI indoor units but also to Mitsubishi Electric indoor units that do not normally support M-NET connections. Thus it is possible to connect to room air conditioners and Mr. SLIM indoor units, allowing for a selection specifically designed to suit how the room is being used.



### **Specifications**

| Model                   |                         |        |    | PAC-MK54BC                                                       | PAC-MK34BC |  |  |  |
|-------------------------|-------------------------|--------|----|------------------------------------------------------------------|------------|--|--|--|
| Connectable Nu          | umber of Indoor Units   |        |    | Max. 5                                                           | Max. 3     |  |  |  |
| Power Supply            | Source                  |        |    | Outdoor power supply, Branch Box / Outdoor separate power supply |            |  |  |  |
| Outdoor (V/Phase/Hz)    |                         |        |    | 1-phase, 220/230/240V, 50Hz, 1-phase, 220/230V, 60Hz             |            |  |  |  |
| Total Input kW          |                         |        |    | 0.00                                                             | 03         |  |  |  |
| Operating Current A     |                         |        |    | 0.05                                                             |            |  |  |  |
| Dimensions H x W x D mm |                         |        |    | 170 × 450 × 280                                                  |            |  |  |  |
| Weight                  |                         |        | kg | 7.4                                                              | 6.7        |  |  |  |
| Piping                  | Branch<br>(Indoor Side) | Liquid | mm | 6.35 × 5                                                         | 6.35 × 3   |  |  |  |
| (diameter)              |                         | Gas    | mm | 9.52 × 4, 12.7 × 1                                               | 9.52 × 3   |  |  |  |
|                         | Main                    | Liquid | mm | 9.5                                                              | 2          |  |  |  |
|                         | (Outdoor Side)          | Gas    | mm | 15.88                                                            |            |  |  |  |
| Connection Method       |                         |        |    | Flared                                                           |            |  |  |  |
| Wiring                  | to Indoor Unit          |        |    | 3-wire + Earth wire                                              |            |  |  |  |
| -                       | to Outdoor Unit         |        |    | 3-wire + E                                                       | arth wire  |  |  |  |

#### Installation image



Consolidating heat sources for room air conditioners, which require a 1:1 connection between the outdoor unit and indoor unit, and reducing installation space is possible.

Because the branch box can be installed indoors or outdoors and mounted on a wall, ceiling, or floor, it is possible to meet the requirements of various installation situations flexibly.

<sup>\*</sup>Please refer to installation manual for installation restrictions.



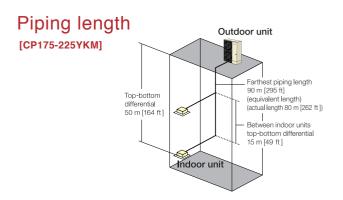
## PUMY-CP YKM (-BS)



CP175~225

### **Specifications**

| Model                                         |                                 |          |                    | PUMY-CP175YKM (-BS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PUMY-CP200YKM (-BS)                    | PUMY-CP225YKM (-BS)       |  |
|-----------------------------------------------|---------------------------------|----------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------|--|
| Power source                                  |                                 |          |                    | 3-phase 380-400-415V 50Hz / 380V 60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |                           |  |
| Cooling capacity                              | *1<br>*1                        |          | kW                 | 20.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 22.4                                   | 25.0                      |  |
| (Nominal)                                     |                                 |          | BTU/h              | 68,200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 76,400                                 | 85,300                    |  |
|                                               | Power input                     |          | kW                 | 5.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5.74                                   | 6.54                      |  |
|                                               | Current input                   |          | А                  | 8.94-8.50-8.19 / 8.94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10.03-9.53-9.18 / 10.03                | 11.17-10.61-10.23 / 11.17 |  |
|                                               | EER                             |          | kW/kW              | 4.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.90                                   | 3.82                      |  |
| Temp. range of                                | Indoor temp.                    |          | W.B.               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15.0 to 24.0°C (59 to 75°F)            |                           |  |
| cooling                                       | Outdoor temp.                   |          | D.B.               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10 to 52.0°C (50 to 126°F)             |                           |  |
| Indoor unit connectable                       | Total capacity                  |          |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50 to 150% of outdoor unit capacity *2 |                           |  |
| macor anni comicolabio                        | Model/Quantity                  | CITY     | MULTI              | 15–200/12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        | 45.050/40                 |  |
|                                               |                                 |          |                    | 15-200/12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15–250/12                              | 15–250/12                 |  |
| Sound pressure level (measured in anechoic ro | *3<br>com)                      | Ò        | dB <a></a>         | 57/-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 57/-                                   | 58/-                      |  |
| Refrigerant piping Liquid pipe                |                                 | mm (in.) | 9.52 (3/8) Flare*4 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |                           |  |
| diameter                                      |                                 |          | mm (in.)           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |                           |  |
| Fan                                           | Type x Quantity                 |          |                    | Propeller Fan × 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                           |  |
|                                               | Air flow rate                   |          | m³/min             | 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 134                                    | 143.8                     |  |
|                                               |                                 |          | L/s                | 2,233                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2,233                                  | 2,397                     |  |
|                                               |                                 |          | cfm                | 4,732                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4,732                                  | 5,078                     |  |
| *                                             | 5 Motor output                  |          | kW                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.20 + 0.20                            |                           |  |
| Compressor                                    | Type x Quantity                 |          |                    | Scroll hermetic compressor × 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |                           |  |
|                                               | Starting method                 |          |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |                           |  |
|                                               | Motor output                    |          | kW                 | 3.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.9                                    | 4.3                       |  |
| External finish                               |                                 |          |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |                           |  |
| External dimension H x V                      | N x D                           |          | mm                 | 1,338 × 1,050 × 330 (+25)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |                           |  |
|                                               |                                 |          | in.                | 52-11/16 × 41-11/32 × 13 (+1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |                           |  |
| Protection                                    | High pressure prot              | tection  |                    | High pressure switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |                           |  |
| devices                                       | Inverter circuit<br>(COMP./FAN) |          |                    | Overcurrent detection, Overheat detection (Heat Sink thermistor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |                           |  |
|                                               | Compressor                      |          |                    | Compressor thermistor, Overcurrent detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |                           |  |
|                                               | Fan motor                       |          |                    | Overheating, Voltage protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |                           |  |
| Refrigerant                                   | Type x original cha             | arge     |                    | R410A 6.3kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                           |  |
| Net weight                                    |                                 |          | kg (lbs)           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 129 (285) *6                           |                           |  |
| Heat exchanger                                |                                 |          | -                  | Cross Fin and Copper tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |                           |  |
| Defrosting method                             |                                 |          |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Reversed refrigerant circuit           |                           |  |
| Optional parts                                |                                 |          |                    | Joint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | t: CMY-Y62-G-E, Header: CMY-Y64/68-    | -G-E                      |  |
| Optional parts  Energy Labelling scheme       |                                 |          |                    | One of the control of | 11761 11784 mm                         | 12030 131465m             |  |



| Refrigerant Piping Lengths               | Maximum meters [feet] |
|------------------------------------------|-----------------------|
| Total length<br>Maximum allowable length |                       |
| Farthest indoor from first branch        |                       |
| Vertical differentials between units     | Maximum meters [feet] |
| Indoor/outdoor (outdoor higher)          | ····· 50 [164]        |
| Indoor/outdoor (outdoor lower)           | ······ 40 [131]       |
|                                          |                       |

#### Notes:

\*1 Nominal conditions

|         | Indoor                               | Outdoor           | Pipe length       | Level difference |
|---------|--------------------------------------|-------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB (95°F DB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

<sup>\*2</sup> Up to 150% can be connected. However, up to 130% for simultaneous operation.
\*3 Cooling mode/Heating mode
\*4 Liquid pipe diameter: 12.7mm in case that the farthest piping length is longer than 60m, or piping length from outdoor unit to a branch box is longer than 20m.

<sup>\*</sup>S 130 (289) for PUMY-CP175/200/225YKM-BS.

\*Nominal conditions \*1 are subject to ISO 15042.

\*Due to continuing improvement, above specification may be subject to change without notice.

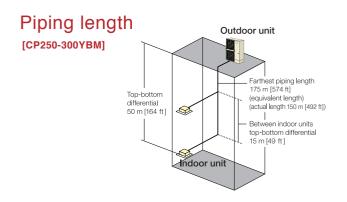


## PUMY-CP YBM (-BS)



### **Specifications**

| Model                  |                      |            | PUMY-CP250YBM (-BS)                                                | PUMY-CP300YBM (-BS)        |  |
|------------------------|----------------------|------------|--------------------------------------------------------------------|----------------------------|--|
| Power source           |                      |            | 3-phase 380-400-415 V, 50                                          | 0 Hz: 3-phase 380 V. 60 Hz |  |
| Cooling capacity *1 kW |                      | kW         | 28.0                                                               | 33.5                       |  |
| (Nominal)              | *1 BTU/h             |            | 95,500                                                             | 114,300                    |  |
|                        | Power input          | kW         | 7.18                                                               | 8.59                       |  |
|                        | Current input        | Α          | 11.73-11.14-10.74, 11.73                                           | 14.03-13.33-12.85, 14.03   |  |
|                        | EER                  | kW/kW      | 3.90                                                               | 3.90                       |  |
| Temp. range of         | Indoor temp.         | W.B.       | 15.0 to 24.0°C (59 to 75°F)                                        |                            |  |
| cooling                | Outdoor temp.        | D.B.       | 10.0 to 52.0°C                                                     | C (50 to 126°F)            |  |
| Indoor unit            | Total capacity       |            | 50 to 150% of outd                                                 | loor unit capacity *2      |  |
| connectable            | Model/ CITY Quantity | MULTI      | 15–250/24                                                          | 15–250/29                  |  |
| Sound pressure le      |                      | dB <a></a> | 59                                                                 | 60                         |  |
| Refrigerant piping     | Liquid pipe          | mm (in.)   | 9.52(3/8) Flared *5                                                | 12.7(1/2) Flared           |  |
| diameter               | Gas pipe             | mm (in.)   | 22.2(7/8) Brazed                                                   | 25.4(1) Brazed             |  |
| Fan                    | Type x Quantity      |            | Propeller Fan × 2                                                  |                            |  |
|                        | Air flow rate        | m³/min     | 178                                                                | 178                        |  |
|                        |                      | L/s        | 2,966                                                              | 2,966                      |  |
|                        |                      | cfm        | 6,285                                                              | 6,285                      |  |
|                        | Motor output kW      |            | 0.375 +                                                            |                            |  |
| Compressor *3          | Type x Quantity      |            | Scroll hermetic compressor × 1                                     |                            |  |
|                        | Starting method      |            | Inverter                                                           |                            |  |
|                        | Motor output         | kW         | 6.77                                                               | 7.59                       |  |
| External finish        |                      |            | Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1                      |                            |  |
| External dimension     | n H x W x D          | mm         | 1,662 × 1,050 × 460 (+45)                                          |                            |  |
|                        |                      | in.        | 65-7/16 × 41-11/32 × 18-7/64 (+1-49/64)                            |                            |  |
| Protection             | High pressure pro    | otection   | High pressure switch                                               |                            |  |
| devices                | Inverter circuit     |            | Overcurrent detection, Overheat detection (Heat Sink thermistor)   |                            |  |
|                        | Compressor           |            | Compressor thermistor, Overcurrent detection, Compressor protector |                            |  |
|                        | Fan motor            |            | Overcurrent, Overheating, Voltage protection                       |                            |  |
| Refrigerant            | Type x original ch   |            | R410A                                                              |                            |  |
| Net weight             |                      | kg (lbs)   |                                                                    | 408) *4                    |  |
| Heat exchanger         |                      |            | Micro-Slit Fin a                                                   | nd Copper tube             |  |
| Defrosting method      | 1                    |            |                                                                    | -                          |  |
| Optional parts         |                      |            | Joint: CMY-Y62-G-E, He                                             | eader: CMY-Y64/68-G-E      |  |
| Energy Labelling       | Scheme               |            | CONT VINITE                                                        | on min                     |  |



| Refrigerant Piping Lengths           | Maximum meters [feet] |
|--------------------------------------|-----------------------|
| Total length                         |                       |
| Farthest indoor from first branch    | - 30 [98]             |
| Vertical differentials between units | Maximum meters [feet] |
|                                      |                       |

#### Notes:

\*1 Nominal conditions

| /       | Indoor                               | Outdoor           | Pipe length       | Level difference | External static press. |
|---------|--------------------------------------|-------------------|-------------------|------------------|------------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB (95°F DB) | 7.5m (24-9/16ft.) | 0m (0ft.)        | 0 Pa                   |

<sup>\*2</sup> Up to 150% can be connected. However, up to 130% for simultaneous operation.
\*3 External static pressure option is available (30 Pa/3.1 mmH<sub>2</sub>O).
\*4 179 (395) for PUMY-CP250/300YBM-BS.
\*5 Liquid pipe diameter: 12.7mm, in case of farthest piping length (farthest indoor unit from outdoor unit) is longer than 90m, or connect with PEFY-P200/250.
\*Nominal conditions \*1 are subject to ISO 15042.
\*Due to continuing improvement, above specification may be subject to change without notice.

## System structure example

No separate transfer device such as pump required

#### **System Pipe Lengths**

We use a two-pipe system. Unlike chiller system, VRF system does not require pumps or control panels, and these functions are integrated into the outdoor units. The piping can be designed appropriately to any building design by using joints and headers and flexibly adapted to many applications.

#### **Outdoor unit**



#### **PUCY-Series**

- •Further enhanced energy savings
- •High cooling capacity at high outdoor air temperatures
- High reliability

### Ceiling concealed



#### PEFY-P VMA(L)-E PEFY-P VMA3-E

- •Thin design with a body height of 250 mm [9-7/8 in.]
- •The rear or bottom air inlet can be selected depending on the installation situation

#### 2-way air flow



#### **PLFY-P VLMD-E**

- •Stylish design with well blended air inlet
- •The unit is 290 mm [11-7/16 in.] in height and usable in corridor or a narrow room

#### 4-way air flow



#### **PLFY-P VEM-PA**

•3D i-see Sensor and versatile airflow variation provide comfort to all corners of the room.

Various control from local remote controllers to centralized controllers is possible

#### Various lineups

CITY MULTI includes various types of outdoor units, indoor units and controllers. The customers can easily select the models according to their situation. The units can be individually controlled, and it is possible to start or stop the air conditioner and set the conditions, such as temperature, in each room.





AE-200E

PAR-40MAA

## MAD-series

The YKD series not only realize high energy savings and quality performance from Mitsubishi Electric, they also feature further improved reliability. This is especially important in the Asian climate which requires enhanced cooling capacity at high outside air temperatures.







L module



**XL** module

## Further enhanced energy savings

- Higher rated EER in all models (compared to conventional model)
- Improved energy efficiency under partial-load conditions
- Evaporating temperature control provides further energy savings

## Cooling capacity at high outdoor air temperatures

- Operation guaranteed up to an outside air temperature (intake temperature) of 52°C
- The assist function for enhanced cooling power at high outside air temperatures
- Rapid mode reduces startup time

## High reliability

- Structure features a low-pressure shell compressor, polyurethane coated circuit boards and other high-reliability parts
- Emergency operation mode and rotation function, etc. contribute to enhanced operation reliability

## High installation flexibility

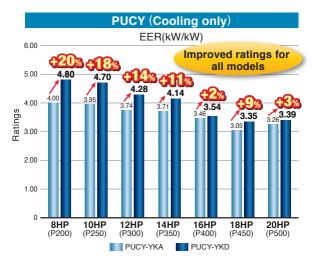
- Two-pipe system and M-NET wiring facilitate installation
- Selectable external static pressure setting to match site conditions

<sup>\*</sup> Product images are PUCY models

## Further enhanced energy savings

## 1. Higher EER ratings

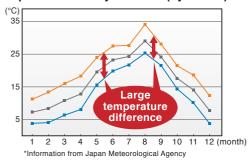
Compared to conventional products (YKA series), the YKD series achieves improved EER in all cooling-only models and heat pump models from 8 to 60HP. The 8HP model (PUCY-P200YKD) boasts 20% improvement.



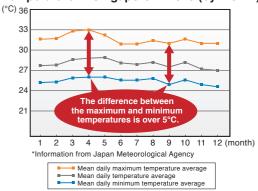
### 2. High partial-load performance

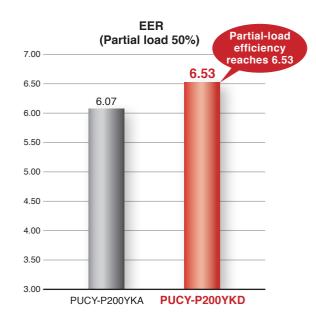
At times when the temperature difference between daytime and morning/evening is large, efficient operation also under low-load conditions is important. The multi-port design of the compressor helps to improve partial-load efficiency compared to conventional models, enabling highly efficient operation throughout the year, including season changeover periods.

#### Temperature in Tokyo in 2020 (by month)









## Further enhanced energy savings

## 3. Energy saving assist function

In addition to the basic energy saving design, energy saving assist functions can be activated easily via DIP switch settings. This allows matching the equipment to various installation patterns.

## Evaporating temperature control (P)

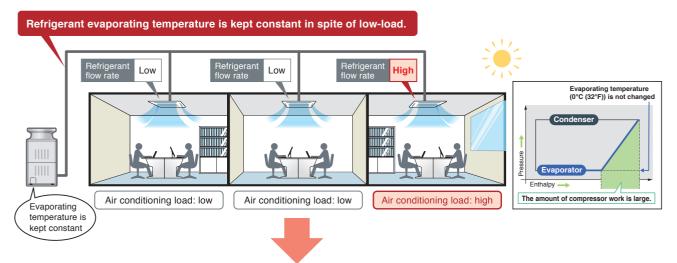




During cooling operation, the temperature of the refrigerant can be controlled according to the air conditioning load. This helps energy efficient operation.

#### ■ Normal mode

The evaporating temperature is kept constant regardless of the load. Even at low loads, the normal evaporating temperature does not change, which leads to energy waste during partial load operation.



#### ■ Smart evaporation temperature control mode

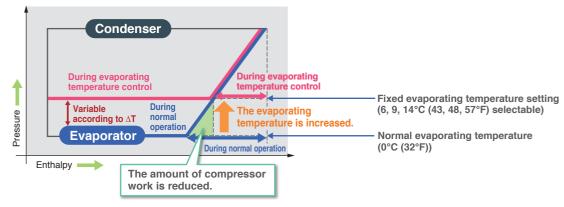
The YKD series supports evaporating temperature control which adjusts the refrigerant evaporating temperature. Two control methods are available: fixed control and automatic shift control.

- Changing the evaporating temperature is achieved by changing DIP switch settings on the outdoor unit. Refer to "Evaporating temperature setting method" and the Service Handbook for details
- Raising the evaporating temperature will lower the latent heat processing capability. Select the appropriate mode for the installation location, taking factors such as ambient

#### 1. Fixed control

The target evaporating temperature is changed and controlled to be constant. Selecting an evaporating temperature that is higher than for normal cooling will reduce the load of the compressor and improve operation efficiency.

#### · Concept of evaporating temperature control (fixed control)



Because evaporating temperature will constantly be higher, cooling capacity is reduced, which may result in the room not reaching the set temperature.

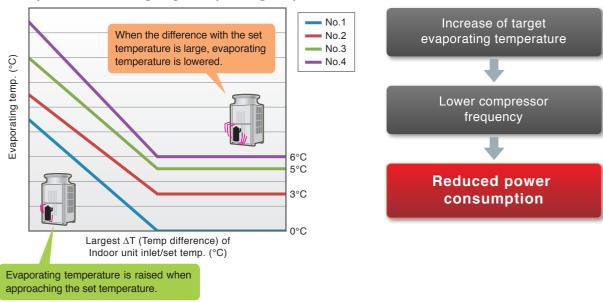
<sup>\*</sup> To change the evaporating temperature setting, it is necessary to change the setting of the DIP switch on the outdoor unit.

#### 2. Automatic shift control

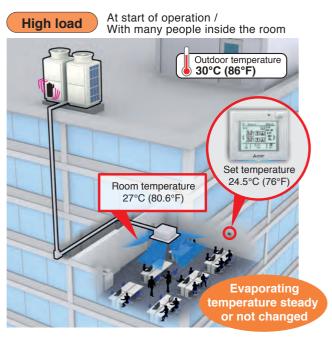
Evaporating temperature is shifted according to the air conditioning load ( $\Delta T$ ). When approaching the set temperature, evaporating temperature is raised to reduce compressor workload and save energy. Four control patterns can be selected.

#### · Concept of evaporating temperature control (automatic shift control)

#### 4 patterns for setting target evaporating temperature



- \*1 To activate evaporating temperature control, use terminal external input.
  \*2 To change the evaporating temperature setting, it is necessary to change the setting of the DIP switch on the outdoor unit.



## As room temperature approaches Low load set temperature Outdoor temperature 30°C (86°F) Set temperature 24.5°C (76°F) Room temperature 25°C (77°F) **Evaporating** temperature raised Evaporating temperature is changed according to the difference between room temperature and set temperature.

#### Suitable situations

- (1) Locations with mainly sensible heat load by OA equipment (offices and similar)
- (2) Relatively low-load conditions during air conditioning season (mornings or nights)
- (3) When higher temperature of discharge air is desired in windy conditions







## Cooling capacity at high outdoor air temperatures

### 1. Cooling operation possible up to intake temperature of 52°C



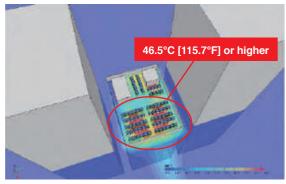


In built-up areas with a high density of buildings, winds may be blocked, causing an accumulation of warm air in the vicinity of the outdoor unit. Because the operation range of the YKD series has been guaranteed up to 52°C (125°F), operation will remain stable even in such situations.

#### Example of flow analysis

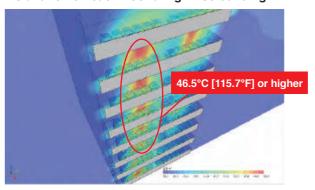
■ Conditions : Outdoor air temperature = 35°C (DB), Room temperature = 27°C (DB)

#### Built-up area with buildings and outdoor units



If the passage of air is blocked in a built-up area, the high-temperature air discharged from the outdoor units may be kept around the units.

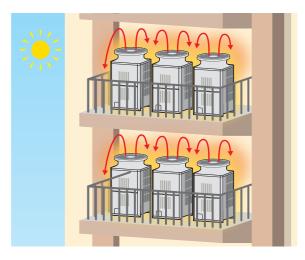
#### Installation on each floor a high-rise building



When the outdoor units are installed on balconies, the high-temperature air discharged from the units may be kept in by upper balconies.

#### Suitable situations

Installation in locations such as on balconies or between buildings, where high-temperature air may tend to accumulate.





## 2. Cooling operation assist function

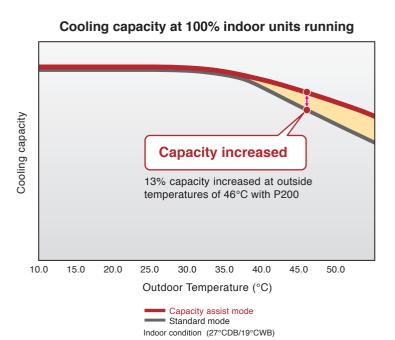
## Capacity assist mode P EP

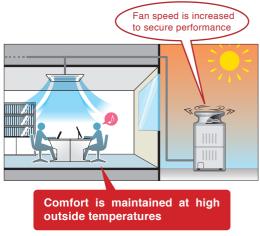




During cooling operation in high outside temperature, cooling capacity tends to be decreased. The YKD series provides capacity assist mode where the fan speed is automatically raised when the outside temperature reaches or exceeds around 38°C. This prevents a drop in cooling capacity during operation at high outside air temperatures. Comfort is improved, thanks to continued high performance of the unit.

- \* Requires a DIP switch setting
- This function will be disabled when the unit is set to the outdoor high static pressure setting or to the night mode setting. The outdoor unit will make more noise due to an increased airflow. Choose the mode according to installation requirements.





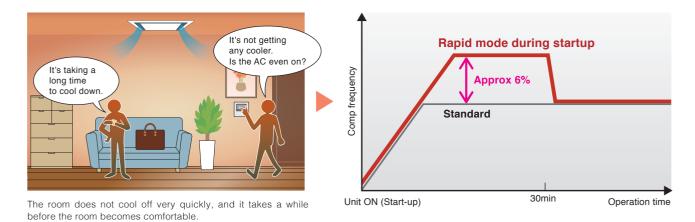
#### Rapid mode during startup (Quick-start up)





The rotation speed of the compressor can be raised during the first 30 minutes after cooling startup, to guickly establish comfortable conditions when returning home or at the start of a workday. Restarting after a power outage will also be faster, to quickly cool down the room.

- \* Requires a DIP switch setting
- \* Selecting this mode may increase operation noise. Choose the mode according to installation requirements.

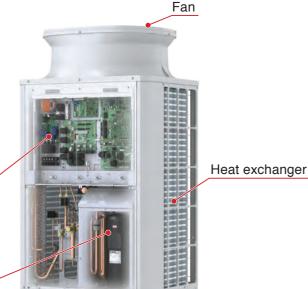




All major parts of YKD series products reflect technological excellence of Mitsubishi Electric. This results in high energy efficiency, enhanced cooling capacity at high outside air temperatures, and further improved reliability.

Inverter technology

Compressor



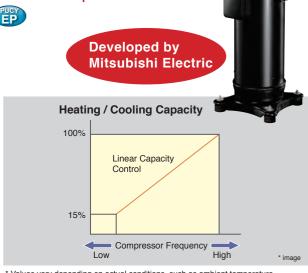


As a manufacturer of general electric equipment, our inverter-related components are developed and manufactured using Mitsubishi Electric technology.

All compressors are inverter-driven type and developed and manufactured by Mitsubishi Electric

The compressor varies its speed to match the indoor cooling or heating demand, thus it only consumes the energy amount of energy required.

When an inverter driven system is operating at partial load, the energy efficiency of the system is significantly higher than that of a standard fixed speed, non inverter system. The fixed speed system can only operate at 100%, although full load condition is not prevailed all time. Therefore, fixed speed systems cannot match the annual efficiency of inverter driven systems.



\* Values vary depending on actual conditions, such as ambient temperature.

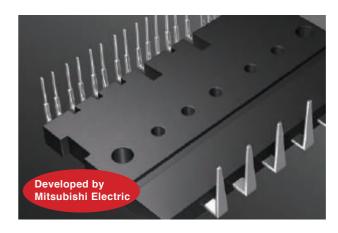
### Intelligent Power Module (IPM) manufactured by Mitsubishi Electric





Power modules manufactured by Mitsubishi Electric are installed in the compressor, which is the core component, as well as in the inverter circuit board that drives the fan. Furthermore, a specialized drive circuit that ensures excellent performance make a high-quality, high-performance inverter possible .

IPM technology ensures effective operation even at lower partial load and realizes automatic control to operate the air conditioners appropriately according to the situation, resulting in energy savings.





### Multi-port mechanism (P) (P)





In addition to the conventional discharge port, the new series features two sub-ports, which performes according to the air conditioning load. This prevents excessive compression and improves operation efficiency.

#### **Conventional structure**

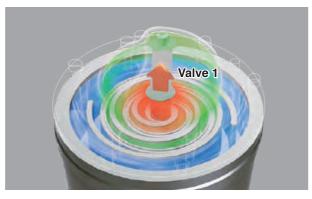
|           |         | Operation pattern |                                  |  |
|-----------|---------|-------------------|----------------------------------|--|
|           |         | Partial load      | Rating, high pressure difference |  |
| Main port | Valve 1 | Open              | Open                             |  |

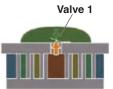
#### New structure with multi-port design

|           |           | Оре          | ration pattern                   |
|-----------|-----------|--------------|----------------------------------|
|           |           | Partial load | Rating, high pressure difference |
| Main port | Valve 1   | Open         | Open                             |
| Sub-port  | Valve 2/3 | Open         | Closed                           |
|           |           |              |                                  |

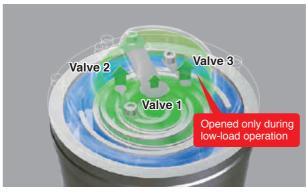
The sub-port is opened during partial load operation to discharge the over-compressed gas.

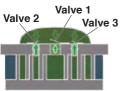
#### In case of partial load operation Conventional structure

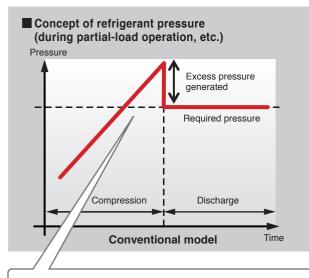




#### New structure with multi-port design







#### **Conventional model**

Because there is only one discharge port, compression capacity is first raised regardless of load, and then lowered to the target discharge pressure. This results in operation loss due to over-compression.

## Concept of refrigerant pressure Pressure Required pressure Discharge Compression **New model** Time

#### **Multi-port**

When the target discharge pressure is reached, the multi-ports are opened to release refrigerant gas. This reduces operation loss due to over-compression.

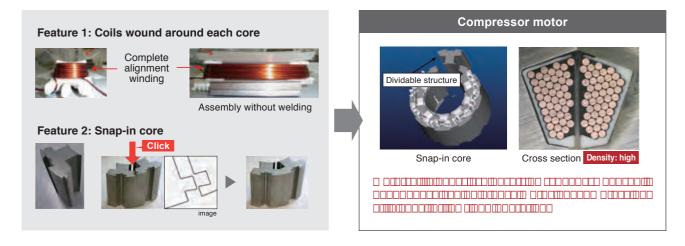
### 

### Snap-in core (F)





Mitsubishi Electric has incorporated a new and original production process that wraps a conductor directly around the split core to create a compact and highly efficient motor.

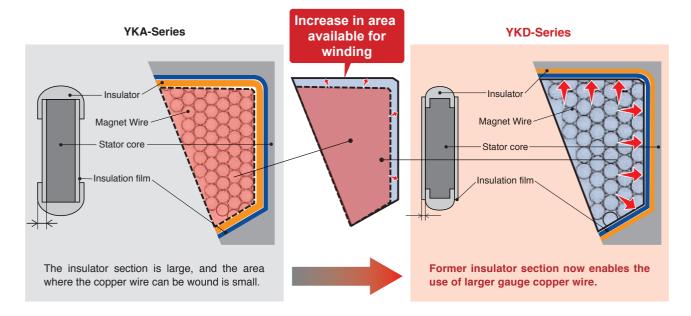


### Improved high-efficiency motor \*Except for models using PUCY-P200-350 YKD module.





Whereas the motor core of the conventional model had dead space between the insulator and insulation film, the YKD model has a smaller insulator with film on the inside. Consequently, the area for copper wire winding has increased by 9%. The wire diameter also was increased by two sizes, resulting in lower resistance and reduced insulation distance. This boosts motor efficiency, thus also improving compressor efficiency.



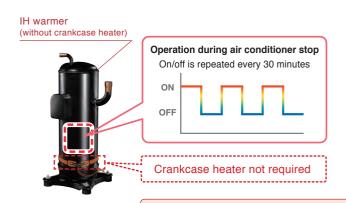
#### IH (induction heating) warmer



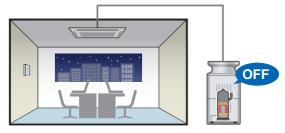


In order to prevent refrigerant and oil from mixing while the air conditioner is stopped, it is necessary to always warm the compressor. Mitsubishi Electric provides the required heating by energizing the windings of the compressor (using a voltage that does not drive the compressor motor) instead of a belt type heater that applies heat from the outside, resulting in reduced loss and lower power consumption. In addition, remains on for 30 minutes after operation is stopped, and subsequently is switched on and off every 30 minutes. Standby power consumption therefore is lower than with a belt heater that is constantly powered.

\* Normally, the compressor is heated while the outdoor unit is stopped to prevent liquid refrigerant from remaining in the compressor and to evaporate the liquid refrigerant in the compressor



Standby power consumption can be reduced when the air conditioner is stopped overnight in offices or other locations.



Internal heating reduces power consumption during standby. This provides an advantage over designs that are constantly powered.

#### 

### Bell-mouth shape design realizes higher air discharge efficiency





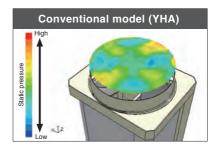
This design reduces the fan input value and contributes to energy savings. In addition, more efficient air discharge improves stability during operation at high outside air temperatures.

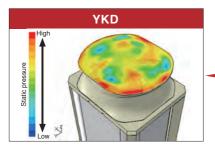
#### Conventional model(YHA)





Air is expelled with higher efficiency by temporarily accumulating at the bottom of the bell-mouth shape.





The change of the bell-mouth shape has realized energy saving operation by improving the static pressure while discharging air.

#### Grooves are formed in the copper pipe to improve the heat exchange performance.







The grooved structure in the copper pipe of the heat exchanger increases the heat exchange area to contact with refrigerant.

## High reliability

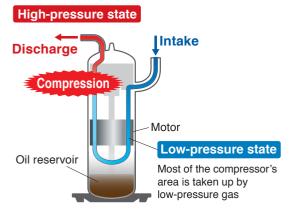
### 1. Compressor

Liquid and gas refrigerants are separated beforehand by the accumulator to prevent liquid refrigerant from flowing into the compressor. Moreover, compressor structure is filled with low-pressure gas refrigerant. If liquid backflow occurs, the liquid will not enter the scroll of the compressed part directly.

#### Low-pressure shells (P)

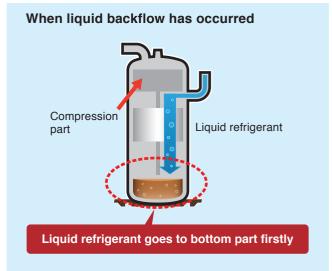






Cross section of compressor

Most of the area in the compressor is taken up by the low-pressure gas. This prevents the motor and bearings from being heated up by the compressed high-pressure gas. The refrigerant is collected at the bottom of the shell to reduce the rate of compressor damage caused by liquid refrigerant compression.



Liquid refrigerant doesn't go to compression part directly so that compressor itself is protected from malfunction due to liquid back.

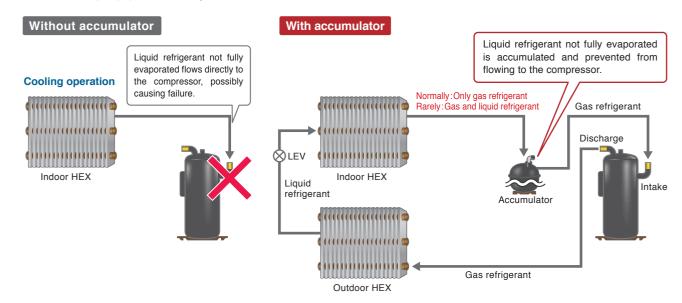
#### Accumulator for preventing liquid backflow (E)





When the refrigerant is not completely evaporated by the evaporator, it may remain as a liquid, flowing back into the compressor and causing liquid compression, which poses the risk of serious damage to the compressor. To counter this problem, Mitsubishi Electric uses an accumulator placed between the evaporator and the compressor to separate the liquid refrigerant.

\* Adding too much refrigerant will cause excess refrigerant to accumulate in the accumulator, resulting in liquid back flow. Be sure to add only the proper amount of refrigerant.



### Operation with one compressor up to 20HP. (P)

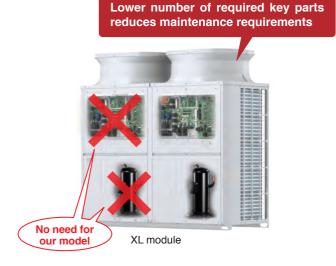




Outdoor units can be operated by one compressor, which contributes to improve service with less refrigerant piping work and compornents.

#### 1 compressor model





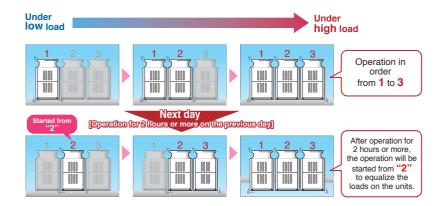
### Rotation control ( )





With the combination model, the outdoor units operate alternately. This reduces the operating load and leads to a longer

After operation for 2 hours or more, the next operation will be started from the outdoor unit "2." The unit to be started first is changed to equalize the operating time of the units.

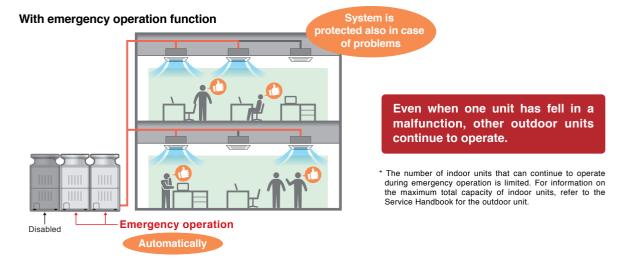


### Emergency operation mode (P)





Emergency operation is possible with the indoor unit's remote control. With the combination model, if there is at least one module that can operate normally, the other outdoor unit temporaly performs emergency operation.



## High reliability

## 2. Electric parts

### Allowable operating up to ±10% voltage range





Operation of this model is guaranteed even for voltages up to 10% more or less than the indicated allowable voltage.



\* When used 380V, operation is guaranteed even for voltages of up to maximum +20%

### Naturally cooled PCB (Print circuit board)

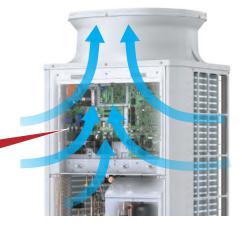




PCBs (printed circuit boards) carry a large number of electronic components. When operation load increases, suitable cooling measures are required.

Mitsubishi Electric places PCBs in the natural air flow path which enables air cooling to maintain efficiency and improve reliability of each electronic component.





#### Access from front panel





Electrical parts are concentrated in the upper part of the panel which can be opened for easy replacement of PCBs if required.

Because the compressor is located in the lower right when the panel is opened, the service technician can easily perform maintenance from the front.



<sup>\*</sup> Arrange a qualified technician for maintenance or service.

### 3. Corrosion resistance

Even in installation environments near coastal areas, Mitsubishi Electric products reduce the effects of corrosion due to salt damage by using a special coating designed for outdoor units.

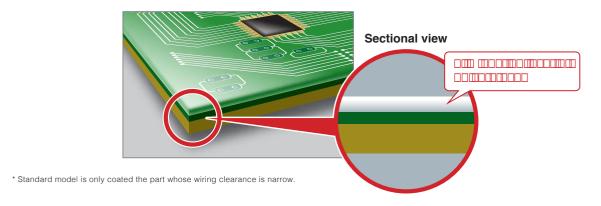
\* Effectiveness varies depending on the installation location.

#### Film coating on PCB (Print circuit board)





The printed circuit boards are protected by a film coating of polyurethane that covers the entire board to ensure resistance against salt corrosion.

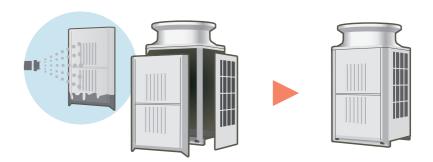


### Polyester coated sheet P





To prevent corrosion of the unit even in locations subject to the influence of sea breezes, the outdoor units are made with polyester coated steel sheets compliant with the JRA 9002 standard. The panel coating is used both on standard models and BS models, while BS models also include a thicker coating.

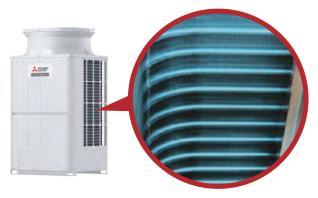


### Fin treatment on heat exchanger (F)





The anti-corrosion fin treatment on the heat exchanger is especially effective in urban environments where traffic pollutions can damage the aluminum fins, reducing the capacity and life expectancy of the unit. All YKD series feature this Fin treatment.

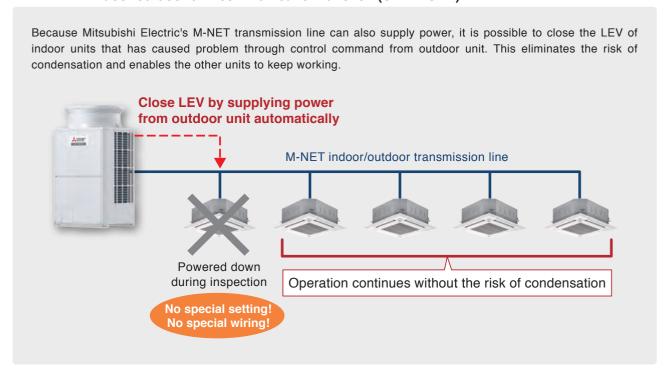


## High reliability

## 1. Operation support function

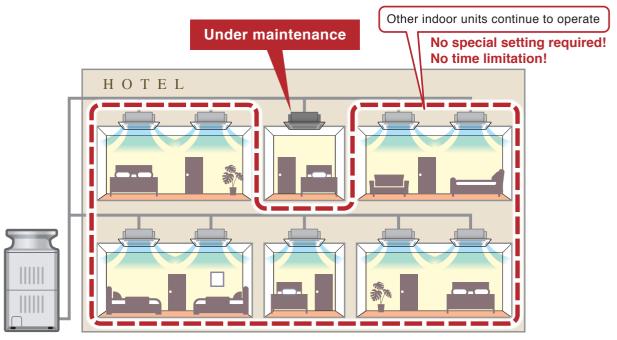
Without requiring any special settings or control steps, Mitsubishi Electric's original M-NET system enables other indoor units to continue operation even when one unit has stopped due to malfunction.

#### With M-NET indoor/outdoor unit communication function (CITY MULTI)



#### For hotel application

Even if the system in one guest room cannot be used, air conditioning in other rooms does not need to be shut down, allowing business to continue.



<sup>\*</sup> Support for PUMY models available.

## High installation flexibility

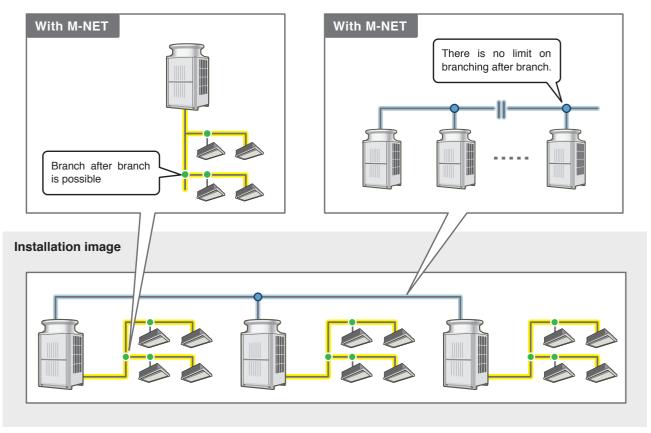
## 1. Flexible wiring design

### Flexible M-NET design (P)





The total wiring length of the original M-NET system connecting the CITY MULTI units of Mitsubishi Electric is unlimited. The system also supports multiple branching levels which greatly increases design flexibility for various buildings.



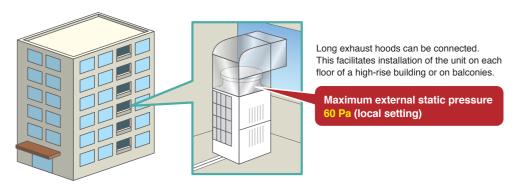
<sup>\*</sup> The maximum power-supply distance of M-NET communication is 200 meters, a booster unit is required over 200 meters. Regarding maximum distance to the farthest device, please refer to "Explanatory material for M-NET 1000 m.

## 2. Flexible external static pressure setting

## Selectable external static pressure of the outdoor unit



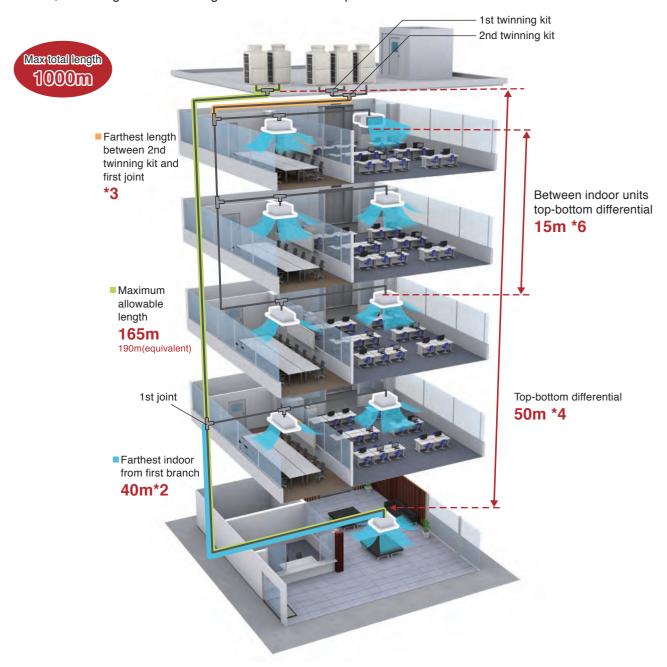
The static pressure specification of the outdoor unit can be selected (0, 30, 60 Pa). This facilitates installation of the unit on each floor of a high-rise building or on balconies.



## High installation flexibility

## 3. Long piping length

Piping design also provides the flexibility to match the requirements of various buildings. With CITY MULTI, even large-scale building installations are no problem.



| Refrigerant Piping Lengths           | Maximum meters [feet] |
|--------------------------------------|-----------------------|
| Total length                         | 1,000 [3,280]*1       |
| Maximum allowable length             | 165 (190 equivalent)  |
|                                      | [541 (623)]           |
| Farthest indoor from first branch    | 40 [131]*2            |
| Farthest length between              |                       |
| 2nd twinning kit and first joint     | *3                    |
| Vertical differentials between units | Maximum meters [feet] |
| Indoor/outdoor (outdoor higher)      | 50 [164]*4            |
| Indoor/outdoor (outdoor lower)       | 40 [131]*5            |
| Indoor/indoor                        | 15 [49]*6             |

- \*1 The maximum total piping length in systems with model units P1400 through P1500 800 m [2625 ft.].

  \*2 90m is available. When the piping length exceeds 40m, use one size larger liquid pipe starting with the section of piping where 40m is exceeded and all piping after that point.

  [for PUCY-P-YKD(-BS) / PUCY-EP-YKD(-BS)]

  \*3 In systems with model units P1400 through P1500, pipe length restrictions apply to the main pipes as follows:
- P1400: 110 m [360 ft.] max. P1450: 90 m [295 ft.] max. P1500: 60 m [197 ft.] max.
- \*4 Depending on the model and installation conditions, top-bottom differential 90m [295ft]. For more detailed information, please contact your nearest sales office or
- "5 4 m [13 ft.] or less in cooling at outdoor temperature 10°C [50°F] or lower for heat pump series.
- pump series.

  6 30m is available. If the height difference between indoor units exceeds 15 m [49 ft.] (but does not exceed 30 m [98 ft.]), use pipes that are one size larger for indoor unit liquid pipes.

  [for PUCY-P-YKD(-BS) / PUCY-EP-YKD(-BS)

## Other useful information

#### Low noise mode (night mode)





This mode reduces noise by limiting the compressor frequency and the number of rotations made by the outdoor fan.

The user can select their preferred level.

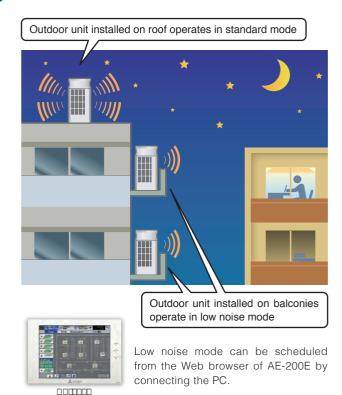
- \* Cooling/heating capacity drops significantly during low-noise mode operation. During cooling operation, please use this mode under a situation which there is a substantial capacity such as at night.

  \* This function can be set by change of dip switch.



- · Increased adaptability and model selection range for buildings where low noise is essential
- · Low noise mode can also be selected after delivery using DIP switches

Changing low noise mode to suit the installation location allows adaptation to the surrounding environment.



## YKD-series - Cooling-only

## PUCY-P YKD (-BS)





## **Specifications**

| Model                       |                    |            | PUCY-P200YKD (-BS)                                                                                                               | PUCY-P250YKD (-BS)                                                                                                               | PUCY-P300YKD (-BS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PUCY-P350YKD (-BS)                                                                                                                  |
|-----------------------------|--------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Power source                |                    |            | 3-phase 4-wire<br>380-400-415 V 50/60 Hz                                                                                         | 3-phase 4-wire<br>380-400-415 V 50/60 Hz                                                                                         | 3-phase 4-wire<br>380-400-415 V 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3-phase 4-wire<br>380-400-415 V 50/60 Hz                                                                                            |
| Cooling capacity            | *1                 | kW         | 22.4                                                                                                                             | 28.0                                                                                                                             | 33.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 40.0                                                                                                                                |
| (Nominal)                   |                    | BTU/h      | 76,400                                                                                                                           | 95,500                                                                                                                           | 114,300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 136,500                                                                                                                             |
|                             | Power input        | kW         | 4.66                                                                                                                             | 5.95                                                                                                                             | 7.82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9.66                                                                                                                                |
|                             | Current input      | Α          | 7.8-7.4-7.2                                                                                                                      | 10.0-9.5-9.1                                                                                                                     | 13.2-12.5-12.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 16.3-15.4-14.9                                                                                                                      |
|                             | EER                | kW/kW      | 4.80                                                                                                                             | 4.70                                                                                                                             | 4.28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4.14                                                                                                                                |
| Temp. range of              | Indoor             | W.B.       | 15.0~24.0 °C (59~75 °F)                                                                                                          | 15.0~24.0 °C (59~75 °F)                                                                                                          | 15.0~24.0 °C (59~75 °F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15.0~24.0 °C (59~75 °F)                                                                                                             |
| cooling                     | Outdoor            | D.B.       | 10.0~52.0 °C (50~126 °F)                                                                                                         | 10.0~52.0 °C (50~126 °F)                                                                                                         | 10.0~52.0 °C (50~126 °F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10.0~52.0 °C (50~126 °F)                                                                                                            |
| ndoor unit                  | Total capacity     | 0.0.       | 50~130% of outdoor unit                                                                                                          | 50~130% of outdoor unit                                                                                                          | 50~130% of outdoor unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 50~130% of outdoor unit                                                                                                             |
| connectable                 | . otal oapaoity    |            | capacity                                                                                                                         | capacity                                                                                                                         | capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | capacity                                                                                                                            |
| 30111100101310              | Model/Quantity     |            | P15~P250/1~17                                                                                                                    | P15~P250/1~21                                                                                                                    | P15~P300/1~26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | P15~P300/1~30                                                                                                                       |
| Sound pressure le           |                    |            |                                                                                                                                  |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                     |
| measured in aned            |                    | dB <a></a> | 57                                                                                                                               | 58                                                                                                                               | 61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 61                                                                                                                                  |
| Refrigerant piping diameter | Liquid pipe        | mm (in.)   | 9.52 (3/8) Brazed                                                                                                                | 9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)                                                                   | 9.52 (3/8) Brazed (12.7 (1/2)<br>Brazed, farthest length >= 40 m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12.7 (1/2) Brazed                                                                                                                   |
|                             | Gas pipe           | mm (in.)   | 22.2 (7/8) Brazed                                                                                                                | 22.2 (7/8) Brazed                                                                                                                | 22.2 (7/8) Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 28.58 (1-1/8) Brazed                                                                                                                |
| an                          | Type x Quantity    |            | Propeller fan x 1                                                                                                                | Propeller fan x 1                                                                                                                | Propeller fan x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Propeller fan x 1                                                                                                                   |
|                             | Air flow rate      | m³/min     | 175                                                                                                                              | 175                                                                                                                              | 175                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 210                                                                                                                                 |
|                             |                    | L/s        | 2,917                                                                                                                            | 2,917                                                                                                                            | 2,917                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,500                                                                                                                               |
|                             |                    | cfm        | 6.179                                                                                                                            | 6.179                                                                                                                            | 6.179                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7.415                                                                                                                               |
|                             | Control, Driving   |            | Inverter-control,                                                                                                                | Inverter-control,                                                                                                                | Inverter-control.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Inverter-control,                                                                                                                   |
|                             | mechanism          |            | Direct-driven by motor                                                                                                           | Direct-driven by motor                                                                                                           | Direct-driven by motor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Direct-driven by motor                                                                                                              |
|                             | Motor output       | kW         | 0.92 x 1                                                                                                                         | 0.92 x 1                                                                                                                         | 0.92 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.92 x 1                                                                                                                            |
| *2                          | External static pr | ess.       | 0 Pa (0 mmH₂O)                                                                                                                   | 0 Pa (0 mmH₂O)                                                                                                                   | 0 Pa (0 mmH₂O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0 Pa (0 mmH₂O)                                                                                                                      |
| Compressor                  | Type               |            | Inverter scroll hermetic                                                                                                         | Inverter scroll hermetic                                                                                                         | Inverter scroll hermetic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Inverter scroll hermetic                                                                                                            |
|                             | "                  |            | compressor                                                                                                                       | compressor                                                                                                                       | compressor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | compressor                                                                                                                          |
|                             | Starting method    |            | Inverter                                                                                                                         | Inverter                                                                                                                         | Inverter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Inverter                                                                                                                            |
|                             | Motor output       | kW         | 5.5                                                                                                                              | 6.9                                                                                                                              | 8.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10.4                                                                                                                                |
|                             | Case heater        | kW         | _                                                                                                                                | -                                                                                                                                | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | _                                                                                                                                   |
| External finish             |                    |            | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pre-coated galvanized steel shee<br>(+powder coating for -BS type<br><munsell 1.1="" 3y="" 7.8="" or="" simila<="" td=""></munsell> |
| External dimensio           | n H x W x D        | mm         | 1,650 x 920 x 740                                                                                                                | 1,650 x 920 x 740                                                                                                                | 1,650 x 920 x 740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,650 x 1,220 x 740                                                                                                                 |
|                             |                    | in.        | 65 x 36-1/4 x 29-3/16                                                                                                            | 65 x 36-1/4 x 29-3/16                                                                                                            | 65 x 36-1/4 x 29-3/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 65 x 48-1/16 x 29-3/16                                                                                                              |
| Protection                  | High pressure pr   |            | High pressure sensor,                                                                                                            | High pressure sensor,                                                                                                            | High pressure sensor,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | High pressure sensor,                                                                                                               |
| devices                     | I ngn procedio pr  | 0100001    | High pressure switch at<br>4.15 MPa (601 psi)                                                                                    | High pressure switch at<br>4.15 MPa (601 psi)                                                                                    | High pressure switch at<br>4.15 MPa (601 psi)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | High pressure switch at 4.15 MPa (601 psi)                                                                                          |
|                             | Inverter circuit   |            | Over-heat protection,                                                                                                            | Over-heat protection,                                                                                                            | Over-heat protection,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Over-heat protection,                                                                                                               |
|                             | (COMP./FAN)        |            | Over-current protection                                                                                                          | Over-current protection                                                                                                          | Over-current protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Over-current protection                                                                                                             |
| Refrigerant                 | Type x original ch | narge      | R410A x 5.5 kg (13 lbs)                                                                                                          | R410A x 6.5 kg (15 lbs)                                                                                                          | R410A x 6.5 kg (15 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | R410A x 11.5 kg (26 lbs)                                                                                                            |
| Net weight                  |                    | kg (lbs)   | 174 (384)                                                                                                                        | 183 (404)                                                                                                                        | 200 (441)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 236 (521)                                                                                                                           |
| Heat exchanger              |                    |            | Salt-resistant cross fin & copper tube                                                                                           | Salt-resistant cross fin & copper tube                                                                                           | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Salt-resistant cross fin<br>& copper tube                                                                                           |
| Optional parts              |                    |            | Joint: CMY-Y102SS/LS-G2<br>Header: CMY-Y104/108/1010-G                                                                           | Joint: CMY-Y102SS/LS-G2<br>Header: CMY-Y104/108/1010-G                                                                           | Joint: CMY-Y102SS/LS-G2<br>Header: CMY-Y104/108/1010-G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Joint: CMY-Y102SS/<br>LS-G2,CMY-Y202S-G2<br>Header: CMY-Y104/108/1010                                                               |
| Energy Labelling scheme     |                    |            | 1100 1100 pm                                                                                                                     | 12001 (3200 mm)                                                                                                                  | Discording States   Disc | 12077: 28479mm                                                                                                                      |

<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

| Technical cooling containers (cusped to the section 2) |         |                                              |                       |                     |                  |  |  |  |
|--------------------------------------------------------|---------|----------------------------------------------|-----------------------|---------------------|------------------|--|--|--|
|                                                        | /       | Indoor                                       | Outdoor               | Pipe length         | Level difference |  |  |  |
|                                                        | Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |  |  |  |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmH2O, 6.1mmH2O).
\*Due to continuing improvement, above specifications may be subject to change without notice.

## YKD-series - Cooling-only

## PUCY-P YKD (-BS)



## **Specifications**

| Model                                  |                            |            | PUCY-P400YKD (-BS)                                                                                                               | PUCY-P450YKD (-BS)                                                                                                               | PUCY-P500YKD (-BS)                                                                                                               |
|----------------------------------------|----------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
|                                        |                            |            |                                                                                                                                  | ` ′                                                                                                                              | , ,                                                                                                                              |
| Power source                           | *1                         | 1.147      | 3-phase 4-wire 380-400-415 V 50/60 Hz                                                                                            | 3-phase 4-wire 380-400-415 V 50/60 Hz                                                                                            | 3-phase 4-wire 380-400-415 V 50/60 Hz                                                                                            |
| Cooling capacity                       | "1                         | 17.4.4     | 44.0                                                                                                                             | 48.0                                                                                                                             | 56.0                                                                                                                             |
| (Nominal)                              |                            | BTU/h      | 150,100                                                                                                                          | 163,800                                                                                                                          | 191,100                                                                                                                          |
|                                        | Power input                | kW         | 12.42                                                                                                                            | 14.32                                                                                                                            | 16.51                                                                                                                            |
|                                        | Current input              | Α          | 20.9-19.9-19.1                                                                                                                   | 24.1-22.9-22.1                                                                                                                   | 27.8-26.4-25.5                                                                                                                   |
|                                        | EER                        | kW/kW      | 3.54                                                                                                                             | 3.35                                                                                                                             | 3.39                                                                                                                             |
| Temp. range of                         | Indoor                     | W.B.       | 15.0~24.0 °C (59~75 °F)                                                                                                          | 15.0~24.0 °C (59~75 °F)                                                                                                          | 15.0~24.0 °C (59~75 °F)                                                                                                          |
| cooling                                | Outdoor                    | D.B.       | 10.0~52.0 °C (50~126 °F)                                                                                                         | 10.0~52.0 °C (50~126 °F)                                                                                                         | 10.0~52.0 °C (50~126 °F)                                                                                                         |
| Indoor unit                            | Total capacity             |            | 50~130% of outdoor unit capacity                                                                                                 | 50~130% of outdoor unit capacity                                                                                                 | 50~130% of outdoor unit capacity                                                                                                 |
| connectable                            | Model/Quantity             |            | P15~P400/1~34                                                                                                                    | P15~P400/1~39                                                                                                                    | P15~P500/1~43                                                                                                                    |
| Sound pressure le<br>(measured in aned |                            | dB <a></a> | 63                                                                                                                               | 63                                                                                                                               | 65                                                                                                                               |
| Refrigerant piping                     | Liquid pipe                | mm (in.)   | 12.7 (1/2) Brazed                                                                                                                | 15.88 (5/8) Brazed                                                                                                               | 15.88 (5/8) Brazed                                                                                                               |
| diameter                               | Gas pipe                   | mm (in.)   | 28.58 (1-1/8) Brazed                                                                                                             | 28.58 (1-1/8) Brazed                                                                                                             | 28.58 (1-1/8) Brazed                                                                                                             |
| Fan                                    | Type x Quantity            |            | Propeller fan x 1                                                                                                                | Propeller fan x 1                                                                                                                | Propeller fan x 2                                                                                                                |
|                                        | Air flow rate              | m³/min     | 210                                                                                                                              | 210                                                                                                                              | 320                                                                                                                              |
|                                        |                            | L/s        | 3,500                                                                                                                            | 3,500                                                                                                                            | 5,333                                                                                                                            |
|                                        |                            | cfm        | 7.415                                                                                                                            | 7.415                                                                                                                            | 11,299                                                                                                                           |
|                                        | Control, Driving mechanism |            | Inverter-control, Direct-driven by motor                                                                                         | Inverter-control, Direct-driven by motor                                                                                         |                                                                                                                                  |
|                                        | Motor output kW            |            | 0.92 x 1                                                                                                                         | 0.92 x 1                                                                                                                         | 0.92 x 2                                                                                                                         |
| *2                                     | External static pr         |            | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH₂O)                                                                                                                   |
| Compressor                             | Type                       | 000.       | Inverter scroll hermetic compressor                                                                                              | Inverter scroll hermetic compressor                                                                                              | Inverter scroll hermetic compressor                                                                                              |
|                                        | Starting method            |            | Inverter                                                                                                                         | Inverter                                                                                                                         | Inverter                                                                                                                         |
|                                        | Motor output kW            |            | 10.8 12.4                                                                                                                        |                                                                                                                                  | 13.3                                                                                                                             |
|                                        | Case heater kW             |            | -                                                                                                                                | _                                                                                                                                | -                                                                                                                                |
| External finish                        | Todoo modio.               | 1          | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |
| External dimensio                      | n H x W x D                | mm         | 1,650 x 1,220 x 740                                                                                                              | 1,650 x 1,220 x 740                                                                                                              | 1,650 x 1,750 x 740                                                                                                              |
|                                        |                            | in.        | 65 x 48-1/16 x 29-3/16                                                                                                           | 65 x 48-1/16 x 29-3/16                                                                                                           | 65 x 68-15/16 x 29-3/16                                                                                                          |
| Protection                             | High pressure pr           | otection   | High pressure sensor,                                                                                                            | High pressure sensor,                                                                                                            | High pressure sensor,                                                                                                            |
| devices                                |                            |            |                                                                                                                                  | High pressure switch at 4.15 MPa (601 psi)                                                                                       |                                                                                                                                  |
|                                        | Inverter circuit           |            | Over-heat protection,                                                                                                            | Over-heat protection,                                                                                                            | Over-heat protection,                                                                                                            |
|                                        | (COMP./FAN)                |            | Over-current protection                                                                                                          | Over-current protection                                                                                                          | Over-current protection                                                                                                          |
| Refrigerant                            | Type x original cl         |            | R410A x 11.5 kg (26 lbs)                                                                                                         | R410A x 11.5 kg (26 lbs)                                                                                                         | R410A x 11.8 kg (27 lbs)                                                                                                         |
| Net weight                             |                            | kg (lbs)   | 236 (521)                                                                                                                        | 236 (521)                                                                                                                        | 304 (671)                                                                                                                        |
| Heat exchanger                         |                            |            | Salt-resistant cross fin & copper tube                                                                                           | Salt-resistant cross fin & copper tube                                                                                           | Salt-resistant cross fin & copper tube                                                                                           |
| Optional parts                         |                            |            | Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2<br>Header: CMY-Y104/108/1010-G                                                              | Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2<br>Header: CMY-Y104/108/1010-G                                                              | Joint: CMY-Y102SS/LS-G2,CMY-Y202S-G<br>Header: CMY-Y104/108/1010-G                                                               |
| Energy Labelling s                     | scheme                     |            | 600 24719-                                                                                                                       | - April 18 1461                                                                                                                  | **************************************                                                                                           |

<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

| Normal deciming conditions (daspect to the Books E) |                                              |                       |                     |                  |  |  |  |  |  |
|-----------------------------------------------------|----------------------------------------------|-----------------------|---------------------|------------------|--|--|--|--|--|
|                                                     | Indoor                                       | Outdoor               | Pipe length         | Level difference |  |  |  |  |  |
| Cooling                                             | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |  |  |  |  |  |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmH2O, 6.1mmH2O).
\*Due to continuing improvement, above specifications may be subject to change without notice.

## **YKD**-series - Cooling-only

## PUCY-P YSKD (-BS)





## **Specifications**

| Model                                            |                      |            | PUCY-P550YSKD (-BS)                   | PUCY-P600YSKD (-BS)                   | PUCY-P650YSKD (-BS)                   |
|--------------------------------------------------|----------------------|------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Power source                                     |                      |            | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity                                 | *1                   | kW         | 61.5                                  | 68.0                                  | 72.0                                  |
| (Nominal)                                        |                      | BTU/h      | 209,800                               | 232,000                               | 245,700                               |
|                                                  | Power input          | kW         | 14.04                                 | 15.34                                 | 17.73                                 |
|                                                  | Current input        | Α          | 23.7-22.5-21.7                        | 25.8-24.6-23.7                        | 29.9-28.4-27.4                        |
|                                                  | EER                  | kW/kW      | 4.38                                  | 4.43                                  | 4.06                                  |
| Temp. range of                                   | Indoor               | W.B.       | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |
| cooling                                          | Outdoor              | D.B.       | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |
| Indoor unit                                      | Total capacity       |            | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |
| connectable                                      | Model/Quantity       |            | P15~P500/1~47                         | P15~P600/1~50                         | P15~P600/1~50                         |
| Sound pressure level (measured in anechoic room) |                      | dB <a></a> | 63                                    | 63                                    | 64.5                                  |
| Refrigerant piping                               | Liquid pipe mm (in.) |            | 15.88 (5/8) Brazed                    | 15.88 (5/8) Brazed                    | 15.88 (5/8) Brazed                    |
| diameter                                         | Gas pipe             | mm (in.)   | 28.58 (1-1/8) Brazed                  | 28.58 (1-1/8) Brazed                  | 28.58 (1-1/8) Brazed                  |

#### Set Model

| Set Model       |                            |           |                         |                                                                    |                             |                                                                    |                             |                                                                    |
|-----------------|----------------------------|-----------|-------------------------|--------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------|
| Model           |                            |           | PUCY-P250YKD (-BS)      | PUCY-P300YKD (-BS)                                                 | PUCY-P250YKD (-BS)          | PUCY-P350YKD (-BS)                                                 | PUCY-P250YKD (-BS)          | PUCY-P400YKD (-BS)                                                 |
| Fan             | Type x Quantity            |           | Propeller fan x 1       | Propeller fan x 1                                                  | Propeller fan x 1           | Propeller fan x 1                                                  | Propeller fan x 1           | Propeller fan x 1                                                  |
|                 | Air flow rate              | m³/min    | 175                     | 175                                                                | 175                         | 210                                                                | 175                         | 210                                                                |
|                 |                            | L/s       | 2,917                   | 2,917                                                              | 2,917                       | 3,500                                                              | 2,917                       | 3,500                                                              |
|                 |                            | cfm       | 6,179                   | 6,179                                                              | 6,179                       | 7,415                                                              | 6,179                       | 7,415                                                              |
|                 | Control, Driving mechanism |           | Inverter-control, Dir   | ect-driven by motor                                                | Inverter-control, Dir       | rect-driven by motor                                               | Inverter-control, Dir       | ect-driven by motor                                                |
|                 | Motor output               | kW        | 0.92 x 1                | 0.92 x 1                                                           | 0.92 x 1                    | 0.92 x 1                                                           | 0.92 x 1                    | 0.92 x 1                                                           |
|                 | *2 External static p       | ress.     | 0 Pa (0 mmH₂O)          | 0 Pa (0 mmH₂O)                                                     | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                        | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                        |
| Compressor      | Туре                       |           | Inverter scroll her     | metic compressor                                                   | Inverter scroll her         | metic compressor                                                   | Inverter scroll her         | metic compressor                                                   |
|                 | Starting method            |           | Inverter                | Inverter                                                           | Inverter                    | Inverter                                                           | Inverter                    | Inverter                                                           |
|                 | Motor output               | kW        | 6.9                     | 8.1                                                                | 6.9                         | 10.4                                                               | 6.9                         | 10.8                                                               |
|                 | Case heater                | kW        | _                       | _                                                                  | -                           | _                                                                  | _                           | -                                                                  |
| External finish |                            |           |                         | nized steel sheets<br>ng for -BS type)<br>7.8/1.1 or similar>      | (+powder coati              | nized steel sheets<br>ng for -BS type)<br>7.8/1.1 or similar>      | (+powder coati              | nized steel sheets<br>ng for -BS type)<br>'.8/1.1 or similar>      |
| External dimer  | sion H x W x D             | mm        | 1.650 x 920 x 740       | 1.650 x 920 x 740                                                  | 1.650 x 920 x 740           | 1,650 x 1,220 x 740                                                | 1.650 x 920 x 740           | 1,650 x 1,220 x 740                                                |
|                 |                            | in.       | 65 x 36-1/4 x 29-3/16   | 65 x 36-1/4 x 29-3/16                                              | 65 x 36-1/4 x 29-3/16       | 65 x 48-1/16 x 29-3/16                                             | 65 x 36-1/4 x 29-3/16       |                                                                    |
| Protection      | High pressure pr           | rotection | High press              | ure sensor,                                                        | High press                  | ure sensor,                                                        | High press                  | ure sensor,                                                        |
| devices         | ing. procedu protoction    |           | High pressure switch    | at 4.15 MPa (601 psi)                                              | High pressure switch        | at 4.15 MPa (601 psi)                                              |                             |                                                                    |
|                 | Inverter circuit           |           | Over-heat               | protection,                                                        | Over-heat protection,       |                                                                    | Over-heat protection,       |                                                                    |
|                 | (COMP./FAN)                |           | Over-currer             | nt protection                                                      | Over-currer                 | nt protection                                                      | Over-currer                 | nt protection                                                      |
| Refrigerant     | Type x original of         | harge     | R410A x 6.5 kg (15 lbs) | R410A x 6.5 kg (15 lbs)                                            | R410A x 6.5 kg (15 lbs)     | R410A x 11.5 kg (26 lbs)                                           | R410A x 6.5 kg (15 lbs)     | R410A x 11.5 kg (26 lbs)                                           |
| Net weight      |                            | kg (lbs)  | 183 (404)               | 200 (441)                                                          | 183 (404)                   | 236 (521)                                                          | 183 (404)                   | 236 (521)                                                          |
| Heat exchange   |                            |           | Salt-resistant cross    | s fin & copper tube                                                | Salt-resistant cros         | s fin & copper tube                                                | Salt-resistant cros         | s fin & copper tube                                                |
| Pipe between    | unit Liquid pipe           | mm (in.)  | 9.52 (3/8) Brazed       | 12.7 (1/2) Brazed                                                  | 9.52 (3/8) Brazed           | 12.7 (1/2) Brazed                                                  | 9.52 (3/8) Brazed           | 15.88 (5/8) Brazed                                                 |
| and distributor | Gas pipe                   | mm (in.)  | 22.2 (7/8) Brazed       | 22.2 (7/8) Brazed                                                  | 22.2 (7/8) Brazed           | 28.58 (1-1/8) Brazed                                               |                             | 28.58 (1-1/8) Brazed                                               |
| Optional parts  |                            |           |                         | kit: CMY-Y100VBK3<br>102SS/LS-G2,<br>202/302S-G2<br>104/108/1010-G | Joint: CMY-Y:<br>CMY-Y:     | kit: CMY-Y100VBK3<br>102SS/LS-G2,<br>202/302S-G2<br>104/108/1010-G | Joint: CMY-Y                | tit: CMY-Y100VBK3<br>102SS/LS-G2,<br>202/302S-G2<br>104/108/1010-G |
| Energy Labellii | ng scheme                  |           | 12091 (3103)——          | 1200 17854-                                                        | 12001 (3100)                | 13007 28878                                                        | 12091 (2103)—               | 600 24718mm                                                        |

<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

|         | Indoor                                       | Outdoor               | Pipe length         | Level difference |
|---------|----------------------------------------------|-----------------------|---------------------|------------------|
| Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
\*Due to continuing improvement, above specifications may be subject to change without notice.

## YKD-series - Cooling-only

## PUCY-P YSKD (-BS)





## **Specifications**

| Model                                 |                |          | PUCY-P700YSKD (-BS)                   | PUCY-P750YSKD (-BS)                   | PUCY-P800YSKD (-BS)                   |
|---------------------------------------|----------------|----------|---------------------------------------|---------------------------------------|---------------------------------------|
| Power source                          |                |          | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity                      | *1             | kW       | 76.0                                  | 81.5                                  | 88.0                                  |
| (Nominal)                             |                | BTU/h    | 259,300                               | 278,100                               | 300,300                               |
|                                       | Power input    | kW       | 19.24                                 | 21.79                                 | 25.00                                 |
|                                       | Current input  | Α        | 32.4-30.8-29.7                        | 36.7-34.9-33.6                        | 42.2-40.0-38.6                        |
|                                       | EER            | kW/kW    | 3.95                                  | 3.74                                  | 3.52                                  |
| Temp. range of                        | Indoor         | W.B.     | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |
| cooling                               | Outdoor        | D.B.     | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |
| Indoor unit                           | Total capacity |          | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |
| connectable                           | Model/Quantity |          | P15~P600/1~50                         | P15~P600/1~50                         | P15~P600/1~50                         |
| Sound pressure le<br>(measured in ane |                |          | 64.5                                  | 65.5                                  | 66                                    |
| Refrigerant piping                    | Liquid pipe    | mm (in.) | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    |
| diameter                              | Gas pipe       | mm (in.) | 34.93 (1-3/8) Brazed                  | 34.93 (1-3/8) Brazed                  | 34.93 (1-3/8) Brazed                  |

#### Set Model

| Set Model       |                            |          |                             |                                                                    |                             |                                                                    |                             |                                                               |
|-----------------|----------------------------|----------|-----------------------------|--------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------|
| Model           |                            |          | PUCY-P250YKD (-BS)          | PUCY-P450YKD (-BS)                                                 | PUCY-P300YKD (-BS)          | PUCY-P450YKD (-BS)                                                 | PUCY-P400YKD (-BS)          | PUCY-P400YKD (-BS)                                            |
| Fan             | Type x Quantity            |          | Propeller fan x 1           | Propeller fan x 1                                                  | Propeller fan x 1           | Propeller fan x 1                                                  | Propeller fan x 1           | Propeller fan x 1                                             |
|                 | Air flow rate              | m³/min   | 175                         | 210                                                                | 175                         | 210                                                                | 210                         | 210                                                           |
|                 |                            | L/s      | 2,917                       | 3,500                                                              | 2,917                       | 3,500                                                              | 3,500                       | 3,500                                                         |
|                 |                            | cfm      | 6,179                       | 7,415                                                              | 6,179                       | 7,415                                                              | 7,415                       | 7,415                                                         |
|                 | Control, Driving mechanism |          | Inverter-control, Dir       | ect-driven by motor                                                | Inverter-control, Dir       | ect-driven by motor                                                | Inverter-control, Dir       | ect-driven by motor                                           |
|                 | Motor output               | kW       | 0.92 x 1                    | 0.92 x 1                                                           | 0.92 x 1                    | 0.92 x 1                                                           | 0.92 x 1                    | 0.92 x 1                                                      |
|                 | *2 External static pr      | ess.     | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                        | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                        | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH₂O)                                                |
| Compressor      | Туре                       |          | Inverter scroll her         | metic compressor                                                   | Inverter scroll her         | metic compressor                                                   | Inverter scroll her         | metic compressor                                              |
|                 | Starting method            |          | Inverter                    | Inverter                                                           | Inverter                    | Inverter                                                           | Inverter                    | Inverter                                                      |
|                 | Motor output               | kW       | 6.9                         | 12.4                                                               | 8.1                         | 12.4                                                               | 10.8                        | 10.8                                                          |
|                 | Case heater                | kW       | _                           | -                                                                  | _                           | _                                                                  | -                           | _                                                             |
| External finish |                            |          |                             | nized steel sheets<br>ng for -BS type)<br>'.8/1.1 or similar>      |                             | nized steel sheets<br>ng for -BS type)<br>7.8/1.1 or similar>      | (+powder coati              | nized steel sheets<br>ng for -BS type)<br>7.8/1.1 or similar> |
| External dimens | sion H x W x D             | mm       | 1,650 x 920 x 740           | 1,650 x 1,220 x 740                                                | 1,650 x 920 x 740           | 1,650 x 1,220 x 740                                                | 1,650 x 1,220 x 740         | 1,650 x 1,220 x 740                                           |
|                 |                            | in.      | 65 x 36-1/4 x 29-3/16       | 65 x 48-1/16 x 29-3/16                                             | 65 x 36-1/4 x 29-3/16       | 65 x 48-1/16 x 29-3/16                                             | 65 x 48-1/16 x 29-3/16      | 65 x 48-1/16 x 29-3/16                                        |
| Protection      | High pressure pr           | otection | High press                  | ure sensor,                                                        | High pressure sensor,       |                                                                    | High press                  | ure sensor,                                                   |
| devices         | ingi process protection    |          | High pressure switch        | at 4.15 MPa (601 psi)                                              | High pressure switch        | at 4.15 MPa (601 psi)                                              | High pressure switch        | at 4.15 MPa (601 psi)                                         |
|                 | Inverter circuit           |          | Over-heat protection,       |                                                                    | Over-heat protection,       |                                                                    | Over-heat protection,       |                                                               |
|                 | (COMP./FAN)                |          |                             | nt protection                                                      |                             | nt protection                                                      | Over-currer                 |                                                               |
| Refrigerant     | Type x original c          | harge    | R410A x 6.5 kg (15 lbs)     | R410A x 11.5 kg (26 lbs)                                           | R410A x 6.5 kg (15 lbs)     | R410A x 11.5 kg (26 lbs)                                           | R410A x 11.5 kg (26 lbs)    | R410A x 11.5 kg (26 lbs)                                      |
| Net weight      |                            | kg (lbs) | 183 (404)                   | 236 (521)                                                          | 200 (441)                   | 236 (521)                                                          | 236 (521)                   | 236 (521)                                                     |
| Heat exchange   | r                          |          | Salt-resistant cross        | s fin & copper tube                                                | Salt-resistant cros         | s fin & copper tube                                                | Salt-resistant cros         | s fin & copper tube                                           |
| Pipe between u  | nit Liquid pipe            | mm (in.) | 9.52 (3/8) Brazed           | 15.88 (5/8) Brazed                                                 | 12.7 (1/2) Brazed           | 15.88 (5/8) Brazed                                                 | 15.88 (5/8) Brazed          | 15.88 (5/8) Brazed                                            |
| and distributor | Gas pipe                   | mm (in.) |                             | 28.58 (1-1/8) Brazed                                               | 22.2 (7/8) Brazed           | 28.58 (1-1/8) Brazed                                               |                             |                                                               |
| Optional parts  |                            |          | Joint: CMY-Y:<br>CMY-Y:     | tit: CMY-Y200VBK2<br>102SS/LS-G2,<br>202/302S-G2<br>104/108/1010-G | Joint: CMY-Y:<br>CMY-Y:     | kit: CMY-Y200VBK2<br>102SS/LS-G2,<br>202/302S-G2<br>104/108/1010-G | Joint: CMY-Y                | 202/302S-G2                                                   |
| Energy Labellin | g scheme                   |          | 12005 12103-mm              | 14255 28 1788-III                                                  | -12009 17864                | 14201 23 140                                                       | 1970S 2411800               | ###<br>##706 24719am                                          |

\*1 Nominal cooling conditions (subject to JIS B8615-2)

|         |                                              | /                     |                     |                  |
|---------|----------------------------------------------|-----------------------|---------------------|------------------|
|         | Indoor                                       | Outdoor               | Pipe length         | Level difference |
| Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
\*Due to continuing improvement, above specifications may be subject to change without notice.

## YKD-series - Cooling-only

## PUCY-P YSKD (-BS)





## **Specifications**

| Model                                 |                |            | PUCY-P850YSKD (-BS)                   | PUCY-P900YSKD (-BS)                   | PUCY-P950YSKD (-BS)                   |
|---------------------------------------|----------------|------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Power source                          |                |            | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity                      | *1             | kW         | 92.0                                  | 96.0                                  | 104.0                                 |
| (Nominal)                             |                | BTU/h      | 313,900                               | 327,600                               | 354,800                               |
|                                       | Power input    | kW         | 26.97                                 | 29.00                                 | 31.51                                 |
|                                       | Current input  | Α          | 45.5-43.2-41.6                        | 48.9-46.5-44.8                        | 53.1-50.5-48.7                        |
|                                       | EER            | kW/kW      | 3.41                                  | 3.31                                  | 3.30                                  |
| Temp. range of                        | Indoor         | W.B.       | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |
| cooling                               | Outdoor        | D.B.       | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |
| Indoor unit                           | Total capacity |            | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |
| connectable                           | Model/Quantity |            | P15~P600/1~50                         | P15~P600/1~50                         | P15~P600/1~50                         |
| Sound pressure le<br>(measured in ane |                | dB <a></a> | 66                                    | 66                                    | 67.5                                  |
| Refrigerant piping                    | Liquid pipe    | mm (in.)   | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    |
| diameter                              | Gas pipe       | mm (in.)   | 41.28 (1-5/8) Brazed                  | 41.28 (1-5/8) Brazed                  | 41.28 (1-5/8) Brazed                  |

#### Set Model

| Set Model       |                            |              |                                                  |                                                               |                                                  |                                                               |                                                  |                                                                                                                                                                                                                              |
|-----------------|----------------------------|--------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model           |                            |              | PUCY-P400YKD (-BS)                               | PUCY-P450YKD (-BS)                                            | PUCY-P450YKD (-BS)                               | PUCY-P450YKD (-BS)                                            | PUCY-P450YKD (-BS)                               | PUCY-P500YKD (-BS)                                                                                                                                                                                                           |
| Fan             | Type x Quantity            |              | Propeller fan x 1                                | Propeller fan x 1                                             | Propeller fan x 1                                | Propeller fan x 1                                             | Propeller fan x 1                                | Propeller fan x 2                                                                                                                                                                                                            |
|                 | Air flow rate              | m³/min       | 210                                              | 210                                                           | 210                                              | 210                                                           | 210                                              | 320                                                                                                                                                                                                                          |
|                 |                            | L/s          | 3,500                                            | 3,500                                                         | 3,500                                            | 3,500                                                         | 3,500                                            | 5,333                                                                                                                                                                                                                        |
|                 |                            | cfm          | 7,415                                            | 7,415                                                         | 7,415                                            | 7,415                                                         | 7,415                                            | 11,299                                                                                                                                                                                                                       |
|                 | Control, Driving mechanism |              | Inverter-control, Dir                            | ect-driven by motor                                           | Inverter-control, Dir                            | ect-driven by motor                                           | Inverter-control, Dir                            | ect-driven by motor                                                                                                                                                                                                          |
|                 | Motor output               | kW           | 0.92 x 1                                         | 0.92 x 1                                                      | 0.92 x 1                                         | 0.92 x 1                                                      | 0.92 x 1                                         | 0.92 x 2                                                                                                                                                                                                                     |
|                 | *2 External static p       | ress.        | 0 Pa (0 mmH <sub>2</sub> O)                      | 0 Pa (0 mmH <sub>2</sub> O)                                   | 0 Pa (0 mmH₂O)                                   | 0 Pa (0 mmH <sub>2</sub> O)                                   | 0 Pa (0 mmH₂O)                                   | 0 Pa (0 mmH₂O)                                                                                                                                                                                                               |
| Compressor      | Туре                       |              | Inverter scroll her                              | metic compressor                                              | Inverter scroll her                              | metic compressor                                              | Inverter scroll her                              | metic compressor                                                                                                                                                                                                             |
|                 | Starting method            |              | Inverter                                         | Inverter                                                      | Inverter                                         | Inverter                                                      | Inverter                                         | Inverter                                                                                                                                                                                                                     |
|                 | Motor output               | kW           | 10.8                                             | 12.4                                                          | 12.4                                             | 12.4                                                          | 12.4                                             | 13.3                                                                                                                                                                                                                         |
|                 | Case heater                | kW           | -                                                | _                                                             | -                                                | -                                                             | -                                                | -                                                                                                                                                                                                                            |
| External finish |                            |              | (+powder coati                                   | nized steel sheets<br>ng for -BS type)<br>7.8/1.1 or similar> | (+powder coati                                   | nized steel sheets<br>ng for -BS type)<br>7.8/1.1 or similar> |                                                  | nized steel sheets<br>ng for -BS type)<br>7.8/1.1 or similar>                                                                                                                                                                |
| External dimen  | sion H x W x D             | mm           | 1.650 x 1.220 x 740                              | 1,650 x 1,220 x 740                                           | 1,650 x 1,220 x 740                              | 1,650 x 1,220 x 740                                           |                                                  | 1,650 x 1,750 x 740                                                                                                                                                                                                          |
|                 |                            | in.          | 65 x 48-1/16 x 29-3/16                           | 65 x 48-1/16 x 29-3/16                                        |                                                  | 65 x 48-1/16 x 29-3/16                                        |                                                  | 65 x 68-15/16 x 29-3/16                                                                                                                                                                                                      |
| Protection      | High pressure pr           | rotection    | High press                                       | ure sensor,                                                   | High pressure sensor, High                       |                                                               | High press                                       | ure sensor,                                                                                                                                                                                                                  |
| devices         | ingin processo protoction  |              | High pressure switch                             | at 4.15 MPa (601 psi)                                         | High pressure switch                             | at 4.15 MPa (601 psi)                                         |                                                  |                                                                                                                                                                                                                              |
|                 | Inverter circuit           | ,            | Over-heat                                        | protection,                                                   | Over-heat protection,                            |                                                               | Over-heat                                        | protection,                                                                                                                                                                                                                  |
|                 | (COMP./FAN)                |              | Over-currer                                      | nt protection                                                 | Over-currer                                      | nt protection                                                 | Over-currer                                      | nt protection                                                                                                                                                                                                                |
| Refrigerant     | Type x original of         | harge        | R410A x 11.5 kg (26 lbs)                         | R410A x 11.5 kg (26 lbs)                                      | R410A x 11.5 kg (26 lbs)                         | R410A x 11.5 kg (26 lbs)                                      | R410A x 11.5 kg (26 lbs)                         | R410A x 11.8 kg (27 lbs)                                                                                                                                                                                                     |
| Net weight      |                            | kg (lbs)     | 236 (521)                                        | 236 (521)                                                     | 236 (521)                                        | 236 (521)                                                     | 236 (521)                                        | 304 (671)                                                                                                                                                                                                                    |
| Heat exchange   |                            |              | Salt-resistant cros                              | s fin & copper tube                                           | Salt-resistant cros                              | s fin & copper tube                                           | Salt-resistant cros                              | s fin & copper tube                                                                                                                                                                                                          |
| Pipe between u  | unit Liquid pipe           | mm (in.)     | 15.88 (5/8) Brazed                               | 15.88 (5/8) Brazed                                            | 15.88 (5/8) Brazed                               | 15.88 (5/8) Brazed                                            | 15.88 (5/8) Brazed                               | 15.88 (5/8) Brazed                                                                                                                                                                                                           |
| and distributor | Gas pipe                   | mm (in.)     | 28.58 (1-1/8) Brazed                             | 28.58 (1-1/8) Brazed                                          | 28.58 (1-1/8) Brazed                             | 28.58 (1-1/8) Brazed                                          | 28.58 (1-1/8) Brazed                             | 28.58 (1-1/8) Brazed                                                                                                                                                                                                         |
| Optional parts  |                            | Joint: CMY-Y | xit: CMY-Y200VBK2<br>102SS/LS-G2,<br>202/302S-G2 | Joint: CMY-Y                                                  | kit: CMY-Y200VBK2<br>102SS/LS-G2,<br>202/302S-G2 | Joint: CMY-Y                                                  | xit: CMY-Y200VBK2<br>102SS/LS-G2,<br>202/302S-G2 |                                                                                                                                                                                                                              |
|                 |                            |              |                                                  | 104/108/1010-G                                                |                                                  | 104/108/1010-G                                                | Header: CMY-Y                                    |                                                                                                                                                                                                                              |
| Energy Labellir | ng scheme                  |              |                                                  | 14205 28 240 mm                                               | 14205 28148 mm                                   | 6490<br>                                                      | 14205 28 2400 m                                  | CONTROL OF THE PARTY OF T |

<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

| · · · · · · · · · · · · · · · · · · · |         |                                              |                       |                     |                  |  |  |  |  |
|---------------------------------------|---------|----------------------------------------------|-----------------------|---------------------|------------------|--|--|--|--|
|                                       |         | Indoor                                       | Outdoor               | Pipe length         | Level difference |  |  |  |  |
|                                       | Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |  |  |  |  |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmH2O, 6.1mmH2O).
\*Due to continuing improvement, above specifications may be subject to change without notice.

## YKD-series - Cooling-only

## PUCY-P YSKD (-BS)



## **Specifications**

| Model                                 |                | PUCY-P1000YSKD (-BS) | PUCY-P1050YSKD (-BS)                  | PUCY-P1100YSKD (-BS)                  |                                       |
|---------------------------------------|----------------|----------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Power source                          |                |                      | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity                      | *1             | kW                   | 112.0                                 | 115.0                                 | 121.5                                 |
| (Nominal)                             |                | BTU/h                | 382,100                               | 392,400                               | 414,600                               |
|                                       | Power input    | kW                   | 34.04                                 | 29.63                                 | 30.99                                 |
|                                       | Current input  | Α                    | 57.4-54.5-52.6                        | 50.0-47.5-45.8                        | 52.3-49.7-47.9                        |
|                                       | EER            | kW/kW                | 3.29                                  | 3.88                                  | 3.92                                  |
| Temp. range of                        | Indoor         | W.B.                 | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |
| cooling                               | Outdoor        | D.B.                 | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |
| Indoor unit                           | Total capacity |                      | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |
| connectable                           | Model/Quantity |                      | P15~P600/1~50                         | P15~P600/1~50                         | P15~P600/1~50                         |
| Sound pressure le<br>(measured in ane |                | dB <a></a>           | 68                                    | 66.5                                  | 66.5                                  |
| Refrigerant piping                    | Liquid pipe    | mm (in.)             | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    |
| diameter                              | Gas pipe       | mm (in.)             | 41.28 (1-5/8) Brazed                  | 41.28 (1-5/8) Brazed                  | 41.28 (1-5/8) Brazed                  |

| Set Model                         |                                 |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                   |                                                                                                                                  |                                                                                                          |                                                                                                                                  |                                        |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------|---------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                             |                                 |          | PUCY-P500YKD (-BS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PUCY-P500YKD (-BS)                                                                                                                                                | (-BS)                                                                                                                            | (-BS)                                                                                                    | PUCY-P450YKD<br>(-BS)                                                                                                            | (-BS)                                  | (-BS)                       | (-BS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Fan                               | Type x Quantity                 |          | Propeller fan x 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Propeller fan x 2                                                                                                                                                 |                                                                                                                                  |                                                                                                          | Propeller fan x 1                                                                                                                |                                        |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                   | Air flow rate                   | m³/min   | 320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 320                                                                                                                                                               | 175                                                                                                                              | 175                                                                                                      | 210                                                                                                                              | 175                                    | 210                         | 210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                   |                                 | L/s      | 5,333                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5,333                                                                                                                                                             | 2,917                                                                                                                            | 2,917                                                                                                    | 3,500                                                                                                                            | 2,917                                  | 3,500                       | 3,500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                   |                                 | cfm      | 11,299                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11,299                                                                                                                                                            | 6,179                                                                                                                            | 6,179                                                                                                    | 7,415                                                                                                                            | 6,179                                  | 7,415                       | 7,415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                   | Control, Driving mechanism      |          | Inverter-control, Dir                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ect-driven by motor                                                                                                                                               | Inverter-cor                                                                                                                     | trol, Direct-driv                                                                                        | en by motor                                                                                                                      | Inverter-cor                           | ntrol, Direct-driv          | en by motor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                   | Motor output                    | kW       | 0.92 x 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.92 x 2                                                                                                                                                          | 0.92 x 1                                                                                                                         | 0.92 x 1                                                                                                 | 0.92 x 1                                                                                                                         | 0.92 x 1                               | 0.92 x 1                    | 0.92 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| *2                                | External static pr              | ess.     | 0 Pa (0 mmH₂O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0 Pa (0 mmH₂O)                                                                                                                                                    | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH <sub>2</sub> O)                                                                              | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH <sub>2</sub> O)            | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Compressor                        | Type                            |          | Inverter scroll her                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | metic compressor                                                                                                                                                  | Inverter so                                                                                                                      | croll hermetic o                                                                                         | ompressor                                                                                                                        | Inverter so                            | croll hermetic c            | ompressor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| •                                 | Starting method                 |          | Inverter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Inverter                                                                                                                                                          | Inverter                                                                                                                         | Inverter                                                                                                 | Inverter                                                                                                                         | Inverter                               | Inverter                    | Inverter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                   | Motor output                    | kW       | 13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 13.3                                                                                                                                                              | 8.1                                                                                                                              | 8.1                                                                                                      | 12.4                                                                                                                             | 8.1                                    | 10.4                        | 12.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                   | Case heater                     | kW       | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | _                                                                                                                                                                 | _                                                                                                                                | _                                                                                                        | _                                                                                                                                | _                                      | _                           | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| External finish                   |                                 |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | nized steel sheets<br>ng for -BS type)<br>7.8/1.1 or similar>                                                                                                     | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                                                                                                          | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                                        |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| External dimensio                 | n H x W x D                     | mm       | 1,650 x 1,750 x 740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1,650 x 1,750 x 740                                                                                                                                               | 1,650 x 920 x 740                                                                                                                | 1,650 x 920 x 740                                                                                        | 1,650 x 1,220 x 740                                                                                                              | 1,650 x 920 x 740                      | 1,650 x 1,220 x 740         | 1,650 x 1,220 x 740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                   |                                 | in.      | 65 x 68-15/16 x 29-3/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 65 x 68-15/16 x 29-3/16                                                                                                                                           | 65 x 36-1/4 x<br>29-3/16                                                                                                         | 65 x 36-1/4 x<br>29-3/16                                                                                 | 65 x 48-1/16 x<br>29-3/16                                                                                                        | 65 x 36-1/4 x<br>29-3/16               | 65 x 48-1/16 x<br>29-3/16   | 65 x 48-1/16 x<br>29-3/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Protection devices                | High pressure pro               | otection | High pressure sensor,<br>High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                   | High pressure sensor,<br>High pressure switch at 4.15 MPa (601 psi)                                                              |                                                                                                          |                                                                                                                                  | h pressure sen<br>switch at 4.15       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                   | Inverter circuit<br>(COMP./FAN) |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | t protection, Over-heat protection, int protection Over-current protection                                                                                        |                                                                                                                                  | Over-heat protection, Over-current protection                                                            |                                                                                                                                  |                                        |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Refrigerant                       | Type x original ch              | narge    | R410A x 11.8 kg (27 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | R410A x 11.8 kg (27 lbs)                                                                                                                                          | R410A x 6.5 kg<br>(15 lbs)                                                                                                       | R410A x 6.5 kg<br>(15 lbs)                                                                               | R410A x 11.5 kg<br>(26 lbs)                                                                                                      | R410A x 6.5 kg<br>(15 lbs)             | R410A x 11.5 kg<br>(26 lbs) | R410A x 11.5 kg<br>(26 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Net weight                        |                                 | kg (lbs) | 304 (671)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 304 (671)                                                                                                                                                         | 200 (441)                                                                                                                        | 200 (441)                                                                                                | 236 (521)                                                                                                                        | 200 (441)                              | 236 (521)                   | 236 (521)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Heat exchanger                    |                                 | , , ,    | Salt-resistant cros                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | s fin & copper tube                                                                                                                                               | Salt-resista                                                                                                                     | ant cross fin & o                                                                                        | copper tube                                                                                                                      | Salt-resista                           | ant cross fin & c           | copper tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Pipe between unit and distributor | Liquid pipe                     | mm (in.) | 15.88 (5/8) Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15.88 (5/8) Brazed                                                                                                                                                | 12.7 (1/2)<br>Brazed                                                                                                             | 12.7 (1/2)<br>Brazed                                                                                     | 15.88 (5/8)<br>Brazed                                                                                                            | 12.7 (1/2)<br>Brazed                   | 12.7 (1/2)<br>Brazed        | 15.88 (5/8)<br>Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                   | Gas pipe                        | mm (in.) | 28.58 (1-1/8) Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | , ,                                                                                                                                                               | 22.2 (7/8)<br>Brazed                                                                                                             | 22.2 (7/8)<br>Brazed                                                                                     | 28.58 (1-1/8)<br>Brazed                                                                                                          | 22.2 (7/8)<br>Brazed                   | 28.58 (1-1/8)<br>Brazed     | 28.58 (1-1/8)<br>Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Optional parts                    |                                 |          | Joint: CMY-Y:<br>CMY-Y:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ing kit: CMY-Y200VBK2 Outdoor Twinning kit: CMY-Y300VBK3 Y-Y102SS/LS-G2, Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 IY-Y104/108/1010-G Header: CMY-Y104/108/1010-G |                                                                                                                                  | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G |                                                                                                                                  |                                        |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Energy Labelling s                | scheme                          |          | Opposite State of the State of | TAGET 2811am                                                                                                                                                      | 12095 17164                                                                                                                      | - 17164                                                                                                  | ## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                           | ************************************** | 410YF 288T9+                | CONTROL STATE OF THE PARTY OF T |

\*1 Nominal cooling conditions (subject to JIS B8615-2)

| g(,     |                                              |                       |                     |                  |  |  |  |  |
|---------|----------------------------------------------|-----------------------|---------------------|------------------|--|--|--|--|
| /       | Indoor                                       | Outdoor               | Pipe length         | Level difference |  |  |  |  |
| Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |  |  |  |  |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
\*Due to continuing improvement, above specifications may be subject to change without notice.

## YKD-series - Cooling-only

## PUCY-P YSKD (-BS)



## **Specifications**

| Model                                            |                |            | PUCY-P1150YSKD (-BS)                  | PUCY-P1200YSKD (-BS)                  |
|--------------------------------------------------|----------------|------------|---------------------------------------|---------------------------------------|
| Power source                                     |                |            | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity                                 | *1             | kW         | 128.0                                 | 132.0                                 |
| (Nominal)                                        |                | BTU/h      | 436,700                               | 450,400                               |
|                                                  | Power input    | kW         | 33.95                                 | 37.50                                 |
|                                                  | Current input  | Α          | 57.3-54.4-52.4                        | 63.3-60.1-57.9                        |
|                                                  | EER            | kW/kW      | 3.77                                  | 3.52                                  |
| Temp. range of                                   | Indoor         | W.B.       | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |
| cooling                                          | Outdoor        | D.B.       | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |
| Indoor unit                                      | Total capacity |            | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |
| connectable                                      | Model/Quantity |            | P15~P600/1~50                         | P15~P600/1~50                         |
| Sound pressure level (measured in anechoic room) |                | dB <a></a> | 67.5                                  | 68                                    |
| Refrigerant piping                               | Liquid pipe    | mm (in.)   | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    |
| diameter                                         | Gas pipe       | mm (in.)   | 41.28 (1-5/8) Brazed                  | 41.28 (1-5/8) Brazed                  |

#### Set Model

| Set Model               |                            |                     |                                                                                                                            |                                                                                         |                          |                                                                                                                                  |                                                                                         |                             |
|-------------------------|----------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------|
| Model                   |                            |                     | PUCY-P350YKD (-BS)                                                                                                         | PUCY-P400YKD (-BS)                                                                      | PUCY-P400YKD (-BS)       | PUCY-P400YKD (-BS)                                                                                                               | PUCY-P400YKD (-BS)                                                                      | PUCY-P400YKD (-BS)          |
| Fan                     | Type x Quantity            |                     | Propeller fan x 1                                                                                                          | Propeller fan x 1                                                                       | Propeller fan x 1        | Propeller fan x 1                                                                                                                | Propeller fan x 1                                                                       | Propeller fan x 1           |
|                         | Air flow rate              | m³/min              | 210                                                                                                                        | 210                                                                                     | 210                      | 210                                                                                                                              | 210                                                                                     | 210                         |
|                         |                            | L/s                 | 3,500                                                                                                                      | 3,500                                                                                   | 3,500                    | 3,500                                                                                                                            | 3,500                                                                                   | 3,500                       |
|                         |                            | cfm                 | 7,415                                                                                                                      | 7,415                                                                                   | 7,415                    | 7,415                                                                                                                            | 7,415                                                                                   | 7,415                       |
|                         | Control, Driving mechanism |                     | Inverter-control, Direct-driven by motor                                                                                   |                                                                                         |                          | Inverter-control, Direct-driven by motor                                                                                         |                                                                                         |                             |
|                         | Motor output               | kW                  | 0.92 x 1                                                                                                                   | 0.92 x 1                                                                                | 0.92 x 1                 | 0.92 x 1                                                                                                                         | 0.92 x 1                                                                                | 0.92 x 1                    |
| *2                      | 2 External static pr       | ess.                | 0 Pa (0 mmH₂O)                                                                                                             | 0 Pa (0 mmH <sub>2</sub> O)                                                             | 0 Pa (0 mmH₂O)           | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH₂O)                                                                          | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor              | Туре                       |                     | Inverte                                                                                                                    | er scroll hermetic comp                                                                 | ressor                   | Inverte                                                                                                                          | er scroll hermetic comp                                                                 | ressor                      |
|                         | Starting method            |                     | Inverter                                                                                                                   | Inverter                                                                                | Inverter                 | Inverter                                                                                                                         | Inverter                                                                                | Inverter                    |
|                         | Motor output               | kW                  | 10.4                                                                                                                       | 10.8                                                                                    | 10.8                     | 10.8                                                                                                                             | 10.8                                                                                    | 10.8                        |
|                         | Case heater                | kW                  | _                                                                                                                          | -                                                                                       | -                        | -                                                                                                                                | -                                                                                       | _                           |
| External finish         | External finish            |                     | Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                                                                                         |                          | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                                                                                         |                             |
| External dimension      | on H x W x D               | mm                  | 1,650 x 1,220 x 740                                                                                                        | 1,650 x 1,220 x 740                                                                     | 1,650 x 1,220 x 740      | 1,650 x 1,220 x 740                                                                                                              | 1,650 x 1,220 x 740                                                                     | 1,650 x 1,220 x 740         |
|                         |                            | in.                 | 65 x 48-1/16 x 29-3/16                                                                                                     | 65 x 48-1/16 x 29-3/16                                                                  | 65 x 48-1/16 x 29-3/16   | 65 x 48-1/16 x 29-3/16                                                                                                           | 65 x 48-1/16 x 29-3/16                                                                  | 65 x 48-1/16 x 29-3/16      |
| Protection              | High pressure pr           | otection            | High pressure sensor,                                                                                                      |                                                                                         |                          |                                                                                                                                  | High pressure sensor,                                                                   |                             |
| devices                 |                            |                     | High pressure switch at 4.15 MPa (601 psi)                                                                                 |                                                                                         |                          | High press                                                                                                                       | sure switch at 4.15 MP                                                                  | a (601 psi)                 |
|                         | Inverter circuit           |                     | Over-heat protection,                                                                                                      |                                                                                         |                          |                                                                                                                                  | Over-heat protection,                                                                   |                             |
| -                       | (COMP./FAN)                |                     | Over-current protection                                                                                                    |                                                                                         | Over-current protection  |                                                                                                                                  |                                                                                         |                             |
| Refrigerant             | Type x original ch         | narge               |                                                                                                                            |                                                                                         | R410A x 11.5 kg (26 lbs) |                                                                                                                                  |                                                                                         |                             |
| Net weight              |                            | kg (lbs)            | 236 (521)                                                                                                                  | 236 (521)                                                                               | 236 (521)                | 236 (521)                                                                                                                        | 236 (521)                                                                               | 236 (521)                   |
| Heat exchanger          |                            |                     |                                                                                                                            | sistant cross fin & copp                                                                |                          |                                                                                                                                  | sistant cross fin & copp                                                                |                             |
| Pipe between uni        |                            | mm (in.)            | 12.7 (1/2) Brazed                                                                                                          | 15.88 (5/8) Brazed                                                                      | 15.88 (5/8) Brazed       | 15.88 (5/8) Brazed                                                                                                               | 15.88 (5/8) Brazed                                                                      | 15.88 (5/8) Brazed          |
| and distributor         | Gas pipe                   | mm (in.)            |                                                                                                                            |                                                                                         |                          |                                                                                                                                  | 28.58 (1-1/8) Brazed                                                                    |                             |
| Optional parts          |                            |                     | Joi                                                                                                                        | Twinning kit: CMY-Y3<br>int: CMY-Y102SS/LS-C<br>CMY-Y202/302S-C<br>der: CMY-Y104/108/10 | 92,<br>92                | Jo                                                                                                                               | Twinning kit: CMY-Y3<br>int: CMY-Y102SS/LS-C<br>CMY-Y202/302S-G<br>der: CMY-Y104/108/10 | 92,<br>92                   |
| Energy Labelling scheme |                            | - 1007 / 29 6 7 gmm | 12702: 2477 Beam                                                                                                           | 692708: 2417 Beam                                                                       | 1270E: 2471B             | 692708: 24178                                                                                                                    | 12702: 24718-                                                                           |                             |

<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

| /       | Indoor                                       | Outdoor               | Pipe length         | Level difference |
|---------|----------------------------------------------|-----------------------|---------------------|------------------|
| Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmH2O, 6.1mmH2O).
\*Due to continuing improvement, above specifications may be subject to change without notice.

## YKD-series - Cooling-only

## PUCY-P YSKD (-BS)



## **Specifications**

| Model                                               |                |            | PUCY-P1250YSKD (-BS)                  | PUCY-P1300YSKD (-BS)                  |  |  |
|-----------------------------------------------------|----------------|------------|---------------------------------------|---------------------------------------|--|--|
| Power source                                        |                |            | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |  |  |
| Cooling capacity                                    | *1             | kW         | 136.0                                 | 140.0                                 |  |  |
| (Nominal)                                           |                | BTU/h      | 464,000                               | 477,700                               |  |  |
|                                                     | Power input    | kW         | 39.42                                 | 41.54                                 |  |  |
|                                                     | Current input  | Α          | 66.5-63.2-60.9                        | 70.1-66.6-64.2                        |  |  |
|                                                     | EER            | kW/kW      | 3.45                                  | 3.37                                  |  |  |
| Temp. range of                                      | Indoor         | W.B.       | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |  |  |
| cooling                                             | Outdoor        | D.B.       | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |  |  |
| Indoor unit                                         | Total capacity |            | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |  |  |
| connectable                                         | Model/Quantity |            | P15~P600/2~50                         | P15~P600/2~50                         |  |  |
| Sound pressure level (measured in anechoic room) dB |                | dB <a></a> | 68                                    | 68                                    |  |  |
| Refrigerant piping                                  | Liquid pipe    | mm (in.)   | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    |  |  |
|                                                     |                | mm (in.)   | 41.28 (1-5/8) Brazed                  | 41.28 (1-5/8) Brazed                  |  |  |

#### Set Model

| Set Model               |                                 |                                                                                                                   |                                                                                                                                  |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                  |                                              |                          |  |
|-------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|--|
| Model                   |                                 |                                                                                                                   | PUCY-P400YKD (-BS)                                                                                                               | PUCY-P400YKD (-BS)          | PUCY-P450YKD (-BS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PUCY-P400YKD (-BS)                                                                                                               | PUCY-P450YKD (-BS)                           | PUCY-P450YKD (-BS)       |  |
| Fan                     | Type x Quantity                 |                                                                                                                   | Propeller fan x 1                                                                                                                | Propeller fan x 1           | Propeller fan x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Propeller fan x 1                                                                                                                | Propeller fan x 1                            | Propeller fan x 1        |  |
|                         | Air flow rate                   | m³/min                                                                                                            | 210                                                                                                                              | 210                         | 210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 210                                                                                                                              | 210                                          | 210                      |  |
|                         |                                 | L/s                                                                                                               | 3,500                                                                                                                            | 3,500                       | 3,500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3,500                                                                                                                            | 3,500                                        | 3,500                    |  |
|                         |                                 | cfm                                                                                                               | 7,415                                                                                                                            | 7,415                       | 7,415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7,415                                                                                                                            | 7,415                                        | 7,415                    |  |
|                         | Control, Driving mechanism      |                                                                                                                   | Inverter-control, Direct-driven by motor                                                                                         |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Inverter                                                                                                                         | Inverter-control, Direct-driven by motor     |                          |  |
|                         | Motor output                    | kW                                                                                                                | 0.92 x 1                                                                                                                         | 0.92 x 1                    | 0.92 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.92 x 1                                                                                                                         | 0.92 x 1                                     | 0.92 x 1                 |  |
| *2                      | External static pro             | ess.                                                                                                              | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH <sub>2</sub> O)                  | 0 Pa (0 mmH₂O)           |  |
| Compressor              | Туре                            |                                                                                                                   | Inverte                                                                                                                          | er scroll hermetic comp     | ressor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Inverte                                                                                                                          | er scroll hermetic comp                      | ressor                   |  |
|                         | Starting method                 |                                                                                                                   | Inverter                                                                                                                         | Inverter                    | Inverter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Inverter                                                                                                                         | Inverter                                     | Inverter                 |  |
|                         | Motor output                    | kW                                                                                                                | 10.8                                                                                                                             | 10.8                        | 12.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.8                                                                                                                             | 12.4                                         | 12.4                     |  |
|                         | Case heater                     | kW                                                                                                                | _                                                                                                                                | _                           | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                                                                                                                | _                                            | _                        |  |
| External finish         |                                 |                                                                                                                   | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                                              |                          |  |
| External dimension      | n H x W x D                     | mm                                                                                                                | 1,650 x 1,220 x 740                                                                                                              | 1,650 x 1,220 x 740         | 1,650 x 1,220 x 740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,650 x 1,220 x 740                                                                                                              | 1,650 x 1,220 x 740                          | 1,650 x 1,220 x 740      |  |
|                         |                                 | in.                                                                                                               | 65 x 48-1/16 x 29-3/16                                                                                                           | 65 x 48-1/16 x 29-3/16      | 65 x 48-1/16 x 29-3/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 65 x 48-1/16 x 29-3/16                                                                                                           | 65 x 48-1/16 x 29-3/16                       | 65 x 48-1/16 x 29-3/16   |  |
| Protection devices      | High pressure pro               | otection                                                                                                          | High pressure sensor,<br>High pressure switch at 4.15 MPa (601 psi)                                                              |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | High press                                                                                                                       | High pressure sensor, sure switch at 4.15 MP |                          |  |
|                         | Inverter circuit<br>(COMP./FAN) |                                                                                                                   | Over-heat protection, Over-current protection                                                                                    |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Over-heat protection, Over-current protection                                                                                    |                                              |                          |  |
| Refrigerant             | Type x original ch              | narge                                                                                                             | R410A x 11.5 kg (26 lbs)                                                                                                         | R410A x 11.5 kg (26 lbs)    | R410A x 11.5 kg (26 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | R410A x 11.5 kg (26 lbs)                                                                                                         | R410A x 11.5 kg (26 lbs)                     | R410A x 11.5 kg (26 lbs) |  |
| Net weight              |                                 | kg (lbs)                                                                                                          | 236 (521)                                                                                                                        | 236 (521)                   | 236 (521)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 236 (521)                                                                                                                        | 236 (521)                                    | 236 (521)                |  |
| Heat exchanger          |                                 |                                                                                                                   | Salt-re:                                                                                                                         | sistant cross fin & copp    | er tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Salt-res                                                                                                                         | sistant cross fin & copp                     | per tube                 |  |
| Pipe between unit       | Liquid pipe                     | mm (in.)                                                                                                          | 15.88 (5/8) Brazed                                                                                                               | 15.88 (5/8) Brazed          | 15.88 (5/8) Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15.88 (5/8) Brazed                                                                                                               | 15.88 (5/8) Brazed                           | 15.88 (5/8) Brazed       |  |
| and distributor         | Gas pipe                        | mm (in.)                                                                                                          |                                                                                                                                  | 28.58 (1-1/8) Brazed        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                  | 28.58 (1-1/8) Brazed                         |                          |  |
| Optional parts          |                                 | Outdoor Twinning kit: CMY-Y300VBK3<br>Joint: CMY-Y102SS/LS-G2,<br>CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |                                                                                                                                  | Jo                          | Twinning kit: CMY-Y3<br>int: CMY-Y102SS/LS-C<br>CMY-Y202/302S-G<br>der: CMY-Y104/108/10                                                                                                                                                                                                                                                                                                                                                                                                                                    | G2,<br>G2                                                                                                                        |                                              |                          |  |
| Energy Labelling scheme |                                 | (\$2705-2477 Been                                                                                                 | 12702:24719-                                                                                                                     | 14209 28 240                | (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b | 14205 28248mm                                                                                                                    | 14200 - 28 1760 mm                           |                          |  |

<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

|         |                                              | /                     |                     |                  |
|---------|----------------------------------------------|-----------------------|---------------------|------------------|
|         | Indoor                                       | Outdoor               | Pipe length         | Level difference |
| Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
\*Due to continuing improvement, above specifications may be subject to change without notice.

## YKD-series - Cooling-only

## PUCY-P YSKD (-BS)



## **Specifications**

| Model                                            |                |            | PUCY-P1350YSKD (-BS)                  | PUCY-P1400YSKD (-BS)                  |
|--------------------------------------------------|----------------|------------|---------------------------------------|---------------------------------------|
| Power source                                     |                |            | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity                                 | *1             | kW         | 144.0                                 | 152.0                                 |
| (Nominal)                                        |                | BTU/h      | 491,300                               | 518,600                               |
|                                                  | Power input    | kW         | 43.63                                 | 46.06                                 |
|                                                  | Current input  |            | 73.6-69.9-67.4                        | 77.7-73.8-71.1                        |
|                                                  | EER            | kW/kW      | 3.30                                  | 3.30                                  |
| Temp. range of                                   | Indoor         | W.B.       | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |
| cooling                                          | Outdoor        | D.B.       | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |
| ndoor unit                                       | Total capacity |            | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |
| connectable                                      | Model/Quantity |            | P15~P600/2~50                         | P15~P600/2~50                         |
| Sound pressure level (measured in anechoic room) |                | dB <a></a> | 68                                    | 68.5                                  |
| Refrigerant piping                               | Liquid pipe    | mm (in.)   | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    |
|                                                  |                | mm (in.)   | 41.28 (1-5/8) Brazed                  | 41.28 (1-5/8) Brazed                  |

#### Set Model

| Model           |                               |          | PLICY-P450YKD (-BS)                                      | PLICY-P450YKD./-BS)         | PLICY-P450YKD./-BS)         | PUCY-P450YKD (-BS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PLICY-P450YKD (-BS)                      | PLICY-P500YKD (-BS)         |  |
|-----------------|-------------------------------|----------|----------------------------------------------------------|-----------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------|--|
|                 | <b>1</b> = 0 111              |          | ` ′                                                      | ` ′                         | ` ′                         | ` '                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ` ′                                      | ` '                         |  |
| Fan             | Type x Quantity               | 2, .     | Propeller fan x 1                                        | Propeller fan x 1           | Propeller fan x 1           | Propeller fan x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Propeller fan x 1                        | Propeller fan x 2           |  |
|                 | Air flow rate                 | m³/min   | 210                                                      | 210                         | 210                         | 210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 210                                      | 320                         |  |
|                 |                               | L/s      | 3,500                                                    | 3,500                       | 3,500                       | 3,500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3,500                                    | 5,333                       |  |
|                 |                               | cfm      | 7,415                                                    | 7,415                       | 7,415                       | 7,415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7,415                                    | 11,299                      |  |
|                 | Control, Driving<br>mechanism |          | Inverter-control, Direct-driven by motor                 |                             |                             | Inverter-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Inverter-control, Direct-driven by motor |                             |  |
|                 | Motor output                  | kW       | 0.92 x 1                                                 | 0.92 x 1                    | 0.92 x 1                    | 0.92 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.92 x 1                                 | 0.92 x 2                    |  |
|                 | *2 External static pro        | ess.     | 0 Pa (0 mmH₂O)                                           | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 Pa (0 mmH <sub>2</sub> O)              | 0 Pa (0 mmH <sub>2</sub> O) |  |
| Compressor      | Туре                          |          | Inverte                                                  | er scroll hermetic comp     | pressor                     | Inverte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | er scroll hermetic comp                  | ressor                      |  |
|                 | Starting method               |          | Inverter                                                 | Inverter                    | Inverter                    | Inverter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Inverter                                 | Inverter                    |  |
|                 | Motor output                  | kW       | 12.4                                                     | 12.4                        | 12.4                        | 12.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12.4                                     | 13.3                        |  |
|                 | Case heater                   | kW       | _                                                        | _                           | _                           | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | _                                        | _                           |  |
| External finish | ,                             |          | Pre-co                                                   | pated galvanized steel      | sheets                      | Pre-co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ated galvanized steel                    | sheets                      |  |
|                 |                               |          | (+powder coating for -BS type)                           |                             |                             | (+powder coating for -BS type)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                             |  |
|                 |                               |          | <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                             |                             | SELL 3Y 7.8/1.1 or sin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |                             |  |
| External dimens | sion H x W x D                | mm       | 1,650 x 1,220 x 740                                      | 1,650 x 1,220 x 740         | , ,                         | 1,650 x 1,220 x 740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          | 1,650 x 1,750 x 740         |  |
|                 |                               | in.      | 65 x 48-1/16 x 29-3/16                                   | 65 x 48-1/16 x 29-3/16      | 65 x 48-1/16 x 29-3/16      | 65 x 48-1/16 x 29-3/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 65 x 48-1/16 x 29-3/16                   | 65 x 68-15/16 x 29-3/16     |  |
| Protection      | High pressure pro             | otection | High pressure sensor,                                    |                             |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | High pressure sensor,                    |                             |  |
| devices         |                               |          | High pressure switch at 4.15 MPa (601 psi)               |                             |                             | High press                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | sure switch at 4.15 MP                   | a (601 psi)                 |  |
|                 | Inverter circuit              |          | Over-heat protection,                                    |                             |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Over-heat protection,                    |                             |  |
|                 | (COMP./FAN)                   |          |                                                          | Over-current protection     |                             | Over-current protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |                             |  |
| Refrigerant     | Type x original ch            |          |                                                          |                             |                             | R410A x 11.5 kg (26 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |                             |  |
| Net weight      |                               | kg (lbs) | 236 (521)                                                | 236 (521)                   | 236 (521)                   | 236 (521)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 236 (521)                                | 304 (671)                   |  |
| Heat exchange   |                               |          |                                                          | sistant cross fin & copp    |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | sistant cross fin & copp                 |                             |  |
| Pipe between u  | nit Liquid pipe               | mm (in.) | 15.88 (5/8) Brazed                                       | 15.88 (5/8) Brazed          | 15.88 (5/8) Brazed          | 15.88 (5/8) Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15.88 (5/8) Brazed                       | 15.88 (5/8) Brazed          |  |
| and distributor | Gas pipe                      | mm (in.) | 28.58 (1-1/8) Brazed                                     |                             |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 28.58 (1-1/8) Brazed                     |                             |  |
| Optional parts  |                               |          |                                                          | Twinning kit: CMY-Y3        |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Twinning kit: CMY-Y3                     |                             |  |
|                 |                               |          | Jo                                                       | int: CMY-Y102SS/LS-0        |                             | Joi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | int: CMY-Y102SS/LS-0                     |                             |  |
|                 |                               |          | CMY-Y202/302S-G                                          |                             |                             | CMY-Y202/302S-G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                             |  |
|                 |                               |          | Head                                                     | der: CMY-Y104/108/10        | 110-G                       | Head                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | der: CMY-Y104/108/10                     | 10-G                        |  |
| Energy Labellin | g scheme                      |          | 1400 2014II                                              | 1400 2014II                 | Value of the                | NAME OF THE PARTY | 14200 23140-                             | TALEP BELLION               |  |

<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

|         |                                              | /                     |                     |                  |
|---------|----------------------------------------------|-----------------------|---------------------|------------------|
|         | Indoor                                       | Outdoor               | Pipe length         | Level difference |
| Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmH2O, 6.1mmH2O).
\*Due to continuing improvement, above specifications may be subject to change without notice.

## YKD-series - Cooling-only

## PUCY-P YSKD (-BS)



## **Specifications**

| Model                                            |                |            | PUCY-P1450YSKD (-BS)                  | PUCY-P1500YSKD (-BS)                  |
|--------------------------------------------------|----------------|------------|---------------------------------------|---------------------------------------|
| Power source                                     |                |            | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity                                 | *1             | kW         | 160.0                                 | 168.0                                 |
| (Nominal)                                        |                | BTU/h      | 545,900                               | 573,200                               |
|                                                  | Power input    | kW         | 48.63                                 | 51.06                                 |
|                                                  | Current input  | Α          | 82.0-77.9-75.1                        | 86.1-81.8-78.9                        |
|                                                  | EER            | kW/kW      | 3.29                                  | 3.29                                  |
| Temp. range of                                   | Indoor         | W.B.       | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |
| cooling                                          | Outdoor        | D.B.       | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |
| Indoor unit                                      | Total capacity |            | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |
| connectable                                      | Model/Quantity |            | P15~P600/2~50                         | P15~P600/2~50                         |
| Sound pressure level (measured in anechoic room) |                | dB <a></a> | 69.5                                  | 70                                    |
| Refrigerant piping                               | Liquid pipe    | mm (in.)   | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    |
| diameter                                         | Gas pipe       | mm (in.)   | 41.28 (1-5/8) Brazed                  | 41.28 (1-5/8) Brazed                  |

#### Set Model

| Set Model                  |                                 |                                          |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                                                                                                                  |                             |                             |
|----------------------------|---------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|
| Model                      |                                 |                                          | PUCY-P450YKD (-BS)                                                                                                               | PUCY-P500YKD (-BS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PUCY-P500YKD (-BS)                       | PUCY-P500YKD (-BS)                                                                                                               | PUCY-P500YKD (-BS)          | PUCY-P500YKD (-BS)          |
| Fan                        | Type x Quantity                 |                                          | Propeller fan x 1                                                                                                                | Propeller fan x 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Propeller fan x 2                        | Propeller fan x 2                                                                                                                | Propeller fan x 2           | Propeller fan x 2           |
|                            | Air flow rate                   | m³/min                                   | 210                                                                                                                              | 320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 320                                      | 320                                                                                                                              | 320                         | 320                         |
|                            |                                 | L/s                                      | 3,500                                                                                                                            | 5,333                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5,333                                    | 5,333                                                                                                                            | 5,333                       | 5,333                       |
|                            |                                 | cfm                                      | 7,415                                                                                                                            | 11,299                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11,299                                   | 11,299                                                                                                                           | 11,299                      | 11,299                      |
| Control, Driving mechanism |                                 | Inverter-control, Direct-driven by motor |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Inverter-control, Direct-driven by motor |                                                                                                                                  |                             |                             |
|                            | Motor output                    | kW                                       | 0.92 x 1                                                                                                                         | 0.92 x 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.92 x 2                                 | 0.92 x 2                                                                                                                         | 0.92 x 2                    | 0.92 x 2                    |
| *2                         | External static press.          |                                          | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 Pa (0 mmH <sub>2</sub> O)              | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor                 | Туре                            |                                          | Inverter scroll hermetic compressor                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Inverter scroll hermetic compressor      |                                                                                                                                  |                             |                             |
|                            | Starting method                 |                                          | Inverter                                                                                                                         | Inverter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Inverter                                 | Inverter                                                                                                                         | Inverter                    | Inverter                    |
|                            | Motor output                    | kW                                       | 12.4                                                                                                                             | 13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 13.3                                     | 13.3                                                                                                                             | 13.3                        | 13.3                        |
|                            | Case heater                     | kW                                       | _                                                                                                                                | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | _                                        | _                                                                                                                                | _                           | _                           |
| External finish            |                                 |                                          | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                             |                             |
| External dimensio          | n H x W x D                     | mm                                       | 1,650 x 1,220 x 740                                                                                                              | 1,650 x 1,750 x 740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1,650 x 1,750 x 740                      | 1,650 x 1,750 x 740                                                                                                              | 1,650 x 1,750 x 740         | 1,650 x 1,750 x 740         |
| in.                        |                                 | in.                                      | 65 x 48-1/16 x 29-3/16                                                                                                           | 65 x 68-15/16 x 29-3/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 65 x 68-15/16 x 29-3/16                  | 65 x 68-15/16 x 29-3/16                                                                                                          | 65 x 68-15/16 x 29-3/16     | 65 x 68-15/16 x 29-3/16     |
| Protection                 | High pressure protection        |                                          | High pressure sensor,                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          | High pressure sensor,                                                                                                            |                             |                             |
| devices                    |                                 |                                          | High pressure switch at 4.15 MPa (601 psi)                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          | High pressure switch at 4.15 MPa (601 psi)                                                                                       |                             |                             |
|                            | Inverter circuit<br>(COMP./FAN) |                                          | Over-heat protection, Over-current protection                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          | Over-heat protection, Over-current protection                                                                                    |                             |                             |
| Refrigerant                | Type x original c               | harge                                    | R410A x 11.5 kg (26 lbs)                                                                                                         | R410A x 11.8 kg (27 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | R410A x 11.8 kg (27 lbs)                 | R410A x 11.8 kg (27 lbs)                                                                                                         | R410A x 11.8 kg (27 lbs)    | R410A x 11.8 kg (27 lbs)    |
| Net weight                 |                                 | kg (lbs)                                 | 236 (521)                                                                                                                        | 304 (671)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 304 (671)                                | 304 (671)                                                                                                                        | 304 (671)                   | 304 (671)                   |
| Heat exchanger             |                                 |                                          | Salt-resistant cross fin & copper tube                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          | Salt-resistant cross fin & copper tube                                                                                           |                             |                             |
| Pipe between unit          | Liquid pipe                     | mm (in.)                                 | 15.88 (5/8) Brazed                                                                                                               | 15.88 (5/8) Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15.88 (5/8) Brazed                       | 15.88 (5/8) Brazed                                                                                                               | 15.88 (5/8) Brazed          | 15.88 (5/8) Brazed          |
| and distributor            | Gas pipe                        | mm (in.)                                 | 28.58 (1-1/8) Brazed                                                                                                             | 28.58 (1-1/8) Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 28.58 (1-1/8) Brazed                     | 28.58 (1-1/8) Brazed                                                                                                             | 28.58 (1-1/8) Brazed        | 28.58 (1-1/8) Brazed        |
| Optional parts             |                                 |                                          | Outdoor Twinning kit: CMY-Y300VBK3<br>Joint: CMY-Y102SS/LS-G2,<br>CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          | Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G                         |                             |                             |
| Energy Labelling scheme    |                                 |                                          | 14205-281406m                                                                                                                    | TAGE TO THE PARTY OF THE PARTY | 1447 - 2013 (m)                          | TAGET SETTING                                                                                                                    | 1447 2013mm                 | 14477-29113mm               |

<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

| ·····   |                                              |                       |                     |                  |  |  |  |  |  |  |
|---------|----------------------------------------------|-----------------------|---------------------|------------------|--|--|--|--|--|--|
|         | Indoor                                       | Outdoor               | Pipe length         | Level difference |  |  |  |  |  |  |
| Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |  |  |  |  |  |  |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
\*Due to continuing improvement, above specifications may be subject to change without notice.

# YKD-series - Cooling-only High Efficiency

# PUCY-EP YSKD (-BS)



### **Specifications**

| Model              |                | PUCY-EP400YSKD (-BS) | PUCY-EP450YSKD (-BS)                  | PUCY-EP500YSKD (-BS)                  |                                       |
|--------------------|----------------|----------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Power source       |                |                      | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity   | *1             | kW                   | 44.8                                  | 50.4                                  | 56.0                                  |
| (Nominal)          |                | BTU/h                | 152,900                               | 172,000                               | 191,100                               |
|                    | Power input    | kW                   | 9.93                                  | 11.37                                 | 12.84                                 |
|                    | Current input  | Α                    | 16.7-15.9-15.3                        | 19.1-18.2-17.5                        | 21.6-20.5-19.8                        |
|                    | EER            | kW/kW                | 4.51                                  | 4.43                                  | 4.36                                  |
| Temp. range of     | Indoor         | W.B.                 | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |
| cooling            | Outdoor        | D.B.                 | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |
| Indoor unit        | Total capacity |                      | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |
| connectable        | Model/Quantity |                      | P15~P400/1~34                         | P15~P400/1~39                         | P15~P500/1~43                         |
| Sound pressure le  |                | dB <a></a>           | 60                                    | 60.5                                  | 61                                    |
| Refrigerant piping | Liquid pipe    | mm (in.)             | 12.7 (1/2) Brazed                     | 15.88 (5/8) Brazed                    | 15.88 (5/8) Brazed                    |
| diameter           | Gas pipe       | mm (in.)             | 28.58 (1-1/8) Brazed                  | 28.58 (1-1/8) Brazed                  | 28.58 (1-1/8) Brazed                  |

#### Set Model

| Set Model               |                            |                   |                                                                                                                                  |                             |                                                                |                                                               |                                                                |                                                               |
|-------------------------|----------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| Model                   |                            |                   | PUCY-P200YKD (-BS)                                                                                                               | PUCY-P200YKD (-BS)          | PUCY-P200YKD (-BS)                                             | PUCY-P250YKD (-BS)                                            | PUCY-P250YKD (-BS)                                             | PUCY-P250YKD (-BS)                                            |
| Fan                     | Type x Quantity            |                   | Propeller fan x 1                                                                                                                | Propeller fan x 1           | Propeller fan x 1                                              | Propeller fan x 1                                             | Propeller fan x 1                                              | Propeller fan x 1                                             |
|                         | Air flow rate              | m³/min            | 175                                                                                                                              | 175                         | 175                                                            | 175                                                           | 175                                                            | 175                                                           |
|                         |                            | L/s               | 2,917                                                                                                                            | 2,917                       | 2,917                                                          | 2,917                                                         | 2,917                                                          | 2,917                                                         |
|                         |                            | cfm               | 6,179                                                                                                                            | 6,179                       | 6,179                                                          | 6,179                                                         | 6,179                                                          | 6,179                                                         |
|                         | Control, Driving mechanism |                   | Inverter-control, Dir                                                                                                            | ect-driven by motor         | Inverter-control, Dir                                          | rect-driven by motor                                          | Inverter-control, Dir                                          | ect-driven by motor                                           |
|                         | Motor output               | kW                | 0.92 x 1                                                                                                                         | 0.92 x 1                    | 0.92 x 1                                                       | 0.92 x 1                                                      | 0.92 x 1                                                       | 0.92 x 1                                                      |
| *                       | 2 External static pr       | ess.              | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                    | 0 Pa (0 mmH <sub>2</sub> O)                                   | 0 Pa (0 mmH <sub>2</sub> O)                                    | 0 Pa (0 mmH <sub>2</sub> O)                                   |
| Compressor              | Туре                       |                   | Inverter scroll her                                                                                                              | metic compressor            | Inverter scroll her                                            | metic compressor                                              | Inverter scroll her                                            | metic compressor                                              |
|                         | Starting method            |                   | Inverter                                                                                                                         | Inverter                    | Inverter                                                       | Inverter                                                      | Inverter                                                       | Inverter                                                      |
|                         | Motor output               | kW                | 5.5                                                                                                                              | 5.5                         | 5.5                                                            | 6.9                                                           | 6.9                                                            | 6.9                                                           |
|                         | Case heater                | kW                | _                                                                                                                                | _                           | _                                                              | _                                                             | _                                                              | -                                                             |
| External finish         | 1                          |                   | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                             | (+powder coati                                                 | nized steel sheets<br>ng for -BS type)<br>7.8/1.1 or similar> | (+powder coati                                                 | nized steel sheets<br>ng for -BS type)<br>7.8/1.1 or similar> |
| External dimension      | on H x W x D               | mm                | 1,650 x 920 x 740                                                                                                                | 1,650 x 920 x 740           | 1,650 x 920 x 740                                              | 1,650 x 920 x 740                                             | 1,650 x 920 x 740                                              | 1,650 x 920 x 740                                             |
|                         |                            | in.               | 65 x 36-1/4 x 29-3/16                                                                                                            | 65 x 36-1/4 x 29-3/16       | 65 x 36-1/4 x 29-3/16                                          | 65 x 36-1/4 x 29-3/16                                         | 65 x 36-1/4 x 29-3/16                                          | 65 x 36-1/4 x 29-3/16                                         |
| Protection              | High pressure pr           | otection          | High press                                                                                                                       | ure sensor,                 | High press                                                     | ure sensor,                                                   | High press                                                     | ure sensor,                                                   |
| devices                 |                            |                   | High pressure switch                                                                                                             | at 4.15 MPa (601 psi)       | High pressure switch                                           | at 4.15 MPa (601 psi)                                         | High pressure switch                                           | at 4.15 MPa (601 psi)                                         |
|                         | Inverter circuit           |                   | Over-heat protection,                                                                                                            |                             |                                                                | protection,                                                   |                                                                | protection,                                                   |
|                         | (COMP./FAN)                |                   |                                                                                                                                  | nt protection               | Over-current protection                                        |                                                               | Over-current protection                                        |                                                               |
| Refrigerant             | Type x original c          | harge             |                                                                                                                                  | R410A x 5.5 kg (13 lbs)     | R410A x 5.5 kg (13 lbs)                                        | R410A x 6.5 kg (15 lbs)                                       | R410A x 6.5 kg (15 lbs)                                        | R410A x 6.5 kg (15 lbs)                                       |
| Net weight              |                            | kg (lbs)          | 174 (384)                                                                                                                        | 174 (384)                   | 174 (384)                                                      | 183 (404)                                                     | 183 (404)                                                      | 183 (404)                                                     |
| Heat exchanger          |                            |                   | Salt-resistant cross                                                                                                             | s fin & copper tube         | Salt-resistant cros                                            | s fin & copper tube                                           | Salt-resistant cros                                            | s fin & copper tube                                           |
| Pipe between uni        | it Liquid pipe             | mm (in.)          | 9.52 (3/8) Brazed                                                                                                                | 9.52 (3/8) Brazed           | 9.52 (3/8) Brazed                                              | 9.52 (3/8) Brazed                                             | 9.52 (3/8) Brazed                                              | 9.52 (3/8) Brazed                                             |
| and distributor         | Gas pipe                   | mm (in.)          | 22.2 (7/8) Brazed                                                                                                                | 22.2 (7/8) Brazed           | 22.2 (7/8) Brazed                                              | 22.2 (7/8) Brazed                                             | 22.2 (7/8) Brazed                                              | 22.2 (7/8) Brazed                                             |
| Optional parts          |                            | Joint: CMY-Y      | 202S-G2                                                                                                                          | Joint: CMY-Y                | kit: CMY-Y100VBK3<br>102SS/LS-G2,<br>202S-G2<br>104/108/1010-G | Joint: CMY-Y:<br>CMY-Y:                                       | kit: CMY-Y100VBK3<br>102SS/LS-G2,<br>202S-G2<br>104/108/1010-G |                                                               |
| Energy Labelling scheme |                            | 11000 11000 11000 | CONTROL TORSES                                                                                                                   | CONTROL TORSES              | 12005 (3900-m)                                                 | 12005 (3000-                                                  | 12005 (3100)                                                   |                                                               |

<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

|         |                                              | - /                   |                     |                  |
|---------|----------------------------------------------|-----------------------|---------------------|------------------|
| /       | Indoor                                       | Outdoor               | Pipe length         | Level difference |
| Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
\*Due to continuing improvement, above specifications may be subject to change without notice.

#### OUTDOOR UNIT

# YKD-series - Cooling-only High Efficiency

# PUCY-EP YSKD (-BS)



### **Specifications**

| Model                                 |                |            | PUCY-EP650YSKD (-BS)                  | PUCY-EP700YSKD (-BS)                  |
|---------------------------------------|----------------|------------|---------------------------------------|---------------------------------------|
| Power source                          |                |            | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity                      | *1             | kW         | 73.5                                  | 80.0                                  |
| (Nominal)                             |                | BTU/h      | 250,800                               | 273,000                               |
|                                       | Power input    | kW         | 18.32                                 | 19.75                                 |
|                                       | Current input  | Α          | 30.9-29.3-28.3                        | 33.3-31.6-30.5                        |
|                                       | EER            | kW/kW      | 4.01                                  | 4.05                                  |
| Temp. range of                        | Indoor         | W.B.       | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |
| cooling                               | Outdoor        | D.B.       | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |
| Indoor unit                           | Total capacity |            | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |
| connectable                           | Model/Quantity |            | P15~P600/1~50                         | P15~P600/1~50                         |
| Sound pressure le<br>(measured in ane |                | dB <a></a> | 64                                    | 64                                    |
| Refrigerant piping                    | Liquid pipe    | mm (in.)   | 15.88 (5/8) Brazed                    | 19.05 (3/4) Brazed                    |
| diameter                              | Gas pipe       | mm (in.)   | 28.58 (1-1/8) Brazed                  | 34.93 (1-3/8) Brazed                  |

| Set Model               |                            |              |                                                                                                                            |                             |                                                                                                                                  |                           |  |
|-------------------------|----------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------|--|
| Model                   |                            |              | PUCY-P300YKD (-BS)                                                                                                         | PUCY-P350YKD (-BS)          | PUCY-P350YKD (-BS)                                                                                                               | PUCY-P350YKD (-BS)        |  |
| Fan                     | Type x Quantity            |              | Propeller fan x 1                                                                                                          | Propeller fan x 1           | Propeller fan x 1                                                                                                                | Propeller fan x 1         |  |
|                         | Air flow rate              | m³/min       | 175                                                                                                                        | 210                         | 210                                                                                                                              | 210                       |  |
|                         |                            | L/s          | 2,917                                                                                                                      | 3,500                       | 3,500                                                                                                                            | 3,500                     |  |
|                         |                            | cfm          | 6,179                                                                                                                      | 7,415                       | 7,415                                                                                                                            | 7,415                     |  |
|                         | Control, Driving mechanism |              | Inverter-control, Dir                                                                                                      | ect-driven by motor         | Inverter-control, Direct-driven by motor                                                                                         |                           |  |
|                         | Motor output               | kW           | 0.92 x 1                                                                                                                   | 0.92 x 1                    | 0.92 x 1                                                                                                                         | 0.92 x 1                  |  |
|                         | *2 External static p       | ress.        | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                | 0 Pa (0 mmH₂O)              | 0 Pa (0 mmH₂O)                                                                                                                   | 0 Pa (0 mmH₂O)            |  |
| Compressor              | Туре                       |              | Inverter scroll her                                                                                                        | metic compressor            | Inverter scroll herr                                                                                                             | netic compressor          |  |
| ·                       | Starting method            |              | Inverter                                                                                                                   | Inverter                    | Inverter                                                                                                                         | Inverter                  |  |
|                         | Motor output               | kW           | 8.1                                                                                                                        | 10.4                        | 10.4                                                                                                                             | 10.4                      |  |
|                         | Case heater                | kW           | _                                                                                                                          | _                           | _                                                                                                                                | _                         |  |
| External finish         |                            |              | Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                             | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                           |  |
| xternal dimens          | on H x W x D mm            |              | 1,650 x 920 x 740                                                                                                          | 1,650 x 1,220 x 740         | 1,650 x 1,220 x 740                                                                                                              | 1,650 x 1,220 x 740       |  |
|                         |                            | in.          | 65 x 36-1/4 x 29-3/16                                                                                                      | 65 x 48-1/16 x 29-3/16      | 65 x 48-1/16 x 29-3/16                                                                                                           | 65 x 48-1/16 x 29-3/16    |  |
| Protection<br>devices   | High pressure protection   |              | High press<br>High pressure switch                                                                                         |                             | High pressure sensor,<br>High pressure switch at 4.15 MPa (601 psi)                                                              |                           |  |
|                         | Inverter circuit           |              | Over-heat                                                                                                                  | protection,                 | Over-heat                                                                                                                        | protection,               |  |
|                         | (COMP./FAN)                |              | Over-current protection                                                                                                    |                             | Over-current protection                                                                                                          |                           |  |
| Refrigerant             | Type x original of         | charge       | R410A x 6.5 kg (15 lbs)                                                                                                    | R410A x 11.5 kg (26 lbs)    | R410A x 11.5 kg (26 lbs)                                                                                                         | R410A x 11.5 kg (26 lbs)  |  |
| let weight              | ,                          | kg (lbs)     | 200 (441)                                                                                                                  | 236 (521)                   | 236 (521)                                                                                                                        | 236 (521)                 |  |
| leat exchanger          |                            |              | Salt-resistant cross                                                                                                       | s fin & copper tube         | Salt-resistant cross                                                                                                             | fin & copper tube         |  |
| Pipe between ui         | nit Liquid pipe            | mm (in.)     | 12.7 (1/2) Brazed                                                                                                          | 12.7 (1/2) Brazed           | 12.7 (1/2) Brazed                                                                                                                | 12.7 (1/2) Brazed         |  |
| ind distributor         | Gas pipe                   | mm (in.)     | 22.2 (7/8) Brazed                                                                                                          | 28.58 (1-1/8) Brazed        | 28.58 (1-1/8) Brazed                                                                                                             | 28.58 (1-1/8) Brazed      |  |
| Optional parts          |                            |              | Outdoor Twinning k<br>Joint: CMY-Y1<br>CMY-Y2<br>Header: CMY-Y                                                             | 102SS/LS-G2,<br>202/302S-G2 | Outdoor Twinning k<br>Joint: CMY-Y1<br>CMY-Y2<br>Header: CMY-Y                                                                   | 02SS/LS-G2,<br>02/302S-G2 |  |
| Energy Labelling scheme |                            | 12001 1756am | 11097 38 17 (mm)                                                                                                           | TATOM SHIP SHIP             | 12007 281179m                                                                                                                    |                           |  |

\*1 Nominal cooling conditions (subject to JIS B8615-2)

|         |                                              | - /                   |                     |                  |
|---------|----------------------------------------------|-----------------------|---------------------|------------------|
|         | Indoor                                       | Outdoor               | Pipe length         | Level difference |
| Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
\*Due to continuing improvement, above specifications may be subject to change without notice

# YKD-series - Cooling-only High Efficiency

# PUCY-EP YSKD (-BS)



### **Specifications**

| Model              |                |            | PUCY-EP750YSKD (-BS)                  | PUCY-EP800YSKD (-BS)                  |
|--------------------|----------------|------------|---------------------------------------|---------------------------------------|
| Power source       |                |            | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity   | *1             | kW         | 84.8                                  | 90.4                                  |
| (Nominal)          |                | BTU/h      | 289,300                               | 308,400                               |
|                    | Power input    | kW         | 19.44                                 | 20.97                                 |
|                    | Current input  | Α          | 32.8-31.1-30.0                        | 35.4-33.6-32.4                        |
|                    | EER            | kW/kW      | 4.36                                  | 4.31                                  |
| Temp. range of     | Indoor         | W.B.       | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |
| cooling            | Outdoor        | D.B.       | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |
| Indoor unit        | Total capacity |            | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |
| connectable        | Model/Quantity |            | P15~P600/1~50                         | P15~P600/1~50                         |
| Sound pressure le  |                | dB <a></a> | 64                                    | 64                                    |
| Refrigerant piping | Liquid pipe    | mm (in.)   | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    |
| diameter           | Gas pipe       | mm (in.)   | 34.93 (1-3/8) Brazed                  | 34.93 (1-3/8) Brazed                  |

#### Set Model

| Set Model               | <u></u>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            |                                                                                         |                                                                                                                                  |                             |                                                                                         |                        |
|-------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------|------------------------|
| Model                   |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PUCY-P200YKD (-BS)                                                                                                         | PUCY-P200YKD (-BS)                                                                      | PUCY-P350YKD (-BS)                                                                                                               | PUCY-P200YKD (-BS)          | PUCY-P250YKD (-BS)                                                                      | PUCY-P350YKD (-BS)     |
| Fan                     | Type x Quantity            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Propeller fan x 1                                                                                                          | Propeller fan x 1                                                                       | Propeller fan x 1                                                                                                                | Propeller fan x 1           | Propeller fan x 1                                                                       | Propeller fan x 1      |
|                         | Air flow rate              | m³/min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 175                                                                                                                        | 175                                                                                     | 210                                                                                                                              | 175                         | 175                                                                                     | 210                    |
|                         |                            | L/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2,917                                                                                                                      | 2,917                                                                                   | 3,500                                                                                                                            | 2,917                       | 2,917                                                                                   | 3,500                  |
|                         |                            | cfm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6,179                                                                                                                      | 6,179                                                                                   | 7,415                                                                                                                            | 6,179                       | 6,179                                                                                   | 7,415                  |
|                         | Control, Driving mechanism |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Inverter-control, Direct-driven by motor                                                                                   |                                                                                         | Inverter                                                                                                                         | -control, Direct-driven b   | by motor                                                                                |                        |
|                         | Motor output               | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.92 x 1                                                                                                                   | 0.92 x 1                                                                                | 0.92 x 1                                                                                                                         | 0.92 x 1                    | 0.92 x 1                                                                                | 0.92 x 1               |
| *2                      | External static pr         | ess.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 Pa (0 mmH₂O)                                                                                                             | 0 Pa (0 mmH <sub>2</sub> O)                                                             | 0 Pa (0 mmH₂O)                                                                                                                   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                                             | 0 Pa (0 mmH₂O)         |
| Compressor              | Туре                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Inverte                                                                                                                    | er scroll hermetic comp                                                                 | ressor                                                                                                                           | Inverte                     | er scroll hermetic comp                                                                 | ressor                 |
|                         | Starting method            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Inverter                                                                                                                   | Inverter                                                                                | Inverter                                                                                                                         | Inverter                    | Inverter                                                                                | Inverter               |
|                         | Motor output               | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5.5                                                                                                                        | 5.5                                                                                     | 10.4                                                                                                                             | 5.5                         | 6.9                                                                                     | 10.4                   |
|                         | Case heater                | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | _                                                                                                                          | _                                                                                       | _                                                                                                                                | _                           | _                                                                                       | _                      |
| External finish         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Pre-coated galvanized steel sheets (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                                                                                         | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                             |                                                                                         |                        |
| External dimension      | n H x W x D                | mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1,650 x 920 x 740                                                                                                          | 1,650 x 920 x 740                                                                       | 1,650 x 1,220 x 740                                                                                                              | 1,650 x 920 x 740           | 1,650 x 920 x 740                                                                       | 1,650 x 1,220 x 740    |
|                         |                            | in.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 65 x 36-1/4 x 29-3/16                                                                                                      | 65 x 36-1/4 x 29-3/16                                                                   | 65 x 48-1/16 x 29-3/16                                                                                                           | 65 x 36-1/4 x 29-3/16       | 65 x 36-1/4 x 29-3/16                                                                   | 65 x 48-1/16 x 29-3/16 |
| Protection              | High pressure pr           | otection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | High pressure sensor,                                                                                                      |                                                                                         |                                                                                                                                  |                             | High pressure sensor,                                                                   |                        |
| devices                 |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | High pressure switch at 4.15 MPa (601 psi)                                                                                 |                                                                                         |                                                                                                                                  | High press                  | sure switch at 4.15 MP                                                                  | a (601 psi)            |
|                         | Inverter circuit           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            | Over-heat protection,                                                                   |                                                                                                                                  |                             | Over-heat protection,                                                                   |                        |
|                         | (COMP./FAN)                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            | Over-current protection                                                                 |                                                                                                                                  | Over-current protection     |                                                                                         |                        |
| Refrigerant             | Type x original cl         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R410A x 5.5 kg (13 lbs)                                                                                                    |                                                                                         |                                                                                                                                  |                             |                                                                                         |                        |
| Net weight              |                            | kg (lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 174 (384)                                                                                                                  | 174 (384)                                                                               | 236 (521)                                                                                                                        | 174 (384)                   | 183 (404)                                                                               | 236 (521)              |
| Heat exchanger          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            | sistant cross fin & copp                                                                |                                                                                                                                  |                             | sistant cross fin & copp                                                                |                        |
| Pipe between unit       |                            | mm (in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9.52 (3/8) Brazed                                                                                                          | 9.52 (3/8) Brazed                                                                       | 12.7 (1/2) Brazed                                                                                                                | 9.52 (3/8) Brazed           | 9.52 (3/8) Brazed                                                                       | 12.7 (1/2) Brazed      |
| and distributor         | Gas pipe                   | mm (in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22.2 (7/8) Brazed                                                                                                          | 22.2 (7/8) Brazed                                                                       | 28.58 (1-1/8) Brazed                                                                                                             | 22.2 (7/8) Brazed           | 22.2 (7/8) Brazed                                                                       | 28.58 (1-1/8) Brazed   |
| Optional parts          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Jo                                                                                                                         | Twinning kit: CMY-Y3<br>int: CMY-Y102SS/LS-C<br>CMY-Y202/302S-C<br>der: CMY-Y104/108/10 | 92,<br>92                                                                                                                        | Jo                          | Twinning kit: CMY-Y3<br>int: CMY-Y102SS/LS-C<br>CMY-Y202/302S-C<br>der: CMY-Y104/108/10 | 92,<br>92              |
| Energy Labelling scheme |                            | CONTROL OF THE CONTRO | CONTROL TORSE                                                                                                              | 12007 28 6 1 3 mm                                                                       | 1000 10000mm                                                                                                                     | 77 July 1990                | 1007 28173····                                                                          |                        |

<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

|         |                                              | /                     |                     |                  |
|---------|----------------------------------------------|-----------------------|---------------------|------------------|
|         | Indoor                                       | Outdoor               | Pipe length         | Level difference |
| Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
\*Due to continuing improvement, above specifications may be subject to change without notice.

#### OUTDOOR UNIT

## YKD-series - Cooling-only High Efficiency

# PUCY-EP YSKD (-BS)



### **Specifications**

| Model                                 |                |            | PUCY-EP850YSKD (-BS)                  | PUCY-EP900YSKD (-BS)                  |
|---------------------------------------|----------------|------------|---------------------------------------|---------------------------------------|
| Power source                          |                |            | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity                      | *1             | kW         | 96.0                                  | 101.5                                 |
| (Nominal)                             |                | BTU/h      | 327,600                               | 346,300                               |
|                                       | Power input    | kW         | 22.53                                 | 24.57                                 |
|                                       | Current input  | Α          | 38.0-36.1-34.8                        | 41.4-39.4-37.9                        |
|                                       | EER            | kW/kW      | 4.26                                  | 4.13                                  |
| Temp. range of                        | Indoor         | W.B.       | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |
| cooling                               | Outdoor        | D.B.       | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |
| Indoor unit                           | Total capacity |            | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |
| connectable                           | Model/Quantity |            | P15~P600/1~50                         | P15~P600/1~50                         |
| Sound pressure le<br>(measured in ane |                | dB <a></a> | 64                                    | 65                                    |
| Refrigerant piping                    | Liquid pipe    | mm (in.)   | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    |
| diameter                              | Gas pipe       | mm (in.)   | 41.28 (1-5/8) Brazed                  | 41.28 (1-5/8) Brazed                  |

| Set Model          |                            |          |                                                                                                                                  |                                                       |                             |                                                                                                                                  |                                              |                             |  |
|--------------------|----------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------|--|
| Model              |                            |          | PUCY-P250YKD (-BS)                                                                                                               | PUCY-P250YKD (-BS)                                    | PUCY-P350YKD (-BS)          | PUCY-P250YKD (-BS)                                                                                                               | PUCY-P300YKD (-BS)                           | PUCY-P350YKD (-BS)          |  |
| Fan                | Type x Quantity            |          | Propeller fan x 1                                                                                                                | Propeller fan x 1                                     | Propeller fan x 1           | Propeller fan x 1                                                                                                                | Propeller fan x 1                            | Propeller fan x 1           |  |
|                    | Air flow rate              | m³/min   | 175                                                                                                                              | 175                                                   | 210                         | 175                                                                                                                              | 175                                          | 210                         |  |
|                    |                            | L/s      | 2,917                                                                                                                            | 2,917                                                 | 3,500                       | 2,917                                                                                                                            | 2,917                                        | 3,500                       |  |
|                    |                            | cfm      | 6,179                                                                                                                            | 6,179                                                 | 7,415                       | 6,179                                                                                                                            | 6,179                                        | 7,415                       |  |
|                    | Control, Driving mechanism |          | Inverter-control, Direct-driven by motor                                                                                         |                                                       | Inverter                    | Inverter-control, Direct-driven by motor                                                                                         |                                              |                             |  |
|                    | Motor output               | kW       | 0.92 x 1                                                                                                                         | 0.92 x 1                                              | 0.92 x 1                    | 0.92 x 1                                                                                                                         | 0.92 x 1                                     | 0.92 x 1                    |  |
|                    | *2 External static pr      | ess.     | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH <sub>2</sub> O)                           | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH₂O)                               | 0 Pa (0 mmH <sub>2</sub> O) |  |
| Compressor         | Туре                       |          | Inverte                                                                                                                          | er scroll hermetic comp                               | ressor                      | Inverte                                                                                                                          | Inverter scroll hermetic compressor          |                             |  |
|                    | Starting method            |          | Inverter                                                                                                                         | Inverter                                              | Inverter                    | Inverter                                                                                                                         | Inverter                                     | Inverter                    |  |
|                    | Motor output               | kW       | 6.9                                                                                                                              | 6.9                                                   | 10.4                        | 6.9                                                                                                                              | 8.1                                          | 10.4                        |  |
|                    | Case heater                | kW       | _                                                                                                                                | _                                                     | _                           | _                                                                                                                                | _                                            | -                           |  |
| External finish    | •                          |          | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                                                       |                             | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                                              |                             |  |
| External dimens    | sion H x W x D             | mm       | 1,650 x 920 x 740                                                                                                                | 1,650 x 920 x 740                                     | 1,650 x 1,220 x 740         | 1,650 x 920 x 740                                                                                                                | 1,650 x 920 x 740                            | 1,650 x 1,220 x 740         |  |
|                    |                            | in.      | 65 x 36-1/4 x 29-3/16                                                                                                            | 65 x 36-1/4 x 29-3/16                                 | 65 x 48-1/16 x 29-3/16      | 65 x 36-1/4 x 29-3/16                                                                                                            | 65 x 36-1/4 x 29-3/16                        | 65 x 48-1/16 x 29-3/16      |  |
| Protection devices | High pressure pr           | otection | High pressure sensor,<br>High pressure switch at 4.15 MPa (601 psi)                                                              |                                                       |                             | High press                                                                                                                       | High pressure sensor, sure switch at 4.15 MP |                             |  |
|                    | Inverter circuit           |          |                                                                                                                                  | Over-heat protection,                                 |                             |                                                                                                                                  | Over-heat protection,                        |                             |  |
|                    | (COMP./FAN)                |          |                                                                                                                                  | Over-current protection                               | า                           |                                                                                                                                  | Over-current protection                      | 1                           |  |
| Refrigerant        | Type x original c          | harge    | R410A x 6.5 kg (15 lbs)                                                                                                          | R410A x 6.5 kg (15 lbs)                               | R410A x 11.5 kg (26 lbs)    | R410A x 6.5 kg (15 lbs)                                                                                                          | R410A x 6.5 kg (15 lbs)                      | R410A x 11.5 kg (26 lbs)    |  |
| Net weight         |                            | kg (lbs) | 183 (404)                                                                                                                        | 183 (404)                                             | 236 (521)                   | 183 (404)                                                                                                                        | 200 (441)                                    | 236 (521)                   |  |
| Heat exchanger     | •                          |          | Salt-res                                                                                                                         | sistant cross fin & copp                              | per tube                    | Salt-re:                                                                                                                         | sistant cross fin & copp                     | er tube                     |  |
| Pipe between u     |                            | mm (in.) | 9.52 (3/8) Brazed                                                                                                                | 9.52 (3/8) Brazed                                     | 12.7 (1/2) Brazed           | 9.52 (3/8) Brazed                                                                                                                | 12.7 (1/2) Brazed                            | 12.7 (1/2) Brazed           |  |
| and distributor    | Gas pipe                   | mm (in.) | 22.2 (7/8) Brazed                                                                                                                | 22.2 (7/8) Brazed                                     | 28.58 (1-1/8) Brazed        | 22.2 (7/8) Brazed                                                                                                                | 22.2 (7/8) Brazed                            | 28.58 (1-1/8) Brazed        |  |
| Optional parts     |                            | Jo       | Twinning kit: CMY-Y3<br>int: CMY-Y102SS/LS-C<br>CMY-Y202/302S-C<br>der: CMY-Y104/108/10                                          | 92,<br>92                                             | Jo                          | r Twinning kit: CMY-Y3<br>int: CMY-Y102SS/LS-C<br>CMY-Y202/302S-C<br>der: CMY-Y104/108/10                                        | 92,<br>92                                    |                             |  |
| Energy Labellin    | g scheme                   |          | 1000 (1000m)                                                                                                                     | 1300 (3400)—<br>A A A A A A A A A A A A A A A A A A A | 12007 28179-in              | 1200s 1200s                                                                                                                      | 12000 17264am                                | 1200F 28 179-m              |  |

<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

|         |                                              | /                     |                     |                  |
|---------|----------------------------------------------|-----------------------|---------------------|------------------|
|         | Indoor                                       | Outdoor               | Pipe length         | Level difference |
| Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
\*Due to continuing improvement, above specifications may be subject to change without notice.

# YKD-series - Cooling-only High Efficiency

PUCY-EP YSKD (-BS)





### **Specifications**

| Model                                            |                |            | PUCY-EP950YSKD (-BS)                  | PUCY-EP1000YSKD (-BS)                 |  |
|--------------------------------------------------|----------------|------------|---------------------------------------|---------------------------------------|--|
| Power source                                     |                |            | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |  |
| Cooling capacity                                 | *1             | kW         | 107.0                                 | 113.5                                 |  |
| (Nominal)                                        |                | BTU/h      | 365,100                               | 387,300                               |  |
|                                                  | Power input    | kW         | 26.81                                 | 28.80                                 |  |
|                                                  | Current input  | Α          | 45.2-42.9-41.4                        | 48.6-46.1-44.5                        |  |
|                                                  | EER            | kW/kW      | 3.99                                  | 3.94                                  |  |
| Temp. range of                                   | Indoor         | W.B.       | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |  |
| cooling                                          | Outdoor        | D.B.       | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |  |
| Indoor unit                                      | Total capacity |            | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |  |
| connectable                                      | Model/Quantity |            | P15~P600/1~50                         | P15~P600/1~50                         |  |
| Sound pressure level (measured in anechoic room) |                | dB <a></a> | 66                                    | 66                                    |  |
| Refrigerant piping                               | Liquid pipe    | mm (in.)   | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    |  |
| diameter                                         | Gas pipe       | mm (in.)   | 41.28 (1-5/8) Brazed                  | 41.28 (1-5/8) Brazed                  |  |

#### Set Model

| Set Model               |                            |          |                                                                                                                   |                                                                                                                                  |                             |                                                                                                                   |                                                                                                                                  |                             |  |  |
|-------------------------|----------------------------|----------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--|--|
| Model                   |                            |          | PUCY-P300YKD (-BS)                                                                                                | PUCY-P300YKD (-BS)                                                                                                               | PUCY-P350YKD (-BS)          | PUCY-P300YKD (-BS)                                                                                                | PUCY-P350YKD (-BS)                                                                                                               | PUCY-P350YKD (-BS)          |  |  |
| Fan                     | Type x Quantity            |          | Propeller fan x 1                                                                                                 | Propeller fan x 1                                                                                                                | Propeller fan x 1           | Propeller fan x 1                                                                                                 | Propeller fan x 1                                                                                                                | Propeller fan x 1           |  |  |
|                         | Air flow rate              | m³/min   | 175                                                                                                               | 175                                                                                                                              | 210                         | 175                                                                                                               | 210                                                                                                                              | 210                         |  |  |
|                         |                            | L/s      | 2,917                                                                                                             | 2,917                                                                                                                            | 3,500                       | 2,917                                                                                                             | 3,500                                                                                                                            | 3,500                       |  |  |
|                         |                            | cfm      | 6,179                                                                                                             | 6,179                                                                                                                            | 7,415                       | 6,179                                                                                                             | 7,415                                                                                                                            | 7,415                       |  |  |
|                         | Control, Driving mechanism |          | Inverter-                                                                                                         | -control, Direct-driven b                                                                                                        | by motor                    | Inverter                                                                                                          | Inverter-control, Direct-driven by motor                                                                                         |                             |  |  |
|                         | Motor output               | kW       | 0.92 x 1                                                                                                          | 0.92 x 1                                                                                                                         | 0.92 x 1                    | 0.92 x 1                                                                                                          | 0.92 x 1                                                                                                                         | 0.92 x 1                    |  |  |
| *2                      | 2 External static pr       | ess.     | 0 Pa (0 mmH <sub>2</sub> O)                                                                                       | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                                                                       | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                      | 0 Pa (0 mmH <sub>2</sub> O) |  |  |
| Compressor              | Туре                       |          | Inverte                                                                                                           | er scroll hermetic comp                                                                                                          | ressor                      | Inverte                                                                                                           | er scroll hermetic comp                                                                                                          | ressor                      |  |  |
|                         | Starting method            |          | Inverter                                                                                                          | Inverter                                                                                                                         | Inverter                    | Inverter                                                                                                          | Inverter                                                                                                                         | Inverter                    |  |  |
|                         | Motor output               | kW       | 8.1                                                                                                               | 8.1                                                                                                                              | 10.4                        | 8.1                                                                                                               | 10.4                                                                                                                             | 10.4                        |  |  |
|                         | Case heater                | kW       | -                                                                                                                 | -                                                                                                                                | -                           | _                                                                                                                 | -                                                                                                                                | -                           |  |  |
| External finish         | External finish            |          |                                                                                                                   | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                             |                                                                                                                   | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                             |  |  |
| External dimension      | n H x W x D                | mm       | 1,650 x 920 x 740                                                                                                 | 1,650 x 920 x 740                                                                                                                | 1,650 x 1,220 x 740         | 1,650 x 920 x 740                                                                                                 | 1,650 x 1,220 x 740                                                                                                              | 1,650 x 1,220 x 740         |  |  |
|                         |                            | in.      | 65 x 36-1/4 x 29-3/16                                                                                             | 65 x 36-1/4 x 29-3/16                                                                                                            | 65 x 48-1/16 x 29-3/16      | 65 x 36-1/4 x 29-3/16                                                                                             | 65 x 48-1/16 x 29-3/16                                                                                                           | 65 x 48-1/16 x 29-3/16      |  |  |
| Protection              | High pressure pr           | otection |                                                                                                                   | High pressure sensor,                                                                                                            | ,                           |                                                                                                                   | High pressure sensor,                                                                                                            |                             |  |  |
| devices                 |                            |          | High pressure switch at 4.15 MPa (601 psi)                                                                        |                                                                                                                                  |                             | High pressure switch at 4.15 MPa (601 psi)                                                                        |                                                                                                                                  |                             |  |  |
|                         | Inverter circuit           |          |                                                                                                                   | Over-heat protection,                                                                                                            |                             | Over-heat protection,                                                                                             |                                                                                                                                  |                             |  |  |
|                         | (COMP./FAN)                |          |                                                                                                                   | Over-current protection                                                                                                          |                             | Over-current protection                                                                                           |                                                                                                                                  |                             |  |  |
| Refrigerant             | Type x original cl         |          |                                                                                                                   |                                                                                                                                  |                             | R410A x 6.5 kg (15 lbs)                                                                                           |                                                                                                                                  |                             |  |  |
| Net weight              |                            | kg (lbs) | 200 (441)                                                                                                         | 200 (441)                                                                                                                        | 236 (521)                   | 200 (441)                                                                                                         | 236 (521)                                                                                                                        | 236 (521)                   |  |  |
| Heat exchanger          |                            |          |                                                                                                                   | sistant cross fin & copp                                                                                                         |                             |                                                                                                                   | sistant cross fin & copp                                                                                                         |                             |  |  |
| Pipe between unit       |                            | mm (in.) | 12.7 (1/2) Brazed                                                                                                 | 12.7 (1/2) Brazed                                                                                                                | 12.7 (1/2) Brazed           | 12.7 (1/2) Brazed                                                                                                 | 12.7 (1/2) Brazed                                                                                                                | 12.7 (1/2) Brazed           |  |  |
| and distributor         | Gas pipe                   | mm (in.) | 22.2 (7/8) Brazed                                                                                                 | 22.2 (7/8) Brazed                                                                                                                | 28.58 (1-1/8) Brazed        | 22.2 (7/8) Brazed                                                                                                 | 28.58 (1-1/8) Brazed                                                                                                             |                             |  |  |
| Optional parts          |                            |          | Outdoor Twinning kit: CMY-Y300VBK3<br>Joint: CMY-Y102SS/LS-G2,<br>CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |                                                                                                                                  |                             | Outdoor Twinning kit: CMY-Y300VBK3<br>Joint: CMY-Y102SS/LS-G2,<br>CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |                                                                                                                                  |                             |  |  |
| Energy Labelling scheme |                            |          | **************************************                                                                            | 1007 28 179-                                                                                                                     | -2009 17744-                | 12077 28179-                                                                                                      | 1007-28473                                                                                                                       |                             |  |  |

#### Notes:

<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

|  |         | Indoor                                       | Outdoor               | Pipe length         | Level difference |  |  |  |  |  |  |  |
|--|---------|----------------------------------------------|-----------------------|---------------------|------------------|--|--|--|--|--|--|--|
|  | Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |  |  |  |  |  |  |  |

#### OUTDOOR UNIT

# YKD-series - Cooling-only High Efficiency

# PUCY-EP YSKD (-BS)



### **Specifications**

| Model                                            |                |            | PUCY-EP1050YSKD (-BS)                 | PUCY-EP1100YSKD (-BS)                 |
|--------------------------------------------------|----------------|------------|---------------------------------------|---------------------------------------|
| Power source                                     |                |            | 3-phase 4-wire 380-400-415 V 50/60 Hz | 3-phase 4-wire 380-400-415 V 50/60 Hz |
| Cooling capacity                                 | *1             | kW         | 120.0                                 | 124.0                                 |
| (Nominal)                                        |                | BTU/h      | 409,400                               | 423,100                               |
|                                                  | Power input    | kW         | 29.62                                 | 32.37                                 |
|                                                  | Current input  | Α          | 50.0-47.5-45.7                        | 54.6-51.9-50.0                        |
|                                                  | EER            | kW/kW      | 4.05                                  | 3.83                                  |
| Temp. range of                                   | Indoor         | W.B.       | 15.0~24.0 °C (59~75 °F)               | 15.0~24.0 °C (59~75 °F)               |
| cooling                                          | Outdoor        | D.B.       | 10.0~52.0 °C (50~126 °F)              | 10.0~52.0 °C (50~126 °F)              |
| Indoor unit                                      | Total capacity |            | 50~130% of outdoor unit capacity      | 50~130% of outdoor unit capacity      |
| connectable                                      | Model/Quantity |            | P15~P600/1~50                         | P15~P600/1~50                         |
| Sound pressure level (measured in anechoic room) |                | dB <a></a> | 66                                    | 67                                    |
| Refrigerant piping                               | Liquid pipe    | mm (in.)   | 19.05 (3/4) Brazed                    | 19.05 (3/4) Brazed                    |
| diameter                                         | Gas pipe       | mm (in.)   | 41.28 (1-5/8) Brazed                  | 41.28 (1-5/8) Brazed                  |

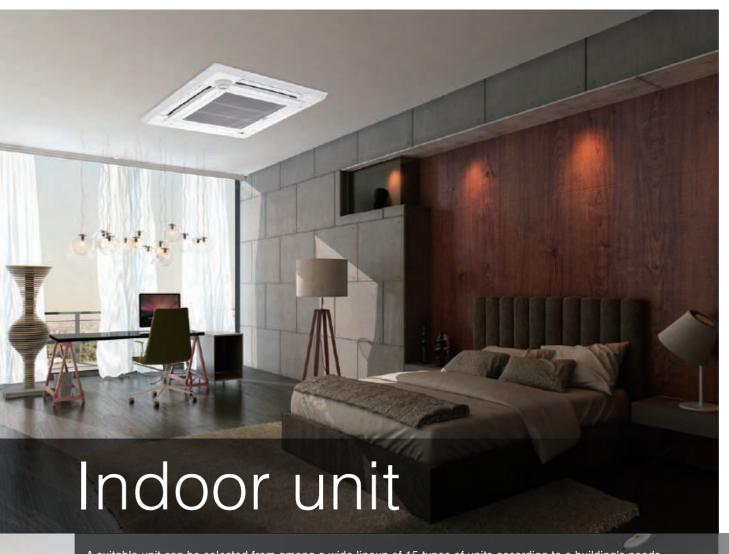
#### Sat Madal

| Set Model               |                            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                        |                                                                                         |                                         |                             |  |
|-------------------------|----------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|--|
| Model                   |                            |          | PUCY-P350YKD (-BS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PUCY-P350YKD (-BS)                       | PUCY-P350YKD (-BS)     | PUCY-P350YKD (-BS)                                                                      | PUCY-P350YKD (-BS)                      | PUCY-P400YKD (-BS)          |  |
| Fan                     | Type x Quantity            |          | Propeller fan x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Propeller fan x 1                        | Propeller fan x 1      | Propeller fan x 1                                                                       | Propeller fan x 1                       | Propeller fan x 1           |  |
|                         | Air flow rate              | m³/min   | 210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 210                                      | 210                    | 210                                                                                     | 210                                     | 210                         |  |
|                         |                            | L/s      | 3,500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3,500                                    | 3,500                  | 3,500                                                                                   | 3,500                                   | 3,500                       |  |
|                         |                            | cfm      | 7,415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7,415                                    | 7,415                  | 7,415                                                                                   | 7,415                                   | 7,415                       |  |
|                         | Control, Driving mechanism |          | Inverter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Inverter-control, Direct-driven by motor |                        |                                                                                         | -control, Direct-driven I               | by motor                    |  |
|                         | Motor output               | kW       | 0.92 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.92 x 1                                 | 0.92 x 1               | 0.92 x 1                                                                                | 0.92 x 1                                | 0.92 x 1                    |  |
| *                       | 2 External static pr       | ess.     | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 Pa (0 mmH₂O)                           | 0 Pa (0 mmH₂O)         | 0 Pa (0 mmH₂O)                                                                          | 0 Pa (0 mmH₂O)                          | 0 Pa (0 mmH <sub>2</sub> O) |  |
| Compressor              | Туре                       |          | Inverte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | er scroll hermetic comp                  | ressor                 | Inverte                                                                                 | er scroll hermetic comp                 | pressor                     |  |
| •                       | Starting method            |          | Inverter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Inverter                                 | Inverter               | Inverter                                                                                | Inverter                                | Inverter                    |  |
|                         | Motor output               | kW       | 10.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10.4                                     | 10.4                   | 10.4                                                                                    | 10.4                                    | 10.8                        |  |
|                         | Case heater                | kW       | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | _                                        | _                      | _                                                                                       | _                                       | _                           |  |
| External finish         | '                          |          | Pre-co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | pated galvanized steel                   | sheets                 | Pre-coated galvanized steel sheets                                                      |                                         |                             |  |
|                         |                            |          | (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |                        | (+powder coating for -BS type) <munsell 1.1="" 3y="" 7.8="" or="" similar=""></munsell> |                                         |                             |  |
| External dimension      | on H x W x D               | mm       | 1,650 x 1,220 x 740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1,650 x 1,220 x 740                      | 1,650 x 1,220 x 740    | 1,650 x 1,220 x 740                                                                     | 1,650 x 1,220 x 740                     | 1,650 x 1,220 x 740         |  |
|                         |                            | in.      | 65 x 48-1/16 x 29-3/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 65 x 48-1/16 x 29-3/16                   | 65 x 48-1/16 x 29-3/16 | 65 x 48-1/16 x 29-3/16                                                                  | 65 x 48-1/16 x 29-3/16                  | 65 x 48-1/16 x 29-3/16      |  |
| Protection              | High pressure protection   |          | High pressure sensor,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                          |                        |                                                                                         | High pressure sensor,                   |                             |  |
| devices                 |                            |          | High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |                        | High press                                                                              | sure switch at 4.15 MP                  | a (601 psi)                 |  |
|                         | Inverter circuit           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Over-heat protection,                    |                        |                                                                                         | Over-heat protection,                   |                             |  |
|                         | (COMP./FAN)                |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Over-current protection                  |                        | Over-current protection                                                                 |                                         |                             |  |
| Refrigerant             | Type x original cl         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | R410A x 11.5 kg (26 lbs)                 |                        |                                                                                         |                                         |                             |  |
| Net weight              |                            | kg (lbs) | 236 (521)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 236 (521)                                | 236 (521)              | 236 (521)                                                                               | 236 (521)                               | 236 (521)                   |  |
| Heat exchanger          |                            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | sistant cross fin & copp                 |                        |                                                                                         | sistant cross fin & copp                |                             |  |
| Pipe between uni        |                            | mm (in.) | 12.7 (1/2) Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12.7 (1/2) Brazed                        | 12.7 (1/2) Brazed      | 12.7 (1/2) Brazed                                                                       | 12.7 (1/2) Brazed                       | 15.88 (5/8) Brazed          |  |
| and distributor         | Gas pipe                   | mm (in.) | 28.58 (1-1/8) Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |                        |                                                                                         | 28.58 (1-1/8) Brazed                    |                             |  |
| Optional parts          |                            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Twinning kit: CMY-Y3                     |                        |                                                                                         | Twinning kit: CMY-Y3                    |                             |  |
|                         |                            |          | JO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | int: CMY-Y102SS/LS-0<br>CMY-Y202/302S-0  |                        | JO                                                                                      | int: CMY-Y102SS/LS-0<br>CMY-Y202/302S-0 |                             |  |
|                         |                            |          | Ноог                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | der: CMY-Y104/108/10                     |                        | Ноог                                                                                    |                                         |                             |  |
|                         |                            |          | пеас                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | der: Civit-1 104/108/10                  | 10-6                   | пеа                                                                                     | der: CMY-Y104/108/10                    | 110-G                       |  |
| Energy Labelling scheme |                            |          | OCCUPATION OF THE PROPERTY OF | 1-2007: 29179-mm                         | 12077 226179-m         | 1-2007 - 2007 pane                                                                      | 1-2007 - 200 Typom                      | 12702 24773                 |  |
| Energy Labelling        | scheme                     |          | 11007-26879-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 43087-28819                              | 43077 20419-           | 41007-21819                                                                             | 41007-20019                             |                             |  |

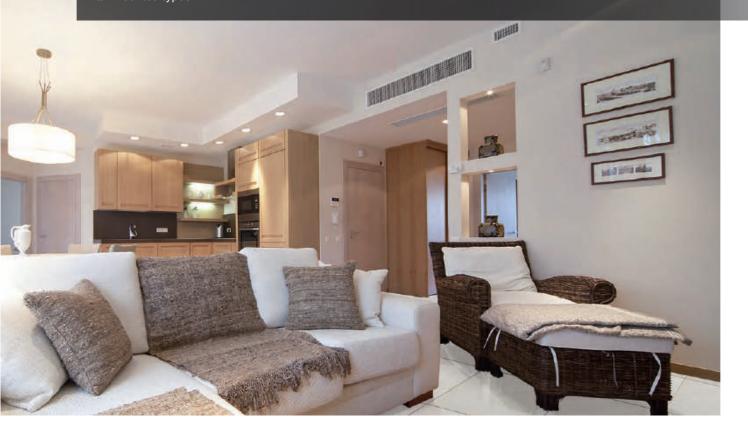
<sup>\*1</sup> Nominal cooling conditions (subject to JIS B8615-2)

|         | Indoor                                       | Outdoor               | Pipe length         | Level difference |  |  |  |  |  |  |  |
|---------|----------------------------------------------|-----------------------|---------------------|------------------|--|--|--|--|--|--|--|
| Cooling | 27 °CD.B./19 °CW.B.<br>(81 °FD.B./66 °FW.B.) | 35 °CD.B. (95 °FD.B.) | 7.5 m (24-9/16 ft.) | 0 m (0 ft.)      |  |  |  |  |  |  |  |

<sup>\*2</sup> External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
\*Due to continuing improvement, above specifications may be subject to change without notice.



A suitable unit can be selected from among a wide lineup of 15 types of units according to a building's needs. The lineup includes the cassette type, ensuring improved comfort and a pleasant appearance, the ceiling concealed type, excelling in quietness and ensuring flexible placement of air outlets, and the ceiling suspended and wall-mounted types.



#### 4-way airflow type

#### **PLFY-P VEM-PA**









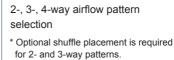


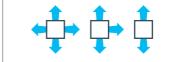


#### **Optimum Airflow**

#### 2-, 3-, 4-way Airflow Pattern Selection

Three outlet options to choose from-bidirectional, 3-way, and 4-way-to suit different types of installation. Select, for example, 4-directional for installation in the center of the room and 3-directional for installation in the corner.

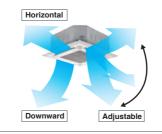




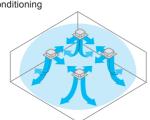
#### Individual Vane Angle **Settings**

Vane directions can be changed or fixed from the remote controller to direct the supply air at or away from the objects or the occupants in the room.

Airflow direction at each vane can be set using the wired remote controller or the wireless remote controller (PAR-SL100A-E).



#### Multi-directional air-conditioning



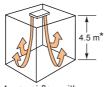
2-, 3-, 4-way Airflow Pattern Selection

#### **Individual Vane Angle Settings**

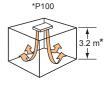
The combination of individual vane setting enables the optimal outlet setting for each room layout to ensure even temperature distribution throughout each room. The result is uniformly comfortable air conditioning.

#### Equipped with High- and Low-ceiling Modes

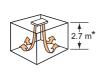
Units are equipped with high- and low-ceiling operation modes that make it possible to switch the airflow volume to match a room's height. The ability to choose the optimum airflow volume makes it possible to optimize the breezy sensation felt throughout the room.



4-way airflow with high-ceiling setting



4-way airflow with standard setting



4-way airflow with low-ceiling setting

#### Airflow Range

| Model           |                      | P32-P80          |                     | P100/P125            |                  |                     |  |
|-----------------|----------------------|------------------|---------------------|----------------------|------------------|---------------------|--|
| Airflow pattern | High-ceiling setting | Standard setting | Low-ceiling setting | High-ceiling setting | Standard setting | Low-ceiling setting |  |
| 4-way           | 3.5 m                | 2.7 m            | 2.5 m               | 4.5 m                | 3.2 m            | 2.7 m               |  |
| 3-way           | 3.5 m                | 3.0 m            | 2.7 m               | 4.5 m                | 3.6 m            | 3.0 m               |  |
| 2-way           | 3.5 m                | 3.3 m            | 3.0 m               | 4.5 m                | 4.0 m            | 3.3 m               |  |

#### Automatic Air-speed Adjustment

An automatic air-speed mode that adjusts airflow speed automatically is adopted to maintain comfortable room conditions at all times. This setting automatically adjusts the air-speed to conditions that match the room environment.



At the start of the heating / cooling operation, the airflow is set to high-speed to quickly heat / cool the room.



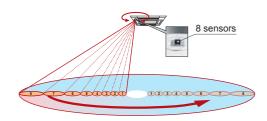
When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable and comfortable heating/cooling operation.

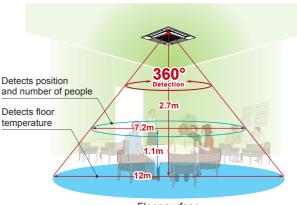
#### 3D i-see Sensor

# 0

#### · Highly accurate people detection

A total of eight sensors rotate a full 360° in 3-minute intervals. In addition to detecting human body temperature, our original algorithm also detects people's positions and the number of people.





Floor surface

\*In case of a 2.7m ceiling

• Detects number of people

#### Room occupancy energy-saving mode

The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time in order to save air-conditioning power. Air-conditioning power equivalent to 1°C is saved during both cooling and heating operation at an occupancy rate of approximately 30%. The temperature is controlled according to the number of people.

#### No occupancy energy-saving mode

When 3D i-see Sensor detects that no one is in the room, the system is switched to a preset power-saving mode. If the room remains unoccupied for more than 60min, air-conditioning power equivalent to 2°C is saved during both cooling and heating operation. This contributes to preventing waste in terms of heating and cooling.

#### No occupancy Auto-OFF mode

When the room remains unoccupied for a preset period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10min, ranging from 60 to 180 min.

\*No occupancy Auto-OFF mode is not available when multiple indoor units are operated by one MA remote controller.





No occupancy energy saving mode







\*PAR-40MAA is required for each setting.

#### Detects people's position

#### Direct/Indirect settings\*

Some people do not like the feeling of wind, while others want to be warm from head to toe. People's likes and dislikes vary. With the 3D i-see Sensor, it is possible to choose to block or not block to the wind for each vane.



\*PAR-40MAA or PAR-SL100A-E is required for each setting.

#### Seasonal airflow\*

#### <When cooling>

Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the air conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping a comfortable coolness.

#### <When heating>

The air conditioning unit automatically switches between circulator and heating. Wasted heat that accumulates near the ceiling is reused via circulation. When a pre-set temperature is reached the air conditioner switches from heating to circulator and blows air in the horizontal direction. It pushes down the warm air that has gathered near the ceiling to people's height, thereby providing smart heating.



\*PAR-40MAA is required for each setting.

#### **Easy Installation**

#### **Temporary hanging hook**

The structure of the panel has been redesigned and is now equipped with a temporary hanging hook.

This has improved work efficiency during panel installation.





#### No need to remove screws

Installation is possible without removing the screws for the corner panel and the control box, simply loosen them. This lowers the risk of losing screws.

Corner panel



· Control box cover



#### **Electrical box wiring**

After reviewing the power supply terminal position in the electrical box, the structure was redesigned to improve connectivity. This has made complex wiring work easier.

• PLFY-P VBM-E







#### Increased space for plumbing work

The top and bottom positions of the liquid and gas pipes have been reversed to allow the gas pipe work, which requires more effort, to be completed first. Further, through structural innovations related to the space around the pipes, the area where the spanner can be moved has been increased, thus improving liquid pipe work and enabling it to be completed smoothly.

• PLFY-P VBM-E



• PLFY-P VEM-PA





#### **Easy Cleaning**

With automatic elevation panel, cleaning the filter is easy, even with high ceilings.



| Description                              | Model        | Applicable capacity                 |
|------------------------------------------|--------------|-------------------------------------|
| Air outlet shutter plate                 | PAC-SJ37SP-E | P32, P40, P50, P63, P80, P100, P125 |
| Multi-function casement                  | PAC-SJ41TM-E | P32, P40, P50, P63, P80, P100, P125 |
| High efficiency filter element           | PAC-SH59KF-E | P32, P40, P50, P63, P80, P100, P125 |
| 3D i-see Sensor corner panel             | PAC-SE1ME-E  | P32, P40, P50, P63, P80, P100, P125 |
| Auto elevation and signal receiver panel | PLP-6EAJ     | P32, P40, P50, P63, P80, P100, P125 |
| Wireless signal receiver                 | PAR-SE9FA-E  | P32, P40, P50, P63, P80, P100, P125 |
| Space panel                              | PAC-SJ65AS-E | P32, P40, P50, P63, P80, P100, P125 |
| Duct flange for fresh air intake         | PAC-SH65OF-E | P32, P40, P50, P63, P80, P100, P125 |

| Model                                            |             |               |             | PLFY-P32VEM-PA                               | PLFY-P40VEM-PA     | PLFY-P50VEM-PA  | PLFY-P63VEM-PA       | PLFY-P80VEM-PA  | BLEV B100VEM BA  | PLFY-P125VEM-PA   |
|--------------------------------------------------|-------------|---------------|-------------|----------------------------------------------|--------------------|-----------------|----------------------|-----------------|------------------|-------------------|
| Model                                            |             |               |             | PLF1-P32VEWI-PA                              | PLF1-P4UVEWI-PA    |                 |                      |                 | PLFT-P100VEW-PA  | PLF1-P125VEW-PA   |
| Power so                                         | urce        |               |             | 1-phase 220-240V 50Hz/1-phase 220-230V 60Hz  |                    |                 |                      |                 |                  |                   |
| Cooling ca                                       | apacity     | *1            | kW          | 3.6                                          | 4.5                | 5.6             | 7.1                  | 9.0             | 11.2             | 14.0              |
|                                                  |             | *1            | BTU/h       | 12,300                                       | 15,400             | 19,100          | 24,200               | 30,700          | 38,200           | 47,800            |
|                                                  |             | Power input   |             | 0.03                                         | 0.03               | 0.03            | 0.03                 | 0.05            | 0.07             | 0.11              |
|                                                  |             | Current input |             | 0.32                                         | 0.32               | 0.32            | 0.36                 | 0.50            | 0.67             | 1.06              |
| Heating c                                        | capacity    | *2            | kW          | 4.0                                          | 5.0                | 6.3             | 8.0                  | 10.0            | 12.5             | 16.0              |
|                                                  |             | *2            | BTU/h       | 13,600                                       | 17,100             | 21,500          | 27,300               | 34,100          | 42,700           | 54,600            |
|                                                  |             | Power input   | kW          | 0.03                                         | 0.03               | 0.03            | 0.03                 | 0.05            | 0.07             | 0.11              |
|                                                  |             | Current input | Α           | 0.25                                         | 0.25               | 0.25            | 0.29                 | 0.43            | 0.60             | 0.99              |
| External f                                       |             | Unit          |             |                                              |                    | G               | Salvanized steel she | et              |                  |                   |
| (Munsell I                                       |             | Panel         |             |                                              |                    |                 | JNSELL (1.0Y 9.2/0   | .2)             |                  |                   |
| External c                                       |             | Unit          | mm          | 258 x 840 x 840                              |                    |                 |                      |                 | 298 x 840 x 840  |                   |
| H x W x [                                        | D           | Panel         | mm          |                                              |                    |                 | 40 x 950 x 950       |                 |                  |                   |
| Net weigh                                        | ht          | Unit          | kg          | 19 21 24                                     |                    |                 |                      |                 | 4                |                   |
|                                                  |             | Panel         | kg          |                                              |                    |                 | 5                    |                 |                  |                   |
| Heat exch                                        | hanger      |               |             | Micro slit fin (Aluminumfin and copper tube) |                    |                 |                      |                 |                  |                   |
| Fan                                              | Type x Q    | uantity       |             | Turbo fan x 1                                |                    |                 |                      |                 |                  |                   |
|                                                  | Airflow ra  |               | m³/min      | 13-14-16-17                                  | 13-14-16-18        | 13-14-16-19     | 15-16-17-19          | 15-18-20-23     | 20-23-26-29      | 24-26-30-35       |
|                                                  | (Low-Mid2   | 2-Mid1-High)  | L/s         | 217-233-267-283                              | 217-233-267-300    | 217-233-267-317 | 250-267-283-317      | 250-300-333-383 | 333-383-433-483  | 400-433-500-583   |
|                                                  |             |               | cfm         | 459-494-565-600                              | 459-494-565-636    | 459-494-565-671 | 530-565-600-671      | 530-636-706-812 | 706-812-918-1024 | 847-918-1060-1236 |
|                                                  | External st | atic pressure | Pa          |                                              |                    |                 | 0                    |                 |                  |                   |
| Motor                                            | Type        |               |             |                                              |                    |                 | DC motor             |                 |                  |                   |
|                                                  | Output      |               | kW          |                                              |                    | 0.050           |                      |                 | 0.1              | 20                |
| Air filter                                       |             |               |             |                                              |                    |                 | PP honeycomb         |                 |                  |                   |
| Sound pressure level (Low-Mid2-Mid1-High) dB (A) |             | 26-27-29-31   | 26-27-29-31 | 26-27-29-31                                  | 28-29-30-32        | 28-31-34-37     | 34-37-39-41          | 35-39-42-45     |                  |                   |
| Refrigerant control device                       |             |               |             |                                              |                    |                 | LEV                  |                 |                  |                   |
| Diameter                                         |             | Liquid        | mm (in.)    |                                              | ø6.35 (ø1/4) Flare |                 |                      | ø9.52 (ø        | 3/8) Flare       |                   |
| refrigeran                                       | nt pipe     | Gas           | mm (in.)    |                                              | ø12.7 (ø1/2) Flare |                 |                      | ø15.88 (ø       | 5/8) Flare       |                   |
| Field drain pipe size mm (in.)                   |             | mm (in.)      |             |                                              |                    | O.D 32 (1-1/4)  |                      |                 |                  |                   |

#### Notes:

<sup>\*1.</sup> Nominal cooling conditions Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

\*2. Nominal heating conditions Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

### 2-way airflow type

## **PLFY-P VLMD-E**





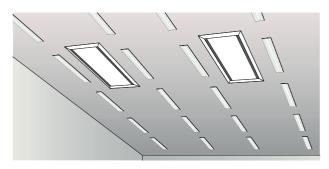






#### Simple panel design

In-take port is not a grille but made in stylish design. It can be installed visually beautifully in harmony with ceiling and illuminations.



#### Vane Control

Vane angle can be selected from 7 types including "Horizontal fix" and "Swing" to set a airblow type according to your taste.

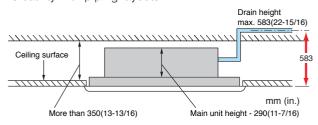
\*Airflow direction cannot be changed individually.





#### Drain pump is equipped as standard feature

The drain can be positioned anywhere up to 583 mm (22-15/16 in.) from the ceiling's surface, providing greater freedom with long cross-piping and allowing more versatility with piping layouts.



| Description      | Model        | Applicable capacity                     |
|------------------|--------------|-----------------------------------------|
|                  | CMP-40VLW-C  | P20, P25, P32, P40                      |
| Descration nanel | CMP-63VLW-C  | P50, P63                                |
| Decoration panel | CMP-100VLW-C | P80, P100                               |
|                  | CMP-125VLW-C | P125                                    |
| OA duct flange   | PAC-KH11OF   | P20, P25, P32, P40, P50, P63, P80, P100 |

| Model                               |              |                   |             | PLFY-P20VLMD-E                            | PLFY-P25VLMD-E             | PLFY-P32VLMD-E        | PLFY-P40VLMD-E |  |  |
|-------------------------------------|--------------|-------------------|-------------|-------------------------------------------|----------------------------|-----------------------|----------------|--|--|
| Power so                            | ource        |                   |             |                                           | 1-phase 220-240V 50Hz/     | 1-phase 220-230V 60Hz |                |  |  |
| Cooling                             | capacity     | *1                | kW          | 2.2                                       | 2.8                        | 3.6                   | 4.5            |  |  |
|                                     |              | *1                | BTU/h       | 7,500                                     | 9,600                      | 12,300                | 15,400         |  |  |
| Trouting duputity                   |              | *1                | kW          | 2.5                                       | 3.2                        | 4.0                   | 5.0            |  |  |
|                                     |              | 0.0               | 8,500       | 10,900                                    | 13,600                     | 17,100                |                |  |  |
| Power                               |              | Cooling           | kW          | 0.072/0.075                               | 0.072/0.075                | 0.072/0.075           | 0.081/0.085    |  |  |
| consump                             | tion         | Heating           | kW          | 0.065/0.069                               | 0.065/0.069                | 0.065/0.069           | 0.074/0.079    |  |  |
| Current                             |              | Cooling           | Α           | 0.36/0.37                                 | 0.36/0.37                  | 0.36/0.37             | 0.40/0.42      |  |  |
|                                     |              | Heating           | Α           | 0.30/0.32                                 | 0.30/0.32                  | 0.30/0.32             | 0.34/0.37      |  |  |
| External                            |              | Unit              |             |                                           | Galvanized                 | <u> </u>              |                |  |  |
| (Munsell                            |              | Panel             |             |                                           | Pure white (6              |                       |                |  |  |
| Dimension                           |              | Unit              | mm (in.)    | 290 x 776 x 634 (11-7/16 x 30-9/16 x 25)  |                            |                       |                |  |  |
| HxWx                                |              | Panel             | mm (in.)    |                                           | 20 x 1080 x 710 (13        |                       |                |  |  |
| Net weig                            | ht           | Unit              | kg (lbs.)   | 23 (                                      | (53)                       |                       |                |  |  |
|                                     |              | Panel             | kg (lbs.)   |                                           |                            |                       |                |  |  |
| Heat exc                            |              |                   |             |                                           | Cross fin                  |                       |                |  |  |
| Fan                                 | Type x Q     |                   |             | Turbo fan x 1<br>6.5-8.0-9.5 7.0-8.5-10.5 |                            |                       |                |  |  |
|                                     | Airflow ra   | -                 | *********** |                                           | 6.5-8.0-9.5                |                       |                |  |  |
|                                     | (Lo-Mid-l    | Hi)               | L/s         |                                           | 108-133-158<br>230-283-335 |                       |                |  |  |
|                                     |              |                   | cfm         |                                           | 247-300-371                |                       |                |  |  |
|                                     |              | atic pressure     | Pa          | 0                                         |                            |                       |                |  |  |
| Motor                               | Туре         |                   |             |                                           | 1-phase indu               | ***                   |                |  |  |
|                                     | Output       |                   | kW          |                                           | 0.015 (at 240V)            |                       |                |  |  |
| Air filter                          |              |                   |             |                                           | PP honeycomb fab           | oric (long life type) |                |  |  |
| Refrigera<br>pipe dian              |              | Gas<br>(Flare)    | mm (in.)    |                                           | ø12.7                      | (ø1/2)                |                |  |  |
|                                     |              | Liquid<br>(Flare) | mm (in.)    | ø6.35 (ø1/4)                              |                            |                       |                |  |  |
|                                     | in pipe diar |                   | mm (in.)    |                                           | O.D.32                     | (1-1/4)               |                |  |  |
| Sound pressure le<br>(Lo-Mid-Hi) *2 |              | 220V,<br>3 240V   | dB (A)      |                                           | 29-33-36                   |                       |                |  |  |
|                                     | 230V         |                   | dB (A)      | 28-31-34 30-34-37                         |                            |                       |                |  |  |

| Model                                   |              |                   |           | PLFY-P50VLMD-E                              | PLFY-P63VLMD-E       | PLFY-P80VLMD-E                          | PLFY-P100VLMD-E        | PLFY-P125VLMD-E                                  |  |
|-----------------------------------------|--------------|-------------------|-----------|---------------------------------------------|----------------------|-----------------------------------------|------------------------|--------------------------------------------------|--|
| Power so                                | ource        |                   |           | 1-phase 220-240V 50Hz/1-phase 220-230V 60Hz |                      |                                         |                        |                                                  |  |
| Cooling                                 | capacity     | *1                | kW        | 5.6                                         | 7.1                  | 9.0                                     | 11.2                   | 14.0                                             |  |
| _                                       | *1 BTU/h     |                   | 19,100    | 24,200                                      | 30,700               | 38,200                                  | 47,800                 |                                                  |  |
| Heating (                               | capacity     | *1                | kW        | 6.3                                         | 8.0                  | 10.0                                    | 12.5                   | 16.0                                             |  |
|                                         |              | *1                | BTU/h     | 21,500                                      | 27,300               | 34,100                                  | 42,700                 | 54,600                                           |  |
| Power                                   |              | Cooling           | kW        | 0.082/0.086                                 | 0.101/0.105          | 0.147/0.156                             | 0.157/0.186            | 0.28/0.28                                        |  |
| consump                                 | otion        | Heating           | kW        | 0.075/0.080                                 | 0.094/0.099          | 0.140/0.150                             | 0.150/0.180            | 0.27/0.27                                        |  |
| Current                                 |              | Cooling           | Α         | 0.41/0.43                                   | 0.49/0.51            | 0.72/0.74                               | 0.75/0.88              | 1.35/1.35                                        |  |
|                                         |              | Heating           | Α         | 0.35/0.38                                   | 0.43/0.46            | 0.66/0.69                               | 0.69/0.83              | 1.33/1.33                                        |  |
| External                                | finish       | Unit              |           |                                             |                      | Galvanized steel plate                  |                        |                                                  |  |
| (Munsell                                | No.)         | Panel             |           |                                             |                      | Pure white (6.4Y 8.9/0.4)               |                        |                                                  |  |
| Dimensio                                |              | Unit              | mm (in.)  | 290 x 946 x 634 (11                         | -7/16 x 37-1/4 x 25) | 290 x 1446 x 634 (11                    | -7/16 x 56-15/16 x 25) | 290 x 1708 x 606 (11-7/16 x 67-1/4 x 23-7/8)     |  |
| HxWx                                    | D            | Panel             | mm (in.)  | 20 x 1250 x 710 (1                          | 3/16 x 49-1/4 x 28)  | 20 x 1750 x 710 (13/16 x 68-15/16 x 28) |                        | 20 x 2010 x 710 (13/16 x 79-3/16 x 28)           |  |
| Net weig                                | ht           | Unit              | kg (lbs.) | 27 (60)                                     | 28 (62)              | 44 (98)                                 | 47 (104)               | 56 (124)                                         |  |
|                                         |              | Panel             | kg (lbs.) | 7.5                                         | (17)                 | 12.5                                    | (28)                   | 13.0 (29)                                        |  |
| Heat exc                                | hanger       |                   |           |                                             |                      | Cross fin                               |                        |                                                  |  |
| Fan                                     | Type x Qu    |                   |           | Turbo fan x 1                               |                      | Turbo                                   | fan x 2                | Sirocco fan x 4                                  |  |
|                                         | Airflow rate |                   | m³/min    | 9.0-11.0-12.5                               | 11.0-13.0-15.5       | 15.5-18.5-22.0                          | 17.5-21.0-25.0         | 24.0-27.0-30.0-33.0                              |  |
|                                         | (P50~P100    |                   | L/s       | 150-183-208                                 | 167-217-258          | 258-308-367                             | 292-350-417            | 400-450-500-550                                  |  |
|                                         | (P125:Lo-Mi  | id2-Mid1-Hi)      | cfm       | 318-388-441                                 | 353-459-547          | 547-653-777                             | 618-742-883            | 848-953-1,059-1,165                              |  |
|                                         | External sta | tic pressure      | Pa        |                                             |                      | 0                                       |                        |                                                  |  |
| Motor                                   | Туре         |                   |           |                                             |                      | 1-phase induction motor                 |                        |                                                  |  |
|                                         | Output       |                   | kW        | 0.020 (a                                    | at 240V)             | 0.020 (at 240V)                         | 0.030 (at 240V)        | 0.078 x 2 (at 240V)                              |  |
| Air filter                              |              |                   |           |                                             | PP honeycomb fa      | bric (long life type)                   |                        | Synthetic fiber unwoven cloth filter (long life) |  |
| Refrigera<br>pipe dian                  |              | Gas<br>(Flare)    | mm (in.)  | ø12.7 (ø1/2)                                |                      | ø15.88                                  | 3 (ø5/8)               |                                                  |  |
|                                         |              | Liquid<br>(Flare) | mm (in.)  | ø6.35 (ø1/4)                                | ø9.52 (ø3/8)         |                                         |                        |                                                  |  |
| Field drain pipe diameter mm (in.)      |              |                   | mm (in.)  |                                             |                      | O.D.32 (1-1/4)                          |                        |                                                  |  |
| Sound pressure leve<br>(Lo-Mid-Hi) *2 * |              | 220V,<br>240V     | dB (A)    | 31-34-37                                    | 32-37-39             | 33-36-39                                | 36-39-42               | 40-42-44-46                                      |  |
| •                                       |              | 230V              | dB (A)    | 32-35-38                                    | 33-38-40             | 34-37-40                                | 37-41-43               | (Lo-Mid2-Mid1-Hi)                                |  |

<sup>\*1</sup> Cooling/Heating capacity indicates the maximum value at operation under the following condition.

Cooling: Indoor 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB
Heating: Indoor 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

\*2 Airflow rate/Sound pressure level are in (low-middle-high) or (low-middle2-middle1-high).

\*3 It is measured in anechoic room.

### 1-way airflow type

### PMFY-P VBM-E







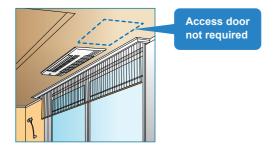






#### Ceiling Mounted

Installing a the 1-way airflow type unit in a room creates a more spacious feel that enhances room comfort. This overhead format is also an excellent solution when lighting equipment is installed at the center of the room and fixtures such as book shelves are mounted on wall surfaces.

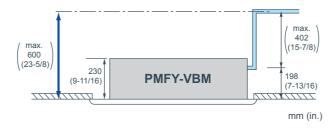


#### Compact size for smooth installation and maintenance

Unit body size has been standardized for all models at 812 mm for easier installation. Body weight is only 14 kg for the main unit and 3 kg for the panel, making this unit one of the lightest in the industry.

#### Drain pump

The drain can be positioned anywhere up to 600 mm (23-5/8 in.) from the ceiling's surface.



| Description Model |           | Applicable capacity |
|-------------------|-----------|---------------------|
| Decoration panel  | PMP-40BMW | P20, P25, P32, P40  |

| Model                                               |               |                   |           | PMFY-P20VBM-E                                  | PMFY-P25VBM-E       | PMFY-P32VBM-E         | PMFY-P40VBM-E   |  |  |  |
|-----------------------------------------------------|---------------|-------------------|-----------|------------------------------------------------|---------------------|-----------------------|-----------------|--|--|--|
| Power s                                             | ource         |                   |           |                                                | 1-phase 220-240V 50 | Hz/1-phase 220V 60Hz  |                 |  |  |  |
| Cooling                                             | capacity      | *1                | kW        | 2.2                                            | 2.2 2.8 3.6         |                       | 4.5             |  |  |  |
|                                                     |               | *1                | BTU/h     | 7,500                                          | 9,600               | 12,300                | 15,400          |  |  |  |
| Heating                                             | capacity      | *1                | kW        | 2.5                                            | 3.2                 | 4.0                   | 5.0             |  |  |  |
|                                                     |               | *1                | BTU/h     | 8,500                                          | 10,900              | 13,600                | 17,100          |  |  |  |
| Power                                               |               | Cooling           | kW        | 0.042                                          | 0.0                 | 044                   | 0.054           |  |  |  |
| consum                                              | ption         | Heating           | kW        | 0.042                                          | 0.0                 | 044                   | 0.054           |  |  |  |
| Current                                             |               | Cooling           | Α         | 0.20                                           | 0.                  | .21                   | 0.26            |  |  |  |
|                                                     |               | Heating           | Α         | 0.20                                           |                     | .21                   | 0.26            |  |  |  |
| External                                            | l finish (Mui | nsell No.)        |           |                                                | White (6.4          | 4Y 8.9/0.4)           |                 |  |  |  |
| Dimensi                                             |               | Unit              | mm (in.)  |                                                |                     | -1/16 x 32 x 15-9/16) |                 |  |  |  |
| H x W x                                             |               | Panel             | mm (in.)  | 30 x 1000 x 470 (1-3/16 x 39-3/8 x 18-9/16)    |                     |                       |                 |  |  |  |
| Net weight Unit kg (lbs.)                           |               |                   | kg (lbs.) |                                                |                     | (31)                  |                 |  |  |  |
|                                                     |               | Panel             | kg (lbs.) |                                                | 3 (7)               |                       |                 |  |  |  |
|                                                     | changer       |                   |           | Cross fin (Aluminum plate fin and copper tube) |                     |                       |                 |  |  |  |
| Fan                                                 | Type x C      |                   |           | Line flow fan x 1                              |                     |                       |                 |  |  |  |
|                                                     | Airflow r     |                   |           | 6.5-7.2-8.0-8.7 7.3-8.0-8.6-9.3                |                     |                       |                 |  |  |  |
|                                                     | (Lo-Mid2      | 2-Mid1-Hi)        | L/s       | 108-120-133-145                                |                     | 3-143-155             | 128-145-162-178 |  |  |  |
|                                                     |               |                   | cfm       | 230-254-283-307                                |                     | 3-304-328             | 272-307-343-378 |  |  |  |
|                                                     |               | tatic pressure    | Pa        |                                                |                     | 0                     |                 |  |  |  |
| Motor                                               | Туре          |                   |           |                                                |                     | luction motor         |                 |  |  |  |
|                                                     | Output        |                   | kW        | 0.028                                          |                     |                       |                 |  |  |  |
| Air filter                                          |               | 1-                |           |                                                | PP Honey            | comb fabric           |                 |  |  |  |
| Refriger<br>pipe dia                                |               | Gas<br>(Flare)    | mm (in.)  |                                                | ø12.7               | ' (ø1/2)              |                 |  |  |  |
|                                                     |               | Liquid<br>(Flare) | mm (in.)  | ø6.35 (ø1/4)                                   |                     |                       |                 |  |  |  |
| Field dra                                           | ain pipe dia  |                   | mm (in.)  |                                                | O.D. 26 (1)         |                       |                 |  |  |  |
| Sound pressure level (Lo-Mid2-Mid1-Hi) *2 *3 dB (A) |               |                   | dB (A)    | 27-30-33-35                                    | 32-34               | 1-36-37               | 33-35-37-39     |  |  |  |

<sup>\*1</sup> Cooling/Heating capacity indicates the maximum value at operation under the following condition.

Cooling: Indoor 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB
Heating: Indoor 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

\*2 Airflow rate/Sound pressure level are in (low-middle2-middle1-high).

\*3 It is measured in anechoic room.

#### Medium static pressure type

## PEFY-P VMA(L)-E













#### Compact design with a height of only 250 mm [9-7/8 in.]

A thin body design with a height of only 250 mm [9-7/8 in.] (all models) enables installation in a 280 mm [11-in.] high ceiling space.



#### Drain pump is optionally selectable

The line-up consists of two types:models with or without a built-in drain pump, thus allowing more freedom in piping layout design.







PEFY-P VMAL-E No drain pump

\* Units with an "L" at the end of the model name are not equipped with a drain pump.

#### Selectable external static pressure

Five-stage external static pressure settings provide flexibility for duct extension, branching, and air outlet configuration, and are adjustable to meet different application conditions. Setting ranges to a maximum of 150 Pa.

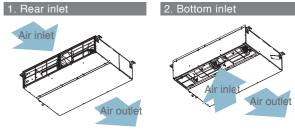
#### External static pressure setting

| Series          | 20 | 25 | 32 | 40  | 50    | 63     | 71     | 80 | 100 | 125 | 140 |
|-----------------|----|----|----|-----|-------|--------|--------|----|-----|-----|-----|
| PEFY-P VMA(L)-E |    |    |    | 35/ | 50/70 | /100/1 | 150 Pa | a  |     |     |     |

#### Selectable air inlet pattern

The air inlet position can only be changed between rear and bottom by switching the positions of the closing plate and air filter. (The factory default is bottom inlet.)

#### Two air inlet options can be chosen, rear or bottom:



<sup>\*</sup> Unit with a bottom inlet make more noise than those with a rear inlet. It is recommended that the rear inlet be selected when installing the units in rooms that should be quiet, such as bedrooms

| Description | Model        | Applicable capacity VMA(L) |
|-------------|--------------|----------------------------|
|             | PAC-KE91TB-E | P20, P25, P32              |
|             | PAC-KE92TB-E | P40, P50                   |
| Filter box  | PAC-KE93TB-E | P63, P71, P80              |
|             | PAC-KE94TB-E | P100, P125                 |
|             | PAC-KE95TB-E | P140                       |

| Model                |              |                   |                          | PEFY-P32VMA(L)-E             | PEFY-P40VMA(L)-E         | PEFY-P50VMA(L)-E         | PEFY-P63VMA(L)-E        |  |  |  |
|----------------------|--------------|-------------------|--------------------------|------------------------------|--------------------------|--------------------------|-------------------------|--|--|--|
| Power s              | ource        |                   |                          | 1-phase 220-230-240V 50/60Hz |                          |                          |                         |  |  |  |
| Cooling              | capacity     | *1                | kW                       | 3.6                          | 4.5                      | 5.6                      | 7.1                     |  |  |  |
| (Nomina              | al)          | *1                | BTU/h                    | 12,300                       | 15,400                   | 19,100                   | 24,200                  |  |  |  |
| Heating              | capacity     | *2                | kW                       | 4.0                          | 5.0                      | 6.3                      | 8.0                     |  |  |  |
| (Nomina              | al)          | *2                | BTU/h                    | 13,600                       | 17,100                   | 21,500                   | 27,300                  |  |  |  |
| Power                |              | Cooling*3         | kW                       | 0.044 (0.042)                | 0.047 (0.045)            | 0.066 (0.064)            | 0.087 (0.085)           |  |  |  |
| consum               | ption        | Heating*3         | kW                       | 0.042                        | 0.045                    | 0.064                    | 0.085                   |  |  |  |
| Current              |              | Cooling*3         | Α                        | 0.34                         | 0.37                     | 0.51                     | 0.66                    |  |  |  |
|                      |              | Heating*3         | Α                        | 0.34                         | 0.37                     | 0.51                     | 0.66                    |  |  |  |
| External             | finish       |                   |                          |                              | Galvanized               | d steel plate            |                         |  |  |  |
| Dimensi              | on H x W x   | D                 | mm                       | 250 x 700 x 732              | 250 x 900 x 732          | 250 x 900 x 732          | 250 x 900 x 732         |  |  |  |
| in.                  |              | in.               | 9-7/8 x 27-9/16 x 28-7/8 | 9-7/8 x 35-7/16 x 28-7/8     | 9-7/8 x 35-7/16 x 28-7/8 | 9-7/8 x 35-7/16 x 28-7/8 |                         |  |  |  |
| Net weight kg (lbs.) |              | kg (lbs.)         | 21.5 (49) [21 (47)]      | 26 (58) [25.5 (58)]          | 26 (58) [25.5 (58)]      | 27 (60) [26.5 (60)]      |                         |  |  |  |
| Heat exc             | changer      |                   |                          |                              | Cross fin (Aluminum      | fin and copper tube)     |                         |  |  |  |
| an                   | Type x C     | Quantity          |                          | Sirocco fan x 1              | Sirocco fan x 2          | Sirocco fan x 2          | Sirocco fan x 2         |  |  |  |
|                      | Airflow ra   |                   | m³/min                   | 7.5-9.0-10.5                 | 10.0-12.0-14.0           | 12.0-14.5-17.0           | 13.5-16.0-19.0          |  |  |  |
|                      | (Lo-Mid-     | Hi)               | L/s                      | 125-150-175                  | 167-200-233              | 200-242-283              | 225-267-317             |  |  |  |
|                      |              |                   | cfm                      | 265-318-371                  | 353-424-494              | 424-512-600              | 477-565-671             |  |  |  |
|                      | External     |                   | Pa                       | 35-<50>-<70>-<100>-<150>     | 35-<50>-<70>-<100>-<150> | 35-<50>-<70>-<100>-<150> | 35-<50>-<70>-<100>-<150 |  |  |  |
| Motor                | Туре         |                   |                          |                              | DC r                     | notor                    |                         |  |  |  |
|                      | Output       |                   | kW                       | 0.085                        | 0.121                    | 0.121                    | 0.121                   |  |  |  |
| Air filter           |              |                   |                          |                              | PP honeyo                | comb fabric.             |                         |  |  |  |
| Refriger             |              | Liquid<br>(R410A) | mm (in.)                 | 6.35 (1/4) Brazed            | 6.35 (1/4) Brazed        | 6.35 (1/4) Brazed        | 9.52 (3/8) Brazed       |  |  |  |
|                      |              | Gas<br>(R410A)    | mm (in.)                 | 12.7 (1/2) Brazed            | 12.7 (1/2) Brazed        | 12.7 (1/2) Brazed        | 15.88 (5/8) Brazed      |  |  |  |
| Field dra            | ain pipe dia | meter             | mm (in.)                 | O.D.32 (1-1/4)               | O.D.32 (1-1/4)           | O.D.32 (1-1/4)           | O.D.32 (1-1/4)          |  |  |  |
| Sound p              | ressure lev  | el (measure       |                          | oic room)                    |                          |                          |                         |  |  |  |
| Lo-Mid-              | ·Hi)         | *3 *5             | dB (A)                   | 24-28-31                     | 24-29-32                 | 25-32-35                 | 28-32-36                |  |  |  |

| Model      |                      | PEFY-P80VMA(L)-E  | PEFY-P100VMA(L)-E   | PEFY-P125VMA(L)-E        | PEFY-P140VMA(L)-E                                    |                          |                          |  |
|------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------------------------|--------------------------|--------------------------|--|
| Power so   | ource                |                   |                     |                          | 1-phase 220-23                                       | 0-240V 50/60Hz           |                          |  |
| Cooling    | capacity             | *1                | kW                  | 9.0                      | 9.0 11.2 14.0                                        |                          | 16.0                     |  |
| (Nomina    | l)                   | *1                | BTU/h               | 30,700                   | 38,200 47,800                                        |                          | 54,600                   |  |
| Heating    | capacity             | *2                | kW                  | 10.0                     | 12.5                                                 | 16.0                     | 18.0                     |  |
| (Nomina    | l)                   | *2                | BTU/h               | 34,100                   | 42,700                                               | 54,600                   | 61,400                   |  |
| Power      |                      | Cooling*3         | kW                  | 0.08 (0.078)             | 0.142 (0.14)                                         | 0.199 (0.197)            | 0.208 (0.206)            |  |
| consump    | otion                | Heating*3         | kW                  | 0.078                    | 0.14                                                 | 0.197                    | 0.206                    |  |
| Current    |                      | Cooling*3         | Α                   | 0.57                     | 0.97                                                 | 1.23                     | 1.34                     |  |
|            |                      | Heating*3         | Α                   | 0.57                     | 0.97                                                 | 1.23                     | 1.34                     |  |
| External   | finish               |                   |                     |                          | Galvanized                                           | steel plate              |                          |  |
| Dimension  | on H x W x           | D                 | mm                  | 250 x 1,100 x 732        | 250 x 1,400 x 732                                    | 250 x 1,400 x 732        | 250 x 1,600 x 732        |  |
|            |                      |                   | in.                 | 9-7/8 x 43-5/16 x 28-7/8 | 28-7/8 9-7/8 x 55-1/8x 287/8 9-7/8 x 55-1/8 x 28-7/8 |                          | 9-7/8 x 63 x 28-7/8      |  |
| Net weig   | Net weight kg (lbs.) |                   | 30 (67) [29.5 (67)] | 37.5 (84) [37 (82)]      | 38.5 (86) [38 (84)]                                  | 41.5 (93) [41 (91)]      |                          |  |
| Heat exc   | hanger               |                   |                     |                          | Cross fin (Aluminum                                  | fin and copper tube)     |                          |  |
| Fan        | Type x C             | Quantity          |                     | Sirocco fan x 2          | Sirocco fan x 3                                      | Sirocco fan x 2          | Sirocco fan x 3          |  |
|            | Airflow ra           | ate               | m³/min              | 14.5-18.0-21.0           | 23.0-28.0-32.0                                       | 28.0-34.0-37.0           | 29.5-35.5-40.0           |  |
|            | (Lo-Mid-             | Hi)               | L/s                 | 242-300-350              | 383-467-533                                          | 467-567-617              | 492-592-667              |  |
|            |                      |                   | cfm                 | 512-636-742              | 812-989-1,130                                        | 989-1,201-1,306          | 1,042-1,254-1,412        |  |
|            | External             | - 10-11-0         | Pa                  | 40-<50>-<70>-<100>-<150> | 40-<50>-<70>-<100>-<150>                             | <40>-50-<70>-<100>-<150> | <40>-50-<70>-<100>-<150> |  |
| Motor      | Туре                 |                   |                     |                          | DC n                                                 | notor                    |                          |  |
|            | Output               |                   | kW                  | 0.121                    | 0.3                                                  | 0.3                      | 0.3                      |  |
| Air filter |                      |                   |                     |                          | PP honeyc                                            | omb fabric.              |                          |  |
| Refrigera  |                      | Liquid<br>(R410A) | mm (in.)            | 9.52 (3/8) Brazed        | 9.52 (3/8) Brazed                                    | 9.52 (3/8) Brazed        | 9.52 (3/8) Brazed        |  |
|            | Gas<br>(R410A)       |                   | Cae                 |                          | 15.88 (5/8) Brazed                                   | 15.88 (5/8) Brazed       |                          |  |
| Field dra  | in pipe dia          | meter             | mm (in.)            | O.D.32 (1.1/4)           | O.D.32 (1.1/4)                                       | O.D.32 (1-1/4)           | O.D.32 (1-1/4)           |  |
| Sound p    | ressure lev          | el (measure       | d in anecho         | oic room)                | · · · · · · · · · · · · · · · · · · ·                |                          |                          |  |
| (Lo-Mid-   | Hi)                  | *3 *5             | dB (A)              | 26-32-35                 | 31-36-39                                             | 35-39-41                 | 34-38-41                 |  |

#### Notes:



<sup>\* []</sup> is in case of PEFY-P VMAL-E

#### High static pressure type

## PEFY-P VMH(S)-E



PEFY-P VMHS-E (P40-P140)











PEFY-P VMHS-E (P200/P250)

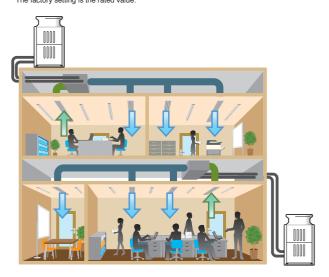


#### Sufficient external static pressure ensuring flexible duct design

Sufficient external static pressure enables designs with long ducts and greatly expands design possibilities. Ducted air-conditioning that maches an interior design can be realized.

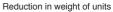
| PEFY-P VMHS                   | P40 | P50    | P63   | P71    | P80    | P100   | P125  | P140 |
|-------------------------------|-----|--------|-------|--------|--------|--------|-------|------|
| External static pressure (Pa) |     | 50 -   | - <10 | )> - < | <150>  | - <2   | 00>   |      |
| PEFY-P VMHS-E                 |     | P2     | 200   |        |        | P2     | 50    |      |
| External static pressure (Pa) | <50 | )> - < | :100> | - 150  | 0 - <2 | 200> - | - <25 | 0>*  |

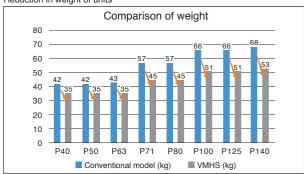
<sup>\*</sup> The rated external static pressure is shown without <> The factory setting is the rated value.



#### Use of DC motors (VMHS Models)

These new P40 to P140VMHS Models use DC motors. This reduces the power consumption and weight of the units.

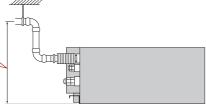




# Drain pump (option) ensures up to 550 mm [21-11/16 in.] for P40-P140VMHS, 700 mm [27-9/16 in.] for P200/P250VMHS models

The introduction of an upper drain pump allows the drain connection to be raised as high as 550 mm [21-11/16 in.] for P40-P140VMHS, 700 mm [27-9/16 in.] for P200, 500VMHS models, allowing more freedom in piping layout design and reducing horizontal piping requirements.

Drain pump ensures up to 550 mm [21-11/16 in.] (for P40-P140VMHS), 700 mm [27-9/16 in.] (P200, P250VMHS) of lift



| Description     | Model          | Applicable capacity | Remarks             |
|-----------------|----------------|---------------------|---------------------|
| Description     | Model          | VMHS-E              | Remarks             |
| Drain numn      | PAC-KE05DM-F   | P200, P250          |                     |
| Drain pump      | PAC-DRP10DP-E2 | P10-P140            |                     |
|                 | PAC-KE86LAF    | P40, P50, P63       |                     |
| Languista titan | PAC-KE88LAF    | P71, P80            |                     |
| Long life fiter | PAC-KE89LAF    | P100, P125, P140    |                     |
|                 | PAC-KE85LAF    | P200, P250          |                     |
|                 | PAC-KE63TB-F   | P40, P50, P63       |                     |
| Filter boy      | PAC-KE99TB-F   | P71, P80            | Required when long  |
| Filter box      | PAC-KE140TB-F  | P100, P125, P140    | life filter is used |
|                 | PAC-KE250TB-F  | P200, P250          |                     |

| Model                                            |                    | PEFY-P40VMHS-E           | PEFY-P50VMHS-E                           | PEFY-P63VMHS-E       | PEFY-P71VMHS-E         | PEFY-P80VMHS-E     | PEFY-P100VMHS-E      | PEFY-P125VMHS-E   | PEFY-P140VMHS-E     |  |
|--------------------------------------------------|--------------------|--------------------------|------------------------------------------|----------------------|------------------------|--------------------|----------------------|-------------------|---------------------|--|
| Power source                                     |                    |                          |                                          |                      | 1-phase 220-230        | )-240 V 50/60 Hz   |                      |                   |                     |  |
| Cooling capacity *1                              | kW                 | 4.5                      | 5.6                                      | 7.1                  | 8.0                    | 9.0                | 11.2                 | 14.0              | 16.0                |  |
| *1                                               | BTU/h              | 15,400                   | 19,100                                   | 24,200               | 27,300                 | 30,700             | 38,200               | 47,800            | 54,600              |  |
| *2 Power input                                   | kW                 | 0.0                      | 55                                       | 0.090                | 0.075                  | 0.090              | 0.1                  | 160               | 0.190               |  |
| *2 Current input<br>(220-230-240 V)              | Α                  | 0.41-0.3                 | 39-0.38                                  | 0.64-0.62-0.59       | 0.54-0.52-0.50         | 0.63-0.61-0.58     | 1.05-1.              | 01-0.96           | 1.24-1.19-1.14      |  |
| Heating capacity *3                              | kW                 | 5.0                      | 6.3                                      | 8.0                  | 9.0                    | 10.0               | 12.5                 | 16.0              | 18.0                |  |
| *3                                               | BTU/h              | 17,100                   | 21,500                                   | 27,300               | 30,700                 | 34,100             | 42,700               | 54,600            | 61,400              |  |
| *2 Power input                                   | kW                 | 0.0                      | 55                                       | 0.090                | 0.075                  | 0.090              | 0.1                  | 160               | 0.190               |  |
| *2 Current input<br>(220-230-240 V)              | А                  | 0.41-0.3                 | 39-0.38                                  | 0.64-0.62-0.59       | 0.54-0.52-0.50         | 0.63-0.61-0.58     | 1.05-1.              | 01-0.96           | 1.24-1.19-1.14      |  |
| External finish                                  |                    |                          |                                          |                      | Galvanized             | steel plate        |                      |                   |                     |  |
| External dimension H x W x D                     | mm                 |                          | 380 x 745 x 900                          |                      | 380 x 1,0              | 30 x 900           |                      | 380 x 1,195 x 900 | )                   |  |
|                                                  | in.                | 15 x 29-3/8 x 35-7/16    |                                          |                      | 15 x 40-9/16 x 35-7/16 |                    | 15 x 47-1/16 x 35-7/ |                   | /16                 |  |
| Net weight                                       | kg (lbs.)          |                          | 35 (78)                                  |                      |                        | 45 (100)           |                      | 51 (113)          |                     |  |
| Heat exchanger                                   |                    |                          | Cross fin (Aluminum fin and copper tube) |                      |                        |                    |                      |                   |                     |  |
| Fan Type x Quantity                              |                    |                          | Sirocco fan x 1                          |                      |                        |                    | Sirocco fan x 2      |                   |                     |  |
| *4 External static                               | Pa                 |                          |                                          |                      | 50-<100>-<             | 150>-<200>         |                      |                   |                     |  |
| press.                                           | mmH <sub>2</sub> O | 5.1-<10.2>-<15.3>-<20.4> |                                          |                      |                        |                    |                      |                   |                     |  |
| Motor Type                                       |                    | DC motor                 |                                          |                      |                        |                    |                      |                   |                     |  |
| Motor output                                     | kW                 |                          | 0.121 0.244 0.375                        |                      |                        |                    |                      |                   |                     |  |
| Air flow rate                                    |                    |                          |                                          |                      | (Low-M                 |                    |                      |                   |                     |  |
|                                                  | m³/min             | 10.0-12                  |                                          | 13.5-16.0-19.0       | 15.5-18.0-22.0         |                    |                      | 2.0-38.0          | 28.0-34.0-40.0      |  |
|                                                  | L/s                | 167-20                   | 0-233                                    | 225-267-317          | 258-300-367            | 300-358-417        | 442-53               | 33-633            | 467-567-667         |  |
|                                                  | cfm                | 353-42                   | 24-494                                   | 477-565-671          | 547-636-777            | 636-759-883        | 936-1,1              | 30-1,342          | 989-1,201-<br>1,412 |  |
| Sound pressure level (measured in anechoic room) |                    |                          |                                          |                      | (Low-M                 | id-High)           |                      |                   |                     |  |
| *2                                               | dB <a></a>         | 20-2                     | 3-27                                     | 24-27-32             | 24-26-30               | 25-27-30           | 27-3                 | 31-34             | 27-32-36            |  |
| Air filter                                       |                    | Option:Sy                | nthetic fiber unwo                       | ven cloth filter (lo | ng life filter) and f  | ilter box are reco | mmended.             |                   |                     |  |
| Refrigerant Gas piping diameter (R410A)          | mm (in.)           | 12.7 (1/2                | ) Brazed                                 |                      |                        | 15.88 (5/          | 8) Brazed            |                   |                     |  |
| Liquid<br>(R410A)                                | mm (in.)           | 6.35 (1/4                | ) Brazed                                 |                      |                        | 9.52 (3/8          | 3) Brazed            |                   |                     |  |
| Field drain pipe diameter                        | mm (in.)           |                          |                                          |                      | O.D.32                 | (1-1/4)            |                      |                   |                     |  |

| Model                  |                     |                  |                    | PEFY-P200VMHS-E                                | PEFY-P250VMHS-E                              |  |  |  |
|------------------------|---------------------|------------------|--------------------|------------------------------------------------|----------------------------------------------|--|--|--|
| Power so               | urce                |                  |                    | 1-phase 220-240V 50Hz/1-phase 220-240V 60Hz    |                                              |  |  |  |
| Cooling of             | apacity             | *5               | kW                 | 22.4                                           | 28.0                                         |  |  |  |
|                        |                     | *5               | BTU/h              | 76,400                                         | 95,500                                       |  |  |  |
| Heating of             | apacity             | *5               | kW                 | 25.0                                           | 31.5                                         |  |  |  |
|                        |                     | *5               | BTU/h              | 85,300                                         | 107,500                                      |  |  |  |
| Power                  |                     | Cooling          | kW                 | 0.63 *2                                        | 0.82 *2                                      |  |  |  |
| consump                |                     | Heating          | kW                 | 0.63 *2                                        | 0.82 *2                                      |  |  |  |
|                        | Cooling             | 220-230-240V     | Α                  | 3.47-3.32-3.18 *2                              | 4.72-4.43-4.14 *2                            |  |  |  |
|                        | Heating             | 220-230-240V     | Α                  | 3.47-3.32-3.18 *2                              | 4.72-4.43-4.14 *2                            |  |  |  |
| External t             | inish               |                  |                    | Galvanized                                     | steel plate                                  |  |  |  |
| Dimension H x W x D    |                     |                  | mm                 | 470 x 1,250 x 1,120                            |                                              |  |  |  |
|                        | in                  |                  |                    | 18-9/16 x 49                                   | -1/4 x 44-1/8                                |  |  |  |
| Net weigh              | nt                  |                  | kg (lbs.)          | 97 (214)                                       | 100 (221)                                    |  |  |  |
| Heat excl              | nanger              |                  |                    | Cross fin (Aluminum plate fin and copper tube) |                                              |  |  |  |
| Fan                    | Type x Qua          | ntity            |                    | Sirocco fan x 2                                |                                              |  |  |  |
|                        | Lo-Mid-Hi           |                  | m³/min             | 50.0-61.0-72.0                                 | 58.0-71.0-84.0                               |  |  |  |
|                        | LO-IVIIQ-FII        |                  | L/s                | 833-1017-1200                                  | 967-1183-1400                                |  |  |  |
|                        | Exernal stat        | ic pressure      | Pa                 | <50>-<100>-150                                 | -<200>-<250> *9                              |  |  |  |
|                        | Exemal Stat         | ic pressure      | mmH <sub>2</sub> O | <5.1>-<10.2>-15.3                              | -<20.4>-<25.5> *9                            |  |  |  |
| Motor                  | Туре                |                  |                    | DC r                                           | notor                                        |  |  |  |
|                        | Output              |                  | kW                 | 0.                                             | 87                                           |  |  |  |
| Air filter (           |                     |                  |                    | Synthethic fiber unwoven cloth filter (long    | life filter) and filter box are recommended. |  |  |  |
| Refrigera<br>pipe diam |                     | Gas<br>(Brazing) | mm (in.)           | ø19.05 (ø3/4)                                  | ø22.2 (ø7/8)                                 |  |  |  |
|                        | Liquid<br>(Brazing) |                  | mm (in.)           | ø9.52 (ø3/8)                                   |                                              |  |  |  |
| Field drai             | n pipe diamet       | ter              | mm (in.)           | O.D. 32 (1-1/4)                                |                                              |  |  |  |
| Sound pr               | essure level        | Lo-Mid-Hi        | dB (A)             | 36-39-43 *10                                   | 39-42-46 *10                                 |  |  |  |

#### Notes:

- 1 Nominal cooling conditions Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)

  Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

  1 The values are measured at the factory setting of external static pressure.

  3 Nominal heating conditions Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)

  Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

  4 The factory setting of external static pressure is shown without < >.

  Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
- \*5 Cooling/heating capacity indicates the maximum value at operation under the following condition.

  Cooling Indoor: 27°C(81°F)DB/19°C(66°F)WB, Outdoor: 35°C(95°F)DB

  Heating Indoor: 20°C(68°F)DB, Outdoor: 7°C(45°F)DB/6°C(43°F)WB

  6 The external static pressure is set to 220Pa (at 380V) /260Pa (at 400, 415V) at factory shipment.

  7 The value are that at 415V.

  8 It is measured in anechoic room.

  9 The rated external static pressure is shown without < >.

  The factory setting is the rated value.

  10 It is measured at the rated external static pressure in anechoic room.

#### Fresh air intake type

#### PEFY-P VMHS-E-F

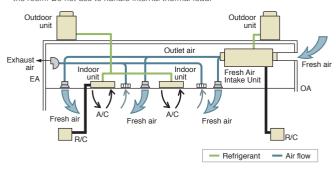




#### **Enables Intake of Outside Air**

Fresh air can be taken in with temperature control. Fresh air intake is available for each air-conditioning zone.

\* Fresh air intake type indoor unit is designed to supply pretreated outside air into the room. Do not use to handle internal thermal load.



#### Flexible Air-Flow Setting

Four levels of external static pressure levels to choose from compared to the three levels on the existing models

| Model                         | P125    | P200        | P250    |
|-------------------------------|---------|-------------|---------|
| External static pressure (Pa) | <100> - | <150> - 200 | - <250> |

<sup>\*</sup>The factory setting of external static pressure is shown without chevrons "<>".

Two types of air-flow modes are available, each of which has three air-flow rates to choose from.

| Mode          | Normal-airflow rate | High-airflow rate |
|---------------|---------------------|-------------------|
| Air-flow rate | Low-Medium-High     | Low-Medium-High   |

<sup>\*</sup>Air-flow rates are accessible from the remote controller.

#### Controllable Outlet Air Temperature

Pre-treating the intake air before being supplied to the room contributes to the stability of room temperature, ensuring optimized comfort of the occupants.

\* Outlet air temperature may fluctuate, depending on the outside air temperature and the operating status of indoor and outdoor units.

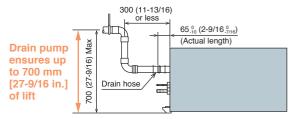
#### Equipped with New Fan Motor

Fan motor has been changed to higher efficiency DC motor. Power source has been changed from three-phase power supply to single-phase power supply, which allows for easier installation.

\* Comparison with PEFY-P140, 200, 250VMH-E-F

#### Drain Pump (Optional)

Greater design flexibility made possible by the increased head height (Max. 700 mm)\*



<sup>\*</sup> Comparison with PEFY-P140, 200, 250VMH-E-F

| Description      | Model          | Applicable capacity |
|------------------|----------------|---------------------|
| Drain pump kit   | PAC-DRP10DP-E2 | P125                |
| Drain pump kit   | PAC-KE06DM-F   | P200, 250           |
| Long life filter | PAC-KE89LAF    | P125                |
| Long life filter | PAC-KE85LAF    | P200, 250           |
| Filter box       | PAC-KE140TB-F  | P125                |
| Filler DOX       | PAC-KE250TB-F  | P200, 250           |

| Model                       |                                | PEFY-P125          | VMHS-E-F                                                           | PEFY-P200                                     | VMHS-E-F                                                           | PEFY-P250\                                    | /MHS-E-F *6                                                                                                       |                                                   |
|-----------------------------|--------------------------------|--------------------|--------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Power source                |                                |                    | 1-phase 220-230                                                    | )-240 V 50/60 Hz                              | 1-phase 220-230                                                    | )-240 V 50/60 Hz                              | 1-phase 220-230                                                                                                   | )-240 V 50/60 Hz                                  |
| Cooling capacity            | *1                             | kW                 | 14                                                                 | .0                                            | 22                                                                 | 2.4                                           | 28                                                                                                                | 3.0                                               |
| (Nominal)                   | *1                             | BTU/h              | 47,                                                                | 800                                           | 76,                                                                | 400                                           | 95,                                                                                                               | 500                                               |
|                             | Power input                    | kW                 | 0.2                                                                | 20                                            | 0.2                                                                | 160                                           | 0.3                                                                                                               | 350                                               |
| *2                          | Current input<br>(220 V)       | Α                  | 1.4                                                                | 43                                            | 1.                                                                 | 66                                            | 2.                                                                                                                | 16                                                |
| Temp. range of cooli        | ing                            |                    | 17°CD.B./15.5°CW.B.  * Thermo-off (FAN-mode outdoor temperature is | ) automatically starts if the                 | 17°CD.B./15.5°CW.B.  * Thermo-off (FAN-mode outdoor temperature is | ) automatically starts if the                 |                                                                                                                   | ~ 43°CD.B./35°CW.B. ) automatically starts if the |
| Heating capacity            | *3                             | kW                 | 8 S                                                                |                                               | 13                                                                 |                                               |                                                                                                                   | 7.4                                               |
| (Nominal)                   | *3                             | BTU/h              | 30,4                                                               |                                               | 47,                                                                |                                               |                                                                                                                   | 400                                               |
| ( /                         | Power input                    | kW                 | 0.2                                                                |                                               | 0.2                                                                |                                               | 0.3                                                                                                               |                                                   |
|                             | Current input                  |                    |                                                                    |                                               |                                                                    |                                               |                                                                                                                   |                                                   |
|                             | (220 V)                        | Α                  | 1.5                                                                | <del></del>                                   | 1.                                                                 |                                               |                                                                                                                   | 38                                                |
| Temp. range of heat         | ing                            |                    | -10°CD.B.  * Thermo-off (FAN-mode outdoor temperature is           | ) automatically starts if the                 | -10°CD.B.  * Thermo-off (FAN-mode outdoor temperature is           | ) automatically starts if the                 | -10°CD.B. ~ 20°CD.B.  * Thermo-off (FAN-mode) automatically starts if outdoor temperature is higher than 20°CD.B. |                                                   |
| External finish             |                                |                    | Galva                                                              | nized                                         | Galva                                                              | inized                                        | Galva                                                                                                             | inized                                            |
| External dimension I        | HxWxD                          | mm                 | 380 x 1,195 x 900                                                  |                                               | 470 x 1,250 x 1,120                                                |                                               | 470 x 1,250 x 1,120                                                                                               |                                                   |
|                             |                                | in.                | 15 x 47-1/16 x 35-7/16                                             |                                               | 18-9/16 x 49-1/4 x 44-1/8                                          |                                               | 18-9/16 x 49-1/4 x 44-1/8                                                                                         |                                                   |
| Net weight                  | Net weight kg (lbs.)           |                    | 49 (109)                                                           |                                               | 78 (                                                               | 172)                                          | 81 (                                                                                                              | 179)                                              |
| Heat exchanger              |                                |                    | Cross fin (Aluminum fin and copper tube)                           |                                               | Cross fin (Aluminum                                                | fin and copper tube)                          | Cross fin (Aluminum fin and copper tube)                                                                          |                                                   |
| FAN                         | Type x Qu                      | antity             | Sirocco fan x 1                                                    |                                               | Sirocco fan x 2                                                    |                                               | Sirocco fan x 2                                                                                                   |                                                   |
| *4, 5                       | External                       | Pa                 | <100> - <150> - 200 - <250>                                        |                                               | <100> - <150> - 200 - <250>                                        |                                               | <100> - <150> - 200 - <250>                                                                                       |                                                   |
|                             | static press.                  | mmH <sub>2</sub> O | <10.2> - <15.3>                                                    | - 20.4 - <25.5>                               | <10.2> - <15.3> - 20.4 - <25.5>                                    |                                               | <10.2> - <15.3> - 20.4 - <25.5>                                                                                   |                                                   |
|                             | Motor Type                     |                    | DC n                                                               | notor                                         | DC motor                                                           |                                               | DC motor                                                                                                          |                                                   |
|                             | Motor output                   | kW                 | 0.2                                                                | :44                                           | 0.375                                                              |                                               | 0.375                                                                                                             |                                                   |
|                             | Driving me                     | chanism            | Direct-driven by motor                                             |                                               | Direct-driven by motor                                             |                                               | Direct-drive                                                                                                      | en by motor                                       |
| *4, 5                       | Air flow rate                  |                    | Normal-airflow rate mode                                           | <high-airflow mode="" rate=""></high-airflow> | Normal-airflow rate mode                                           | <high-airflow mode="" rate=""></high-airflow> | Normal-airflow rate mode                                                                                          | <high-airflow mode="" rate=""></high-airflow>     |
|                             | (Low-Mid-                      | m³/min             | 14.0 - 15.5 - 18.0                                                 | 15.5 - 18.0 - 20.0                            | 22.5 - 25.0 - 28.0                                                 | 25.0 - 28.0 - 32.0                            | 28.0 - 31.0 - 35.0                                                                                                | 31.0 - 35.0 - 40.0                                |
|                             | High)                          | L/s                | 233 - 258 - 300                                                    | 258 - 300 - 333                               | 375 - 417 - 467                                                    | 417 - 467 - 533                               | 467 - 517 - 583                                                                                                   | 517 - 583 - 667                                   |
|                             |                                | cfm                | 494 - 547 - 636                                                    | 547 - 636 - 706                               | 794 - 883 - 989                                                    | 883 - 989 - 1,130                             | 989 - 1,095 - 1,236                                                                                               | 1,095 - 1,236 - 1,412                             |
| Sound pressure level (me    | easured in ane                 | choic room)        | Normal-airflow rate mode                                           | <high-airflow mode="" rate=""></high-airflow> | Normal-airflow rate mode                                           | <high-airflow mode="" rate=""></high-airflow> | Normal-airflow rate mode                                                                                          | <high-airflow mode="" rate=""></high-airflow>     |
| (Low-Mid-High)              |                                | dB <a></a>         | 34-37-41                                                           | 36-40-42                                      | 35-38-41                                                           | 36-39-42                                      | 38-40-44                                                                                                          | 38-41-45                                          |
| Air filter                  |                                |                    | Option: Synthetic fiber unwov                                      | ven cloth filter (long life filter).          | Option: Synthetic fiber unwo                                       | ven cloth filter (long life filter).          | Option: Synthetic fiber unwo                                                                                      | ven cloth filter (long life filter).              |
| Refrigerant piping diameter | Liquid<br>(R410A)              | mm (in.)           | 9.52 (3/8                                                          | ) Brazed                                      | 9.52 (3/8                                                          | ) Brazed                                      | 9.52 (3/8) Brazed                                                                                                 |                                                   |
|                             | Gas<br>(R410A)                 | mm (in.)           | 15.88 (5/8                                                         | B) Brazed                                     | 19.05 (3/4) Brazed                                                 |                                               | 22.22 (7/8) Brazed                                                                                                |                                                   |
| Field drain pipe size       |                                | mm (in.)           | O.D.32                                                             | (1-1/4)                                       | O.D.32 (1-1/4)                                                     |                                               | O.D.32                                                                                                            | (1-1/4)                                           |
| Optional parts              | Drain pum                      |                    | PAC-DRF                                                            |                                               | PAC-KE                                                             |                                               | PAC-KE                                                                                                            |                                                   |
|                             |                                |                    |                                                                    |                                               |                                                                    |                                               | PAC-KI                                                                                                            |                                                   |
|                             | Long life filter<br>Filter box |                    | PAC-KE89LAF<br>PAC-KE140TB-F                                       |                                               | PAC-KE85LAF<br>PAC-KE250TB-F                                       |                                               | PAC-KE250TB-F                                                                                                     |                                                   |

#### Notes:

- Cooling capacity indicates the maximum value at operation under the following condition. Cooling: Indoor 33°CDB/28°CWB, Outdoor 33°CDB. The set temperature of the remote controller is 18°C.
- The value are measured at the factory setting of airflow mode and external static pressure.
- The value are inequations setting of airflow mode and external static pressure in the value and external static pressure. The set temperature of the remote controller is 25°C.

  The factory setting of airflow mode and external static pressure mode is shown without < >. Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of airflow mode and external static pressure.
- \*6 Regarding P250VMHS-E-F, the middle notch air flow rate is different from the spec value when the external static pressure setting is set to 100Pa. See "Fan characterics curves" in DATA BOOK for the details.
- The combination of fresh air intake type indoor units with other types of indoor units to handle internal thermal load which may cause the conflict of operation mode. It is not recommended when fresh air intake type
- indoor unit is connected to the Y or WY series.

   Depending on the air conditioning load, outside temperature, and due to the activation of protection functions, the desired preset temperature may not always be achieved and the discharge temperature may swing. Note that untreated outside air may be delivered directly into the room upon the activation of protection functions.
- Fresh air intake type indoor units cannot be connected to PUMY and cannot be connected to an outdoor unit together with PWFY series
   The maximum connectable indoor units to 1 outdoor unit are 110% (100% in case of heating below -5°C).
- When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit • The AUTO mode on the local remote controller is available only when fresh air intake type indoor unit is connected to the R2 or WR2 series of outdoor unit.
- The system changeover function is available only when all the connected indoor units are fresh air intake type indoor units.
- The fan temporary stops during defrost.

  The fan temporary stops during defrost.

  The actual capacity characteristics vary with the combination of indoor and outdoor units. See the technical information in DATA BOOK for the details.
- Thermo off (Fan) operation automatically starts either when temperature is lower than 17°CDB in cooling mode or when the temperature exceeds 20°CDB in heating mode.
  Dry mode is not available.
  When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode.

- Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation. Please be careful when positioning indoor unit air outlet grilles, ie take the necessary precautions for cold air, and also insulate rooms for dew condensation prevention as required.

   Air filter must be installed in the air intake side. The filter should be attached where easy maintenance is possible in case of usage of field supply filters.

#### Fresh air intake type

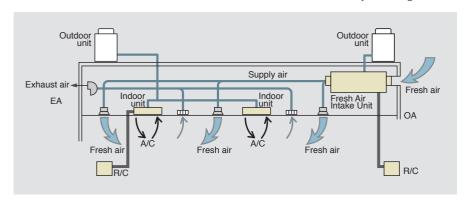
#### PEFY-P VMH-E-F





#### Example design for an outside air treatment unit system

The Fresh Air intake indoor unit can take fresh outdoor air into any building.



[Recommended application]
Office, Lobby, Workshop,
Restroom, Nursing home,
Smoking corner,
Kitchen in a restaurant

#### Applications across a wide range of design

Sufficient external static pressure (up to 240 Pa) enables designs with long ducts and expands design possibilities.

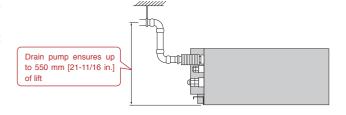
| PEFY-P VMH-E-F  |       | P80                | P140                |  |
|-----------------|-------|--------------------|---------------------|--|
|                 | 208 V | <35> - 85 - <170>  | <35> - 85 - <170>   |  |
| External static | 220 V | <40> - 115 - <190> | <50> - 115 - <190>  |  |
| pressure (Pa)   | 230 V | <50> - 130 - <210> | <60> - 130 - <220>  |  |
|                 | 240 V | <80> - 170 - <220> | <100> - 170 - <240> |  |

<sup>\*</sup>The factory setting for external static pressure is shown without "<>".

Refer to "Fan characteristics curves", according to the external static pressure, in the DATA BOOK for the usable range of the air flow rate.

#### Drain pump (option) ensures up to 550 mm [21-11/16 in.] of lift

The introduction of an upper drain pump allows the drain connection to be raised as high as 550 mm [21-11/16 in.], allowing more freedom in piping layout design and reducing horizontal piping requirements.



| Description                       | Model         | Applicable capacity |
|-----------------------------------|---------------|---------------------|
| Long life filter                  | PAC-KE88LAF   | P80                 |
| Long me miler                     | PAC-KE89LAF   | P140                |
| Filter hav                        | PAC-KE80TB-F  | P80                 |
| Filter box                        | PAC-KE140TB-F | P140                |
| Drain pump PAC-KE04DM-F P80, P140 |               | P80, P140           |

| -                      |                                 |           |            |                                                                                                                   |                                                                                                                                         |  |  |
|------------------------|---------------------------------|-----------|------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Model                  |                                 |           |            | PEFY-P80VMH-E-F                                                                                                   | PEFY-P140VMH-E-F                                                                                                                        |  |  |
| Power sou              | urce                            |           |            | 1-phase 220-240V 50Hz                                                                                             | / 1-phase 208-230V 60Hz                                                                                                                 |  |  |
| Cooling ca             | apacity                         | *1        | kW         | 9.0                                                                                                               | 16.0                                                                                                                                    |  |  |
|                        |                                 | *1        | BTU/h      | 30,700                                                                                                            | 54,600                                                                                                                                  |  |  |
| Temp. ran              | ige of cooling                  |           |            | * Thermo-off (FAN-mode) automatically                                                                             | 21°CD.B./15.5°CW.B. ~ 43°CD.B./35°CW.B.  * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is lower than 21°CD.B. |  |  |
| Heating ca             | apacity                         | *1        | kW         | 8.5                                                                                                               | 15.1                                                                                                                                    |  |  |
|                        |                                 | *1        | BTU/h      | 29,000                                                                                                            | 51,500                                                                                                                                  |  |  |
| Temp. ran              | ige of heating                  |           |            | -10°CD.B. ~ 20°CD.B.  * Thermo-off (FAN-mode) automatically starts if the outdoor temperature is hi than 20°CD.B. |                                                                                                                                         |  |  |
| Power cor              | nsumption                       | Cooling   | kW         | 0.16 / 0.21                                                                                                       | 0.29 / 0.33                                                                                                                             |  |  |
|                        |                                 | Heating   | kW         | 0.16 / 0.21                                                                                                       | 0.29 / 0.33                                                                                                                             |  |  |
| Current                |                                 | Cooling   | Α          | 0.67 / 0.91                                                                                                       | 1.24 / 1.48                                                                                                                             |  |  |
|                        |                                 | Heating   | Α          | 0.67 / 0.91                                                                                                       | 1.24 / 1.48                                                                                                                             |  |  |
| External fi            | inish                           |           |            | Galvanized                                                                                                        |                                                                                                                                         |  |  |
| Dimension<br>H x W x D |                                 |           | mm (in.)   | 380 x 1,000 x 900<br>(15 x 39-3/8 x 35-7/16)                                                                      | 380 x 1,200 x 900<br>(15 x 47-1/4 x 35-7/16)                                                                                            |  |  |
| Net weigh              | it                              |           | kg (lbs)   | 50 (111)                                                                                                          | 67 (148)                                                                                                                                |  |  |
| Heat exch              | nanger                          |           |            | Cross fin (Aluminum plate fin and copper tube)                                                                    |                                                                                                                                         |  |  |
| Fan                    | Type x Quar                     | itity     |            | Sirocco fan x 1                                                                                                   | Sirocco fan x 2                                                                                                                         |  |  |
|                        | Airflow rate                    |           | m³/min     | 9.0                                                                                                               | 18.0                                                                                                                                    |  |  |
|                        |                                 |           | L/s        | 150                                                                                                               | 300                                                                                                                                     |  |  |
|                        |                                 |           | cfm        | 318                                                                                                               | 636                                                                                                                                     |  |  |
|                        | External                        | 208V      | Pa         | <35> - 85 - <170>                                                                                                 | <35> - 85 - <170>                                                                                                                       |  |  |
|                        | static                          | 220V      | Pa         | <40> - 115 - <190>                                                                                                | <50> - 115 - <190>                                                                                                                      |  |  |
|                        | pressure<br>*3                  | 230V      | Pa         | <50> - 130 - <210>                                                                                                | <60> - 130 - <220>                                                                                                                      |  |  |
|                        | 3                               | 240V      | Pa         | <80> - 170 - <220>                                                                                                | <100> - 170 - <240>                                                                                                                     |  |  |
| Motor                  | Туре                            |           |            | 1-phase ind                                                                                                       | uction motor                                                                                                                            |  |  |
|                        | Output                          |           | kW         | 0.09 (220V, 115Pa)                                                                                                | 0.14 (220V, 115Pa)                                                                                                                      |  |  |
| Air filter (c          | option)                         |           |            | Synthetic fiber unwove                                                                                            | en cloth filter (long life)                                                                                                             |  |  |
| Refrigerar             | nt pipe diamete                 | r Gas     | mm (in.)   | ø15.88 (ø                                                                                                         | 5/8) Flare                                                                                                                              |  |  |
|                        |                                 | Liquid    | mm (in.)   | ø9.52 (ø3/8) Flare                                                                                                |                                                                                                                                         |  |  |
| Field drain            | n pipe diameter                 |           | mm (in.)   | O.D.32                                                                                                            | (1-1/4)                                                                                                                                 |  |  |
| Sound pre              |                                 | 230, 220V | dB <a></a> | 38                                                                                                                | 38                                                                                                                                      |  |  |
| (measure<br>room) *2 * | d in anechoic<br><sup>4</sup> 4 | 230, 240V | dB <a></a> | 43                                                                                                                | 43                                                                                                                                      |  |  |

#### Notes:

\*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.

|         | Indoor                            | Outdoor                        | Pipe length        | Level difference |
|---------|-----------------------------------|--------------------------------|--------------------|------------------|
| Cooling | 33°CDB/28°CWB<br>(91°FDB/82°FWB)  | 33°CDB (91°FDB)                | 7.5 m (24-9/16 ft) | 0m (0ft.)        |
| Heating | 0°CDB/-2.9°CWB<br>(32°FDB/27°FWB) | 0°CDB/-2.9°CWB (32°FDB/27°FWB) | 7.5 m (24-9/16 ft) | 0m (0ft.)        |

- \*2 The values are measured at the factory setting of external static pressure.
   The figure of Electrical characteristic indicates at 240V 50Hz/Z30V 60Hz (PEFY-P80, 140VMH-E-F type).
   \*3 The factory setting of external static pressure is shown without <>.
- Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

  \*4 Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.
- Depending on the air conditioning load, outside temperature, and due to the activation of protection functions, the outlet air temperature may swing. Note that untreated outside air may be delivered directly into the room upon the activation of protection functions.
   The maximum connectable indoor units to 1 outdoor unit are 110% (100% in case of heating below -5°C).
- When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit capacity.
- Either a remote controller (sold separately) or a remote sensor (sold separately) must be installed to monitor the room temperature.
- The AUTO mode on the local remote controller is available only when fresh air intake type indoor unit is connected to the R2 or WR2 series of outdoor unit.
   The system changeover function is available only when all the connected indoor units are fresh air intake type indoor units.
   The fan temporary stops during defrost.

- Dry mode is not available.
  In any case, the air flow rate should be kept lower than 110% of the above chart. Please see "Fan characteristics curves" in DATA BOOK for the details.
  When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode.
- Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation.

  Please be careful when positioning indoor unit air outlet grilles, ie take the necessary precautions for cold air, and also insulate rooms for dew condensation prevention as required.

  Air filter must be installed in the air intake side. The filter should be attached where easy maintenance in possible in case of usage of field supply filters.

#### Ceiling suspended type

#### PCFY-P VKM-E

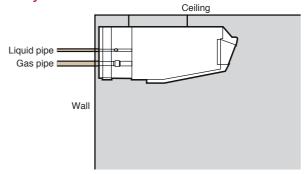








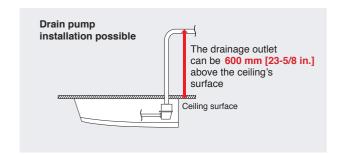
#### Easy installation



The ceiling suspended cassette can easily be installed without requiring duct work, even if the ceiling does not have sufficient space.

#### Drain pump is available for all models

The optional drain pump allows the drain connection to be raised as high as 600mm [23-5/8 in.], expanding flexibility in choosing the unit's location.





# 230 mm [9-1/16 in.] high unit is designed in consideration of interior design coordination



Sleek and slim with stylishly curved lines, the PCFY-Series is designed to blend into interior.

#### **Auto Vane Control**

Outlet vanes can be moved up and down using the remote controller. This improved airflow control feature solves the problem of drafts.



#### Equipped with automatic air-speed adjustment

In addition to the conventional 4-speed settings, units are now equipped with an automatic air-speed adjustment mode. This setting automatically adjusts the air-speed to conditions that match the room environment. At the start of heating/cooling operation, the airflow is set to high-speed to quickly heat/cool the room. When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable comfortable heating/cooling operation.



| Description                    | Model        | Applicable capacity |
|--------------------------------|--------------|---------------------|
| Drain pump kit                 | PAC-SH83DM-E | P40                 |
| Drain pump kit                 | PAC-SH84DM-E | P63, 100, 125       |
|                                | PAC-SH88KF-E | P40                 |
| High efficiency filter         | PAC-SH89KF-E | P63                 |
|                                | PAC-SH90KF-E | P100, 125           |
| Wireless remote controller kit | PAR-SL94B-E  | P40, 63, 100, 125   |

| Model                  |                           |                   |           | PCFY-P40VKM-E                            | PCFY-P63VKM-E                   | PCFY-P100VKM-E                      | PCFY-P125VKM-E    |  |
|------------------------|---------------------------|-------------------|-----------|------------------------------------------|---------------------------------|-------------------------------------|-------------------|--|
| Power so               | ource                     |                   |           |                                          | 1-phase 220-240V 50H            | Iz/1-phase 220V 60Hz                |                   |  |
| Cooling                | capacity                  | *1                | kW        | 4.5                                      | 7.1                             | 11.2                                | 14.0              |  |
|                        |                           | *1                | BTU/h     | 15,400                                   | 24,200                          | 38,200                              | 47,800            |  |
| Heating                | capacity                  | *1                | kW        | 5.0                                      | 8.0                             | 12.5                                | 16.0              |  |
|                        |                           | *1                | BTU/h     | 17,100                                   | 27,300                          | 42,700                              | 54,600            |  |
| Power                  |                           | Cooling           | kW        | 0.04                                     | 0.05                            | 0.09                                | 0.11              |  |
| consump                | otion                     | Heating           | kW        | 0.04                                     | 0.05                            | 0.09                                | 0.11              |  |
| Current                |                           | Cooling           | Α         | 0.28                                     | 0.33                            | 0.65                                | 0.76              |  |
|                        |                           | Heating           | Α         | 0.28                                     | 0.33                            | 0.65                                | 0.76              |  |
| External               | finish (Mur               | nsell No.)        |           |                                          | 6.4Y 8                          | .9/ 0.4                             |                   |  |
| Dimension              | on H x W x                | D                 | mm        | 230 x 960 x 680                          | 230 x 1,280 x 680               | 230 x 1,600 x 680                   |                   |  |
|                        |                           |                   | in.       | 9-1/16 x 37-13/16 x 26-3/4               | 9-1/16 x 50-3/8 x 26-3/4        | 0-3/8 x 26-3/4 9-1/16 x 63 x 26-3/4 |                   |  |
| Net weig               | ht                        |                   | kg (lbs.) | 24 (53)                                  | 32 (71)                         | 36 (79)                             | 38 (84)           |  |
| Heat exc               | hanger                    |                   |           | Cross fin (Aluminum fin and copper tube) |                                 |                                     |                   |  |
| Fan                    | Type x Quantity           |                   |           | Sirocco fan x 2                          | Sirocco fan x 3 Sirocco fan x 4 |                                     |                   |  |
|                        | Airflow ra                | ate *2            | m³/min    | 10-11-12-13                              | 14-15-16-18                     | 21-24-26-28                         | 21-24-27-31       |  |
|                        | (Lo-Mid2                  | (Lo-Mid2-Mid1-Hi) |           | 167-183-200-217                          | 233-250-267-300                 | 350-400-433-467                     | 350-400-450-517   |  |
|                        |                           |                   | cfm       | 353-388-424-459                          | 494-530-565-636                 | 742-847-918-989                     | 742-847-953-1,095 |  |
|                        | External s                | tatic pressure    | Pa        |                                          | Ö                               |                                     |                   |  |
| Motor                  | Туре                      |                   |           |                                          | DC m                            | notor                               |                   |  |
|                        | Output                    |                   | kW        | 0.090                                    | 0.095                           | 0.1                                 | 60                |  |
| Air filter             |                           |                   |           | PP Honeycomb (long life)                 |                                 |                                     |                   |  |
| Refrigera<br>pipe diar |                           | Gas<br>(Flare)    | mm (in.)  | ø12.7 (ø1/2)                             |                                 | ø15.88 (ø5/8)                       |                   |  |
|                        |                           | Liquid<br>(Flare) | mm (in.)  | ø6.35 (ø1/4)                             |                                 | ø9.52 (ø3/8)                        |                   |  |
| Field dra              | in pipe dia               | meter             | mm (in.)  |                                          | O.D. 26 (1)                     |                                     |                   |  |
| Sound p                | ressure lev<br>2-Mid1-Hi) |                   | dB (A)    | 29-32-34-36                              | 31-33-35-37                     | 36-38-41-43                         | 36-39-42-44       |  |

<sup>\*1</sup> Cooling/Heating capacity indicates the maximum value at operation under the following condition.

Cooling Indoor: 27°C(80.6°F)DB/19°C(66.2°F)WB, Outdoor 35°C(96°F)DB

Heating Indoor: 20°C(68°F)DB, Outdoor 7°C(44.6°F)DB/6°C(42.8°F)WB

\*2 Airflw rate/Sound pressure level are shown in (low-middle 2-middle 1-high).

\*3 It is measured in anechoic room.

#### Wall-mounted type

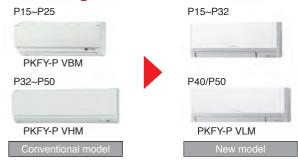
#### PKFY-P VLM-E PKFY-P VKM-E





PKFY-P VKM

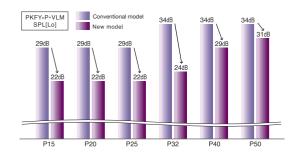
#### New design that matches the room's interior (VLM model)



A sharp and simple form that combines beauty and function. The simple square design harmonizes beautifully with the straight lines created by the intersection of the walls, floor and ceiling. Also adopted a new white body color. It will make your life and space beautiful and comfortable without disturbing the atmosphere of the room.

#### Low noise

The noise level has been reduced compared to the conventional model (PKFY-P VBM/VHM) by improving the unit structure such as the line flow fan.



- \* Measurement condition (Fan speed: Low)
- \* It is measured in anehoic room

#### Improved Airflow control

Fan speed and Vane control

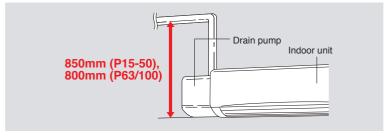
The new model (VLM) can set the fan speed to 4 steps and auto mode. Also, the vane angle can be set to 5 steps. This has enabled air conditioning to be tailored to your taste.

|                 | Conventional |                          |             |  |                       |
|-----------------|--------------|--------------------------|-------------|--|-----------------------|
|                 |              | PKFY-P**VBM              | PKFY-P**VHM |  | PKFY-P**VLM-E         |
| Fan Speed       |              | 4 speeds 3 speeds + AUTO |             |  | 4 speeds<br>+<br>AUTO |
| Vane<br>Control | Vane Angle   | 4 steps                  | 5 steps     |  | 5 steps               |
|                 | Swing mode   | _                        | ~           |  | ~                     |

#### Drain pump option

The optional drain pump allows the drain connection to be raised as high as 850mm (P15-50), 800mm (P63/100), allowing more flexible in piping level design.

allowing more flexible in piping layout design.



| Description      | Model                                | Applicable capacity     |
|------------------|--------------------------------------|-------------------------|
| External LEV Box | al LEV Box PAC-SG95LE-E P15, 20, 25, |                         |
| Drain numn kit   | PAC-SK01DM-E                         | P15, 20, 25, 32, 40, 50 |
| Drain pump kit   | PAC-SH94DM-E                         | P63,100                 |

| Model                                     |                            | PKFY-P15VLM-E                                   | PKFY-P20VLM-E   | PKFY-P25VLM-E   | PKFY-P32VLM-E   | PKFY-P40VLM-E    | PKFY-P50VLM-E     |  |  |
|-------------------------------------------|----------------------------|-------------------------------------------------|-----------------|-----------------|-----------------|------------------|-------------------|--|--|
| Power source                              |                            | 1-phase 220-240 V 50 Hz, 1-phase 220-230 V 60Hz |                 |                 |                 |                  |                   |  |  |
| Cooling capacity                          | *1 kW                      | 1.7                                             | 2.2             | 2.8             | 3.6             | 4.5              | 5.6               |  |  |
| (Nominal)                                 | *1 BTU/h                   | 5,800                                           | 7,500           | 9,600           | 12,300          | 15,400           | 19,100            |  |  |
| Power input                               | kW                         | 0.02                                            | 0.02            | 0.03            | 0.04            | 0.04             | 0.05              |  |  |
| Current input                             | A                          | 0.20                                            | 0.20            | 0.25            | 0.35            | 0.35             | 0.45              |  |  |
| Heating capacity                          | *2 kW                      | 1.9                                             | 2.5             | 3.2             | 4.0             | 5.0              | 6.3               |  |  |
| (Nominal)                                 | *2 BTU/h                   | 6,500                                           | 8,500           | 10,900          | 13,600          | 17,100           | 21,500            |  |  |
| Power input                               | kW                         | 0.01                                            | 0.01            | 0.02            | 0.03            | 0.03             | 0.04              |  |  |
| Current input                             | A                          | 0.15                                            | 0.15            | 0.20            | 0.30            | 0.30             | 0.40              |  |  |
| External finish (Munsell No.)             |                            |                                                 |                 | Plastic (0.7    | PB 9.2/0.4)     |                  |                   |  |  |
| External dimension                        | mm                         |                                                 | 299 x 77        |                 |                 |                  | 98 x 237          |  |  |
| H x W x D                                 | in.                        |                                                 | 11-25/32 x 30-  | -7/16 x 9-11/32 |                 | 11-25/32 x 35    | -3/8 x 9-11/32    |  |  |
| Net weight                                | kg (lbs.)                  |                                                 | 11 (            |                 |                 | 13               | (29)              |  |  |
| Heat exchanger                            |                            | Cross fin (Aluminum fin and copper tube)        |                 |                 |                 |                  |                   |  |  |
| Fan Type x Quantity                       |                            | Line flow fan x 1                               |                 |                 |                 |                  |                   |  |  |
| External static pre                       | ss Pa (mmH <sub>2</sub> O) | 0 (0)                                           |                 |                 |                 |                  |                   |  |  |
| Motor type                                |                            | DC motor                                        |                 |                 |                 |                  |                   |  |  |
| Motor output                              | kW                         | 0.03                                            |                 |                 |                 |                  |                   |  |  |
| Driving mechanisi                         |                            |                                                 | Direct driven   |                 |                 |                  |                   |  |  |
| Airflow rate                              | m³/min                     | 4.0-4.2-4.4-4.7                                 | 4.0-4.4-4.9-5.4 | 4.0-4.6-5.4-6.7 | 4.3-5.4-6.9-8.4 | 6.3-7.4-8.6-10.0 | 6.8-8.3-10.2-12.4 |  |  |
| (Lo-Mid2-Mid1-Hi                          |                            | 67-70-73-78                                     | 67-73-82-90     | 67-77-90-112    | 72-90-115-140   | 105-123-143-167  | 113-138-170-207   |  |  |
|                                           | cfm                        | 141-148-155-166                                 | 141-155-173-191 | 141-162-191-237 | 152-191-244-297 | 222-261-304-353  | 240-293-360-438   |  |  |
| Noise level<br>(measured in anechoic room | dB (A)                     | 22-24-26-28                                     | 22-26-29-31     | 22-27-31-35     | 24-31-37-41     | 29-34-37-40      | 31-36-41-46       |  |  |
| Insulation material                       |                            |                                                 |                 | Polyethyle      | ene sheet       |                  |                   |  |  |
| Air filter                                |                            | PP honeycomb                                    |                 |                 |                 |                  |                   |  |  |
| Protection device                         |                            | Fuse                                            |                 |                 |                 |                  |                   |  |  |
| Refrigerant control device                |                            | LEV                                             |                 |                 |                 |                  |                   |  |  |
| Refrigerant piping Liquid (Flare)         | mm (in.)                   |                                                 | ø6.35 (ø1/4)    |                 |                 |                  |                   |  |  |
| Gas<br>(Flare)                            | mm (in.)                   |                                                 | ø12.7 (ø1/2)    |                 |                 |                  |                   |  |  |
| Field drain pipe diameter                 | mm (in.)                   |                                                 |                 | I.D.16          | 6 (5/8)         |                  |                   |  |  |
|                                           | PUMP KIT                   |                                                 |                 | PAC-SK          |                 |                  |                   |  |  |
| EXTER                                     | IAL LEV BOX                |                                                 |                 | PAC-SG          | 95LE-E          |                  |                   |  |  |

#### Notes:

- \*1 Nominal cooling conditions (subject to JIS B8615-1) Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor 35°CD.B. (95°FD.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.) 
  \*2 Nominal heating conditions (subject to JIS B8615-1) Indoor: 20°CD.B. (68°FD.B.), Outdoor 7°CD.B./6°CW.B (45°FD.B./43°FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Model PKFY-P63VKM-E PKFY-P100VKM-E 1-phase 220-240V 50Hz, 1-phase 220V 60Hz Power source Cooling capacity kW 7.1 11.2 (Nominal) BTU/h 24,200 38,200 Power input kW 0.05 0.08 Current input (220V) 0.37 Heating capacity kW 8.0 12.5 (Nominal) BTU/h 27,300 42.600 Power input Current input 0.04 kW 0.07 0.51 (220V) 0.30 Α External finish (Munsell No.) Plastic, MUNSELL (1.0Y 9.2/0.2) External dimension H x W x D 365x1170x295 14-3/8 x 46-1/16 x 11-5/8 Net weight kg (lbs.) 21(46) Cross fin (Aluminum fin and copper tube) Heat exchanger Type x Quantity Line flow fan x 1 External static press Pa (mmH<sub>2</sub>O) 0 (0) DC motor Motor type Motor output kW 0.056 Driving mechanism Direct-drive Airflow rate m³/min 16-20 20-26 (Low-High) L/s cfm 706-918 Sound pressure level (measured in anechoic room) 39-45 41-49 Insulation material Polyethylene sheet Air filter PP honeycomb Protection device Fuse Refrigerant control device Refrigerant piping Liquid (Flare) ø9.52 (ø3/8) diameter ø15.88 (ø5/8) (Flare) Field drain pipe diame I.D.16 (5/8) DRAIN PUMP KIT PAC-SH94DM-E Optional parts PAC-SG95LE-E EXTERNAL LEV BOX

#### Notes:

- \*1 Nominal cooling conditions (subject to JIS B8615-1) Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor 35°CD.B. (95°FD.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.) 
  \*2 Nominal heating conditions (subject to JIS B8615-1) Indoor: 20°CD.B. (68°FD.B.), Outdoor 7°CD.B./6°CW.B (45°FD.B./43°FW.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

## **MSXY-FN SERIES**



MSXY-FN10/13/18VE

Dimension (W x D x H): 799 x 232 x 290 mm



MSXY-FN24VE

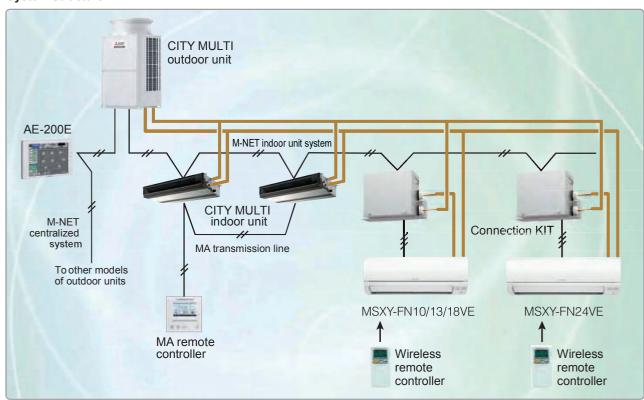
Dimension (W x D x H): 923 x 250 x 305 mm

Starmex Indoor Units with LEV kit / Branch Box for residential uses.





#### **System Structure**



\*Refer to the relevant manuals for detailed information and restrictions

| Model-Indoor Unit         |                   | MSXY-FN10VE | MSXY-FN13VE     | MSXY-FN18VE | MSXY-FN24VE     |
|---------------------------|-------------------|-------------|-----------------|-------------|-----------------|
| Rated Capacity            | kW                | 2.8         | 3.5             | 5.0         | 7.1             |
| Power Input               | kW                | 0.028       | 0.036           | 0.042       | 0.059           |
| Running Current           | Running Current A |             | 0.33            | 0.38        | 0.52            |
| Airflow Rate              | m³/min            | 12.9        | 14.1            | 14.8        | 19.9            |
| Sound Level*              | dB(A)             | 19-45       | 19-47           | 28-49       | 30-50           |
| Dimension (W x D x H)     | mm                |             | 799 x 232 x 290 |             | 923 x 250 x 305 |
| Net Weight                | Kg                |             | 9               |             |                 |
| External Diameter Gas (φ) | L/s               | 9.52        |                 | 12.70       | 15.88           |
| Piping Liquid (φ)         | cfm               | 6.35        |                 |             | 9.52            |

- \*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.

  Cooling Indoor: 27°C(81°F)DB/19°C(86°F)WB,Outdoor 35°C(95°F)DB

  Heating Indoor: 20°C(88°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

  2 Airflow rate/Sound pressure level are in (low-middle2-middle1-high).

  3 It is measured in anechoic room.

  4 Electrical characteristic of cooling are included optional drain-pump.

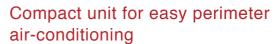
### **Specifications**

| Model                        |                   |           | PAC-LV11M-J                                 |  |  |  |
|------------------------------|-------------------|-----------|---------------------------------------------|--|--|--|
| Power source                 |                   |           | Single / 220-240V / 50-Hz                   |  |  |  |
| Connectable Num              | ber of Indoor     | Unit      | 1                                           |  |  |  |
| External finish              |                   |           | Galvanized steel sheet (No external finish) |  |  |  |
| Dimension H x W x D mm (in.) |                   | mm (in.)  | 183 x 355 x 142                             |  |  |  |
| Net weight                   |                   | kg (lbs.) | 3.5                                         |  |  |  |
| Refrigerant pipe diameter    | Gas<br>(Flare)    | mm (in.)  | <u>.</u>                                    |  |  |  |
|                              | Liquid<br>(Flare) | mm (in.)  | 6.35 Brazed                                 |  |  |  |
| Wiring                       | To Outdo          | or Unit   | 2-core shield cable                         |  |  |  |

## Floor standing exposed type

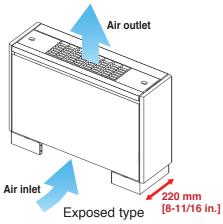
### PFFY-P VLEM-E





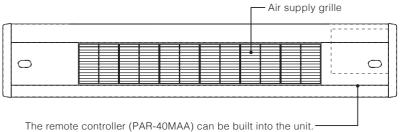
The compact body depth of 220 mm [8-11/16 in.] can be easily installed in a perimeter zone for effective air-conditioning.

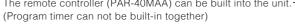




#### Remote controller can be installed on the main unit

The remote controller can be embedded in the main unit, allowing temperature and air volume to be easily set.







PAR-40MAA

| Model                     |                               |                             |          | PFFY-P20VLEM-E                                 | PFFY-P25VLEM-E         | PFFY-P32VLEM-E                                                                                                  | PFFY-P40VLEM-E           | PFFY-P50VLEM-E    | PFFY-P63VLEM-E               |  |
|---------------------------|-------------------------------|-----------------------------|----------|------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------|-------------------|------------------------------|--|
| Power s                   | Power source                  |                             |          | 1-phase 220-240V 50Hz/1-phase 208-230V 60Hz    |                        |                                                                                                                 |                          |                   |                              |  |
| Cooling                   | capacity                      | *1                          | kW       | 2.2 2.8                                        |                        | 3.6                                                                                                             | 4.5                      | 5.6               | 7.1                          |  |
|                           |                               | *1                          | BTU/h    | 7,500                                          | 9,600                  | 12,300                                                                                                          | 15,400                   | 19,100            | 24,200                       |  |
| Heating                   | capacity                      | *1                          | kW       | 2.5                                            | 3.2                    | 4.0                                                                                                             | 5.0                      | 6.3               | 8.0                          |  |
|                           |                               | *1                          | BTU/h    | 8,500                                          | 10,900                 | 13,600                                                                                                          | 17,100                   | 21,500            | 27,300                       |  |
| Power                     |                               | Cooling                     | kW       | 0.04                                           | /0.06                  | 0.06/0.07                                                                                                       | 0.065/0.075              | 0.085/0.09        | 0.1/0.11                     |  |
| consum                    | ption                         | Heating                     | kW       | 0.04                                           | /0.06                  | 0.06/0.07                                                                                                       | 0.065/0.075              | 0.085/0.09        | 0.1/0.11                     |  |
| Current                   |                               | Cooling                     | Α        | 0.19                                           | 0.25                   | 0.29/0.30                                                                                                       | 0.32/0.33                | 0.40/0.41         | 0.46/0.47                    |  |
|                           |                               | Heating                     | Α        | 0.19                                           | /0.25                  | 0.29/0.30                                                                                                       | 0.32/0.33                | 0.40/0.41         | 0.46/0.47                    |  |
| External                  | External finish (Munsell No.) |                             |          |                                                | Acrylic paint (5Y 8/1) |                                                                                                                 |                          |                   |                              |  |
| Dimensi                   | Dimension H x W x D mm        |                             |          | 630 x 1,050 x 220                              |                        | 630 x 1,170 x 220                                                                                               |                          | 630 x 1,410 x 220 |                              |  |
|                           | in.                           |                             |          | 24-13/16 x 41-3/8 x 8-11/16                    |                        | 24-13/16 x 46-1/8 x 8-11/16                                                                                     |                          | 24-13/16 x 55-    | 24-13/16 x 55-9/16 x 8-11/16 |  |
| Net weig                  | Net weight kg (lbs.)          |                             |          | 28 (62)                                        |                        | 30 (67)                                                                                                         | 32 (71)                  | 36 (80)           | 37 (82)                      |  |
| Heat exc                  | Heat exchanger                |                             |          | Cross fin (Aluminum plate fin and copper tube) |                        |                                                                                                                 |                          |                   |                              |  |
| Fan                       | Type x C                      |                             |          | Sirocco                                        | fan x 1                |                                                                                                                 | Sirocco fan x 2          |                   |                              |  |
|                           | Airflow r                     | ate *2                      | m³/min   | 5.5-6.5                                        |                        | 7.0-9.0                                                                                                         | 9.0-11.0                 | 12.0-14.0         | 12.0-15.5                    |  |
|                           | (Lo-Hi)                       |                             | L/s      | 92-108                                         |                        | 117-150                                                                                                         | 150-183                  | 200-233           | 200-258                      |  |
|                           |                               |                             |          | 194-230                                        |                        | 247-318                                                                                                         | 318-388                  | 424-494           | 424-547                      |  |
|                           | External s                    | External static pressure Pa |          | 0                                              |                        |                                                                                                                 |                          |                   |                              |  |
| Motor                     | Type                          |                             |          |                                                |                        | 1-phase ind                                                                                                     | uction motor             |                   |                              |  |
|                           | Output                        |                             | kW       | 0.015                                          |                        | 0.018                                                                                                           | 0.030                    | 0.035             | 0.050                        |  |
| Air filter                |                               |                             |          | PP Honeycomb fabric (washable)                 |                        |                                                                                                                 |                          |                   |                              |  |
| Refrigerant pipe diameter |                               | Gas<br>(Flare)              | mm (in.) |                                                |                        | ø12.7 (ø1/2)                                                                                                    |                          |                   | ø15.88 (ø5/8)                |  |
|                           |                               | Liquid<br>(Flare)           | mm (in.) |                                                |                        | ø6.35 (ø1/4)                                                                                                    |                          |                   | ø9.52 (ø3/8)                 |  |
| Field dra                 | ain pipe dia                  | meter                       | mm (in.) |                                                | I.D.26 (1)             | <accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16) )&gt;</td><td></td></accessory> | 27 (1-3/32) (top end :20 | (13/16) )>        |                              |  |
| Sound p                   | ressure lev                   | vel<br>*2 *3 *4             | dB (A)   | 34                                             | -40                    | 35-40                                                                                                           | 38-                      | -43               | 40-46                        |  |

<sup>\*\*</sup>Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor: 27°C(81°F)DB/19°C(86°F)WB, Outdoor 35°C(95°F)DB
Heating Indoor: 20°C(88°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB
\*2 Air flow rate/Sound pressure level are in (Low-High)
\*3 Measured point: 1m x 1m, Power supply: AC240V/50Hz
- 1dB(A) lower at AC230V/50Hz
- 2dB(A) lower at AC220V/50Hz
- 3dB(A) lower at 1.5m x 1.5m point
\*4 It is measured in anechoic room.

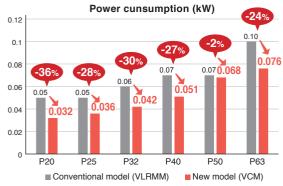
#### Floor standing concealed type





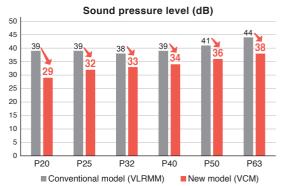
#### Reduced power consumption and noise

The structure realizes smooth airflow to reduce pressure loss in the air pathway. Additionally, the inner pipes have been downsized from Ø1.9 to Ø1.5 (P32-50), so that the heat exchanger can contain a larger number of rows (P32-63). The combination of the structure and components contributes to reducing power consumption and operation noise.





<sup>\*</sup> The unit consumes the same power in both cooling and heating modes



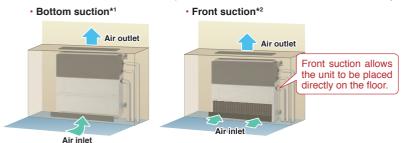
\* Measurement condition (External static pressure: 40Pa Fan speed: High)

· Floor standing with legs

\* The sound pressure level in operation is measured at 1.5 m apart from the front side and bottom side of the unit in anechoic room.

#### Flexible installation pattern ideal for perimeter zone air conditioning

Air inlet can be selected from two patterns, bottom suction or front suction, by changing the panel, fan guard and filter.



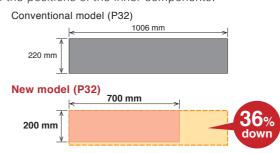
The unit can be placed on the floor with the supplied legs attached

\* Height of unit (with legs) is 690 mm.

- \*1 Select a site where the flow of supply air is not blocked. The unit cannot be placed directly on the floor in the case of bottom suction.
- \*2 Front suction makes more noise than bottom suction. Bottom suction is recommended when installing the unit in rooms that need to be quiet, such as bedrooms.

#### Smaller footprint □□

The latest model (P32) has a 36% smaller footprint compared to the PFFY-VLRMM, owing to a redesigning of the positions of the inner components.



# Flexible airflow and external static pressure setting

Floor-standing

Airflow rate and external static pressure can be selected to suit various installation conditions.

|                               | Conve        | ntional      |  |  |  |
|-------------------------------|--------------|--------------|--|--|--|
|                               | PFFY-P VLRM  | Low-High     |  |  |  |
| Air flow rate                 | PFFY-P VLRMM | Low-Mid-High |  |  |  |
|                               | New          |              |  |  |  |
|                               | PFFY-P VCM   | Low-Mid-High |  |  |  |
|                               | Conventional |              |  |  |  |
|                               | PFFY-P VLRM  | 0            |  |  |  |
| External static pressure (Pa) | PFFY-P VLRMM | 20-40-60     |  |  |  |
| pressure (r a)                | New          |              |  |  |  |
|                               | PFFY-P VCM   | 0-10-40-60   |  |  |  |

| Model               |                     |                    | PFFY-P20VCM-E                                                                | PFFY-P25VCM-E               | PFFY-P32VCM-E                      |  |  |
|---------------------|---------------------|--------------------|------------------------------------------------------------------------------|-----------------------------|------------------------------------|--|--|
| Power source        |                     |                    | 1-phase 220-230-240 V 50/60 Hz                                               |                             |                                    |  |  |
| Cooling ca          |                     | kW                 | 2.2                                                                          | 2.8                         | 3.6                                |  |  |
| (Nominal)           |                     | BTU/h              | 7,500                                                                        | 9,600                       | 12,300                             |  |  |
|                     | *2 Power input      | kW                 | 0.022                                                                        | 0.026                       | 0.031                              |  |  |
|                     | *2 Current input    | Α                  | 0.25                                                                         | 0.30                        | 0.34                               |  |  |
| leating ca          |                     |                    | 2.5                                                                          | 3.2                         | 4.0                                |  |  |
| Nominal)            | *3                  | BTU/h              | 8,500                                                                        | 10,900                      | 13,600                             |  |  |
|                     | *2 Power input      | kW                 | 0.022                                                                        | 0.026                       | 0.031                              |  |  |
|                     | *2 Current input    | Α                  | 0.25                                                                         | 0.30                        | 0.34                               |  |  |
| xternal fir         | inish               |                    | Galvanized steel plate                                                       | Galvanized steel plate      | Galvanized steel plate             |  |  |
| xternal di          | limension *4        | mm                 | 615 (690) x 700 x 200                                                        | 615 (690) x 700 x 200       | 615 (690) x 700 x 200              |  |  |
| H x W x D in.       |                     | in.                | 24-1/4 (27-3/16) x 27-9/16 x 7-7/8 24-1/4 (27-3/16) x 27-9/16 x 7-7/8 24-1/4 |                             | 24-1/4 (27-3/16) x 27-9/16 x 7-7/8 |  |  |
| Net weight kg (lbs) |                     | kg (lbs)           | 18 (40)                                                                      | 18 (40)                     | 18.5 (42)                          |  |  |
| eat excha           |                     |                    | Cross fin (Aluminum fin and copper tube)                                     |                             |                                    |  |  |
| AN                  | Type x Quanti       | ty                 | Sirocco fan x 2                                                              | Sirocco fan x 2             | Sirocco fan x 2                    |  |  |
|                     | *5 External         | Pa                 | <0> - 10 - <40> - <60>                                                       | <0> - 10 - <40> - <60>      | <0> - 10 - <40> - <60>             |  |  |
|                     | static press.       | mmH <sub>2</sub> O | <0.0> - 1.0 - <4.1> - <6.1>                                                  | <0.0> - 1.0 - <4.1> - <6.1> | <0.0> - 1.0 - <4.1> - <6.1>        |  |  |
|                     | Motor Type          |                    | DC motor                                                                     | DC motor                    | DC motor                           |  |  |
|                     | Motor output        | kW                 | 0.096                                                                        | 0.096                       | 0.096                              |  |  |
|                     | Driving mecha       | nism               | Direct-driven by motor                                                       | Direct-driven by motor      | Direct-driven by motor             |  |  |
|                     | Air flow rate       |                    |                                                                              | (Low-Mid-High)              |                                    |  |  |
|                     |                     | m³/min             | 5.0 - 6.0 - 7.0                                                              | 5.5 - 6.5 - 8.0             | 5.5 - 7.0 - 8.5                    |  |  |
|                     |                     | L/s                | 83 - 100 - 117                                                               | 92 - 108 - 133              | 92 - 117 - 142                     |  |  |
|                     |                     | cfm                | 177 - 212 - 247                                                              | 194 - 230 - 282             | 194 - 247 - 300                    |  |  |
| ound pre            | essure level        |                    |                                                                              | (Low-Mid-High)              |                                    |  |  |
| neasured in         | n anechoic room) *2 | dB <a></a>         | 21-23-26                                                                     | 22-25-29                    | 23-26-30                           |  |  |
| ir filter           |                     |                    | PP honeycomb fabric.                                                         | PP honeycomb fabric.        | PP honeycomb fabric.               |  |  |
| tefrigerant         | Liquid (410A)       | mm (in.)           | 6.35 (1/4)Brazed                                                             | 6.35 (1/4)Brazed            | 6.35 (1/4)Brazed                   |  |  |
|                     | eter Gas (410A)     | mm (in.)           | 12.7 (1/2)Brazed                                                             | 12.7 (1/2)Brazed            | 12.7 (1/2)Brazed                   |  |  |
| ield drain          | n pipe size         | mm (in.)           | O.D.32 (1-1/4)                                                               | O.D.32 (1-1/4)              | O.D.32 (1-1/4)                     |  |  |

#### Notes:

Notes:

\*1. Nominal cooling conditions
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

\*2. The values are measured at the factory setting of external static pressure.

\*3. Nominal heating conditions
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

\*4. The values in ( ) show the height of unit with leg.

\*5. The factory setting of external static pressure is shown without <>.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

\*Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.

\*Due to continuing improvement, above specifications may be subject to change without notice.

| Model                                     |                    | PFFY-P40VCM-E                                             | PFFY-P50VCM-E                      | PFFY-P63VCM-E                      |  |  |
|-------------------------------------------|--------------------|-----------------------------------------------------------|------------------------------------|------------------------------------|--|--|
| Power source                              |                    |                                                           | 1-phase 220-230-240 V 50/60 Hz     |                                    |  |  |
| Cooling capacity *                        | 1 kW               | 4.5                                                       | 5.6                                | 7.1                                |  |  |
| (Nominal) *                               | 1 BTU/h            | 15,400                                                    | 19,100                             | 24,200                             |  |  |
| *2 Power input                            | kW                 | 0.038                                                     | 0.052                              | 0.058                              |  |  |
| *2 Current inpu                           | t A                | 0.38                                                      | 0.50                               | 0.49                               |  |  |
|                                           | 3 kW               | 5.0                                                       | 6.3                                | 8.0                                |  |  |
|                                           | 3 BTU/h            | 17,100                                                    | 21,500                             | 27,300                             |  |  |
| *2 Power input                            | kW                 | 0.038                                                     | 0.052                              | 0.058                              |  |  |
| *2 Current inpu                           | t A                | 0.38                                                      | 0.50                               | 0.49                               |  |  |
| External finish                           |                    | Galvanized steel plate                                    | Galvanized steel plate             | Galvanized steel plate             |  |  |
| External dimension *                      | 4 mm               | 615 (690) x 900 x 200                                     | 615 (690) x 900 x 200              | 615 (690) x 1,100 x 200            |  |  |
| H x W x D                                 | in.                | 24-1/4 (27-3/16) x 35-7/16 x 7-7/8                        | 24-1/4 (27-3/16) x 35-7/16 x 7-7/8 | 24-1/4 (27-3/16) x 43-5/16 x 7-7/8 |  |  |
| Net weight                                | kg (lbs)           | 22.5 (51)                                                 | 22.5 (51)                          | 25.5 (58)                          |  |  |
| Heat exchanger                            |                    | Cross fin (Aluminum fin and copper tube)                  |                                    |                                    |  |  |
| FAN Type x Quar                           | tity               | Sirocco fan x 3                                           | Sirocco fan x 3                    | Sirocco fan x 4                    |  |  |
| *5 External                               | Pa                 | <0> - 10 - <40> - <60>                                    | <0> - 10 - <40> - <60>             | <0> - 10 - <40> - <60>             |  |  |
| static press.                             | mmH <sub>2</sub> O | <0.0> - 1.0 - <4.1> - <6.1>                               | <0.0> - 1.0 - <4.1> - <6.1>        | <0.0> - 1.0 - <4.1> - <6.1>        |  |  |
| Motor Type                                |                    | DC motor                                                  | DC motor                           | DC motor                           |  |  |
| Motor output                              | kW                 | 0.096                                                     | 0.096                              | 0.096                              |  |  |
| Driving mech                              | nanism             | Direct-driven by motor Direct-driven by motor Direct-driv |                                    |                                    |  |  |
| Air flow rate                             |                    |                                                           |                                    |                                    |  |  |
|                                           | m³/min             | 8.0 - 9.5 - 11.0                                          | 10.0 - 11.5 - 13.5                 | 12.0 - 14.0 - 16.5                 |  |  |
|                                           | L/s                | 133 - 158 - 183                                           | 167 - 192 - 225                    | 200 - 233 - 275                    |  |  |
|                                           | cfm                | 282 - 335 - 388                                           | 353 - 406 - 477                    | 424 - 494 - 583                    |  |  |
| Sound pressure level                      |                    |                                                           | (Low-Mid-High)                     |                                    |  |  |
| (measured in anechoic room) *2 dB <a></a> |                    | 25-27-30                                                  | 28-31-34                           | 28-32-35                           |  |  |
| Air filter                                |                    | PP honeycomb fabric.                                      | PP honeycomb fabric.               | PP honeycomb fabric.               |  |  |
| Refrigerant Liquid (410A                  |                    | 6.35 (1/4)Brazed                                          | 6.35 (1/4)Brazed                   | 9.52 (3/8)Brazed                   |  |  |
| piping diameter Gas (410A)                | mm (in.)           | 12.7 (1/2)Brazed                                          | 12.7 (1/2)Brazed                   | 15.88 (5/8)Brazed                  |  |  |
| Field drain pipe size                     | mm (in.)           | O.D.32 (1-1/4)                                            | O.D.32 (1-1/4)                     | O.D.32 (1-1/4)                     |  |  |

#### Notes:

\*1. Nominal cooling conditions

1. Normal cooling conductors indoor; 25°CD.B. (95°FD.B.) (95°FD.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

2. The values are measured at the factory setting of external static pressure.

\*2. The values are measured at the factory setting of external static pressure.

\*3. Nominal heating conditions
Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)
Pipe length: 7.5 m (24-9/16 th), Level difference: 0 m (0 th.)

\*4. The values in ( ) show the height of unit with leg.

\*5. The factory setting of external static pressure is shown without <>.
Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

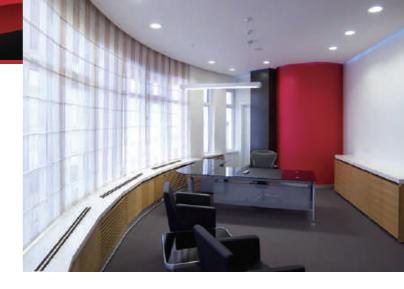
\*Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.

\*Due to continuing improvement, above specifications may be subject to change without notice.

## Floor standing concealed type

#### PFFY-P VLRM-E PFFY-P VLRMM-E





# Compact unit for easy perimeter air-conditioning

The body is concealed in the pericover to pursue harmony with the interior.

The compact body depth of 220 mm [8-11/16 in.] can be easily installed in the perimeter zone.

Air flow rate
2 stages (VLRM)
3 stages (VLRMM)



#### Maximum external static pressure 60 Pa (VLRMM model)

Additional external static pressure capacity provides flexibility for duct extension, branching, and air outlet configuration.

| Model                  |                               |                   |          | PFFY-P20VLRM-E                                 | PFFY-P25VLRM-E          | PFFY-P32VLRM-E                                                                                                 | PFFY-P40VLRM-E                    | PFFY-P50VLRM-E    | PFFY-P63VLRM-E |  |
|------------------------|-------------------------------|-------------------|----------|------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------|----------------|--|
| Power source           |                               |                   |          | 1-phase 220-240V 50Hz/1-phase 208-230V 60Hz    |                         |                                                                                                                |                                   |                   |                |  |
| Cooling                | capacity                      | *1                | kW       | 2.2                                            | 2.8                     | 3.6                                                                                                            | 4.5                               | 5.6               | 7.1            |  |
|                        |                               | *1                | BTU/h    | 7,500                                          | 9,600                   | 12,300                                                                                                         | 15,400                            | 19,100            | 24,200         |  |
| Heating                | capacity                      | *1                | kW       | 2.5                                            | 3.2                     | 4.0                                                                                                            | 5.0                               | 6.3               | 8.0            |  |
|                        |                               | *1                | BTU/h    | 8,500                                          | 10,900                  | 13,600                                                                                                         | 17,100                            | 21,500            | 27,300         |  |
| Power                  |                               | Cooling           | kW       | 0.04                                           | 0.06                    | 0.06/0.07                                                                                                      | 0.065/0.075                       | 0.085/0.09        | 0.1/0.11       |  |
| consum                 | ption                         | Heating           | kW       | 0.04                                           | 0.06                    | 0.06/0.07                                                                                                      | 0.065/0.075                       | 0.085/0.09        | 0.1/0.11       |  |
| Current                |                               | Cooling           | Α        | 0.19                                           | 0.25                    | 0.29/0.30                                                                                                      | 0.32/0.33                         | 0.40/0.41         | 0.46/0.47      |  |
|                        |                               | Heating           | Α        | 0.19                                           | 0.25                    | 0.29/0.30                                                                                                      | 0.32/0.33                         | 0.40/0.41         | 0.46/0.47      |  |
| External               | External finish (Munsell No.) |                   |          |                                                | Galvanized steel plate  |                                                                                                                |                                   |                   |                |  |
| Dimension H x W x D mm |                               |                   | mm       | 639 x 886 x 220                                |                         | 639 x 1,006 x 220                                                                                              |                                   | 639 x 1,246 x 220 |                |  |
| in.                    |                               |                   | in.      | 25-3/16 x 34-15/16 x 8-11/16                   |                         | 25-3/16 x 39-                                                                                                  | 3/16 x 39-5/8 x 8-11/16 25-3/16 x |                   | 1/16 x 8-11/16 |  |
| Net weight kg (lbs.)   |                               | 22 (49)           |          | 24 (53)                                        | 25 (56)                 | 29 (64)                                                                                                        | 30 (67)                           |                   |                |  |
| Heat exc               | changer                       |                   |          | Cross fin (Aluminum plate fin and copper tube) |                         |                                                                                                                |                                   |                   |                |  |
| Fan                    | Type x Q                      |                   |          | Sirocco fan x 1 Sirocco fan x 2                |                         |                                                                                                                |                                   |                   |                |  |
|                        | Airflow ra                    | te *2             | m³/min   | 5.5-6.5                                        |                         | 7.0-9.0                                                                                                        | 9.0-11.0                          | 12.0-14.0         | 12.0-15.5      |  |
|                        | (Lo-Hi)                       |                   | L/s      | 92-108                                         |                         | 117-150                                                                                                        | 150-183                           | 200-233           | 200-258        |  |
|                        |                               |                   | cfm      | 194-230                                        |                         | 247-318                                                                                                        | 318-388                           | 424-494           | 424-547        |  |
|                        | External sta                  | atic pressure     | Pa       | Ô                                              |                         |                                                                                                                |                                   |                   |                |  |
| Motor                  | Туре                          |                   |          |                                                | 1-phase induction motor |                                                                                                                |                                   |                   |                |  |
|                        | Output                        |                   | kW       | 0.0                                            | 115                     | 0.018                                                                                                          | 0.030                             | 0.035             | 0.050          |  |
| Air filter             |                               |                   |          | PP Honeycomb fabric (washable)                 |                         |                                                                                                                |                                   |                   |                |  |
| Liquid                 |                               | Gas<br>(Flare)    | mm (in.) | ø12.7 (ø1/2)                                   |                         |                                                                                                                |                                   |                   | ø15.88 (ø5/8)  |  |
|                        |                               | Liquid<br>(Flare) | mm (in.) |                                                |                         | ø6.35 (ø1/4)                                                                                                   |                                   |                   | ø9.52 (ø3/8)   |  |
| Field dra              | ain pipe dian                 | neter             | mm (in.) |                                                | I.D.26 (1)              | <accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16))&gt;</td><td></td></accessory> | 27 (1-3/32) (top end :20          | (13/16))>         |                |  |
| Sound p                | ressure leve                  | el<br>*2 *3 *4    | dB (A)   | 34                                             | -40                     | 35-40                                                                                                          | 38-43                             |                   | 40-46          |  |

#### Notes:

1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.

Cooling Indoor: 27°C(81°F)DB/19°C(86°F)WB, Outdoor 35°C(95°F)DB

Heating Indoor: 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

2 Air flow rate/Sound pressure level are in (Low-High)

3 Measured point: 1 m x 1m, Power supply: AC240V/50Hz

1dB(A) lower at AC230V/50Hz

2dB(A) lower at AC220V/50Hz

3dB(A) lower at 1.5m x 1.5m point

4 It is measured in anechoic room.

| Model        |                      |            |                                                | PFFY-P20VLRMM-E                | PFFY-P25VLRMM-E                             | PFFY-P32VLRMM-E                                                                                                | PFFY-P40VLRMM-E          | PFFY-P50VLRMM-E                    | PFFY-P63VLRMM-E     |  |
|--------------|----------------------|------------|------------------------------------------------|--------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------|---------------------|--|
| Power source |                      |            |                                                |                                | 1-phase 220-240V 50Hz/1-phase 220-240V 60Hz |                                                                                                                |                          |                                    |                     |  |
| Cooling      | capacity             | *1         | kW                                             | 2.2 2.8                        |                                             | 3.6                                                                                                            | 4.5                      | 5.6                                | 7.1                 |  |
| · ·          | . ,                  | *1         | BTU/h                                          | 7,500                          | 9,600                                       | 12,300                                                                                                         | 15,400                   | 19,100                             | 24,200              |  |
| Heating      | capacity             | *1         | kW                                             | 2.5                            | 3.2                                         | 4.0                                                                                                            | 5.0                      | 6.3                                | 8.0                 |  |
| _            |                      | *1         | BTU/h                                          | 8,500                          | 10,900                                      | 13,600                                                                                                         | 17,100                   | 21,500                             | 27,300              |  |
| Power        |                      | Cooling    | kW                                             | 0.0                            | 04                                          | 0.04 0.05 0.05                                                                                                 |                          | 0.07                               |                     |  |
| consump      | tion                 | Heating    | kW                                             | 0.0                            | 04                                          | 0.04                                                                                                           | 0.05                     | 0.05                               | 0.07                |  |
| Current      |                      | Cooling    | Α                                              | 0.3                            | 34                                          | 0.38                                                                                                           | 0.43                     | 0.48                               | 0.59                |  |
|              |                      | Heating    | Α                                              | 0.3                            | 34                                          | 0.38                                                                                                           | 0.43                     | 0.48                               | 0.59                |  |
| External     | finish (Mur          | nsell No.) |                                                |                                |                                             | Galvanized                                                                                                     | steel plate              |                                    |                     |  |
| Dimension    | n H x W x            | D          | mm                                             | 639 x 886 x 220                |                                             | 639 x 1,006 x 220                                                                                              |                          | 639 x 1,246 x 220                  |                     |  |
|              | in.                  |            |                                                | 25-3/16 x 34-15/16 x 8-11/16   |                                             | 25-3/16 x 39-5/8 x 8-11/16                                                                                     |                          | 25-3/16 x 49-1/16 x 8-11/1625 (56) |                     |  |
| Net weig     | Net weight kg (lbs.) |            | 21 (47)                                        |                                | 24 (53) 25 (56)                             |                                                                                                                | 29                       | 29 (64)                            |                     |  |
| Heat exc     | Heat exchanger       |            | Cross fin (Aluminum plate fin and copper tube) |                                |                                             |                                                                                                                |                          |                                    |                     |  |
| Fan          | Type x C             | uantity    |                                                | Sirocco                        | fan x 1                                     | Sirocco fan x 2                                                                                                |                          |                                    |                     |  |
|              | Airflow ra           |            | m³/min                                         | 4.5-5.5-6.5                    |                                             | 6.5-7.5-9.0                                                                                                    | 8.0-9.5-11.0             | 10.0-12.0-14.0                     | 11.0-13.0-15.5      |  |
|              | (Lo-Mid-             | Hi)        | L/s                                            | 75-92-108                      |                                             | 108-125-150                                                                                                    | 133-158-183              | 167-200-233                        | 183-217-258         |  |
|              |                      |            | cfm                                            | 159-194-230                    |                                             | 230-265-318                                                                                                    | 282-335-388              | 353-424-494                        | 388-459-547         |  |
|              | External             |            | Pa                                             | 20/40/60                       |                                             |                                                                                                                |                          |                                    |                     |  |
| Motor        | Туре                 |            |                                                | DC brushless motor             |                                             |                                                                                                                |                          |                                    |                     |  |
|              | Output               |            | kW                                             | 0.096                          |                                             |                                                                                                                |                          |                                    |                     |  |
| Air filter   |                      |            |                                                | PP Honeycomb fabric (washable) |                                             |                                                                                                                |                          |                                    |                     |  |
| Refrigera    | ant                  | Gas        | mm (in.)                                       |                                | ø12.7 (ø1/2) Brazed ø15.88 (ø5/8) Brazed    |                                                                                                                |                          |                                    |                     |  |
| pipe diar    | neter                | Liquid     | mm (in.)                                       |                                |                                             | ø6.35 (ø1/4) Brazed                                                                                            |                          |                                    | ø9.52 (ø3/8) Brazed |  |
| Field dra    | in pipe dia          | meter      | mm (in.)                                       |                                | I.D.26 (1)                                  | <accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16))&gt;</td><td></td></accessory> | 27 (1-3/32) (top end :20 | (13/16))>                          |                     |  |
|              | essure leve          |            | dB (A)                                         | 31-3                           | 6-40                                        | 27-32-37                                                                                                       | 30-36-40                 | 32-37-41                           | 35-40-44            |  |
| (Lo-Mid-     | Hi) *                | 3 40Pa     | dB (A)                                         | 34-3                           | 9-42                                        | 30-35-41                                                                                                       | 32-38-42                 | 35-40-44                           | 36-42-47            |  |
|              |                      | 60Pa       | dB (A)                                         | 35-4                           | 0-43                                        | 32-37-42                                                                                                       | 3.5-39-44                | 36-41-45                           | 38-43-48            |  |

1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.

Cooling Indoor: 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB

Heating Indoor: 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

pipe length: 7.5m(24-9/16ft)

Height difference: 0m(0ft)

2 The external static pressure is set to 20Pa at factory shipment.

3 The sound pressure level in operation is measured at 1m apart from the front side and the bottom side of the unit in anechoic room.

(Noise meter A-scale value) Connect the duct of 1m in length to the air outlet.

#### Floor standing exposed type

#### PFFY-P YM-E PFFY-P YMH-E



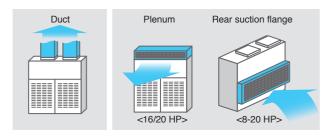




This series is a floor-standing, large capacity, indoor unit, which reduces the piping and installation burdens, and makes maintenance easy.



In addition to the standard duct blowing, both plenum blowing and rear suction are optionally selectable.



# Easy to install and can cover large spaces.

#### Wide ranges of airflow rate and static pressure options are available to suit a greater variety of needs

|                 |       | Air flow rate (m³/min [ft.³/min]) | Static pressure (Pa) |
|-----------------|-------|-----------------------------------|----------------------|
|                 |       | High, 50/60 Hz                    | 380 V, 50/60 Hz      |
| PFFY-P200YM-E   | 8 HP  | 65.0/69.0 [2300/2430]             | 0                    |
| PFFY-P250YM-E   | 10 HP | 77.0/72.0 [2720/2540]             | 0                    |
| PFFY-P200YMH-E* | 8 HP  | 65.0 [2300]                       | 180/200              |
| PFFY-P250YMH-E* | 10 HP | 72.0 [2540]                       | 180/210              |
| PFFY-P400YM-E   | 16 HP | 150.0 [5300]                      | 210/390              |
| PFFY-P500YM-E   | 20 HP | 200.0 [7060]                      | 290/510              |

<sup>\*</sup>High static pressure model

#### Pulley belt option

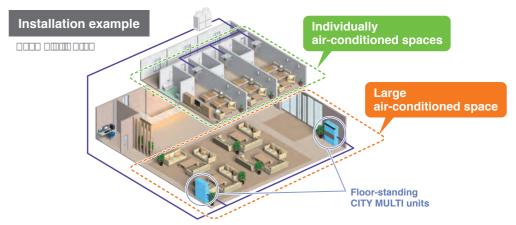
This option supports the use of wider ranges of airflow rates and static pressures to suit a greater variety of needs.

## Both large-scale and individual air conditioning can be performed

When this model is used in a large space and CITY MULTI indoor units are used in individual rooms, one outdoor unit can control the air conditioners in these rooms of various sizes.

## Multiple units can be connected to one outdoor unit

Multiple units of this model can be connected to one outdoor unit. Air can be spread throughout a large room.



| Description     | Model          | Applicable capacity |
|-----------------|----------------|---------------------|
| OA duct flange  | PAC-ODF10DF-E  | P200, 250           |
| OA duct liarige | PAC-ODF20DF-E  | P400, 500           |
| Plenum          | PAC-PLE20PL-E1 | P400, 500           |

# **Specifications**

| Model                                            |             |                    | PFFY-P200YM-E                            | PFFY-P250YM-E                     | PFFY-P200YMH-E                                                | PFFY-P250YMH-E                    | PFFY-P400YM-E                     | PFFY-P500YM-E                     |  |
|--------------------------------------------------|-------------|--------------------|------------------------------------------|-----------------------------------|---------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--|
| Power source                                     |             |                    |                                          |                                   | 3-phase 4-wire 380-                                           | 400-415 V 50/60 Hz                |                                   |                                   |  |
| Cooling capacity                                 | *1          | kW                 | 22.4                                     | 28.0                              | 22.4                                                          | 28.0                              | 45.0                              | 56.0                              |  |
| (Nominal)                                        | *1          | BTU/h              | 76,400                                   | 95,500                            | 76,400                                                        | 95,500                            | 153,500                           | 191,100                           |  |
| *2 Power input                                   |             | kW                 | 0.490/0.680                              | 1.05/1.26                         | 1.00/1.41                                                     | 1.31/1.41                         | 2.86/3.79                         | 3.94/5.30                         |  |
| *2 Current inpu<br>(380-400-41                   |             | А                  | 0.97-0.98-0.99/<br>1.24-1.23-1.22        | 1.74-1.83-1.88/<br>2.06-2.05-2.04 | 1.82-1.85-1.87/<br>2.37-2.37-2.37                             | 2.14-2.18-2.20/<br>2.18-2.18-2.18 | 5.23-5.25-5.33/<br>6.16-6.18-6.26 | 7.66-7.68-7.76/<br>8.49-8.51-8.58 |  |
| Heating capacity                                 | *3          | kW                 | 25.0                                     | 31.5                              | 25.0                                                          | 31.5                              | 50.0                              | 63.0                              |  |
| (Nominal)                                        | *3          | BTU/h              | 85,300                                   | 107,500                           | 85,300                                                        | 107,500                           | 170,600                           | 215,000                           |  |
| *2 Power input                                   |             | kW                 | 0.490/0.680                              | 1.05/1.26                         | 1.00/1.41                                                     | 1.31/1.41                         | 2.86/3.79                         | 3.94/5.30                         |  |
| *2 Current inpu<br>(380-400-41                   |             | А                  | 0.97-0.98-0.99/<br>1.24-1.23-1.22        | 1.74-1.83-1.88/<br>2.06-2.05-2.04 | 1.82-1.85-1.87/<br>2.37-2.37-2.37                             | 2.14-2.18-2.20/<br>2.18-2.18-2.18 | 5.23-5.25-5.33/<br>6.16-6.18-6.26 | 7.66-7.68-7.76/<br>8.49-8.51-8.58 |  |
| External finish                                  |             |                    |                                          |                                   | <munsell 3.0y<="" td=""><td></td><td></td><td></td></munsell> |                                   |                                   |                                   |  |
| External dimension H x 1                         | WxD         | mm                 | 1,665 x 1,200 x 500                      | 1,665 x 1,200 x 500               | 1,465 x 1,200 x 500                                           | 1,465 x 1,200 x 500               | 1,800 x 1,860 x 650               | 1,800 x 1,860 x 650               |  |
|                                                  |             | in.                | 65-9/16 x 47-1/4 x 19-11/16              | 65-9/16 x 47-1/4 x 19-11/16       | 57-11/16 x 47-1/4 x 19-11/16                                  | 57-11/16 x 47-1/4 x 19-11/16      | 70-7/8 x 73-1/4 x 25-5/8          | 70-7/8 x 73-1/4 x 25-5/8          |  |
| Net weight                                       |             | kg (lbs)           | 157 (347)                                | 158 (349)                         | 138 (305)                                                     | 139 (307)                         | 310 (684)                         | 362 (799)                         |  |
| Heat exchanger                                   |             |                    | Cross fin (Aluminum fin and copper tube) |                                   |                                                               |                                   |                                   |                                   |  |
| Fan Type x Quar                                  | ntity       |                    | Sirocco fan x 2                          | Sirocco fan x 2                   | Sirocco fan x 2                                               | Sirocco fan x 2                   | Sirocco fan x 2                   | Sirocco fan x 2                   |  |
| External stat                                    |             | Pa                 | 0                                        | 0                                 | 180/200                                                       | 180/210                           | 210/390                           | 290/510                           |  |
| press. (380 \                                    | V)          | mmH <sub>2</sub> O | 0.0                                      | 0.0                               | 18.4/20.4                                                     | 18.4/21.4                         | 21.4/39.8                         | 29.6/52.0                         |  |
| Motor Type                                       |             |                    | 3-phase induction motor                  |                                   |                                                               |                                   |                                   |                                   |  |
| Motor output                                     | t           | kW                 | 0.400                                    | 0.500                             | 0.770                                                         | 0.770                             | 3.700                             | 5.500                             |  |
| Driving mech                                     |             |                    |                                          | Direct-drive                      | en by motor                                                   |                                   | Belt o                            | Iriving                           |  |
| Air flow rate                                    |             |                    | (High                                    | (High-Low) (High)                 |                                                               |                                   | gh)                               |                                   |  |
|                                                  | [           | m³/min             | 65.0-59.0/69.0-60.0                      | 77.0-56.0/72.0-50.0               | 65.0                                                          | 72.0                              | 150.0                             | 200.0                             |  |
|                                                  |             | L/s                | 1,083-983/1,150-1,000                    | 1,283-933/1,200-833               | 1,083                                                         | 1,200                             | 2,500                             | 3,333                             |  |
|                                                  | ĺ           | cfm                | 2,295-2,083/2,436-2,119                  | 2,719-1,977/2,542-1,766           | 2,295                                                         | 2,542                             | 5,297                             | 7,062                             |  |
| Sound pressure level (measured in anechoic room) | )           |                    | (High-Low) (High)                        |                                   | gh)                                                           |                                   |                                   |                                   |  |
| (380 V)                                          | *2          | dB (A)             | 58-56/60-56                              | 63-60/62-60                       | 58/60                                                         | 60/61                             | 68/69                             | 69/69                             |  |
| Air filter                                       |             |                    |                                          |                                   | PP honeyc                                                     | omb fabric.                       |                                   |                                   |  |
| Refrigerant piping Liquid diameter (R410A)       |             | mm (in.)           | 9.52 (3/8) Brazed                        | 9.52 (3/8) Brazed                 | 9.52 (3/8) Brazed                                             | 9.52 (3/8) Brazed                 | 12.7 (1/2) Brazed                 | 15.88 (5/8) Brazed                |  |
| Ga<br>(R4                                        | as<br>410A) | mm (in.)           | 22.2 (7/8) Brazed                        | 22.2 (7/8) Brazed                 | 22.2 (7/8) Brazed                                             | 22.2 (7/8) Brazed                 | 28.58 (1-1/8) Brazed              | 28.58 (1-1/8) Brazed              |  |
| Field drain pipe size                            |             | in.                | Rc 1                                     | Rc 1                              | Rc 1                                                          | Rc 1                              | Rc 1-1/4                          | Rc 1-1/4                          |  |

# Notes:

- \*\*Nominal cooling conditions Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)

  Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

  \*\*2 The values are measured in fan mode and at the factory setting of external static pressure.

  \*\*3 Nominal heating conditions Indoor: 20°CD.B. (68°FD.B.), Outdoor: 7°CD.B./6°CW.B. (45°FD.B./43°FW.B.)

  Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

  \*\*4 Long period operation in a high temperature and humidity atmosphere (dew point of 23°C or more) may cause condensation to form in the indoor unit.

  \*\*5 In case of this type of unit is connected, the maximum connected indoor unit capacity to one outdoor unit have to be less than or equal to 100%.

  \*\*6 This unit cannot be connected to R2 or WR2-Series. (PFFY-P400, P500YM-E only)

  \*\*7 This unit cannot be connected to PUMY-Series.

- \* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
  \* Due to continuing improvement, above specifications may be subject to change without notice.

# Floor standing exposed type

# PFFY-P YM-E-F







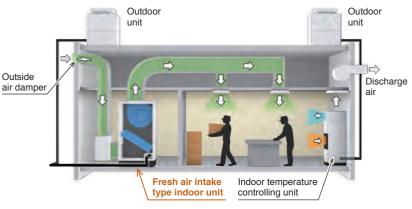




# Enable intake of outside air

This model can take in the outside air. it delivers fresh air to indoors and improves comfort even in places where much ventilation is required, such as factories.

- \*This product is for use in occupant spaces and not suitable for use in spaces requiring stringent thermostatic control.
- \*Fresh air intake type is designed to supply conditioned outside air into the room. Do not use to handle internal thermal load.

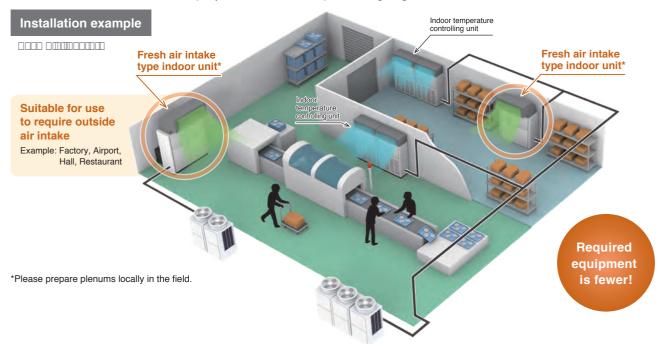


\*Please prepare dampers, ducts, and grilles locally in the field.

# Usable in combination with CITY MULTI indoor units

P300 is usable in combination with the CITY MULTI indoor units in a single refrigerant system\*. By installing an outdoor unit and indoor units that match the size of each room, it is possible to achieve individual air conditioning and intaking fresh air.

\*When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit capacity. Please refer to NOTEs of specification regarding the details.



# Air flow rate, external static pressure setting

The airflow rate of this product at High speed is 45 m³/min for the P300 model and 90 m<sup>3</sup>/min for the P600 model. Two patterns of static pressure setting are selectable, depending on the size and the use of the building.

|                 | Air flow rate (m³/min) | External static |
|-----------------|------------------------|-----------------|
|                 | High                   | pressure        |
| PFFY-P300YM-E-F | 45.0                   | 80 Pa, 140 Pa   |
| PFFY-P600YM-E-F | 90.0                   | 120 Pa, 200 Pa  |

# **Specifications**

| Model                           |                |                 |                     | PFFY-P300YM-E-F                                                                                            | PFFY-P600YM-E-F                                                                  |
|---------------------------------|----------------|-----------------|---------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Power source                    |                |                 |                     | 3-phase 4-wire 380-                                                                                        | 400-415 V 50/60 Hz                                                               |
| Cooling capacity                |                | *1              | kW                  | 33.5                                                                                                       | 67.0                                                                             |
| (Nominal)                       |                | *1              | BTU/h               | 114,300                                                                                                    | 228,600                                                                          |
|                                 | *2 Power inp   | out             | kW                  | 0.350-0.360-0.370/0.450-0.450-0.470                                                                        | 0.790-0.810-0.860/0.960-0.960-0.980                                              |
|                                 | *2 Current in  | put             | Α                   | 0.86-0.88-0.91/0.92-0.93-0.91                                                                              | 2.76-3.03-3.46/2.38-2.39-2.52                                                    |
| Temp. range of cooling          | J              |                 |                     | 21°C D.B./15.5°C W.B. * Thermo-off (FAN-mode) automatically starts if                                      |                                                                                  |
| Heating capacity                |                | *3              | kW                  | 28.0                                                                                                       | 56.0                                                                             |
| Nominal)                        |                | *3              | BTU/h               | 95,500                                                                                                     | 191,100                                                                          |
|                                 | *2 Power inp   | out             | kW                  | 0.350-0.360-0.370/0.450-0.450-0.470                                                                        | 0.790-0.810-0.860/0.960-0.960-0.980                                              |
|                                 | *2 Current in  | put             | Α                   | 0.86-0.88-0.91/0.92-0.93-0.91                                                                              | 2.76-3.03-3.46/2.38-2.39-2.52                                                    |
| Temp. range of heating          | 9              |                 |                     | 0°C D.B. ~  * Thermo-off (FAN-mode) automatically starts if t                                              |                                                                                  |
| External finish                 |                |                 |                     | Galvanized steel plate (with polyester coating) <munsell 1.1="" 3.0y="" 7.8="" or="" similar=""></munsell> |                                                                                  |
| External dimension H x W x D mm |                | mm              | 1,465 x 1,200 x 500 | 1,805 x 1,860 x 710                                                                                        |                                                                                  |
|                                 |                |                 | in.                 | 57-11/16 x 47-1/4 x 19-11/16                                                                               | 71-1/8 x 73-1/4 x 28                                                             |
| Net weight                      |                |                 | kg (lbs)            | 146 (322)                                                                                                  | 357 (788)                                                                        |
| Heat exchanger                  |                |                 |                     | Cross fin (Aluminum fin and copper tube)                                                                   | Cross fin (Aluminum fin and copper tube)                                         |
| an                              | Type x Qu      | Type x Quantity |                     | Sirocco fan x 2                                                                                            | Sirocco fan x 2                                                                  |
|                                 | External s     | static          | Pa                  | 80/140                                                                                                     | 120/200                                                                          |
|                                 | press.         |                 | mmH <sub>2</sub> O  | 8.2/14.3                                                                                                   | 12.2/20.4                                                                        |
|                                 | Motor Typ      | е               |                     | 3-phase induction motor                                                                                    | 3-phase induction motor                                                          |
|                                 | Motor out      | put             | kW                  | 0.400                                                                                                      | 2.200                                                                            |
|                                 | Driving m      | echanism        |                     | Direct-driven by motor                                                                                     | Belt driving                                                                     |
|                                 | Air flow ra    | ate             |                     | (High)                                                                                                     | (High)                                                                           |
|                                 |                |                 | m³/min              | 45.0                                                                                                       | 90.0                                                                             |
|                                 |                |                 | L/s                 | 750                                                                                                        | 1,500                                                                            |
|                                 |                |                 | cfm                 | 1,589                                                                                                      | 3,178                                                                            |
| Sound pressure level            | measured in ar | nechoic ro      | om)                 | (High)                                                                                                     | (High)                                                                           |
|                                 |                | *2              |                     | 48.5/48.5                                                                                                  | 54.0/56.0                                                                        |
| Air filter                      |                |                 |                     | PP honeycomb fabric 1012 × 720<br>Dust collection efficiency (Weight Method) 17%                           | PP honeycomb fabric 894 x 612 x 2 Dust collection efficiency (Weight Method) 17% |
| Refrigerant piping              | Liquid         | (R410A)         | mm (in.)            | 9.52 (3/8) Brazed                                                                                          | 15.88 (5/8) Brazed                                                               |
| diameter                        | Gas            | (R410A)         | mm (in.)            | 22.2 (7/8) Brazed                                                                                          | 28.58 (1-1/8) Brazed                                                             |
| Field drain pipe size           |                |                 | in.                 | Rc 1                                                                                                       | Rc 1-1/4                                                                         |

### Notes:

- \*1 Nominal cooling conditions
- Indoor: 33°C D.B./28°C W.B., Outdoor: 33°C D.B.

  Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

  \*2 The values are measured in fan mode and at the factory setting of external static pressure.
- \*3 Nominal heating conditions Indoor: 7°C D.B., Outdoor: 7°C D.B./3°C W.B. Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Long period operation in a high temperature and humidity atmosphere (dew point of 23°C or more) may cause condensation to form in the indoor unit.
   This unit cannot be connected to PUMY, R2 and WR2 series.
   Fresh air intake type indoor units cannot be connected to an outdoor unit together with PWFY series.

- When this fresh air intake type indoor unit is included in the system, the upper limit of connectable indoor unit capacity range is 100% of the connected outdoor unit capacity.
   When fresh air intake type indoor units connect to an outdoor unit together with other types of indoor unit, the total capacity of fresh air intake type indoor units needs to be 30% or less of the connected outdoor unit

- The actual capacity characteristics vary with the combination of indoor and outdoor units.

  See the technical information in DATA BOOK for the details.

  Thermo off (Fan) operation automatically starts either when temperature is lower than 21°C D.B. in cooling mode or when the temperature exceeds 20°C D.B. in heating mode.
- · Dry mode is not available.
- When this unit is used as sole A/C system, be careful about the dew in air outlet grilles in cooling mode.
   Un-conditioned outdoor air such as humid air or cold air blows to the indoor during thermo off operation, which may occur dew condensation on the grills and ducts. Please insulate the grills, ducts, and rooms to
- prevent dew condensation properly.

   Air filter must be installed in the air intake side. The filter should be attached where easy maintenance is possible in case of usage of field supply filters.

   Fresh air intake type indoor unit is designed to supply pretreated outside air into the room.

  Do not use to handle internal thermal load.

- Depending on the air conditioning load, outside temperature, and due to the activation of protection functions, the desired preset temperature may not always be achieved and the outlet air temperature may swing. Note that untreated outside air may be delivered directly into the room upon the activation of protection functions.
- The fan temporary stops during defrost.
- \* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.
  \* Due to continuing improvement, above specifications may be subject to change without notice.



# Remote Controller



# Remote controller list

# **Building Management Zone**

# Centralized control



LMAP04-E
For LonWorks®



AE-200E with BACnet Interface

For BACnet®

BMS and CITY MULTI can be connected. This enables control of the entire building and air-conditioning control on the BMS side.

# Floor Management Zone



# **AE-200E**

This model, featuring a color LCD screen, can control up to 50 indoors unit when used independently, and up to 200 indoor units when connected to AE-50E/EW-50E.



### **EW-50E**

This model can control up to 50 indoor units when connected to the AE-200E as an expansion unit.

# System controller



### PAC-YT40ANRA

The power can be turned on and off easily for 50 indoor units in up to 16 groups with this single unit.



### **AT-50B**

This model is suitable for control on each floor. You can control up to 50 indoor units on the color LCD screen.

The air conditioners in each group can be turned on and off, and their modes can be changed. The weekly timer allows them to be turned on automatically before work starts, and off after closing time.



### PAR-40MAA

(MA remote controller)

The temperature can be set in steps of  $0.5^{\circ}$ C [ $1^{\circ}$ F] increments, and the air flow direction and error icons are displayed on the screen.



# **PAR-U02MEDA**

(ME remote controller)

All elements appear on the LCD screen, which features an occupancy sensor. All conditions including grouping can be set on this one controller.



# PAC-YT52CRA

(MA remote controller)

A compact remote controller dedicated to setting the temperature and fan speed





# PAR-CT01MAA-S

(MA remote controller)

All elements appear on the LCD screen. The background and character colors can be selected.



# PAR-FL32MA

(MA Wireless remote controller)

\* Requires wireless signal receiving unit



# PAR-SL100A-E

(MA Wireless remote controller)

- \* Connected only to PLFY-P VEM-PA / PLFY-P VFM-E1/PKFY-P VLM-E
- \* Requires wireless signal receiving unit

A suitable remote controller can be selected to control the air conditioners in each room according to each use situation.

# **Centralized Remote Controller**

# Centralized controller

# AE-200E/AE-50E



Dimensions

284(W) x 200(H) x 65(D) mm 11-3/16(W) x 7-7/8(H) x 2-9/16(D) in.

# Mounted with color LCD touch panel excelling in visibility and operability.

- A 10.4-in LCD touch panel with high definition is used. The large display screen and the floor screen image\*¹ are excellent invisibility, and the equipment can be operated by touching the icons on the touch panel.
  - \*1. The floor plan image function is optional.

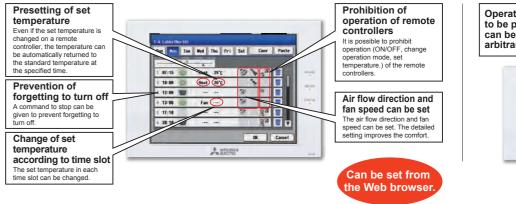
# An optimal system can be easily and flexibly established according to a facility's scale.

- · Up to 50 indoor units can be managed.
- Centralized control of up to 200 indoor units can be performed with three "AE-50E/EW-50E" expansion controllers.
- More than 200 indoor units can be managed by connecting the PC to the web browser.\*1
- \*1. Please contact your local distributor regarding support for this feature.

# Airflow direction and airflow rate can be adjusted finely according to the schedule.

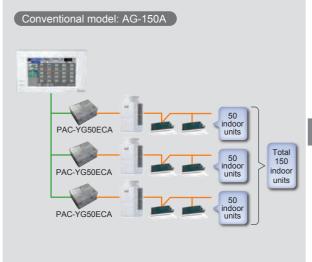
 For indoor units, LOSSNAY and general-purpose devices controlled by AE-200E, schedules by group, block and floor and for the entire building can be set.

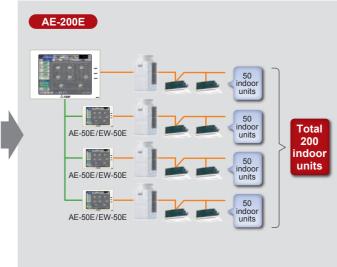
# Detailed settings for each indoor unit can also be managed from the AE-200E



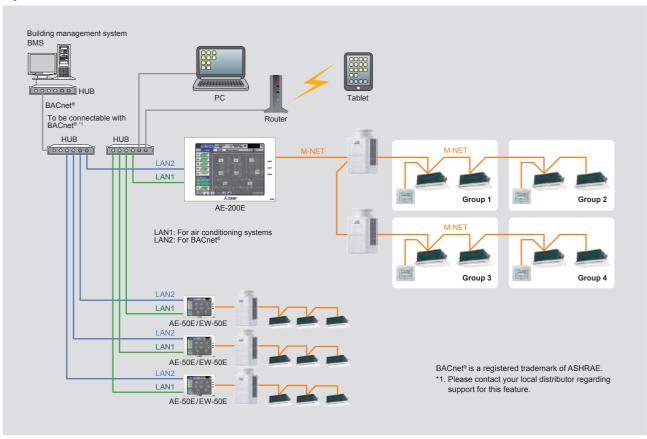


# Comparing the number of connectable units





# **System Structure**



| iteiii                                                              | Description                                                                                                                                                                                                                                                                                                                                             | Operations                                  | Display |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|
| Controllable number of units                                        | Up to 50 units/50 groups                                                                                                                                                                                                                                                                                                                                |                                             |         |
| ON/OFF                                                              | ON and OFF operation for the air conditioning units and general equipment.  (PAC-YG66DCA is required to operate general equipment.)                                                                                                                                                                                                                     | 004                                         | 00      |
| Operation mode                                                      | Switches between several operation modes depending on the air conditioning unit. Air conditioning unit: Cool/Dry/Auto(*)/Fan/Heat LOSSNAY unit: Heat Recovery/Bypass/Auto *Auto mode is for CITY MULTI R2 and WR2 Series only.                                                                                                                          | 004                                         | 0       |
| Temperature setting                                                 | Changes the set temperature.  * Set temperature range varies depending on the indoor unit model.                                                                                                                                                                                                                                                        | 004                                         | 0       |
| Fan speed setting                                                   | Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low Fan speed setting (including Auto) varies depending on the model.                                                                                                                             | 004                                         | 0       |
| Air flow direction setting                                          | Air flow direction angles, 4-angles or 5-angles Swing, Auto (Louver cannot be set)                                                                                                                                                                                                                                                                      | $\bigcirc\bigcirc\bigcirc$                  | 0       |
| Schedule operation                                                  | Weekly schedule can be set by groups based on daily operation pattern.                                                                                                                                                                                                                                                                                  | $\bigcirc\bigcirc\bigcirc\triangle\bigcirc$ | 0       |
| Permit/prohibit local operation                                     | Individually prohibits operation of each local remote controller function.  (ON/OFF, Operation mode, Set temperature, Filter sign reset, Air Direction*, Fan Speed*, Timer*)  * This function depends on the model.                                                                                                                                     | 004                                         | 0       |
| Indoor unit intake temperature                                      | Measures the intake temperature of the indoor unit only when the indoor unit is operating.                                                                                                                                                                                                                                                              | ×                                           | 0       |
| Error                                                               | When an error is currently occurring on an air conditioning unit, the affected unit and the error code are displayed.                                                                                                                                                                                                                                   | ×                                           |         |
| Test run                                                            | This operates air conditioning units in test run mode.                                                                                                                                                                                                                                                                                                  | $\bigcirc\bigcirc\bigcirc\triangle\bigcirc$ | 0       |
| Ventilation interlock                                               | The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.                                                                                                                                                                                                                       | 0040                                        | 0       |
| External input<br>(timer connection,<br>emergency stop input, etc.) | Using a level signal or pulse signal, it is possible to input the following: Level signal: Emergency Stop Input, Batch ON/OFF, and Demand Input. Pulse signal: Batch ON/OFF or Operation Disable/Enable *Requires an external power supply and external I/O adapter (PAC-YG10HA) sold separately. Only one input can be selected from the above inputs. | ©                                           | ©       |
| Energy Management                                                   | Bar Graph: Indoor unit Electric Energy, FAN operation time, Thermo-ON time (TOTAL, Cooling, Heating) can be displayed hourly, daily, and monthly.  Line Graph: Outdoor temp., Room temp., Set temp. (Heating, Cooling) input from PAC-YG63MCA and temp. from AHC.                                                                                       | ×                                           | □ ○ ●*3 |
| Advanced HVAC Controller (AHC)                                      | The status of AHC can only be monitored.                                                                                                                                                                                                                                                                                                                | ×                                           | 0       |
| ME remote controller                                                | The status of sensor on this controller can be monitored.                                                                                                                                                                                                                                                                                               | ×                                           |         |
| Smartphone/Tablet                                                   | The specified web browser on iOS and Android OS can monitor and operate the AE-200E. *1                                                                                                                                                                                                                                                                 | 0                                           | 0       |
| New web design                                                      | Revised web screen design for a more user friendly interface. *1                                                                                                                                                                                                                                                                                        | 004                                         | 0       |
| Apportionment of power consumption                                  | Apportionment of power consumption can be calculated on the AE-200 *2                                                                                                                                                                                                                                                                                   | •                                           | □ ● *3  |
| BACnet® communication                                               | ANSI/ASHRAE 135-2010 (ISO16484-5) is supported and approved by the BTL. *1                                                                                                                                                                                                                                                                              |                                             | × *3    |

- \*1. Please contact your local distributor regarding support for this feature.
  \*2. Even when the number of indoor units is 50 or less, the system must consist of AE-200E and EW-50E/AE-50E.
  \*3. Energy Management License Pack (optional) is required.

# **Centralized Remote Controller**

# Centralized controller

# **EW-50E**



# Dimensions 209(W) x 172(H) x 92(D) mm 8-1/4(W) x 6-25/32(H) x 3-5/8(D) in.

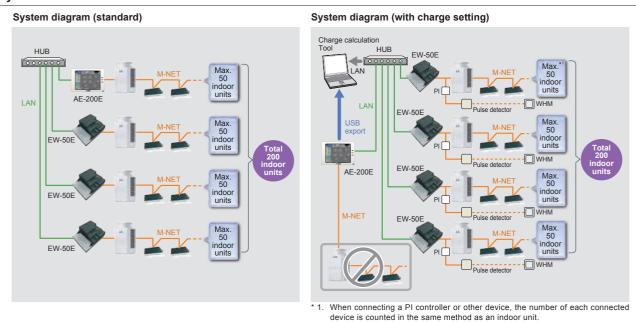
# **Main Features**

- Can be used as an expansion controller for the AE-200E
   Up to 200 indoor units can be operated and monitored by connecting three EW-50E units to an AE-200E controller.
- Function to apportion electricity charges

The power consumption of each air conditioner can be calculated with an AE-200E controller. The calculated data can be output to a PC via a USB memory device or LAN, and billing charges can be prepared using a specific charge calculation tool.

 $^{\star}$ To use the function to apportion electricity charge, the AE-200E and EW-50E are required.

# **System Structure**



<sup>\*</sup> When the AE-200E M-NET is not used, a maximum of four EW-50E units can be connected.

# · Air conditioner units can be operated and monitored independently using a PC

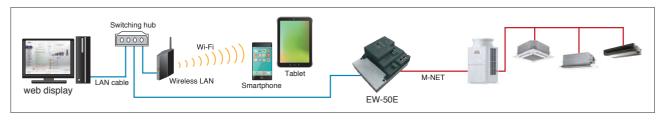
Even without an AE-200E controller, the EW-50E can operate and monitor air conditioner units using browser software\*1. Air conditioners can be operated and monitored remotely via the Internet. In addition, air conditioners in multiple buildings can be operated collectively.\*2

- \* 1. This operation has been confirmed on Internet Explorer 11, Edge or on Google Chrome ver.73, and Safari 12.

  Microsoff® Internet Explorer is a trademark or registered trademark of Microsoft Corporation in the United States and other countries.

  Google is a registered trademark of Google LLC. in the U.S. and other countries.

  Edge is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries.
  - Internet Explorer is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries.
  - Windows is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries. Safari is a trademark or registered trademark of Apple Inc. in the U.S.
- Company names and product names in this brochure may be trademarks or registered trademarks of the respective rights holder.
- \* 2. When connecting an EW-50E via the Internet, do not connect the EW-50E directly to the Internet. Instead, always connect via a router using the VPN function to ensure security.



<sup>\*</sup>For other restrictions, refer to the Installation Manual and Instruction Book.

# • Manage air conditioner usage conditions

Energy consumption of air conditioners can be displayed in an easy-to-understand manner using a web browser.

- \* Energy Management License Pack (optional) is required.
- \* For the billing function, PI Controller and watt-hour meter with pulse transmitter (locally available one) are required.







# • Operable without the transmission line power supply unit

The EW-50E unit is equipped with a power supply function. Power supplied by a transmission line power supply unit is not necessary. Since an outside power supply is not needed, self-sustained operation is possible even when the outdoor unit system is down. (In cases where the power consumption factor exceeds 1.5, a power supply unit is needed.)



# · Energy-saving control

With the addition of an energy-saving control license (optional product), the set temperature can be automatically changed\* according to the room temperature around the air conditioner unit to allow greater energy savings without sacrificing comfort.

\* 1. With this function, the set temperature can be changed in +2°C/4°F increments for cooling and -2°C/4°F increments for heating during a set time interval. In cases where the intake temperature and the set temperature are significantly different, exclusion from the energy-saving target is possible.

# **Functions**

| * The functions and speci                                          | ifications are subject to change. ©: By group or multiple groups : Sy group or multiple group : Sy group or multiple groups : Sy group or multiple groups : | ₁up ∐: Ba | itch onl |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|
| Item                                                               | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Setting   | Displa   |
| ON/OFF                                                             | Switches air conditioners and general equipment ON or OFF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0         | 0        |
| Operation mode switching                                           | Switches to cool, dry, auto, fan, or heat operation. * Some modes are not available depending on the unit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0         | 0        |
| Temperature setting                                                | Changes the set temperature.  * Set temperature range varies depending on the indoor unit model.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0         | 0        |
| Set temperature 0.5°C/1°F ncrements                                | The temperature can be set and displayed in 0.5°C/1°F increments.  * With some unit combinations, the temperature is set in 1°C/2°F increments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0         | 0        |
| an speed setting                                                   | The fan speed can be set to 4 levels, 3 levels, 2 levels, or automatic. * Available fan speeds differ depending on the unit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0         | 0        |
| Air direction setting                                              | Fixed swing in 5 levels or auto air direction can be set. * Available air directions differ depending on the unit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | O         | Ĉ        |
| Prohibition of local remote controller operation                   | It is possible to disable the ability to use to local remote controller to run or stop the operation mode, set temperature, filter sign reset, wind speed, wind direction and timer operation.  * In the Lossnay group, only ON/OFF and filter reset can be disabled.  * Disabling of the fan speed, air direction, and timer operation can be set for the AT-50B, PAR-40MAA, PAR-U02MEDA, and PAC-YT52CR models.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0         | 0        |
| Room temperature display                                           | Displays the suction temperature of the indoor unit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | _         |          |
| rror display                                                       | Displays the current error content together with the address.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _         | 0        |
| Schedule operation                                                 | Today/weekly/weekly by season/yearly Setting content: ON/OFF, operation mode, set temperature, disable local remote controller, air direction/fan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0         | 0        |
| nergy management                                                   | Displays the power consumption* or operating hours. * Optional part required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _         | 0        |
| entilator operation (solo)                                         | Group operation is be possible for free plan Lossnay units only.  * The above group operation mode includes auto ventilation, heat exchange, and normal ventilation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0         | C        |
| /entilator operation<br>(interlocked)                              | Free plan Lossnay units and indoor units can be interlocked and operated together.  * At this point, air volume can be operated, but the ventilation mode cannot be selected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0         | С        |
| External input<br>timer connection,<br>emergency stop input, etc.) | Using a level signal or pulse signal, it is possible to input the following: Level signal: Emergency Stop Input, Batch ON/OFF, and Demand Input. Pulse signal: Batch ON/OFF or Operation Disable/Enable *Requires an external power supply and external I/O adapter (PAC-YG10HA) sold separately. Only one input can be selected from the above inputs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | _        |
| xternal output (error output, operation output)                    | Using the level signal, ON/OFF, and Error/Normal are output.  * Requires an external power supply and external I/O adapter (PAC-YG10HA) sold separately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | _         |          |
| Veb browser                                                        | Monitor/operation, failure, filter sign monitoring, schedule setting, interlocked control setting (option), energy-saving control setting (option), energy-saving peak cut setting (option), set temperature range restrictions, other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.1       | 0        |
| ilter reset                                                        | Filter sign reset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0         | С        |
| Connectable location                                               | Centralized system transmission line: Connectable Recommended Indoor and outdoor transmission line: Connectable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Ĭ        |

- Functions and specifications differ depending on the connected equipment and model.
- Electric energy can be proportionally divided using the EW-50E alone
- However, the apportioned electricity charge function requires an AE-200E.

■Connectable equipment: CITY MULTI
A Mr. Slim Control (Can be connected using an M-NET adapter or special outdoor unit)
Room air conditioner (Requires a system control interface or M-NET control interface)

Al controller, PI controller, DIDO controller

\* 1. Some items do not support the multi group setting and display.

# **Centralized Remote Controller**

Advanced Touch controller

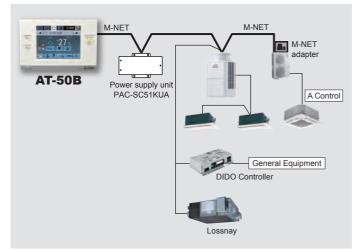
# AT-50B



Dimensions 180(W) x 120(H) x 30(D) mm 7-2/16(W) x 4-3/4(H) x 1-3/16(D) in.

The color touch panel is easy to see and operate. The operation screen can be selected according to the intended use.

# System structure



# Design

# **Backlit LCD Touch Panel**

The 5-inch color LCD (Liquid Crystal Display) touch panel enables easy and simple operations.

When the backlight is off, touching the panel turns on the backlight. The backlight will remain on for a preset length of time. The touch panel displays operation status of the units in GRID, LIST, or in GROUP form.



# GRID (zoom out) screen

Displays operation status of all groups.



# LIST screen

Displays the operation status details of each group.



# GRID (zoom in) screen

Displays the operation status details of each group by group name.



# **GROUP** screen

Displays the operation status details of each group. Sets group operations.

# **Functions**

### Controls 50 indoor units in all

One screen shows the operation conditions of 50 connected indoor units.

# Weekly and daily schedule

Five one-day schedule patterns and 12 weekly schedule patterns (max. 16 settings per pattern) Two weekly schedules can be set.

# System changeover

The operation mode can be changed according to the indoor temperature settings, target temperature of each group, or a representative indoor unit.

# Main system controller/Sub-system controller

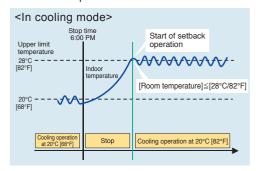
The AT-50B can be used as any of the main and sub system controllers. When it is connected to a system controller, such as the AE-200E, it is used as a sub controller. When some units of the AT-50B are connected, the main and sub controllers can be determined.

# **Functions [Basic Functions]**

- Operation mode switching
- Temperature setting
- Fan speed setting
- Airflow direction setting
- Louver setting

# Night setback function

When the room temperature goes outside of a certain range during the predetermined period, this function automatically starts heating or cooling operation to prevent dew condensation or an excessive temperature increase in the room.



# Simple button arrangement

The F1 and F2 buttons beside the main screen can be customized for frequently used functions.

(Schedule/Operation Mode/Temperature Correction/Remote Controller Restriction)

# Advanced Functions

☐: Each unit ☐: Each group ☐: Group or collective X: Not available Operations Display Description The ON/OFF, operation mode, setting temperature, fan speed, air direction, filter sign reset operations, and timer using the local remote controllers can be prohibited. Only ON/OFF and filter reset can be prohibited for the LOSSNAY group. \*The settable items vary depending on the models. Permit / Prohibit 0 0 The operation lock can be set to the input operation of the AT-50B. Each button can be set. (Function Button 1, Function Button 2, Collective ON/OFF, Touch Panel) Each function can be set. (Operation mode, Setting temperature, Fan speed, Menu button) The password for the lock release can be set. Operation lock 0 0 When an error is occurring on an air conditioner unit, the affected unit and the error code are displayed.

\*When an error occurs, the "ON/OFF" LED flashes. The operation monitor screen shows on abnormal icon over the unit. The error monitor screen shows the abnormal unit address and error code. The error log monitor screen shows the time and date, the abnormal unit address, error code, and source of detection. Error display ПО Ventilation (independent) Switches the mode "Bypass/Heat recovery/Auto" for LOSSNAY groups. 0 0 The LOSSNAY will run in interlock with the operation of the indoor unit. The mode cannot be changed. The LED will turn ON during operation after interlocking. Ventilation (interlocked) 0 0 Temperature set Batch-setting to temperature range limit in cooling, heating, and auto modes. This function cannot be used with the MA remote controller. (Depends on the indoor unit model.) 0 0 When set as the main controller, operation of the following modes with the local remote controllers can be prohibited: When cooling is prohibited: Cooling, dry, automatic can not be chosen. When heating is prohibited: Heating, automatic can not be chosen. When cooling/heating is prohibited: Cooling, dry, heating, automatic can not be chosen. Specific mode operation prohibit (Cooling prohibit, heating prohibit, cooling/heating prohibit) 0 0 The following input with level signals or pulse signals are available. Level signal: "Emergency stop input" or "Collective ON/OFF" Pulse signal: "Collective ON/OFF" or "Local remote controller prohibit/permit" One input can be selected from those above.

\* An external input/output adapter (PAC-YT51HAA (sold separately)) is required. Relays and DC power supply or other devices must be prepared at the site. External input (Emergency stop input, etc.) 0 0 "ON/OFF" and "error/normal" are output with the level signal.

\* An external input/output adapter (PAC-YT51HAA (sold separately)) is required. External output (Error output, operation output) 0 0 Relays and DC power supply or other devices must be prepared at the site Use this function to check for a refrigerant leak from the outdoor unit.

\* When this function is used, the gas amount checking function of the outdoor unit cannot be used. This function is for CITY MULTI R2 and Y (PUMY is excluded.) Series only. Checking the Gas Amount Weekly schedule setting of up to 12 patterns is available.
In one pattern, up to 16 settings for "ON/OFF", "Operation mode", "Set Temperature", "Fan speed", "Air flow direction", and "Permit / Prohibit local operation" can be scheduled.
Two types of weekly schedules (Summer/Winter) can be set. Today's schedule allows setting of up to 5 patterns.  $\bigcirc$ Schedule operation  $\bigcirc$ 

Depending on the installation conditions, power supply unit (PAC-SC51KUA) is required. Please contact your local distributor or MITSUBISHI ELECTRIC branch office for further information

# **Centralized Remote Controller**

ON/OFF remote controller

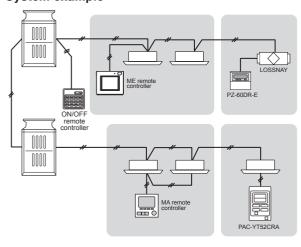
# PAC-YT40ANRA

Just press a switch to start. All of the units can be switched ON/OFF by pressing the main switch, and each unit in the group can be switched ON/OFF with individual switches. The PAC-YT40ANRA also has a hardwired connection available (ON/OFF input, fire alarm input, run output, fault output).



Dimensions 130(W) x 120(H) x 19(D) mm 5-1/8(W) x 4-3/4(H) x 3/4(D) in.

# System example



### • Control of up to 16 groups/50 indoor units is possible

- ■Up to 16 groups/50 units can be operated with one ON/OFF remote controller.
- A general-purpose interface is available for control, allowing general devices to also be turned ON and OFF.

# Just press a switch to start

■All of the units can be started and stopped by pressing the main switch, and each unit in the group can be started and stopped with individual switches.

### · LED flashing during failure

If any error should occur in the air conditioner, its details can be confirmed easily with the flashing LED. The LED also indicates whether each group is running or stopped.

### • Interlock operation with external system is possible

It can be flexibly interlocked with a card reader, fire alarm system, or building management system, etc., using the incorporated external input/output function.

### Flexible group setting

- Groups can be easily configured, allowing the group pattern to be freely set according to the layout.
- ■The ON/OFF remote controller can be connected at the indoor/outdoor transmission line without the power supply unit.

### NOTE

The dual set point function is available depending on the controller version. Please contact your local distributor regarding the availability of this function.

○: Each group □: Batch only ×: Not available

| Function                               | Description                                                                                                                                                                         |            | PAC-YT40ANRA |  |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|--|
| UNITS                                  | Max No.Units                                                                                                                                                                        | 50 units/1 | 6 groups     |  |
|                                        |                                                                                                                                                                                     | Operations | Display      |  |
| ON/OFF                                 | ON and OFF operation                                                                                                                                                                | 0          | 0            |  |
| Error indication                       | LED flashes during failure. (The error code can be confirmed by removing the cover.)                                                                                                | ×          | 0            |  |
| Ventilation operation (Independent)    | Group operation of only LOSSNAY units possible. *Only ON/OFF of group.                                                                                                              | 0          | 0            |  |
| Ventilation operation<br>(Interlocked) | The LOSSNAY will run in interlock with the operation of the indoor unit.  *The fan rate and mode cannot be changed.  The LED will turn ON only during operation after interlocking. | 0          | 0            |  |
| External input                         | On and Off operation / Fire Alarm*                                                                                                                                                  |            | Х            |  |
| External output                        | On and Off operation / Faults*                                                                                                                                                      | Х          |              |  |

<sup>\*</sup> Applicable to collective only Not applicable to groups

# **Individual Remote Controller**

# Wired MA remote controller

# PAR-40MAA



Dimensions

120(W) x 120(H) x 14.5(D) mm 4-23/32(W) x 4-23/32(H) x 37/64(D) in.

# **Highlight display**

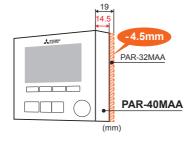
The screen background can be set to black to suit the ambience of the room.



\*Factory setting : White

### More slim

Compared to the previous version (PAR-32MAA), This remote controller is slimmer by 4.5 mm (depth), allowing for more flexible installation.



# • Backlit LCD (Liquid Crystal Display)

Large, easy-to-see display
Full-dot LCD display with large characters for easy viewing
Contrast also adjustable

# Night Setback

When the room temperature goes outside of a certain range during the predetermined period, this function automatically starts heating or cooling operation to prevent dew condensation or an excessive temperature increase in the room.

# • 3D i-see sensor\*

Settings for 3D i-see sensor can be performed.

### Draft reduction\*

"Close" has been added to the manual vane angle selection. The air outlet can be closed to reduce drafts from the air conditioner.

# Auto descending panel\*

Panels can be lowered/raised using the remote controller. The descending distance of the panel can also be selected.

# Functions O: Each group X: Not available

| Item                             | Description                                                                                                                                                                                                                                                                                                                        | Operations | Display |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|
| ON/OFF                           | Switches between ON and OFF.                                                                                                                                                                                                                                                                                                       | 0          | 0       |
| Operation mode switching         | Switches between Cool / Dry / Fan / Auto / Heat.                                                                                                                                                                                                                                                                                   | 0          | 0       |
| Room temp. setting               | Changes the set temperature.  * Set temperature range varies depending on the indoor unit model.                                                                                                                                                                                                                                   | 0          | 0       |
| Air flow direction setting       | Changes airflow direction.  * Available airflow directions vary depending on the model.                                                                                                                                                                                                                                            | 0          | 0       |
| Louver setting                   | Switches between louver ON/OFF.                                                                                                                                                                                                                                                                                                    | 0          | 0       |
| Ventilation equipment control    | Interlocked setting and interlocked operation setting with CITY MULTI LOSSNAY units can be performed. The Stop/Low/High settings of the ventilation equipment can be controlled.                                                                                                                                                   | 0          | 0       |
| Error information                | When an error occurs, an error code and the unit address appear.  Air conditioning unit model, serial number, and contact number can be set to appear when an error occurs.  (The above information needs to be entered in advance.)  * An error code may not appear depending on the error.                                       | _          | 0       |
| Timer                            | ON/OFF timer Turns ON and OFF daily at a set time.  • Time can be set in 5-minute increments.  • It is also possible to set the ON time only or the OFF time only.  Auto-OFF timer Turns off the unit after a certain period of operation.  • Operation time can be set to a value from 30 to 240 minutes in 10-minute increments. | 0          | 0       |
| Allows/disallows local operation | The following operation can be prohibited by applying certain settings on the centralized controller: ON/OFF, operation mode, temperature, filter sign reset, air direction, fan speed and timer.  * While an operation is prohibited, the operation icon lights up (only on the Main display in "Full" mode).                     | х          | 0       |
| Operation lock                   | The following operations can be prohibited: "Location," "ON/OFF," "Mode," "Set temp.," "Menu," "Fan," "Louver," or "Vone."                                                                                                                                                                                                         | 0          | 0       |
| Temperature range restriction    | The room temperature range for each operation mode can be restricted.                                                                                                                                                                                                                                                              | 0          | 0       |
| Auto return                      | The units operate at the preset temperature after a designated period. (Time can be set to a value from 30 to 120 minutes in 10-minute increments.)  * Not valid when the temperature setting range is restricted.                                                                                                                 | 0          | ×       |
| Daylight saving time             | The start / end time for daylight saving time can be set. The daylight saving time function will be activated based on the setting contents.                                                                                                                                                                                       | 0          | 0       |

<sup>\*</sup>The availability of the function depends on the indoor unit model. For details, please contact your local distributor.

# **Individual Remote Controller**

# ME remote controller

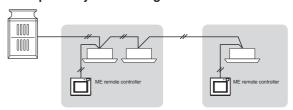
# PAR-U02MEDA



Dimensions

140(W) x 120(H) x 25(D) mm 5-9/16(W) x 4-3/4(H) x 1(D) in.

# Example of system configuration



# Occupancy Sensor

The occupancy sensor detects when the room is empty and provides energy-saving control.

# • Touch Panel & Backlit LCD

The operation settings screen is a touch panel. When the backlight is off, touching the panel turns on the backlight. The backlight will remain on for a preset length of time.

# LED Indicator

The color of the LED indicator indicates operation status. The LED indicator is lit during normal operations, and is not lit when units are stopped. In case of error, the indicator blinks.

# • Brightness Sensor

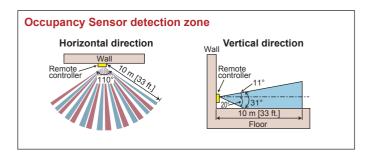
The brightness sensor detects brightness in the room and provides energy-saving control.

# • Temperature & Humidity Sensor

The sensor detects room temperature and relative humidity.

# • Device control via AHC (Advanced HVAC Controller)

Products from other manufacturers can be connected via AHC.



| Functions                          | O:                                                                                                                                                                                                                                                                                                                                        | Each group | <: Not available € |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|
| Item                               | Description                                                                                                                                                                                                                                                                                                                               | Operations | Display            |
| ON/OFF                             | Switches between ON and OFF.                                                                                                                                                                                                                                                                                                              | 0          | 0                  |
| Operation mode switching           | Switches between Cool / Dry / Fan / Heat / Auto. Operation modes vary depending on the indoor unit model.                                                                                                                                                                                                                                 | 0          | 0                  |
| Temperature setting                | Changes the set temperature.  * Set temperature range varies depending on the indoor unit model.                                                                                                                                                                                                                                          | 0          | 0                  |
| Fan speed setting                  | Changes fan speed.  * Available fan speeds vary depending on the model.                                                                                                                                                                                                                                                                   | 0          | 0                  |
| Air flow direction setting         | Changes airflow direction.  * Available airflow directions vary depending on the model.                                                                                                                                                                                                                                                   | 0          | 0                  |
| Allows/disallows local operation   | The following operation can be prohibited by applying certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset.  * While an operation is prohibited, the operation icon lights up.                                                            | ×          | 0                  |
| Error information                  | When an error occurs, an error code and the unit address appear. A contact number can be set to appear when an error occurs. (The information above needs to be entered in the Service menu.)                                                                                                                                             | _          | 0                  |
| Schedule (Weekly timer)            | Weekly ON/OFF times, operation mode, and set temperatures can be set.  • Time can be set in 5-minute increments. Up to 8 schedule patterns can be set per day of the week.  * Not valid when the ON/OFF timer is set.                                                                                                                     | 0          | 0                  |
| Timer                              | ON/OFF timer Turns ON and OFF daily at a set time.  • Time can be set in 5-minute increments.  • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer Turns off the unit after a certain period of operation.  • Operation time can be set to a value from 30 to 240 in 10-minute increments.                 | 0          | 0                  |
| Energy-save control during vacancy | When vacancy is detected by the occupancy sensor, the energy-save control assist function is activated. Four control types are available for selection:  ON/OFF/Set temperature/Fan speed/Thermo-off.  The brightness sensor can be used in conjunction with the occupancy sensor to detect the occupancy/vacancy status more accurately. | 0          | 0                  |



# **Example of use of PAR-U02MEDA**

# Automatic turning off air conditioners

For Hotels

Mitsubishi Electric remote controller has an occupancy sensor to automatically turn off the air conditioner when the room is empty.

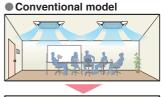
With ME Remote Controller

# The air conditioner is running in an empty room.

The combination of an occupancy sensor and a brightness sensor stops unnecessary operation of the air conditioner.

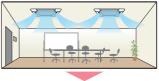
The occupancy sensor of the ME remote controller detects the conditions in the room, and the ME remote controller will automatically turn the air conditioners on or off.

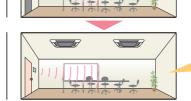
**For Offices** 





ME remote controller detects people in the room working/during a meeting and keeps the air conditioners on.





**ME Remote** 

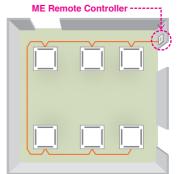
Controller

ME remote controller detects there are no people in the room after office hours or when the room is not used, and automatically turns off the air conditioners.



For Offices

For Commercial Facilities



used also as remote controller line

With ME Remote Controllers:

Installation of partition

No construction for cutting the wiring is required.

The ME remote controller can be operated when it is connected with any of the indoor units.

When changing the room layout, you can set the groups easily with the remote controller.

# **MA** remote controller

# PAR-CT01MAA-S



Dimensions

65(W) x 120(H) x 14.1(D) mm 2-9/16(W) x4-3/4(H) x 9/16(D) in.

# **User-friendly**

Full color touch panel display



Touch Panel



3.5 inch/HVGA Full Color LCD

User-friendly

display.
• Flexibility



Temperature setting



Large icons are easily visible on the full color touch panel

Customized display, color of parameter and background,

editable parameter on the initial display.

Operation mode



Fan speed



/ane control



Ventilation



Louver control

# **Flexibility**

# Multiple color patterns

180 color patterns can be selected for the display's control parameters or background.

# **Control parameter customization**

Users can customize the panel to display the selected parameters only.











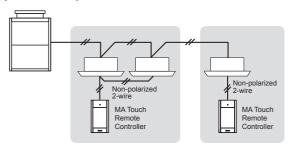
Available in a wide variety of colors to suit the decor of any room.





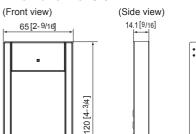
Unit: mm[in.]

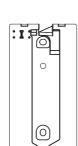
# System example



 $^{*}\mbox{When a PAR-CT01MAA}$  is connected to a group, no other MA remote controllers can be connected to the same group.

# **External dimension**





(Rear view)

| Functions | ): Each group | X: Not available |
|-----------|---------------|------------------|
|-----------|---------------|------------------|

| i unctions                       | <u>O</u> .                                                                                                                                                                                                                                                                                                                     | Each group | X. NUL available |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|
| Item                             | Description                                                                                                                                                                                                                                                                                                                    | Operations | Display          |
| ON/OFF                           | Switches between ON and OFF.                                                                                                                                                                                                                                                                                                   | 0          | 0                |
| Operation mode switching         | Switches between Cool / Dry / Fan / Auto / Heat.                                                                                                                                                                                                                                                                               | 0          | 0                |
| Temperature setting *1           | Changes the set temperature.  * Set temperature range varies depending on the indoor unit model.                                                                                                                                                                                                                               | 0          | 0                |
| Air flow direction setting       | Changes airflow direction.  * Available airflow directions vary depending on the model.                                                                                                                                                                                                                                        | 0          | 0                |
| Louver setting                   | Switches between louver ON/OFF.                                                                                                                                                                                                                                                                                                | 0          | 0                |
| Ventilation equipment control    | Interlocked setting and interlocked operation setting with CITY MULTI Lossnay units can be performed. The Stop/Low/High settings of the ventilation equipment can be controlled.                                                                                                                                               | 0          | 0                |
| Daylight saving time             | The start/end time for daylight saving time can be set. The daylight saving time function will be activated based on the settings.                                                                                                                                                                                             | 0          | 0                |
| Error information                | When an error occurs, an error code and the unit address appear. Air conditioning unit model, serial number, and contact number can be set to appear when an error occurs. (The information above needs to be entered in advance.) * An error code may not appear depending on the error.                                      | _          | 0                |
| Touch panel                      | The touch panel can be cleaned and calibrated.                                                                                                                                                                                                                                                                                 | _          | 0                |
| Timer                            | ON/OFF timer Turns ON and OFF daily at a set time. • Time can be set in 5-minute increments. • It is also possible to set the ON time only or the OFF time only. Auto-OFF timer Turns off the unit after a certain period of operation. • Operation time can be set to a value from 30 to 240 minutes in 10-minute increments. | 0          | 0                |
| Allows/disallows local operation | The following operation can be prohibited by applying certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, and filter sign reset.  * While an operation is prohibited, the operation icon lights up (only on the Main display in "Full" mode).                                 | ×          | 0                |
| Operation lock                   | The following operations can be prohibited: "Location." "ON/OFF," "mode." "Set temp." "Menu." "Fan." "Louver." or "Vane."                                                                                                                                                                                                      | 0          | 0                |
| Temperature range restriction    | The room temperature range for each operation mode can be restricted.                                                                                                                                                                                                                                                          | 0          | 0                |
| Auto return                      | The units operate at the preset temperature after a designated period. (Time can be set to a value from 30 to 120 minutes in 10-minute increments.)  * Not valid when the temperature setting range is restricted.                                                                                                             | 0          | ×                |
| Design                           | The color of the screen can be changed.                                                                                                                                                                                                                                                                                        | 0          | 0                |
|                                  |                                                                                                                                                                                                                                                                                                                                |            |                  |

<sup>\*1</sup> Temperature will be displayed either in Celsius in 0.5- or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.

# **Individual Remote Controller**

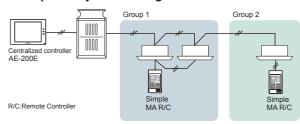
# Simple remote controller

# PAC-YT52CRA (MA)



70(W) x 120(H) x 14.5(D) mm 2-3/4(W) x 4-3/4(H) x 19/32(D) in.

# **Example of system configuration**



# Backlit LCD

Backlight for operation in dark areas

Slim and flat type. Hole-free installation on walls Less than 14.5 mm [19/32 in.] thick.

# Vane button (standard)

A vane adjustment button has been added to allow the user to change the direction of the air flow (ceiling-cassette and wall-mounted types).

Pressing the [3,0] button will switch the vane directions.



- \* Air flow direction settings will vary depending on the connected indoor unit model.
- \* For models without a vane adjustment function, air flow direction cannot be set.
- Only cross-over wiring based on two-wire signal lines is required.
- Room temperature sensor is built-in.
- Can be used to operate all types of indoor units.

\*As this controller has limited functions, please use it in conjunction with the standard controller or a central controller.

•LCD temperature settings and display are in 1°C /2°F increments.

| Functions                            | ☐: Each unit ○: Each                                                                                                                                                                                                                    | group X: N | ot available |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|
| Item                                 | Description                                                                                                                                                                                                                             | Operations | Display      |
| ON/OFF                               | Switches between ON and OFF.                                                                                                                                                                                                            | 0          | 0            |
| Operation mode switching             | Switches between Cool / Dry / Fan / Heat / Auto. Operation modes vary depending on the indoor unit model.                                                                                                                               | 0          | 0            |
| Temperature setting                  | Changes the set temperature.  * Set temperature range varies depending on the indoor unit model.                                                                                                                                        | 0          | 0            |
| Fan speed setting                    | Changes fan speed.  * Available fan speeds vary depending on the model.                                                                                                                                                                 | 0          | 0            |
| Permit /<br>Prohibit local operation | By setting a centralized controller, the following local operations can be prohibited: ON/OFF, operation mode, preset temperature.  * The CENTRAL icon appears while local operations are prohibited.                                   | x          | 0            |
| Error                                | Displays the current error status with the address.  * The address may hot be displayed depending on the error status.                                                                                                                  | ×          |              |
| Ventilation equipment                | When the CITY MULTI indoor unit is connected, interlocked setting of the CITY MULTI LOSSNAY unit is possible. When the Mr. SLIM indoor unit (A-control) is connected, interlocked operation LOSSNAY unit (LGH-R(V) X Type) is possible. | 0          | 0            |
| Set temperature range limit          | The preset temperature range can be restricted for each operation mode (COOL/HEAT/AUTO).                                                                                                                                                | 0          | 0            |

# Wireless remote controller



# PAR-FL32MA

### Dimensions

58(W) x 159(H) x 19(D) mm [2-5/16(W) x 6-5/16(H) x 3/4(D) in.]



### PAR-SE9FA-E (PLFY-P VEM-PA signal receiver)

Dimensions

273(H) x 29(D) mm



# PAR-SL100A-E

(PLFY-P VEM-PA, PLFY-P VFM-E1, PKFY-P VLM-E only)

# Dimensions

66(W) x 188(H) x 22(D) mm [2-5/8(W) x 7-13/32(H) x 7/8(D) in.]



# PAR-SF9FA-E

(PLFY-VFM-E1 signal receiver)

Dimensions

214(H) x 25.5(D) mm



# PAR-FA32MA

### Dimensions

70(W) x 120(H) x 22.5(D) mm [2-3/4(W) x 4-3/4(H) x 7/8(D) in.]





# PAR-SL94B-E

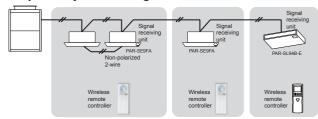
(Wireless remote controller kit for ceiling-suspended type)

### Dimensions

182(W) x 57(H) x 31(D) mm/ 58(W) x 159(H) x 19(D) mm [7-3/16(W) x 2-1/4(H) x 1-1/4(D) in.]/ [2-5/16(W) x 6-5/16(H) x 3/4(D) in.]

- No need to configure addresses for group operation
- Lit LED keeps you informed of operation the LED also provides you with error codes via the number of blinks
- Can be used with the MA remote controller
  - \*When used in group configurations, wiring between indoor units is required.
    \*Combining ME remote controller and/or LOSSNAY remote controller in a group is not possible.
- Multiple indoor units cannot be controlled from the PAR-SL100A-E Only one indoor unit can be used in each group
- LCD temperature setting and display in 1°C /2°F increments

# **Example of system configuration**



# Compatibility table

| Indoor unit model                                                                                                                   | Receiver                    | Transmitter  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------|--|
| PMFY-P VBM-E PLFY-P VLMD-E PFFY-P VKM-E PEFY-P VMR-E/R/VMH(S)-E(2) PFFY-P VLEM/VKM/VCM/ VLRM(M)-E PEFY-P VMS1(L)-E PEFY-VMA(L)(3)-E | PAR-FA32MA                  | PAR-FL32MA   |  |
| PCFY-P VKM-E                                                                                                                        | PAR-FA32MA<br>PAR-SL94B-E*1 |              |  |
| PKFY-P VLM-E                                                                                                                        | Built-in                    | PAR-FL32MA   |  |
|                                                                                                                                     |                             | PAR-SL100A-E |  |
| PKFY-P VKM-E                                                                                                                        | Built-in                    | PAR-FL32MA   |  |
| PLFY-P VEM-PA                                                                                                                       | PAR-FA32MA*2                | PAR-FL32MA*3 |  |
|                                                                                                                                     | PAR-SE9FA-E*2               | PAR-SL100A-E |  |
| PLFY-P VFM-E1                                                                                                                       | PAR-FA32MA*2                | PAR-FL32MA*3 |  |
|                                                                                                                                     | PAR-SF9FA-E*2               | PAR-SL100A-E |  |

- \*1 PAR-SL94B-E includes wireless remote controller.
- \*2 Receiver is not required when using the panel with signal receiver.
  \*3 PAR-SL100A-E is required for using direct/indirect setting and
- individual vane setting.

# **Functions**

| : Each group | X: Not available |
|--------------|------------------|
|              |                  |

| Item                              | Description                                                                                                                                                                                                                                                                                                      | Operations | Display |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|
| ON/OFF                            | ON and OFF operation for a single group                                                                                                                                                                                                                                                                          | 0          | 0       |
| Temperature setting               | Changes the set temperature. * Set temperature range varies depending on the indoor unit model.                                                                                                                                                                                                                  | 0          | 0       |
| Air flow direction setting        | Air flow direction angles (4-angle, Swing) Auto Louver ON/OFF. Air flow direction settings vary depending on the model.                                                                                                                                                                                          | *1         | *1      |
| Timer operation                   | One ON/OFF setting can be set per day.                                                                                                                                                                                                                                                                           | 0          | 0       |
| Permit / Prohibit local operation | Individually prohibit operation of each local remote control function (ON/OFF, Change operation mode, Set temperature, Reset filter).  3 If operation is performed when the local remote controller inactivation command is received from the main system controller, a buzzer will sound and an LED will flash. | ×          | O*3     |
| Ventilation equipment             | Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. The LOSSNAY will run in interlock with the operation of the indoor unit.                                                                                                                                                   | X *2       | х       |

<sup>\*1</sup> Some models will have a different display for the air flowdirection and fan speed.

Set the air flow direction and fan speed when performing initial setting.

<sup>\*2</sup> The fan rate and mode cannot be changed.

# Open network supported

The following options are available to enable connection of CITY MULTI to an open network.

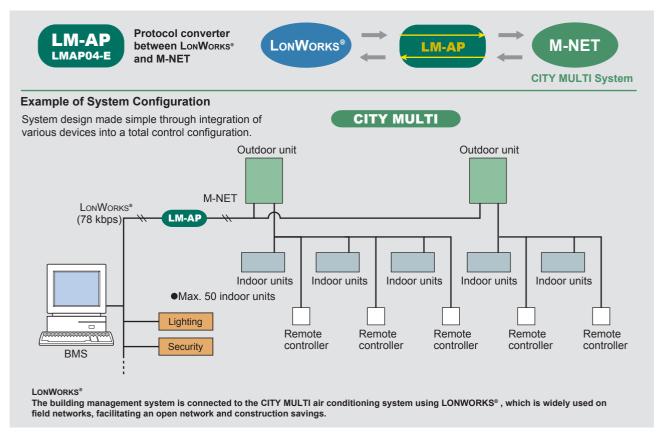
# LONWORKS® (LMAP04-E)

CITY MULTI can easily combine into a Building Management System (BMS) via the LonWorks® and M-NET adapter LMAP04-E. LonWorks® is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS management via LonWorks®.



### One LM ADAPTER unit can connect up to 50 Groups/50 indoor units

Using a single LONWORKS® adapter (LM-AP), you can connect up to a maximum of 50 indoor units.



Lon, LonWorks® and the Echelon logo are trademarks of Echelon Corporation registered in the United States and other countries.

# LonWorks® Function

| FUNCTION             | CONTENT                                                                       |
|----------------------|-------------------------------------------------------------------------------|
| Control              |                                                                               |
| ON/OFF               | ON / OFF                                                                      |
| Mode Operation       | Cool / Dry / Heat / Auto / Fan                                                |
| Set point Adjustment | Cooling 19-30°C [67-87°F], Heating 17-28°C [63-83°F], Auto 19-28°C [67-83°F]  |
| Fan Speed Control    | High / Mid-1 / Mid-2 / Low                                                    |
| Permit / Prohibit    | ON / OFF, Mode, Set point                                                     |
| Emergency Stop       | -                                                                             |
| Monitoring           |                                                                               |
| ON/OFF               | ON / OFF                                                                      |
| Mode                 | Cool / Dry / Heat / Auto / Fan                                                |
| Set point            | Cooling 19-35°C [67-95°F], Heating 4.5-28°C [40-83°F], Auto 19-28°C [67-83°F] |
| Fan Speed            | High / Mid-1 / Mid-2 / Low                                                    |
| Permit / Prohibit    | On / Off, Mode, Set point                                                     |
| Alarm State          | Normal / Error                                                                |
| Room Temperature     | -10-50°C (14-122°F)                                                           |
| Thermo ON/OFF        | ON / OFF                                                                      |

# **BACnet®**

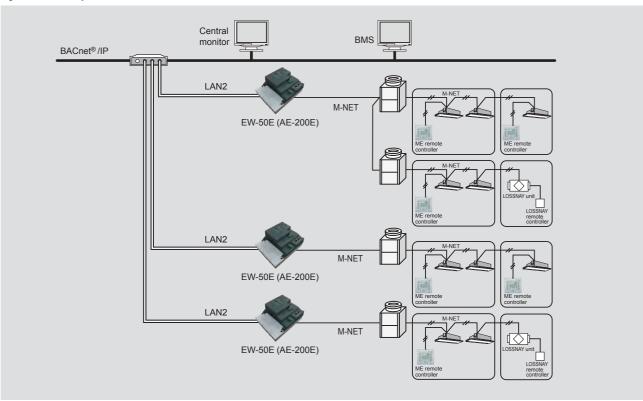
CITY MULTI can easily combine into a Building Management System (BMS) via EW-50E (AE-200E). BACnet® is an open transmission protocol widely used at BMS, and related equipment control. CITY MULTI is compatible with large-scaled BMS management via BACnet®.



# EW-50E (AE-200E) can control up to 50 units/groups (including LOSSNAY).

\*To use the BACnet® function on EW-50E (AE-200E), BACnet® license registration is required.

# System example



# **BACnet® and M-NET Function**

| FUNCTION          | CONTENT                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------|
| Operation         |                                                                                                  |
| ON/OFF            | ON/OFF                                                                                           |
| Mode              | Cool/Dry/Heat/Auto/Fan                                                                           |
| Fan Speed         | Low-Mid2-Mid1-High-Auto                                                                          |
| Air Direction     | Horizontal-60%-80%-100% swing                                                                    |
| Set Temperature   | Changes the set temperature.  * Set temperature range varies depending on the indoor unit model. |
| Filter Sign Reset | Normal/Reset                                                                                     |
| Permit/Prohibit   | ON/OFF, Mode, Filter sign reset, Set temp, Fan speed                                             |
| Forced Off        | Reset/Execute                                                                                    |
| Ventilation Mode  | Heat Recovery/Bypass/Auto                                                                        |
| Air to Water Mode | Heating/ECO/Hot Water/Antifreeze/Cooling                                                         |

| FUNCTION                      | CONTENT                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| Monitoring                    |                                                                                                  |
| ON/OFF                        | ON/OFF                                                                                           |
| Mode                          | Cool/Dry/Heat/Auto/Fan                                                                           |
| Fan Speed                     | Low-Mid2-Mid1-High-Auto                                                                          |
| Air Direction                 | Horizontal-60%-80%-100% swing                                                                    |
| Set Temperature               | Changes the set temperature.  * Set temperature range varies depending on the indoor unit model. |
| Filter Sign                   | ON/OFF                                                                                           |
| Permit/Prohibit               | ON/OFF, Mode, Filter sign reset, Set temp, Fan speed                                             |
| Indoor Temperature            | Temperature                                                                                      |
| Alarm Signal                  | Normal/Error                                                                                     |
| Error Code                    | 2 Character code- Indicates all unit alarms                                                      |
| Error Code Detail             | 4 Character code- Indicates all unit alarms                                                      |
| Communication State           | Normal/Error                                                                                     |
| Ventilation Mode              | Heat Recovery/Bypass/Auto                                                                        |
| Air to Water Mode             | Heating/ECO/Hot Water/Antifreeze/Cooling                                                         |
| Apportioned Electric Energy   | Group, Interlocked Units 0.1 kWh                                                                 |
| PI controller Electric Energy | 0.1 kWh                                                                                          |
| Apportionment Parameter       | Available*                                                                                       |
| Night Purge State             | ON/OFF                                                                                           |
| Thermo On/Off State           | ON/OFF                                                                                           |
| External Heat Source State    | ON/OFF                                                                                           |
| Trend Log                     | Indoor Temp, Apportioned Electric Energy, PI controller Electric Energy, Apportionment Parameter |

<sup>\*</sup> To use this function, the license to charge, AE-200E (not connected to the M-NET), PI controller, watt-hour meter with pulse transmitter (locally available one) are required.

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- ■Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
- Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, during repair, or at the time of disposal of the unit.
- It may also be in violation of applicable laws.
- MITSUBISHI ELECTRIC ASIA cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.
- ■Our air-conditioning equipments and heat pumps contain a fluorinated greenhouse gas, R410A.



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