




- Warning**  ● Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
  - Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.
- If you have any enquiries, please contact your local importer, distributor and/or retailer.

#### Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

*VRV* is a trademark of Daikin Industries, Ltd.  
*VRV* Air Conditioning System is the world's first individual air conditioning system with variable refrigerant flow control and was commercialised by Daikin in 1982.  
*VRV* is the trademark of Daikin Industries, Ltd., which is derived from the technology we call "variable refrigerant volume."

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AK

DAIKIN



PCTVSG1808aprv

VRV A SERIES Cooling Only 50 Hz



**VRV**

**A SERIES**

Cooling Only 50 Hz

**R-410A**

# Exceeding Boundaries with Innovative Energy Savings



New

**VRV**  
A SERIES



Promotion movie

First launched in Japan in 1982, the Daikin **VRV** system has been embraced by world markets for over 35 years. Now, Daikin proudly introduces the new **VRV A series**. By combining the technologies of **VRV**, **VRT** and **VAV**, we have attained both energy savings and comfortable air conditioning.

## VRV+VRT+VAV

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### Energy savings

Uniting **VRV**, **VRT** and **VAV** technologies

### Automatic refrigerant charge function

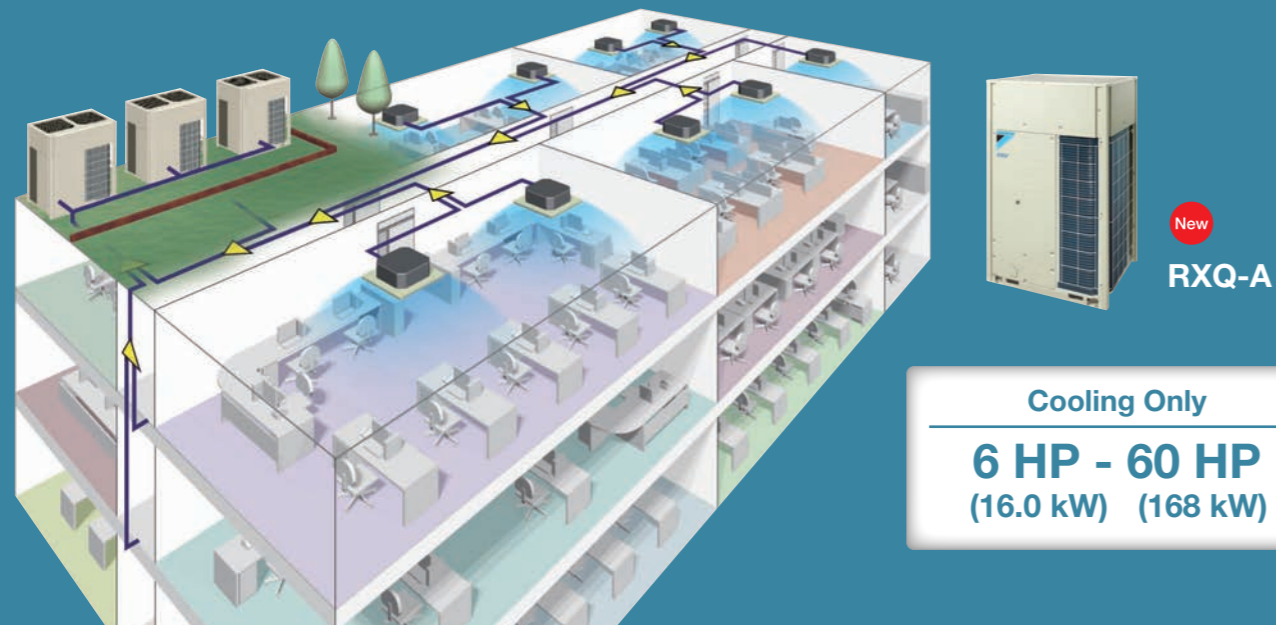
- Optimised operation efficiency
- Higher installation quality
- Easier installation

### High reliability

- New inverter PC board
- Double backup operation
- Refrigerant cooling for PC board

\* **VRV** is a trademark of Daikin Industries, Ltd.

# Saves Space and Delivers Excellent Performance



## Advanced technologies for greater energy savings

VRV+VRT+VAV

By uniting advanced **software** and **hardware** technologies for greater energy savings during actual operation and combining the technologies of VRV, VRT and VAV, we have attained both energy savings and comfortable air conditioning.

### VRT Smart Control (Fully Automatic Energy-saving Refrigerant Control)

Software technology

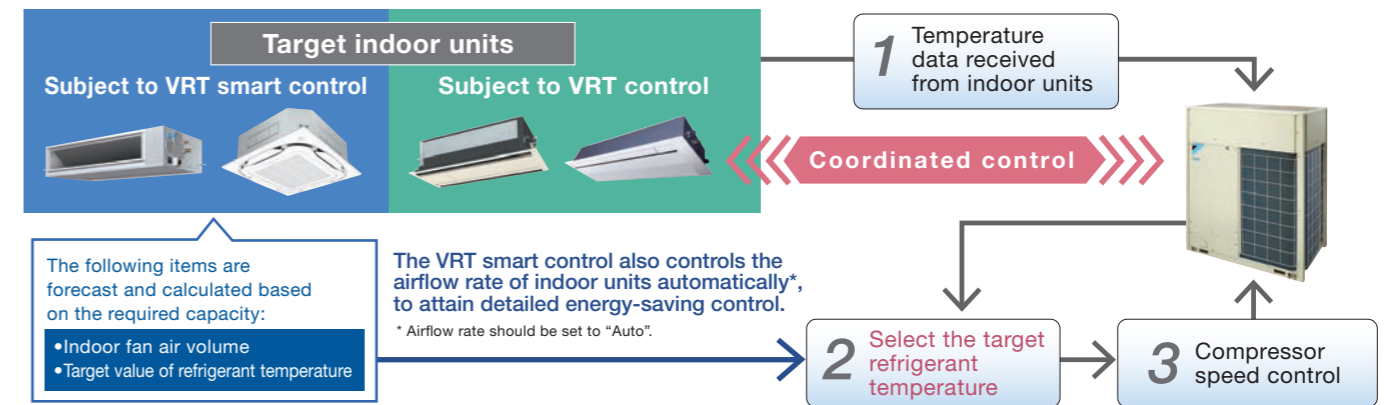
#### Optimally supply only for the needed capacity of indoor units

Daikin developed VRT smart control by combining air volume control (VAV: Variable Air Volume) for indoor units with conventional VRT control, which optimises compressor speed by calculating the required load for the entire system and optimal target refrigerant temperature based on data sent from each indoor unit. Coordination with the air volume control reduces compressor load and minimises operation loss based on detailed control. VRT smart control ensures energy savings and comfortable air conditioning to meet actual operating conditions.

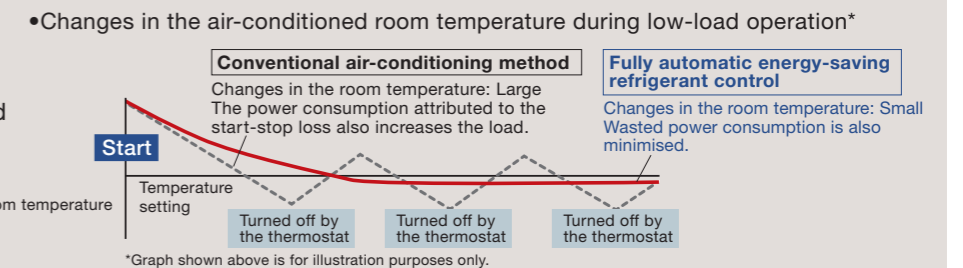


#### Overview of the control (system control flow)

Different automatic energy-saving refrigerant control applies depending on the indoor units connected.



The smooth control (which keeps the compressor running) saves energy and ensures comfort during low-load operation.



Note:  
• For the classification of indoor units (VRT smart control and VRT control), refer to page 19-20.  
• If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.  
• If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

### Optimum utilisation of VRT Smart Control and VRT Control

Effectiveness can be demonstrated for VRT Smart Control and VRT Control when all the indoor units operate under low load conditions in a similar manner.

Low load conditions are the time when room temperature approaches set temperature. For this reason, please note the following to maximise efficacy.

#### When selecting indoor units

Indoor units are installed in a system so that they operate largely under the same conditions. Energy efficiency decreases for the installation patterns shown below.

Example:

- 1) A load imbalance occurs because an indoor unit in the same system is installed near the perimeter of the room or in the vicinity of a room entrance.
- 2) Different operating hours for indoor units.

#### Time of Use

1. Energy efficiency decreases when the set temperature of a specified indoor unit is either excessively lowered during cooling operation.
2. The airflow rate setting is set to "Auto" during VRT Smart Control.

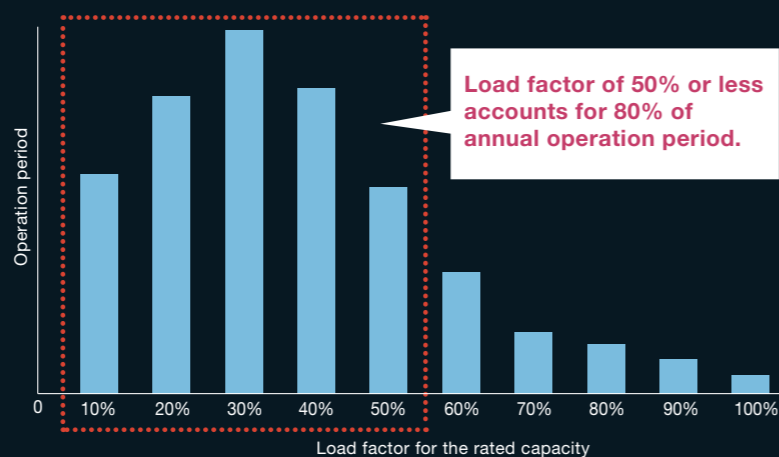
## Greater energy savings during low-load operation

### The key to innovative energy savings is to increase efficiency during low-load operation.

Using data gathered from actual operation, Daikin discovered that air conditioning systems operate at a load factor of 50% or less for 80% of their annual operation period.

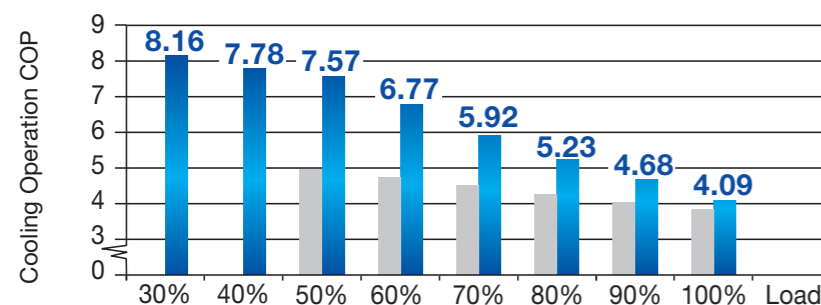
This inspired us to develop new technologies to enhance energy efficiency during low loads. Utilising these technologies, Daikin's new VRV A series raises the standard for energy efficiency.

• Correlation between the load factor for the rated capacity and operation time (in office buildings in Singapore)  
\* According to a survey by Daikin (based on Air Conditioning Network Service System data)



## Higher Coefficient of Performance (COP)

### COP for 10 HP



Annual power consumption **14%\* lower**

\* Simulation conditions :  
• Location : Bangkok, Thailand  
• System : Outdoor unit (10 HP) x 1  
Indoor unit (2 HP, Round Flow with Sensing type) x 5  
• Operation time : 8:00-20:00 5 days/week  
• Outdoor units :  
New model : RXQ10AYM (VRV A series)  
Conventional model : RXQ10TY1 (VRV IV)

VRV IV (RXQ10T)

VRV A SERIES

\*Cooling operation conditions: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB.

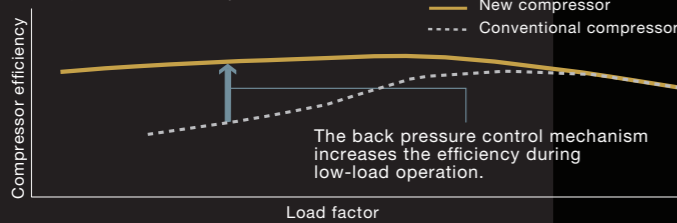
## New Scroll Compressor\*

Hardware technology

### Refrigerant leakage is minimised during low-load operation.

Operation loss due to refrigerant leakage is reduced by the proprietary back pressure control mechanism to ensure stable low-load operation.

•Compressor efficiency\*

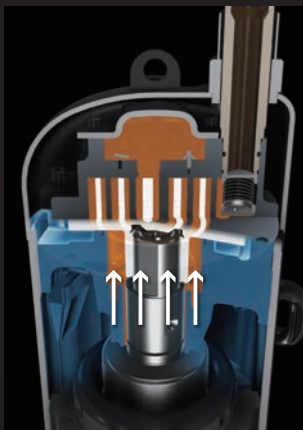


\*Graph shown above is for illustration purposes only.

### Back pressure control mechanism

#### Conventional mechanism

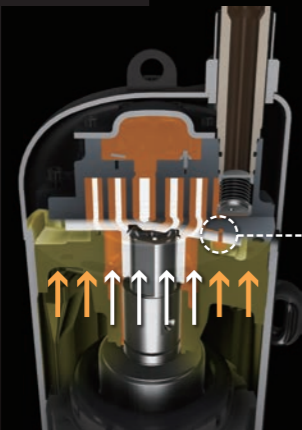
The movable scroll is pressed by the pressure difference between high and low pressures. The force pressing the movable scroll decreases during low-load operation, resulting in compression leakage from movable parts.



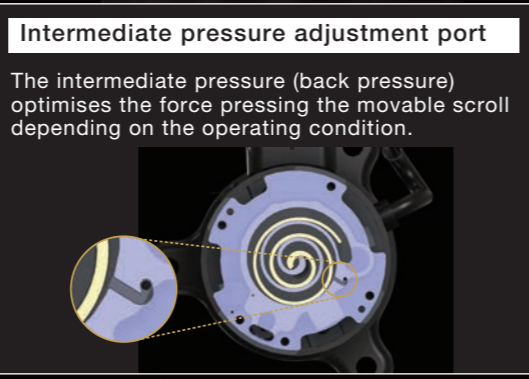
The force pressing the movable scroll decreases during low-load operation.

#### New intermediate pressure mechanism

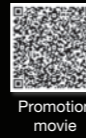
The force pressing the movable scroll is optimised according to operating conditions. The behavior of the movable scroll has been stabilised to increase efficiency during low-load operation.



The intermediate pressure keeps pressing the movable scroll during low-load operation.



\* The new mechanism is used in RXQ10,12,14 and 20A models.



Promotion movie



## Advanced oil temperature control

### Standby power consumption is reduced

The advanced oil temperature control reduces standby power consumption by up to 82.7%\* annually compared to conventional models. Standby power needed for preheating refrigerator oil, which consumed substantial standby power, was reduced to save energy when the air conditioner is stopped.

\* Operation calculation conditions: VRV A series 14 HP Location: Singapore Operation time: 08:00-18:00 on weekdays.

## Automatic refrigerant charge function

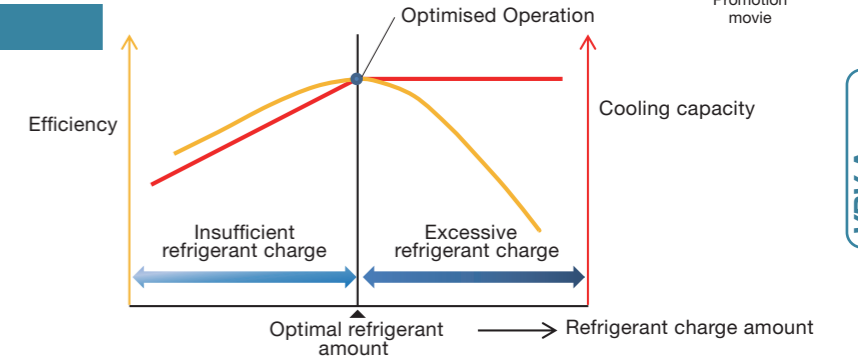
Contribute to optimised operation efficiency, higher quality and easier installation



Promotion movie

### Optimised operation efficiency

The automatic refrigerant charge function automatically determines the optimal amount of refrigerant to be charged. This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



### Higher quality and easier installation

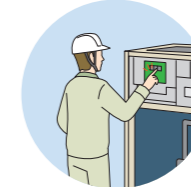
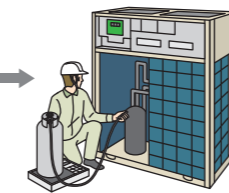
The automatic refrigerant charge function automates the charging of the proper refrigerant amount and the closing of shut-off valves by simply pressing a switch after pre-charging. Simplified installation eliminates excessive and insufficient refrigerant charge amounts due to calculation mistakes, and this has led to higher installation quality.

#### VRV IV

- 1 Calculate necessary refrigerant amount from design drawing
- 2 Recalculate refrigerant amount from final installation drawing
- 3 Charge refrigerant
- 4 Regularly check refrigerant weight on weighing scale
- 5 Complete by manually closing valves when proper weight is reached

#### VRV A SERIES

- 1 Calculation of necessary refrigerant amount from design drawing
- 2 Pre-charge of refrigerant\*
- 3 Start of automatic refrigerant charge operation



Automatic completion by proper refrigerant amount

Monitoring refrigerant charging is unnecessary

No recalculation of charge amounts due to minor design changes locally

\*Pre-charge amount changes according to conditions, and pre-charging is unnecessary when necessary refrigerant amount is 4 kg and under. Please refer to Engineering Data Book for details.

Even if a refrigerant leak occurs from local piping after installation, the proper refrigerant amount can still be charged without needing to calculate the necessary amount.

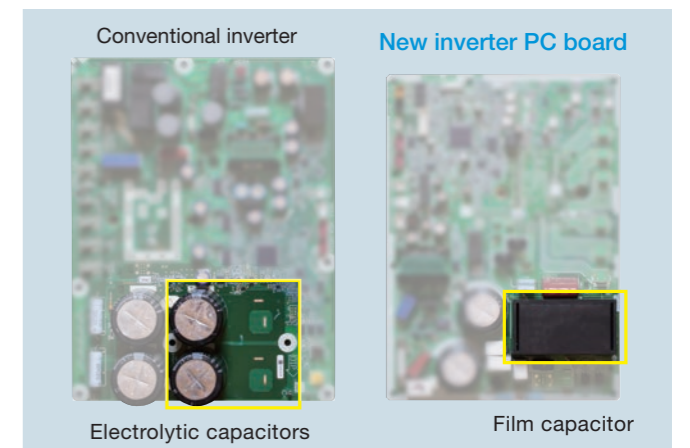
Starting the automatic refrigerant charge operation again will ensure that optimum operation efficiency and installation quality are maintained.

## High reliability

### New inverter PC board

The control functions of inverter technology have been integrated on printed circuit boards. As well as improving reliability, this has reduced the number of parts and enabled downsizing.

- New waveform control improves tolerance of variations in power supply voltage. Even if the power supply has irregularities, rises in current are suppressed and operation continues.
- Durability of the inverter printed circuit board improved by changing the electrolytic capacitors for the compressor to film capacitors.



## Comfort

### Low operation sound

High efficiency heat exchanger helps to achieve low operation sound.

	Sound level(dB(A))			
	6/8 HP	10 HP	12 HP	14/16 HP
<b>VRV A SERIES</b>	56	57	59	60

### Large airflow, high static pressure and quiet technology

Advanced analytic technologies are utilised to optimise fan design and increase airflow rate and high external static pressure.

**Streamlined air grille**

It promotes the discharge of swirling airflow, further reducing pressure loss.

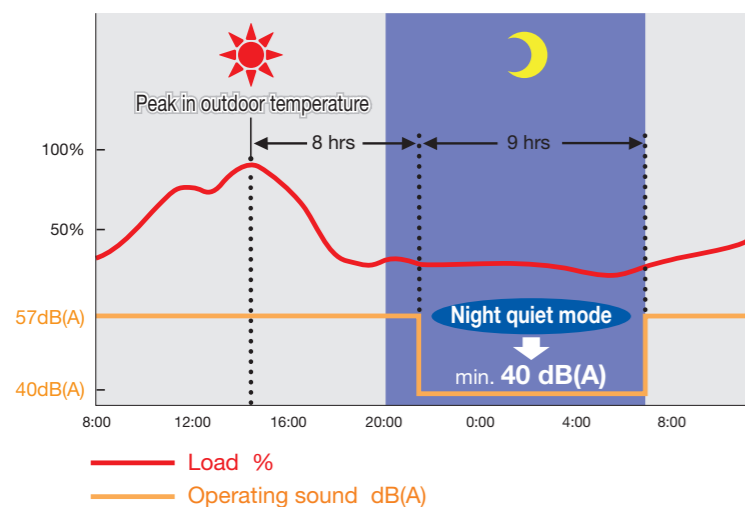
**Streamlined scroll fan**

The curvature of each fan blade edge reduces both vibration and pressure loss.

### Nighttime quiet operation function

For areas with stringent restrictions placed on outdoor sound levels, the outdoor unit can be set for low operation sound during the nighttime to meet sound restrictions. The automatic night quiet mode will initiate 8 hours\*1 after the peak temperature is reached in the daytime, and normal operation will resume 9 hours\*2 after that.

\*1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.  
 \*2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.  
 \*3. In case of 10 HP outdoor unit.



Note:  
 · This function is available in setting at site.  
 · The operating sound in quiet operation mode is the actual value measured by our company.  
 · The relationship of outdoor temperature (load) and time shown above is just an example.

## Compact design with high performance

### Highly integrated heat exchanger

The unique 4-sided all round heat exchanger ensures sufficient surface area for the heat exchanger. This improves the heat exchanger performance without increasing the footprint.

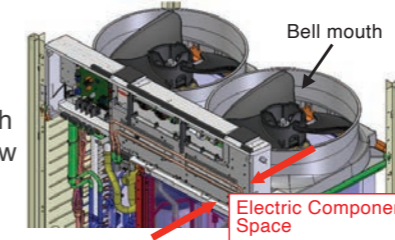
**Waffle Fin**  
 A waffled-shaped fin with fin pitch of 1.4 mm was adopted to realise sufficient heat exchanger area for optimum unit efficiency.

**4-sided heat exchanger** High efficiency heat exchanger is realised by reducing airflow resistance with adoption of small cooling tubes with a diameter of  $\Phi 7$ .

**20 HP**  
 3-row small pipe design increases heat transfer efficiency.

### Optimised inner design to ensure smooth airflow

Electric components were downsized and positioned in the dead space of the bell mouth side to decrease airflow resistance.



### Easy maintenance Electrical components

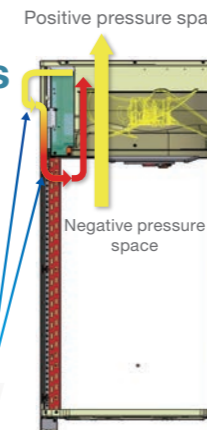
The electrical components are strategically located on the top which eases the maintenance process. Moreover, the heat exchanger on the front side can be used effectively to improve its performance.



### Sufficient cooling for electrical components

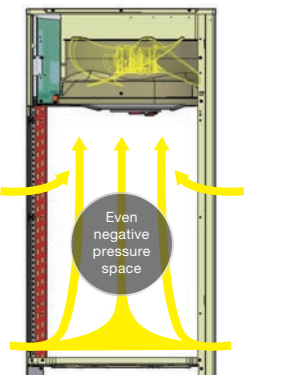
The VRV A series is designed with the electrical box strategically positioned between a region of positive and negative pressure. This design allows large airflow from negative pressure to positive pressure due to the high pressure difference.

• High pressure since air enters near the fan blower inlet



### Eliminate suction resistance issue

Without affecting the fan volume, the electric components are designed to be at the top and this utilises dead space. This eliminates the problem of suction resistance.



### High reliability at high ambient temperatures

It is possible to keep operation stable even at high ambient temperatures by cooling the inverter power module. This helps maintain air-conditioning capacity and reduces failure ratio.

Using refrigerant to cool the inverter power module helps minimise the size of the electronic components, and this results in reduction of airflow resistance and high efficiency of the heat exchanger.

Control board failure ratio at stable operation is reduced.

### Outer Rotor DC Motor (ODM)

Only Daikin has adapted an ODM with the feature of stable rotation and volumetric efficiency.

#### Advantages of ODM

- Thanks to the large diameter of the rotor,
- ① Large torque with same electromagnetic force
  - ② Stable rotation in all ranges and can be operated with small number of rotations

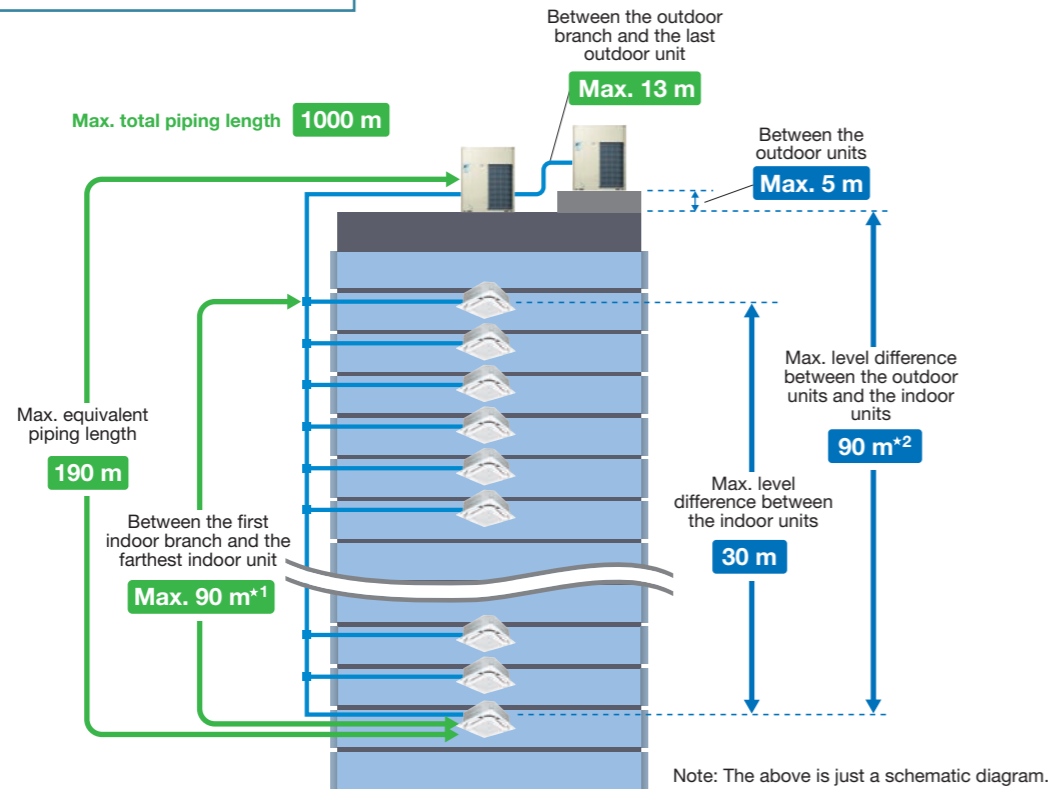
**HIGH TORQUE** with low energy **MORE efficient**

## More options for installation location

### Long piping length

The long piping length provides more design flexibility, which can match even large-sized buildings.

#### For connection of only VRV indoor units



Maximum allowable piping length	Actual piping length (Equivalent)	165 m (190 m)
	Total piping length	1000 m
Maximum allowable level difference	Between the first indoor branch and the farthest indoor unit	90 m*1
	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)
	Between the outdoor units (Multiple use)	5 m
Maximum allowable level difference	Between the indoor units	30 m
	Between the outdoor units and the indoor units	90 m*2

\*1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. Various conditions and requirements have to be met to allow utilisation of 90 m piping length. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.  
 \*2. When level differences are 50 m or more, the diameter of the main liquid piping size must be increased. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

## Connection ratio

Connection capacity at maximum is 200%.

Connection ratio  
**50%–200%**

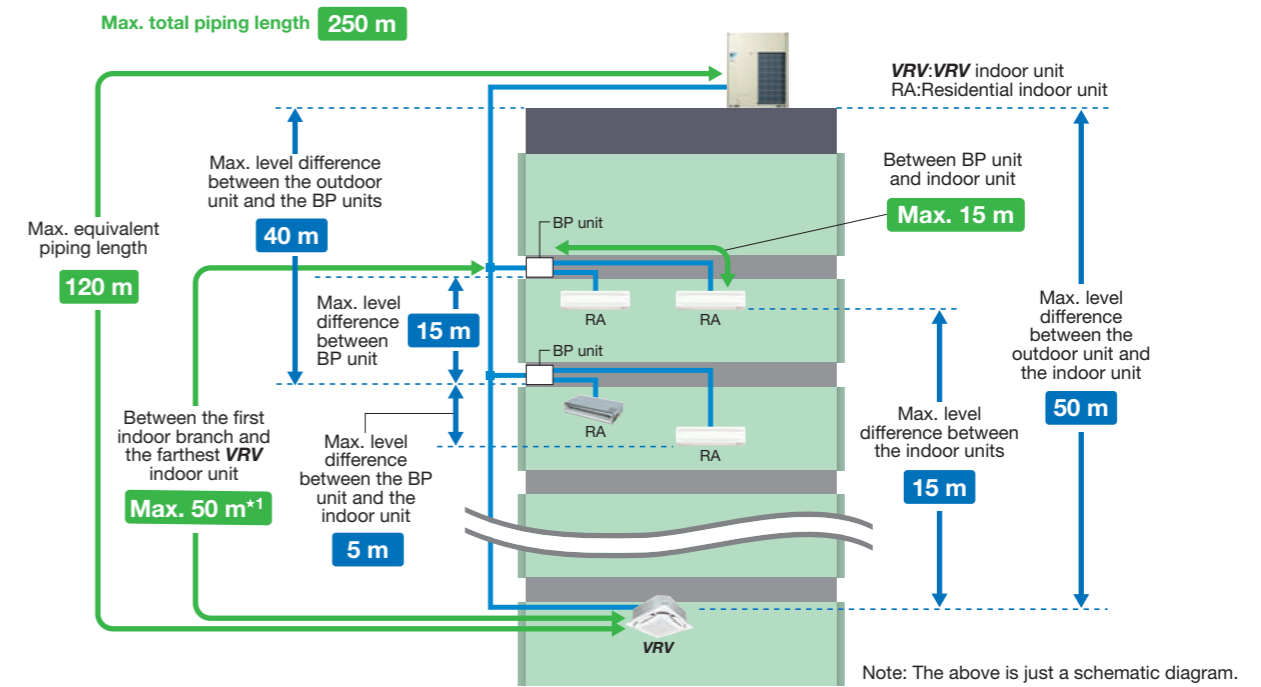
$$\text{Connection ratio} = \frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$$

#### Conditions of VRV indoor unit connection capacity

Applicable VRV indoor units	FXDQ, FXSQ, FXMQ-PA, FXAQ, FXB(P)Q models	Other VRV indoor unit models*1
Single outdoor units	<b>200%</b>	
Double outdoor units		
Triple outdoor units		

\*1 For the FXF(S)Q25 and FXVQ models, maximum connection ratio is 130% for the entire range of outdoor units.  
 Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.  
 \*Refer to page 14 for outdoor unit combination details.

#### For mixed combination of VRV and residential indoor units



#### When a mixed combination of VRV and residential indoor units is connected or when only residential indoor units are connected

Maximum allowable piping length	Actual piping length (Equivalent)	100 m (120 m)
	Total piping length	250 m
Maximum allowable level difference	Between BP unit and indoor unit	If indoor unit capacity index < 60. 2 m–15 m If indoor unit capacity index is 60. 2 m–12 m If indoor unit capacity index is 71. 2 m–8 m
	Between the first indoor branch and the farthest BP unit or between the first indoor branch and the farthest VRV indoor unit	50 m*1
	Between outdoor unit and the first indoor branch	5 m
Maximum allowable level difference	Between the indoor units	15 m
	Between BP units	15 m
	Between the outdoor unit and the indoor unit	If the outdoor unit is above. 50 m If the outdoor unit is below. 40 m
	Between the outdoor unit and the BP unit	40 m
	Between the BP unit and the indoor unit	5 m

\*1. If the piping length between the first indoor branch and BP unit or VRV indoor unit is over 20 m, it is necessary to increase the gas and liquid piping size between the first indoor branch and BP unit or VRV indoor unit. If the piping diameter of the sized up piping exceeds the diameter of the piping before the first indoor branch kit, then the latter also requires a liquid piping and gas piping size up. Please refer to Engineering Data Book for details.

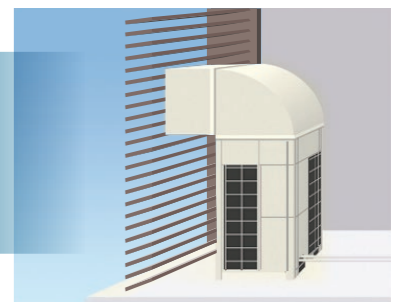
\*When a mixed combination of VRV and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 50% to 130%. Refer to page 14 for outdoor unit combination details.

## High external static pressure

VRV A series outdoor unit has been achieved high external static pressure up to 78.4 Pa, ensuring the efficient heat dissipation and stable operation of equipment in either hierarchical or intensive arrangement.

**78.4 Pa**

- More options in the opening/angle of louvre
- Outstanding heat dissipation effect in both hierarchical and intensive arrangement

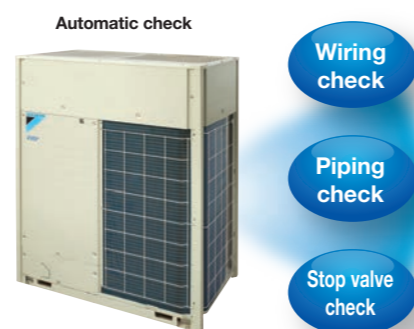


## More accurate test operation and stable system

### Efficient automatic test operation

Daikin **VRV A** series incorporates a simplified and efficient test operation function, that not only greatly accelerates the installation process, but also effectively improves the field setting quality.

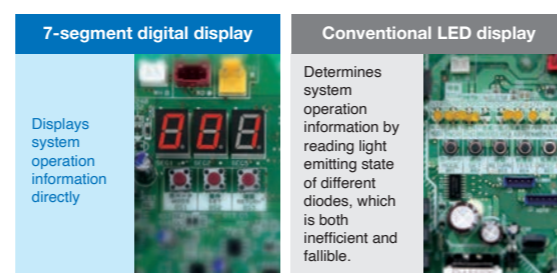
- Automatically checks the wiring between outdoor units and indoor units to confirm whether there is defective wiring.
- Confirms piping length to optimise operation.
- Automatically checks whether the stop valve in each outdoor unit is functioning normally to ensure the smooth operation of air conditioning system.



## Simplified commissioning and after-sales service

### Function of information display by luminous digital tube

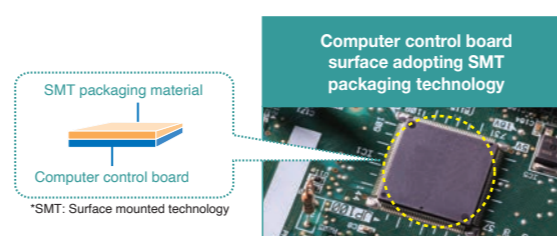
**VRV A** series utilises 7-segment luminous digital tubes to display system operation information, enabling the operational state to be visually displayed whilst facilitating simplified commissioning and after-sales service.



## Advanced control main PC board

### SMT\* packaging technology

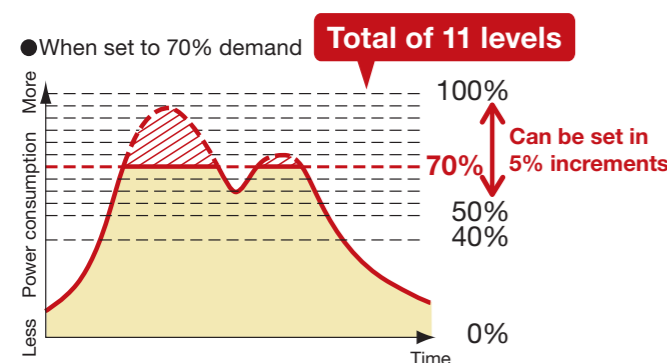
- SMT packaging technology adopted by the computer control panel improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.



## I-demand function

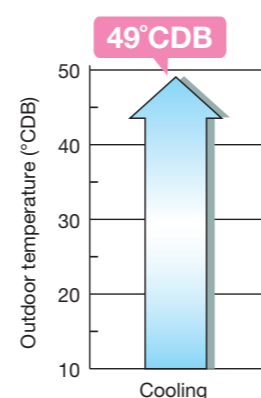
Limit to power consumption can be set precisely to one of 11 levels. Peak power cut-off can be accomplished according to each user situation.

\*Set on the circuit board of the outdoor unit.



## Wide operation temperature range up to 49°C

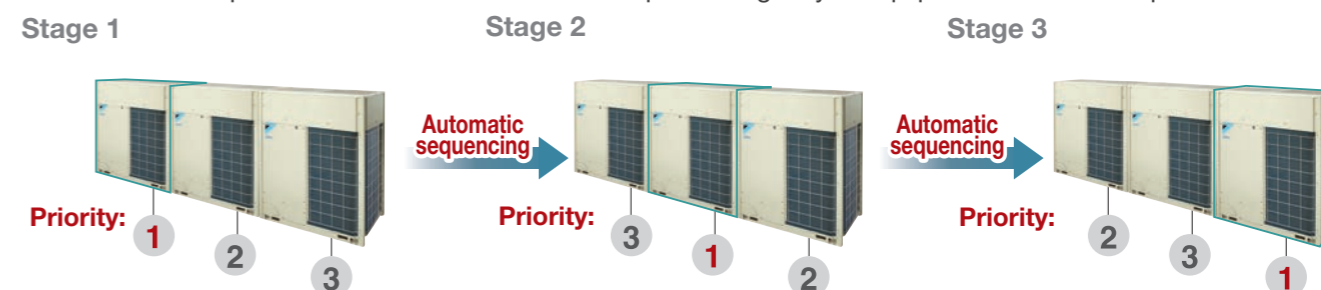
The versatile operation range of the **VRV A** series works to reduce limitations on installation locations. The operation temperature range for cooling can be performed with outdoor temperatures as high as 49°C. This enables reliable operation even under high temperature conditions.



Note: When outdoor temperature falls below 10°C, the thermostat shuts OFF, the outdoor unit stops, and operation switches from cooling to fan operation.

## Automatic sequencing operation

During start-up, Daikin **VRV A** series outdoor unit sequencing operation will be automatically enabled to ensure balance operation of each outdoor unit to improve longevity of equipment and stable operation.



## Double backup operation functions

Daikin **VRV A** series outdoor unit boasts double backup operation functions, which can secure the use of air conditioners in this area to the greatest extent in an emergency by enabling double backup operation functions even if failure occurs in a set of air conditioning equipment. In the event of a failure, emergency operation can be conveniently enabled to allow the remaining system to operate in a limited fashion.

### Unit backup operation function

If one of the units in a multiple outdoor system malfunctions, the other outdoor units provide emergency operation until repairs can be made.

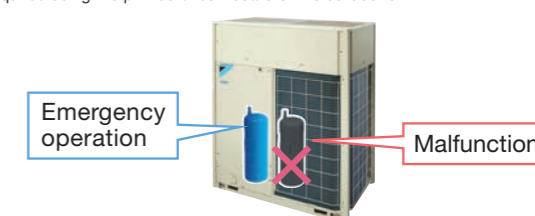
\* For systems composed of two or more outdoor units.



### Compressor backup operation function

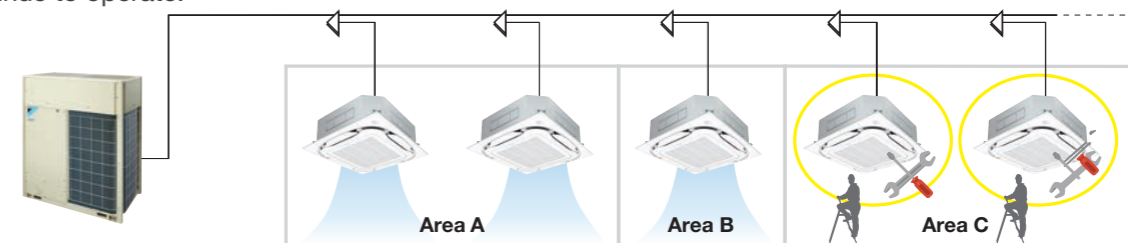
The outdoor unit is equipped with two compressors. Even if one compressor malfunctions, the other compressor provides emergency operation, reducing the risk of air conditioning shutdown due to compressor failure. (Capacity is saved during backup operation.)

\* For single outdoor unit system RXQ16-20AYM models. On-site settings are required using the printed circuit board of the outdoor unit.



## Ease of Maintenance

**VRV A** series provides a maintenance feature\* which allows the shutdown of indoor unit without shutting down the whole **VRV** system. This feature comes in handy during maintenance period as the remaining indoor units continue to operate.



\* Field setting is required. This feature does not apply to residential indoor unit connection. For more information, please contact Daikin sales office.

## VRV A Series Outdoor Units New

The outdoor unit capacity is up to 60 HP (168 kW) in increment of 2 HP.

- VRV A series outdoor unit offers a high capacity of up to 60 HP, responding to the needs of large-sized building.
- The single outdoor unit has only 2 shape and dimensions, not only simplifying the design process, but also bringing the system flexibility to a new level.
- With the outdoor unit capacity increased in increment of 2 HP, customers' needs can be precisely met.

### Lineup

HP		6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
VRV A SERIES	Single module	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Multi type	—	—	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

**•Single Outdoor Units**

**6, 8, 10, 12 HP**    **14, 16, 18, 20 HP**

RXQ6AYM, RXQ8AYM, RXQ10AYM, RXQ12AYM  
 RXQ14AYM, RXQ16AYM, RXQ18AYM, RXQ20AYM

**•Double Outdoor Units**

**16, 18, 20, 22, 24 HP**    **26, 28, 30 HP**    **28, 32, 34, 36, 38, 40 HP**

RXQ16AYM-SG, RXQ18AYM(-SG), RXQ20AYM(-SG), RXQ22AYM, RXQ24AYM  
 RXQ26AYM, RXQ28AYM, RXQ30AYM  
 RXQ28AYM-SG, RXQ32AYM, RXQ34AYM, RXQ36AYM, RXQ38AYM, RXQ40AYM

**•Triple Outdoor Units**

**30, 32, 34, 36 HP**    **38, 42, 44 HP**    **40 HP**    **42, 44, 46, 48, 50, 52, 54, 56, 58, 60 HP**

RXQ30AYM-SG, RXQ32AYM-SG, RXQ34AYM-SG, RXQ36AYM-SG  
 RXQ38AYM-SG, RXQ42AYM, RXQ44AYM  
 RXQ40AYM-SG  
 RXQ42AYM-SG, RXQ44AYM-SG, RXQ46AYM, RXQ48AYM, RXQ50AYM  
 RXQ52AYM, RXQ54AYM, RXQ56AYM, RXQ58AYM, RXQ60AYM

## Outdoor Unit Combinations

For mixed combination of VRV and residential indoor units or connection of residential indoor units only

Model name <sup>1</sup>	kW	HP	Capacity index	Total capacity index of connectable indoor units <sup>2</sup>			Maximum number of connectable indoor units
				Combination (%) <sup>2</sup>			
				50%	100%	130%	
RXQ6AYM	16.0	6	150	75	150	195	9
RXQ8AYM	22.4	8	200	100	200	260	13
RXQ10AYM	28.0	10	250	125	250	325	16
RXQ12AYM	33.5	12	300	150	300	390	19
RXQ14AYM	40.0	14	350	175	350	455	22
RXQ16AYM	45.0	16	400	200	400	520	26
RXQ18AYM	50.0	18	450	225	450	585	29
RXQ20AYM	56.0	20	500	250	500	650	32

Note: <sup>1</sup> Only single outdoor unit (RXQ6-20AYM) can be connected.  
<sup>2</sup> Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor unit.

### For connection of VRV indoor units

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit <sup>1</sup>	Total capacity index of connectable indoor units <sup>2</sup>	Maximum number of connectable indoor units <sup>2</sup>
6 HP	16.0	150	RXQ6A	RXQ6A	—	75 to 195 (300)	9 (15)
8 HP	22.4	200	RXQ8A	RXQ8A	—	100 to 260 (400)	13 (20)
10 HP	28.0	250	RXQ10A	RXQ10A	—	125 to 325 (500)	16 (25)
12 HP	33.5	300	RXQ12A	RXQ12A	—	150 to 390 (600)	19 (30)
14 HP	40.0	350	RXQ14A	RXQ14A	—	175 to 455 (700)	22 (35)
16 HP	45.0	400	RXQ16A	RXQ16A	—	200 to 520 (800)	26 (40)
18 HP	50.0	450	RXQ18A	RXQ18A	—	225 to 585 (900)	29 (45)
20 HP	56.0	500	RXQ20A	RXQ20A	—	250 to 650 (1,000)	32 (50)
16 HP	44.0	400	RXQ16AM-SG	RXQ6A + RXQ10A	BHFP22P100	200 to 520 (640)	26 (32)
18 HP	50.4	450	RXQ18AM	RXQ8A + RXQ10A		225 to 585 (720)	29 (36)
	49.5		RXQ18AM-SG	RXQ6A + RXQ12A			
20 HP	55.9	500	RXQ20AM	RXQ8A + RXQ12A		250 to 650 (800)	32 (40)
	56.0		RXQ20AM-SG	RXQ10A × 2			
22 HP	61.5	550	RXQ22AM	RXQ10A + RXQ12A		275 to 715 (880)	35 (44)
24 HP	67.0	600	RXQ24AM	RXQ12A × 2		300 to 780 (960)	39 (48)
26 HP	73.5	650	RXQ26AM	RXQ12A + RXQ14A		325 to 845 (1,040)	42 (52)
28 HP	78.5	700	RXQ28AM	RXQ12A + RXQ16A		350 to 910 (1,120)	45 (56)
	80.0		RXQ28AM-SG	RXQ14A × 2			
30 HP	83.5	750	RXQ30AM	RXQ12A + RXQ18A		375 to 975 (1,200)	48 (60)
32 HP	90.0	800	RXQ32AM	RXQ14A + RXQ18A		400 to 1,040 (1,280)	52 (64)
34 HP	95.0	850	RXQ34AM	RXQ16A + RXQ18A		425 to 1,105 (1,360)	55 (64)
36 HP	100	900	RXQ36AM	RXQ18A × 2		450 to 1,170 (1,440)	58 (64)
38 HP	106	950	RXQ38AM	RXQ18A + RXQ20A		475 to 1,235 (1,520)	61 (64)
40 HP	112	1,000	RXQ40AM	RXQ20A × 2		500 to 1,300 (1,600)	64 (64)
30 HP	83.9	750	RXQ30AM-SG	RXQ8A + RXQ10A + RXQ12A		375 to 975 (975)	48 (48)
32 HP	89.4	800	RXQ32AM-SG	RXQ8A + RXQ12A × 2		400 to 1,040 (1,040)	52 (52)
34 HP	95.0	850	RXQ34AM-SG	RXQ10A + RXQ12A × 2	425 to 1,105 (1,105)	55 (55)	
36 HP	101	900	RXQ36AM-SG	RXQ12A × 3	450 to 1,170 (1,170)	58 (58)	
38 HP	107	950	RXQ38AM-SG	RXQ12A × 2 + RXQ14A	475 to 1,235 (1,235)	61 (61)	
40 HP	114	1,000	RXQ40AM-SG	RXQ12A + RXQ14A × 2	500 to 1,300 (1,300)		
42 HP	117	1,050	RXQ42AM	RXQ12A × 2 + RXQ18A	525 to 1,365 (1,365)		
	120		RXQ42AM-SG	RXQ14A × 3			
44 HP	123	1,100	RXQ44AM	RXQ12A × 2 + RXQ20A	550 to 1,430 (1,430)		
	125		RXQ44AM-SG	RXQ14A × 2 + RXQ16A			
46 HP	130	1,150	RXQ46AM	RXQ14A × 2 + RXQ18A	575 to 1,495 (1,495)		
48 HP	135	1,200	RXQ48AM	RXQ14A + RXQ16A + RXQ18A	600 to 1,560 (1,560)	64 (64)	
50 HP	140	1,250	RXQ50AM	RXQ14A + RXQ18A × 2	625 to 1,625 (1,625)		
52 HP	145	1,300	RXQ52AM	RXQ16A + RXQ18A × 2	650 to 1,690 (1,690)		
54 HP	150	1,350	RXQ54AM	RXQ18A × 3	675 to 1,755 (1,755)		
56 HP	156	1,400	RXQ56AM	RXQ18A × 2 + RXQ20A	700 to 1,820 (1,820)		
58 HP	162	1,450	RXQ58AM	RXQ18A + RXQ20A × 2	725 to 1,885 (1,885)		
60 HP	168	1,500	RXQ60AM	RXQ20A × 3	750 to 1,950 (1,950)		

Note: <sup>1</sup> For multiple connection, the outdoor unit multi connection piping kit (separately sold) is required.  
<sup>2</sup> Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units.



## VRV A Series Outdoor Units

### RXQ-A

Model		<b>RXQ6AYM</b>	<b>RXQ8AYM</b>	<b>RXQ10AYM</b>	<b>RXQ12AYM</b>	<b>RXQ14AYM</b>			<b>RXQ16AYM</b>	<b>RXQ16AYM-SG</b>	<b>RXQ18AYM</b>	<b>RXQ18AYM</b>	<b>RXQ18AYM-SG</b>		
Combination units		—	—	—	—	—			—	<b>RXQ6AYM</b>	—	<b>RXQ8AYM</b>	<b>RXQ6AYM</b>		
		—	—	—	—	—			—	<b>RXQ10AYM</b>	—	<b>RXQ10AYM</b>	<b>RXQ12AYM</b>		
		—	—	—	—	—			—	—	—	—	—		
Power supply		3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz					3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz								
Cooling capacity	Btu/h	54,600	76,400	95,500	114,000	136,000			154,000	150,000	171,000	172,000	169,000		
	kW	16.0	22.4	28.0	33.5	40.0			45.0	44.0	50.0	50.4	49.5		
Power consumption	kW	3.38	5.17	6.84	8.70	10.7			12.9	10.2	15.3	12.0	12.1		
Capacity Control	%	25-100	20-100	13-100	12-100	11-100			10-100	8-100	10-100	7-100	8-100		
Casing colour		Ivory white (5Y7.5/1)					Ivory white (5Y7.5/1)								
Compressor	Type	Hermetically sealed scroll type					Hermetically sealed scroll type								
	Motor Output x Number of Units	kW	2.3x1	3.4x1	4.5x1	5.6x1	6.4x1			(3.5x1)+(3.5x1)	(2.3x1)+(4.5x1)	(4.0x1)+(4.0x1)	(3.4x1)+(4.5x1)	(2.3x1)+(5.6x1)	
Airflow rate	m³/min	119	178		191	257			257	119+178		257	178+178	119+191	
Dimensions (HxWxD)	mm	1,657x930x765				1,657x1,240x765				1,657x1,240x765	(1,657x930x765)+(1,657x930x765)		1,657x1,240x765	(1,657x930x765)+(1,657x930x765)	
Machine weight	kg	175		185		215			260	175+185		260	175+185		
Sound level	dB(A)	56		57	59	60			60	60		61	60	61	
Operation range	°CDB	10 to 49					10 to 49								
Refrigerant	Type	R-410A					R-410A								
	Charge	kg	5.9	6.7	6.8	7.4			8.2	5.9+6.7		8.4	5.9+6.7		
Piping connections	Liquid	φ9.5 (Brazing)			φ12.7 (Brazing)				φ12.7 (Brazing)		φ15.9 (Brazing)				
	Gas	φ19.1 (Brazing)		φ22.2 (Brazing)		φ28.6 (Brazing)				φ28.6 (Brazing)		φ28.6 (Brazing)			

Model		<b>RXQ20AYM</b>	<b>RXQ20AYM</b>	<b>RXQ20AYM-SG</b>	<b>RXQ22AYM</b>	<b>RXQ24AYM</b>			<b>RXQ26AYM</b>	<b>RXQ28AYM</b>	<b>RXQ28AYM-SG</b>	<b>RXQ30AYM</b>	<b>RXQ30AYM-SG</b>	
Combination units		—	<b>RXQ8AYM</b>	<b>RXQ10AYM</b>	<b>RXQ10AYM</b>	<b>RXQ12AYM</b>			<b>RXQ12AYM</b>	<b>RXQ12AYM</b>	<b>RXQ14AYM</b>	<b>RXQ12AYM</b>	<b>RXQ8AYM</b>	
		—	<b>RXQ12AYM</b>	<b>RXQ10AYM</b>	<b>RXQ12AYM</b>	<b>RXQ12AYM</b>			<b>RXQ14AYM</b>	<b>RXQ16AYM</b>	<b>RXQ14AYM</b>	<b>RXQ18AYM</b>	<b>RXQ10AYM</b>	
		—	—	—	—	—			—	—	—	—	<b>RXQ12AYM</b>	
Power supply		3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz					3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz							
Cooling capacity	Btu/h	191,000	191,000	191,000	210,000	229,000			251,000	268,000	273,000	285,000	286,000	
	kW	56.0	55.9	56.0	61.5	67.0			73.5	78.5	80.0	83.5	83.9	
Power consumption	kW	17.7	13.9	13.7	15.5	17.4			19.4	21.6	21.4	24.0	20.7	
Capacity Control	%	7-100	7-100	6-100	6-100	6-100			6-100	5-100	5-100	5-100	5-100	
Casing colour		Ivory white (5Y7.5/1)					Ivory white (5Y7.5/1)							
Compressor	Type	Hermetically sealed scroll type					Hermetically sealed scroll type							
	Motor Output x Number of Units	kW	(3.8x1)+(6.3x1)	(3.4x1)+(5.6x1)	(4.5x1)+(4.5x1)	(4.5x1)+(5.6x1)	(5.6x1)+(5.6x1)			(5.6x1)+(6.4x1)	(5.6x1)+(3.5x1)+(3.5x1)	(6.4x1)+(6.4x1)	(5.6x1)+(4.0x1)+(4.0x1)	(3.4x1)+(4.5x1)+(5.6x1)
Airflow rate	m³/min	297	178+191	178+178	178+191	191+191			191+257		257+257	191+257	178+178+191	
Dimensions (HxWxD)	mm	1,657x1,240x765	(1,657x930x765)+(1,657x930x765)						(1,657x930x765)+(1,657x1,240x765)		(1,657x1,240x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x930x765)+(1,657x930x765)	
Machine weight	kg	285	175+185	185+185				185+215	185+260	215+215	185+260	175+185+185		
Sound level	dB(A)	65	61	60	61	62			63				62	
Operation range	°CDB	10 to 49					10 to 49							
Refrigerant	Type	R-410A					R-410A							
	Charge	kg	11.8	5.9+6.8	6.7+6.7	6.7+6.8	6.8+6.8			6.8+7.4	6.8+8.2	7.4+7.4	6.8+8.4	5.9+6.7+6.8
Piping connections	Liquid	φ15.9 (Brazing)							φ19.1 (Brazing)		φ19.1 (Brazing)			
	Gas	φ28.6 (Brazing)			φ34.9 (Brazing)				φ34.9 (Brazing)		φ34.9 (Brazing)			

Note: Specifications are based on the following conditions:  
 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 •Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.  
 When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

VRV A SERIES

## VRV A Series Outdoor Units

### RXQ-A

Model			RXQ32AYM	RXQ32AYM-SG	RXQ34AYM	RXQ34AYM-SG	RXQ36AYM				RXQ36AYM-SG	RXQ38AYM	RXQ38AYM-SG	RXQ40AYM	RXQ40AYM-SG	RXQ42AYM
Combination units			RXQ14AYM	RXQ8AYM	RXQ16AYM	RXQ10AYM	RXQ18AYM				RXQ12AYM	RXQ18AYM	RXQ12AYM	RXQ20AYM	RXQ12AYM	RXQ12AYM
			RXQ18AYM	RXQ12AYM	RXQ18AYM	RXQ12AYM	RXQ18AYM				RXQ12AYM	RXQ20AYM	RXQ12AYM	RXQ20AYM	RXQ14AYM	RXQ12AYM
			—	RXQ12AYM	—	RXQ12AYM	—				RXQ12AYM	—	RXQ14AYM	—	RXQ14AYM	RXQ18AYM
Power supply		3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz						3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz								
Cooling capacity	Btu/h		307,000	305,000	324,000	324,000	341,000				343,000	362,000	365,000	382,000	387,000	399,000
	kW		90.0	89.4	95.0	95.0	100				101	106	107	112	114	117
Power consumption	kW		26.0	22.6	28.2	24.2	30.6				26.1	33.0	28.1	35.4	30.1	32.7
Capacity Control	%		5-100	5-100	5-100	4-100	5-100				4-100	4-100	4-100	3-100	4-100	4-100
Casing colour			Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically sealed scroll type						Hermetically sealed scroll type							
	Motor Output x Number of Units	kW	(6.4×1)+(4.0×1)+(4.0×1)	(3.4×1)+(5.6×1)+(5.6×1)	(3.5×1)+(3.5×1)+(4.0×1)+(4.0×1)	(4.5×1)+(5.6×1)+(5.6×1)	(4.0×1)+(4.0×1)+(4.0×1)+(4.0×1)				(5.6×1)+(5.6×1)+(5.6×1)	(4.0×1)+(4.0×1)+(3.8×1)+(6.3×1)	(5.6×1)+(5.6×1)+(6.4×1)	(3.8×1)+(6.3×1)+(3.8×1)+(6.3×1)	(5.6×1)+(6.4×1)+(6.4×1)	(5.6×1)+(5.6×1)+(4.0×1)+(4.0×1)
Airflow rate	m <sup>3</sup> /min		257+257	178+191+191	257+257	178+191+191	257+257				191+191+191	257+297	191+191+257	297+297	191+257+257	191+191+257
Dimensions (H×W×D)	mm		(1,657×1,240×765)+(1,657×1,240×765)	(1,657×930×765)+(1,657×930×765)+(1,657×930×765)	(1,657×1,240×765)+(1,657×1,240×765)	(1,657×930×765)+(1,657×930×765)	(1,657×1,240×765)+(1,657×1,240×765)				(1,657×930×765)+(1,657×930×765)+(1,657×930×765)	(1,657×1,240×765)+(1,657×1,240×765)	(1,657×930×765)+(1,657×930×765)+(1,657×1,240×765)	(1,657×1,240×765)+(1,657×1,240×765)	(1,657×930×765)+(1,657×1,240×765)+(1,657×1,240×765)	(1,657×930×765)+(1,657×930×765)+(1,657×1,240×765)
Machine weight	kg		215+260	175+185+185	260+260	185+185+185	260+260				185+185+185	260+285	185+185+215	285+285	185+215+215	185+185+260
Sound level	dB(A)		64	63	64	63	64				64	66	64	68	64	65
Operation range	°CDB		10 to 49						10 to 49							
Refrigerant	Type		R-410A						R-410A							
	Charge	kg	7.4+8.4	5.9+6.8+6.8	8.2+8.4	6.7+6.8+6.8	8.4+8.4				6.8+6.8+6.8	8.4+11.8	6.8+6.8+7.4	11.8+11.8	6.8+7.4+7.4	6.8+6.8+8.4
Piping connections	Liquid	mm	φ19.1 (Brazeing)						φ19.1 (Brazeing)							
	Gas	mm	φ34.9 (Brazeing)			φ41.3 (Brazeing)			φ41.3 (Brazeing)							
Model			RXQ42AYM-SG	RXQ44AYM	RXQ44AYM-SG	RXQ46AYM	RXQ48AYM				RXQ50AYM	RXQ52AYM	RXQ54AYM	RXQ56AYM	RXQ58AYM	RXQ60AYM
Combination units			RXQ14AYM	RXQ12AYM	RXQ14AYM	RXQ14AYM	RXQ14AYM				RXQ14AYM	RXQ16AYM	RXQ18AYM	RXQ18AYM	RXQ18AYM	RXQ20AYM
			RXQ14AYM	RXQ12AYM	RXQ14AYM	RXQ14AYM	RXQ16AYM				RXQ18AYM	RXQ18AYM	RXQ18AYM	RXQ18AYM	RXQ20AYM	RXQ20AYM
			RXQ14AYM	RXQ20AYM	RXQ16AYM	RXQ18AYM	RXQ18AYM				RXQ18AYM	RXQ18AYM	RXQ18AYM	RXQ20AYM	RXQ20AYM	RXQ20AYM
Power supply		3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz						3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz								
Cooling capacity	Btu/h		409,000	420,000	427,000	444,000	461,000				478,000	495,000	512,000	532,000	553,000	573,000
	kW		120	123	125	130	135				140	145	150	156	162	168
Power consumption	kW		32.1	35.1	34.3	36.7	38.9				41.3	43.5	45.9	48.3	50.7	53.1
Capacity Control	%		4-100	3-100	3-100	3-100	3-100				3-100	3-100	3-100	3-100	2-100	2-100
Casing colour			Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically sealed scroll type						Hermetically sealed scroll type							
	Motor Output x Number of Units	kW	(6.4×1)+(6.4×1)+(6.4×1)	(5.6×1)+(5.6×1)+(3.8×1)+(6.3×1)	(6.4×1)+(6.4×1)+(3.5×1)+(3.5×1)	(6.4×1)+(6.4×1)+(4.0×1)+(4.0×1)	(6.4×1)+(3.5×1)+(3.5×1)+(4.0×1)+(4.0×1)				(6.4×1)+(4.0×1)+(4.0×1)+(4.0×1)	(3.5×1)+(3.5×1)+(4.0×1)+(4.0×1)+(4.0×1)+(4.0×1)	(4.0×1)+(4.0×1)+(4.0×1)+(4.0×1)+(4.0×1)+(4.0×1)	(4.0×1)+(4.0×1)+(4.0×1)+(4.0×1)+(3.8×1)+(6.3×1)	(4.0×1)+(4.0×1)+(3.8×1)+(6.3×1)+(6.3×1)+(3.8×1)+(6.3×1)	(3.8×1)+(6.3×1)+(3.8×1)+(6.3×1)+(3.8×1)+(6.3×1)
Airflow rate	m <sup>3</sup> /min		257+257+257	191+191+297	257+257+257						257+257+257			257+257+297	257+297+297	297+297+297
Dimensions (H×W×D)	mm		(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)	(1,657×930×765)+(1,657×930×765)+(1,657×1,240×765)	(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)						(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)					
Machine weight	kg		215+215+215	185+185+285	215+215+260		215+260+260				215+260+260	260+260+260		260+260+285	260+285+285	285+285+285
Sound level	dB(A)		65	67	65						65		66	68	69	70
Operation range	°CDB		10 to 49						10 to 49							
Refrigerant	Type		R-410A						R-410A							
	Charge	kg	7.4+7.4+7.4	6.8+6.8+11.8	7.4+7.4+8.2	7.4+7.4+8.4	7.4+8.2+8.4				7.4+8.4+8.4	8.2+8.4+8.4	8.4+8.4+8.4	8.4+8.4+11.8	8.4+11.8+11.8	11.8+11.8+11.8
Piping connections	Liquid	mm	φ19.1 (Brazeing)						φ19.1 (Brazeing)							
	Gas	mm	φ34.9 (Brazeing)			φ41.3 (Brazeing)			φ41.3 (Brazeing)							

Note: Specifications are based on the following conditions:  
 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 •Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.  
 When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

VRV A SERIES

## Enhanced range of choices

A mixed combination of **VRV** indoor units and residential indoor units is enabled all in one system, opening the door to stylish and quiet indoor units.

### VRV indoor units

● New lineup
 VRT smart Indoor units subject to VRT smart control
 VRT Indoor units subject to VRT control

Type	Model Name	Capacity Range	Capacity Index																			
			0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP					
Ceiling Mounted Cassette (Round Flow with Sensing)	<span style="color: red;">●</span> FXFSQ-AVM <span style="border: 1px solid blue; padding: 2px;">VRT smart</span>		●	●	●	●	●		●	●	●	●										
Ceiling Mounted Cassette (Round Flow)	<span style="color: red;">●</span> FXFQ-AVM <span style="border: 1px solid blue; padding: 2px;">VRT smart</span>		●	●	●	●	●		●	●	●	●										
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE <span style="border: 1px solid green; padding: 2px;">VRT</span>		●	●	●	●	●															
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE <span style="border: 1px solid green; padding: 2px;">VRT</span>		●	●	●	●	●		●		●											
Ceiling Mounted Cassette (Single Flow)	<span style="color: red;">●</span> FXEQ-AV36 <span style="border: 1px solid green; padding: 2px;">VRT</span>		●	●	●	●	●															
Slim Ceiling Mounted Duct (Standard Series)	<span style="color: red;">●</span> FXDQ-PDVE (with drain pump) <span style="border: 1px solid blue; padding: 2px;">VRT smart</span>	(700mm width type)	●	●	●																	
	<span style="color: red;">●</span> FXDQ-PDVET (without drain pump) <span style="border: 1px solid blue; padding: 2px;">VRT smart</span>		●	●	●																	
	<span style="color: red;">●</span> FXDQ-NDVE (with drain pump) <span style="border: 1px solid blue; padding: 2px;">VRT smart</span>	(900/1,100mm width type)				●	●	●														
	<span style="color: red;">●</span> FXDQ-NDVET (without drain pump) <span style="border: 1px solid blue; padding: 2px;">VRT smart</span>		●	●	●																	
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1 <span style="border: 1px solid green; padding: 2px;">VRT</span>		●	●	●	●	●															
Middle Static Pressure Ceiling Mounted Duct	<span style="color: red;">●</span> FXSQ-PAVE <span style="border: 1px solid blue; padding: 2px;">VRT smart</span>		●	●	●	●	●		●	●	●	●										
Ceiling Mounted Duct	<span style="color: red;">●</span> FXMQ-PAVE <span style="border: 1px solid blue; padding: 2px;">VRT smart</span>		●	●	●	●	●		●	●	●	●										
	FXMQ-MAVE <span style="border: 1px solid green; padding: 2px;">VRT</span>													●	●							
Outdoor-Air Processing Unit	FXMQ-MFV1 <span style="border: 1px solid green; padding: 2px;">VRT</span>											●		●	●							
4-Way Flow Ceiling Suspended	FXUQ-AVEB <span style="border: 1px solid green; padding: 2px;">VRT</span>											●		●								
Ceiling Suspended	FXHQ-MAVE <span style="border: 1px solid green; padding: 2px;">VRT</span>				●							●										
Wall Mounted	FXAQ-PVE <span style="border: 1px solid green; padding: 2px;">VRT</span>		●	●	●	●	●															
Floor Standing	FXLQ-MAVE <span style="border: 1px solid green; padding: 2px;">VRT</span>		●	●	●	●	●															
Concealed Floor Standing	FXNQ-MAVE <span style="border: 1px solid green; padding: 2px;">VRT</span>		●	●	●	●	●															
Floor Standing Duct	FXVQ-NY1 <span style="border: 1px solid green; padding: 2px;">VRT</span>													●	●	●	●					
	FXVQ-NY16 (high static pressure type) <span style="border: 1px solid green; padding: 2px;">VRT</span>																			●		
Clean Room Air Conditioner	FXBQ-PVE <span style="border: 1px solid green; padding: 2px;">VRT</span>					●	●	●														
	FXBPQ-PVE <span style="border: 1px solid green; padding: 2px;">VRT</span>							●														
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Airflow rate 500-1000 m³/h																			
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h																			
Air Handling Unit	AHUR		<a href="#">Page 57</a>																		6-120 HP	

### Residential indoor units with connection to BP units

Type	Model Name	Rated Capacity (kW)	Capacity Index				
			25	35	50	60	71
Slim Ceiling Mounted Duct	FDKS-EAVMB <span style="border: 1px solid green; padding: 2px;">VRT</span>	(700 mm width type)	●	●			
	FDKS-C(A)VMB <span style="border: 1px solid green; padding: 2px;">VRT</span>	(900/1,100 mm width type)	●	●	●	●	
Wall Mounted	FTKJ-NVMW <span style="border: 1px solid green; padding: 2px;">VRT</span>		●	●	●		
	FTKJ-NVMS <span style="border: 1px solid green; padding: 2px;">VRT</span>		●	●	●		
	FTKS-DVM <span style="border: 1px solid green; padding: 2px;">VRT</span>		●	●			
	FTKS-BVMA <span style="border: 1px solid green; padding: 2px;">VRT</span>				●		
	FTKS-FVM <span style="border: 1px solid green; padding: 2px;">VRT</span>				●	●	●

Note: BP units are necessary for residential indoor units. Only single outdoor unit (RXQ6-20AYM) can be connected.

### VRV indoor units combine with residential indoor units in one system.

#### VRV indoor unit system



Max. 64 indoor units

- If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
- If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

#### Mixed residential and VRV indoor unit system



Max. 32 indoor units

- BP units are necessary for residential indoor units. Only single outdoor unit (RXQ6-20AYM) can be connected.
- If a system has both residential indoor units and VRV indoor units, the system is operated under VRT control.

#### Residential indoor unit system



Max. 32 indoor units

- BP units are necessary for residential indoor units. Only single outdoor unit (RXQ6-20AYM) can be connected.
- If a system has only residential indoor units, the system is operated under VRT control.

Daikin offers a wide range of indoor units includes both **VRV** and residential models responding to variety of needs of our customers that require air-conditioning solutions.

## VRV indoor units

**Ceiling Mounted Cassette (Round Flow with Sensing) Type**

**New FXFSQ-AVM**



Presence of people and floor temperature can be detected to provide comfort and energy savings.



**Ceiling Mounted Cassette (Round Flow) Type**

**New FXFQ-AVM**



360° airflow improves temperature distribution and offers a comfortable living environment.



**Ceiling Mounted Cassette (Compact Multi Flow) Type**

**FXZQ-MVE**




Quiet, compact, and designed for user comfort

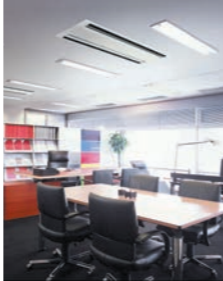


**Ceiling Mounted Cassette (Double Flow) Type**

**FXCQ-MVE**



Thin, lightweight, and easy to install in narrow ceiling spaces



**Ceiling Mounted Cassette (Single Flow) Type**

**New FXEQ-AV36**




Slim design for flexible installation

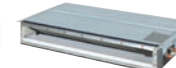


**Slim Ceiling Mounted Duct Type (Standard Series)**

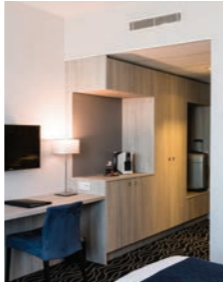
**New FXDQ-PDVE(T)**



**New FXDQ-NDVE(T)**

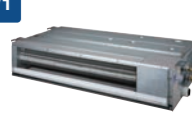


Slim design, quietness and static pressure switching




**Slim Ceiling Mounted Duct Type (Compact Series)**

**FXDQ-SPV1**



Slim and compact design for easy and flexible installation



**Middle Static Pressure Ceiling Mounted Duct Type**

**New FXSQ-PAVE**



Middle external static pressure and slim design allow flexible installations



**Ceiling Mounted Duct Type**

**New FXMQ-PAVE**



**FXMQ-MAVE**



High external static pressure allows flexible installations



**Outdoor-Air Processing Unit**

**FXMQ-MFV1**



Combine fresh air treatment and air conditioning, supplied from a single system.



**4-Way Flow Ceiling Suspended Type**

**FXUQ-AVEB**

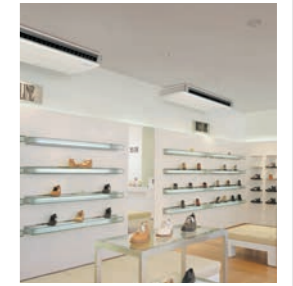
This slim and stylish indoor unit achieves optimum air distribution, and can be installed without the need for ceiling cavity



**Ceiling Suspended Type**

**FXHQ-MAVE**

Slim body with quiet and wide airflow



**Wall Mounted Type**

**FXAQ-PVE**

Stylish flat panel design harmonised with your interior décor



**Floor Standing Type**

**FXLQ-MAVE**

**Concealed Floor Standing Type**

**FXNQ-MAVE**

Suitable for perimeter zone air conditioning



**Floor Standing Duct Type**

**FXVQ-NY1**

**FXVQ-NY16**  
(high static pressure type)

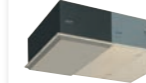


Large airflow type for large spaces. Flexible interior design for each tenant.

**Clean Room Air Conditioner**

**FXBQ-PVE**

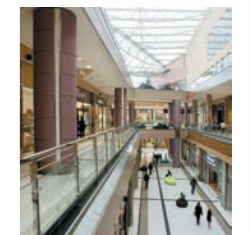
**FXBPQ-PVE**



Suitable for hospitals and other clean spaces

**Air Handling Unit**

**AHUR**



Integrate your air handling unit in a total solution for large size spaces such as factories and large stores.

## Residential indoor units with connection to BP units

**Slim Ceiling Mounted Duct Type**

**FDKS-EAVMB**

**FDKS-C(A)VMB**



Slim and smooth design suits your shallow ceiling

**Wall Mounted Type**

**FTKJ-NVMW**

**FTKJ-NVMS**



Elegant appearance with European style

**Wall Mounted Type**

**FTKS-DVM**

**FTKS-BVMA**

**FTKS-FVM**

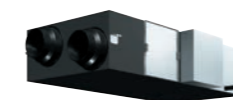


Stylish flat panel harmonises with your interior décor

## Air treatment equipment

**Heat Reclaim Ventilator with DX-Coil and Humidifier**

**VKM-GA(M)**



**Heat Reclaim Ventilator**

**VAM-GJ**





### Ceiling Mounted Cassette (Round Flow with Sensing) Type

New **FXFSQ-A**

Round flow with sensing



### Ceiling Mounted Cassette (Round Flow) Type

New **FXFQ-A**

ROUND FLOW



### New Wide variety of decoration panels (Option)

Designer choice has been given a boost with the increase in number of new types of decoration panels.



FXFSQ series only  
Standard panel with sensing



Designer panel



Standard panel

### New Designer panel (Option)

## Close to ideal styling

New designer panel

#### FLAT

Flatter styling:  
Suction panel grid texture smoothed.

#### CLEAN

Clean-cut form:  
Soiling is hard to see on smart-looking panel.

#### ROUND

Subtle distinction:  
around suction inlets silvering is a tasteful touch.

### Decoration Panel Lineup (Option)

FXFSQ series only  
**Standard panel with sensing**<sup>\*1</sup>  
BYCQ125EEF (Fresh White)

**Standard panel**<sup>\*2</sup>  
BYCQ125EAF (Fresh White)

**Designer panel**<sup>\*2</sup>  
BYCQ125EAPF (Fresh White)

**Auto grille panel**<sup>\*2</sup>  
BYCQ125EASF (Fresh White)

\*1.Sensing function is applicable when sensing panel is installed.  
\*2.These panels do not contain the sensing function.

## Specifications

### Ceiling Mounted Cassette (Round Flow with Sensing) Type

MODEL		FXFSQ25AVM	FXFSQ32AVM	FXFSQ40AVM	FXFSQ50AVM	FXFSQ63AVM	FXFSQ80AVM	FXFSQ100AVM	FXFSQ125AVM	FXFSQ140AVM
Power supply		1-phase, 220-240 V/220-230 V, 50/60 Hz								
Cooling capacity	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Power consumption		0.028		0.035	0.038	0.061	0.092	0.144	0.170	0.194
Casing		Galvanised steel plate								
Airflow rate (H/HM/M/ML/L)	m <sup>3</sup> /min	13/12.5/11.5/11/10		17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
	cfm	459/441/406/388/353		600/477/441/424/388	812/724/671/512/388	830/741/706/565/477	865/777/724/706/530	1,183/1,077/953/830/741	1,218/1,112/1,006/900/812	1,253/1,147/1,041/935/812
Sound level (H/HM/M/ML/L)		30/29.5/28.5/28/27		35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35
Dimensions (H×W×D)		256×840×840							298×840×840	
Machine weight		19			24	22		25		26
Piping connections	Liquid (Flare)	φ 6.4				φ 9.5				
	Gas (Flare)	φ 12.7				φ 15.9				
	Drain	VP25 (External Dia, 32/Internal Dia, 25)								

### Ceiling Mounted Cassette (Round Flow) Type

MODEL		FXFQ25AVM	FXFQ32AVM	FXFQ40AVM	FXFQ50AVM	FXFQ63AVM	FXFQ80AVM	FXFQ100AVM	FXFQ125AVM	FXFQ140AVM
Power supply		1-phase, 220-240 V/220-230 V, 50/60 Hz								
Cooling capacity	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Power consumption		0.029		0.036	0.040	0.063	0.096	0.158	0.178	0.203
Casing		Galvanised steel plate								
Airflow rate (H/HM/M/ML/L)	m <sup>3</sup> /min	13/12.5/11.5/11/10		17/13.5/13/12/11	18/17/13.5/12.5/11	21/20/16/15/13.5	22.5/21.5/21/20/15	32/29/26/23/21	33/30.5/28/25/21	35.5/32.5/29.5/26.5/23
	cfm	459/441/406/388/353		600/477/459/424/388	635/600/477/441/388	741/706/565/530/477	794/759/741/706/530	1,130/1,024/918/812/741	1,165/1,077/988/900/741	1,253/1,147/1,041/935/812
Sound level (H/HM/M/ML/L)		30/29.5/28.5/28/27		35/29.5/29/28/27	35/33.5/29.5/28.5/27	36/35.5/31.5/31/28	37/36.5/36/35.5/29.5	43/40.5/37.5/35/33	44/41.5/39/36.5/33	46/43.5/40.5/38/35
Dimensions (H×W×D)		256×840×840							298×840×840	
Machine weight		19			22		25		26	
Piping connections	Liquid (Flare)	φ 6.4				φ 9.5				
	Gas (Flare)	φ 12.7				φ 15.9				
	Drain	VP25 (External Dia, 32/Internal Dia, 25)								

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
  - Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
  - Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
- During actual operation, these values are normally somewhat higher as a result of ambient conditions.

### Decoration Panel (Option)

		Round Flow with Sensing Type		Round Flow Type	
		FXFSQ-A		FXFQ-A	
Standard panel with sensing	Model	BYCQ125EEF (Fresh White) / BYCQ125EEK (Black)		-	
	Dimensions(H×W×D) mm	50×950×950		-	
	Weight kg	5.5		-	
Standard panel	Model	BYCQ125EAF (Fresh White) / BYCQ125EAK (Black)		-	
	Dimensions(H×W×D) mm	50×950×950		-	
	Weight kg	5.5		-	
Designer panel	Model	BYCQ125EAPF (Fresh White)		-	
	Dimensions(H×W×D) mm	97×950×950		-	
	Weight kg	6.5		-	
Auto grille panel	Model	BYCQ125EASF (Fresh White)		-	
	Dimensions(H×W×D) mm	105×950×950		-	
	Weight kg	8		-	

### Function List

		Round Flow with Sensing Type		Round Flow Type	
		FXFSQ-A		FXFQ-A	
Remote controller	Wired	BRC1E63	-	BRC1E63	-
	Wireless	-	BRC7M635F	-	BRC7M635F
Dual sensors <sup>*1</sup>		○	○	○	○
Direct airflow <sup>*1</sup>		○	○	○	○
Sensing sensor low mode <sup>*1</sup>		○	○	○	○
Sensing sensor stop mode <sup>*1</sup>		○	○	○	○
Circulation airflow		○	○	○	○
Individual airflow direction control		○	○	○	○
Switchable 5 step fan speed		○	○	○	○
Auto airflow rate		○	○	○	○
Auto swing		○	○	○	○
Swing pattern selection		○	○	○	○
High ceiling application		○	○	○	○

\*1. Applicable when sensing panel is installed.

### Daikin Advanced Sensing Functions<sup>\*1,2</sup> **FXFSQ series only**

Ceiling Mounted Cassette (Round Flow with Sensing) Type **New FXFSQ-A**

#### Dual Sensors<sup>\*1</sup>

\*1. Applicable when sensing panel (BYCQ125EEF/EEK) is installed.  
\*2. Applicable when wired remote controller BRC1E63 is used.

Dual sensors and individual airflow direction control automatically provide optimal control of airflow.

#### Infrared presence sensor

The sensor detects the presence of people in each of the 4 areas.

Ceiling height	2.7m	3.5m	4.0m
Detection range (diameter) <sup>*3</sup>	approx. 8.5m	approx. 11.5m	approx. 13.5m

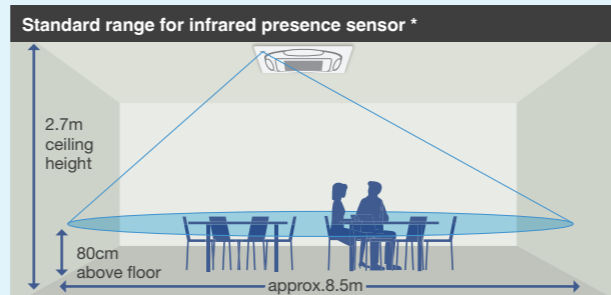
\*3. The infrared presence sensor detects 80cm above the floor.

#### Infrared floor sensor

The sensor detects the floor temperature and automatically adjusts operation of the indoor unit to reduce the temperature difference between the ceiling and the floor.

Ceiling height	2.7m	3.5m	4.0m
Detection range (diameter) <sup>*4</sup>	approx. 11m	approx. 14m	approx. 16m

\*4. The infrared floor sensor detects at the floor surface.



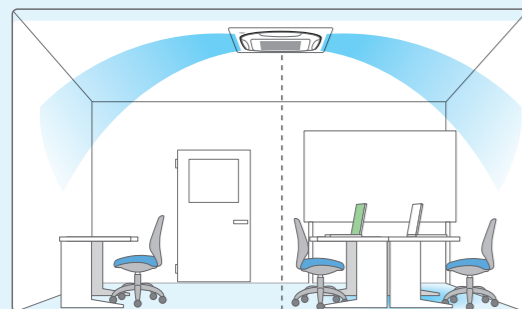
[Concerning infrared presence sensor]  
- People are detected by large movements such as the motion of people walking at a certain distance away from sensor.  
- Human detection is not possible for blind areas of sensor.  
[Concerning infrared floor sensor]  
- The detected temperature may sometimes be affected by a heat source, window, or device emitting heat in the detection range.

\*5. Airflow direction should be set to "Auto".

#### Auto Airflow Function<sup>\*5</sup>

##### **New** Direct Airflow (default: OFF) **Cooling** **Dry**

When human presence is not detected



Optimal air direction by "Auto"

When human presence is detected



Optimal air direction by "Auto" **Swing (narrow)**

• With "Auto" airflow direction mode, flaps are controlled to deliver optimal airflow when the room is unoccupied.

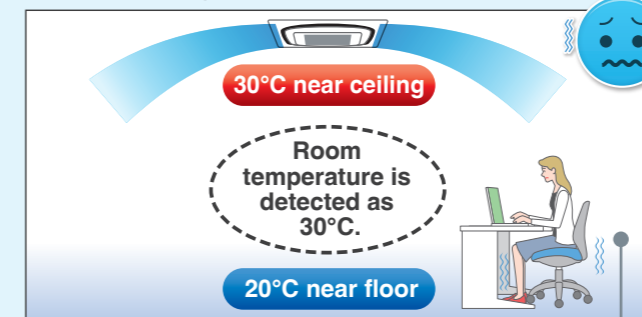
• When presence is detected, air direction is set to "Swing (narrow)" to deliver cool air to users.

#### Comfort and Energy Saving Preventing Overcooling<sup>\*6</sup>

\*6. Airflow direction and airflow rate should be set to "Auto".

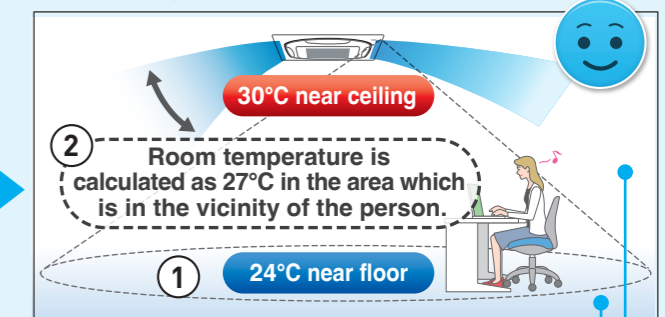
Floor temperature is detected and overcooling prevented. **Cooling**

Without sensing function



Area around feet gets too cold because the air conditioner continues until the temperature near the ceiling reaches the set temperature.

With sensing function



The floor temperature, which is lower than near the ceiling, is detected.

Automatic control using the temperature near the person as the room temperature.

**Energy savings** The temperature near the person is automatically calculated by detecting the temperature of the floor. Energy is saved because the area around the feet does not get too cold.

#### Sensing Sensor Functions<sup>\*7,8,9</sup>

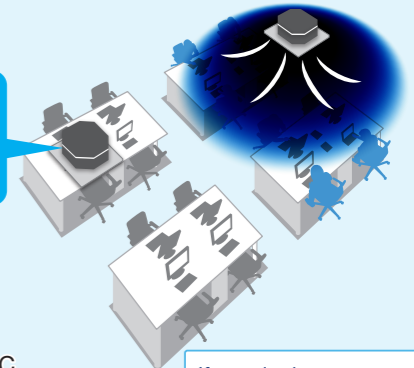
\*7. Applicable when sensing panel (BYCQ125EEF/EEK) is installed.  
\*8. These functions are not available when using the group control system.  
\*9. User can set these functions with remote controller.

##### Sensing sensor low mode (default: OFF)

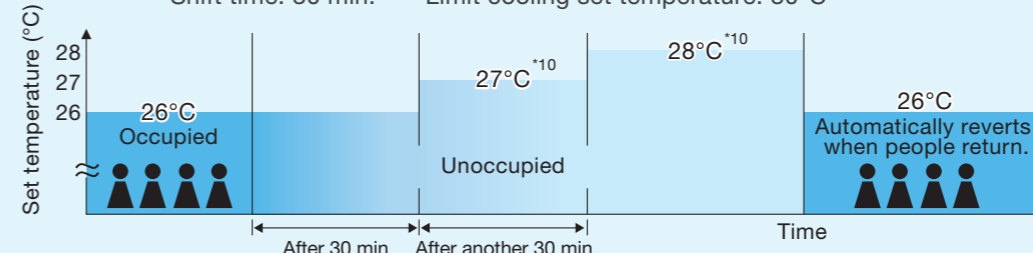
When there are no people in a room, the set temperature is shifted automatically.

- The system automatically saves energy by detecting whether or not the room is occupied. The set temperature is shifted automatically if the room is unoccupied.

Operation is reduced in places where there are no people.



**Example** • Cooling set temperature: 26°C • Shift temperature: 1.0°C  
• Shift time: 30 min. • Limit cooling set temperature: 30°C



If people do not return, the air conditioner will raise the set temperature 1°C every 30 minutes and then operate at 30°C.

Shift temperature and time can be selected from 0.5 to 4°C in 0.5°C increments and 15, 30, 45, 60, 90 or 120 minutes respectively with remote controller.

\*10. On basic screen of remote controller, set temperature does not change.

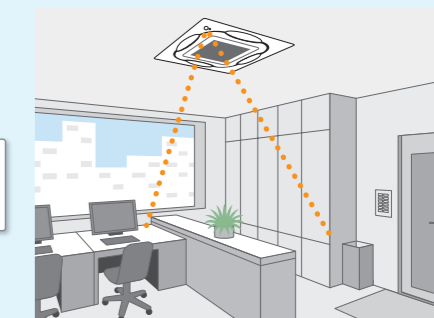
##### Sensing sensor stop mode (default: OFF)

When there are no people in a room, the system stops automatically.<sup>\*11,12</sup>

- The system automatically saves energy by detecting whether or not the room is occupied.
- Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

Absent stop time can be selected from 1 to 24 hrs in 1 hr increments with remote controller.

\*11. Please note that upon re-entering the room, the air conditioner will not switch on automatically.  
\*12. To protect the machine, the standby system may operate temporarily.

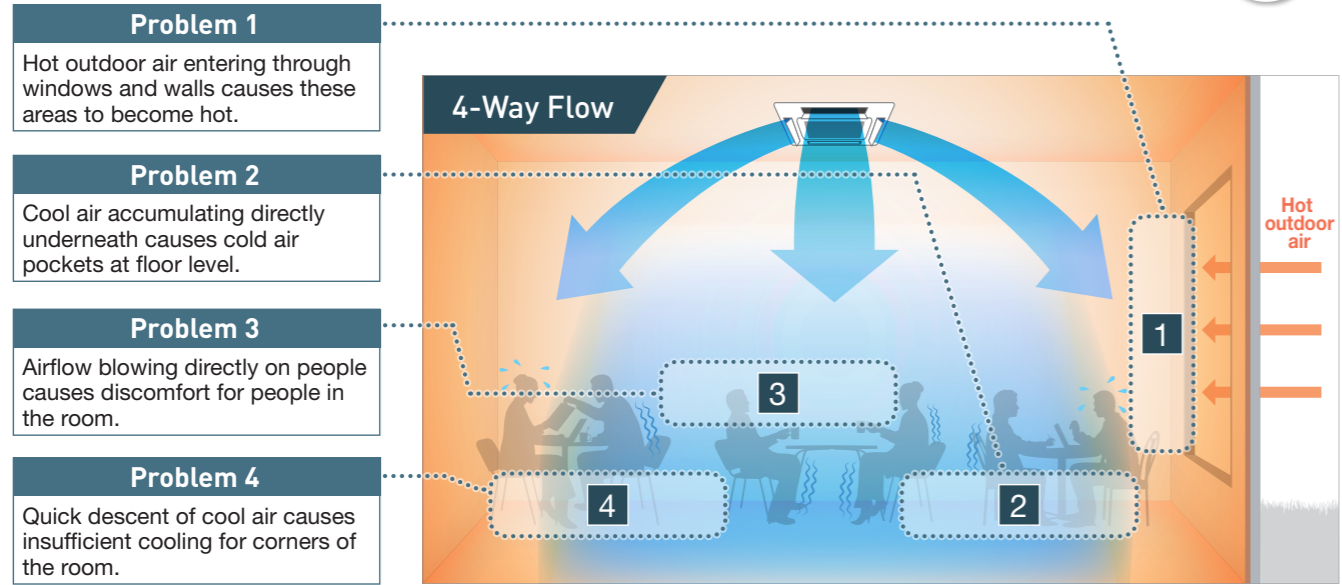




### New Circulation Airflow<sup>\*1</sup>

<sup>\*1</sup>. Applicable when wired remote controller BRC1E63 is used.

Airflow until now had areas that were either too cool or not cool enough. 😞

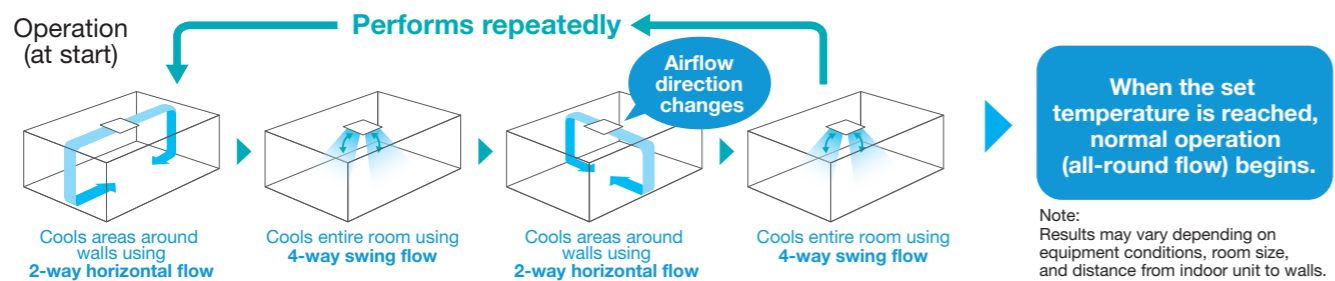


Circulation airflow cools the entire room to deliver comfort that never feels cold. 😊



### Configurations of Circulation Airflow

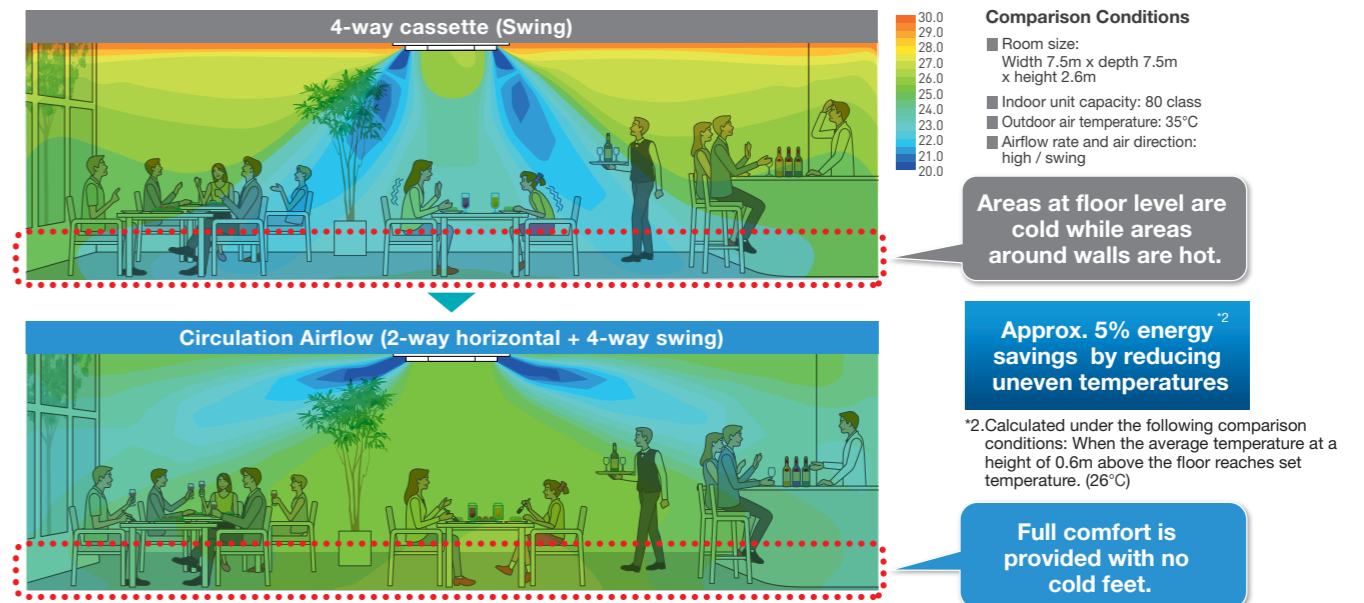
Cools the entire room to deliver comfort that never feels cold.



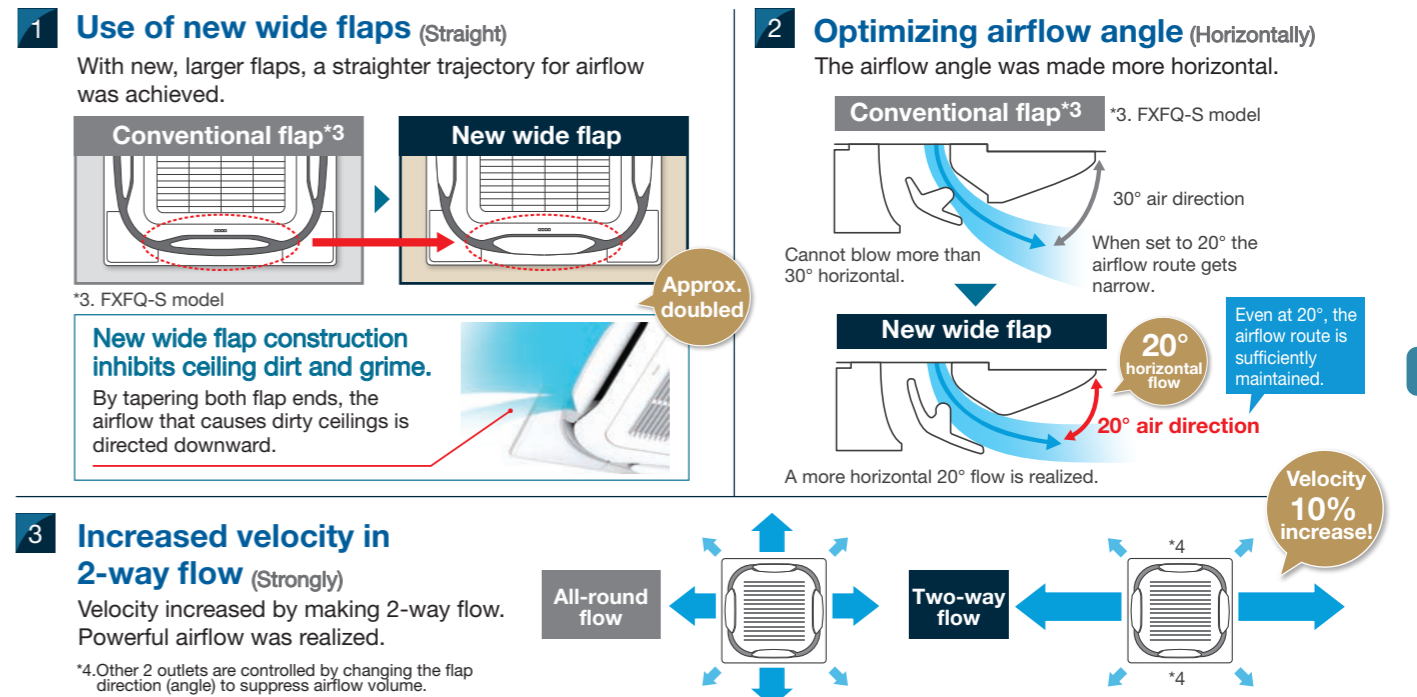
Ceiling Mounted Cassette (Round Flow with Sensing) Type **FXFSQ-A**

Ceiling Mounted Cassette (Round Flow) Type **FXFQ-A**

Comfort to the Entire Room with Even Temperatures and No Cold Air Pockets at Floor Level



### Three Technologies That Achieved Circulation Airflow



### Things to remember when using circulation airflow

**Main points for use**

- Effectiveness may differ according to room conditions, room size, and distance to walls.
- Airflow operation differs when using the designer panel. (Operation repeatedly switches from 3-way horizontal flow to 4-way downward flow [swing] to 2-way horizontal flow to 4-way downward flow [swing].)
- Circulation airflow functions during connection with wired remote controller. (BRC1E63). However, use is not possible for the following conditions:
  - When a sealing material of air discharge outlet and branch ducts are used;
  - When individual airflow setting is selected;
  - When using group control other than round flow.

**Installation conditions**

Distance to wall [Table 1]  
Minimum distance between indoor units [Table 2]  
1.8m or more above floor surface

**Table 1**  
Distance to wall from indoor unit

Indoor unit capacity	FXF(S)Q 25-50	FXF(S)Q 63/80	FXF(S)Q 100-140
Maximum distance	1.5m-4m	1.5m-5m	1.5m-7m

**Table 2**  
Minimum distance between indoor units

Indoor unit capacity	FXF(S)Q 25-50	FXF(S)Q 63/80	FXF(S)Q 100-140
Minimum distance	4m or more	5m or more	7m or more



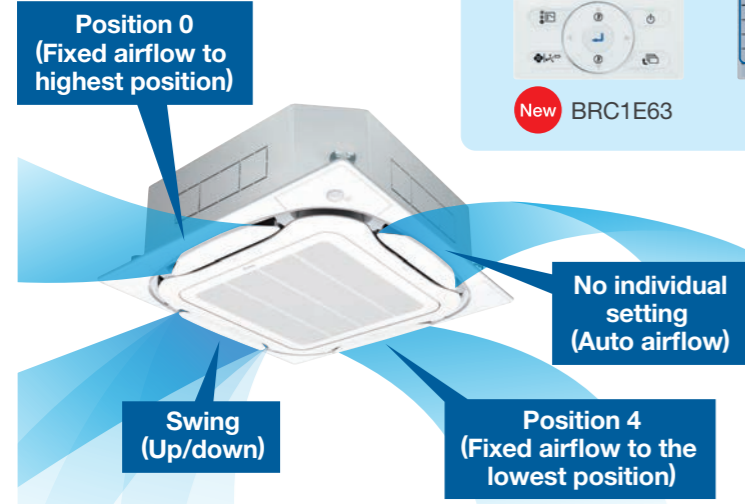
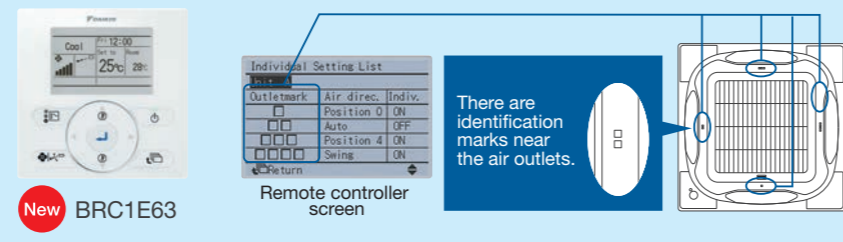
### New Individual Airflow Direction Control<sup>\*1</sup>

\*1. Applicable when wired remote controller BRC1E63 is used.

#### Comfortable air conditioning for all room layouts and conditions

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

Easy setting is possible with a wired remote controller.



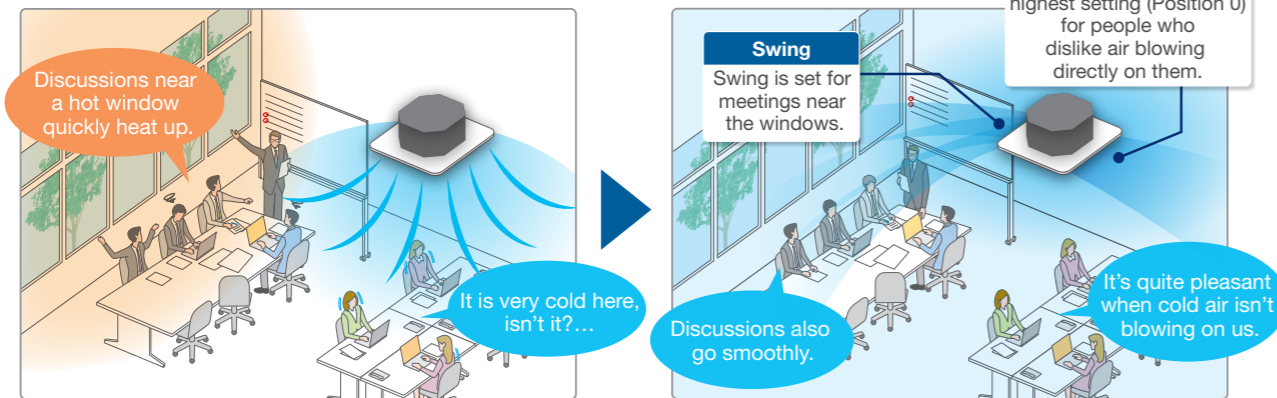
#### Individual airflow settings

- No individual setting (Auto airflow)
- Position 0 (Highest point)
- Position 1
- Position 2
- Position 3
- Position 4 (Lowest point)
- Swing

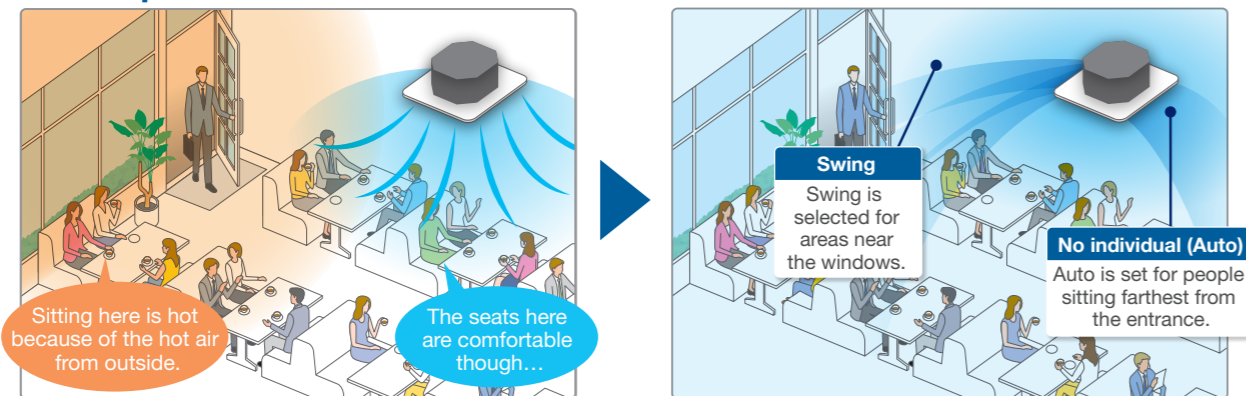
Individual settings are possible as stated above.

When individual airflow is selected, airflow direction can be adjusted to room layout.

#### For offices



#### For shops and restaurant



## Other Functions

### Comfort

#### 360° Airflow & Selectable Airflow Pattern

Indoor unit offers 360° airflow discharges air in all directions with more uniform temperature distribution. Because air flows out from corner outlets, comfort spreads more widely.

Typical flow patterns There are a total of 18 flow patterns.

**All-round flow**

(E.g., installed in middle of ceiling)  
4-way flow also possible.

**3-way flow**

(E.g., installed near a wall)

**L-shaped 2-way flow**

(E.g., installed in a corner)

**Opposite 2-way flow**

(E.g., installed in a long room)

Required distance to wall surface for closing air discharge outlet

Wall surface

Note:

- Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing material (option) must be used to close each unused outlet.
- Operation sound increases when using 2-way or 3-way flow.
- Designer panel cannot operate 2-way and 3-way flow.

#### Optimal comfort and convenience assured by 3 air discharge modes

Air direction	Standard setting <sup>1</sup>	Draft prevention setting (field setting)	Ceiling soiling prevention setting <sup>2</sup> (field setting)
Desired situation	For gentle drafts.	When drafts are unwanted.	For shops with light coloured ceilings that must be kept spotless.
Auto-swing			
5-level air direction setting			
Auto air direction control	The air direction is set automatically to the memorised position of the previous air direction.		

Note:

<sup>1</sup>Air direction is set to the standard position when the unit is shipped from the factory. The position can be changed from the remote controller.

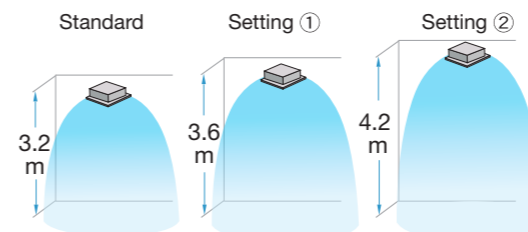
<sup>2</sup>Closing of the corner discharge outlets is recommended.

#### Switchable fan speed: 5 steps and Auto

Control of airflow rate has been improved from 3-step to 5-step. Auto airflow rate is newly available.

#### Suitable for high ceilings

Even in spaces with high ceilings, a comfortable airflow is carried down to the floor level.



When all round flow is selected, ceilings up to 4.2 m in height can be accommodated. (FXF(S)Q100-140A)

Criteria for ceiling height and number of air discharge outlets (Ceiling height is reference value)

Ceiling height	Standard	Number of air discharge outlets used							
		FXF(S)Q25-80A				FXF(S)Q100-140A			
		All round flow	4-way flow	3-way flow	2-way flow	All round flow	4-way flow	3-way flow	2-way flow
Standard	2.7 m	3.1 m	3.0 m	3.5 m	3.2 m	3.4 m	3.6 m	4.2 m	
High ceiling ①	3.0 m	3.4 m	3.3 m	3.8 m	3.6 m	3.9 m	4.0 m	4.2 m	
High ceiling ②	3.5 m	4.0 m	3.5 m	—	4.2 m	4.5 m	4.2 m	—	

Note:

- The aforementioned is for standard panels. See the installation manual for designer panels.
- Factory settings are for standard ceiling height and all-round flow.
- High ceiling settings (1) and (2) are set with the remote controller by field setting.
- High-efficiency filters are not available for high ceiling applications.



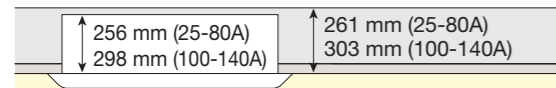
## Quick and Easy Installation

### Lightweight

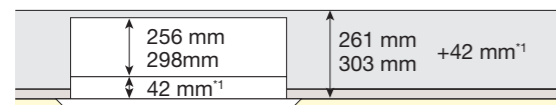
All models can be installed without using a lifter.

### Installable in tight ceiling spaces

Standard panel

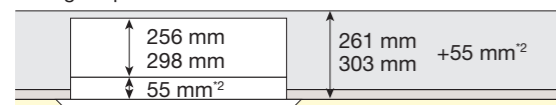


Designer panel



<sup>1</sup>. Body height (ceiling required space) is 42 mm higher than standard panel.

Auto grille panel



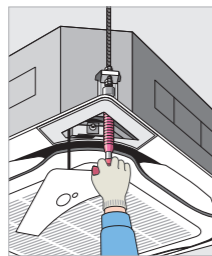
<sup>2</sup>. Body height (ceiling required space) is 55 mm higher than standard panel.

<sup>\*</sup>When the ceiling space is limited, an optional panel spacer is available. (See page 89)

### Easy height adjustment

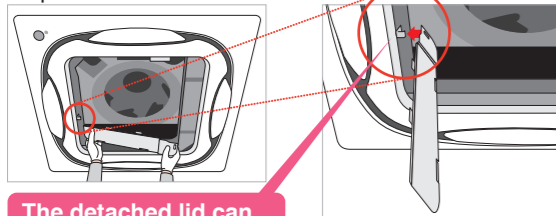
Each corner of the unit has an adjuster pocket that lets you easily adjust the unit's suspended height.

Note:  
If the wireless remote controller is installed, a signal receiver unit is housed in one of the adjuster pockets.



### Temporary placement of control box lid

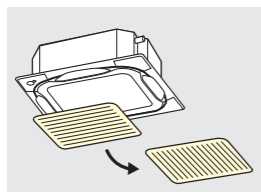
Because the control box lid can be temporarily hung on the unit, there is no need to climb down the stepladder to retrieve it.



The detached lid can be hung on a hook.

### Installed in any direction

Since the orientation of the suction grille can be adjusted after installing, the direction of the suction grille lines can be unified when multiple units are installed.



### Easy hanging

Washer fixing plates secure washers in place and prevent washers from falling for easy installation.



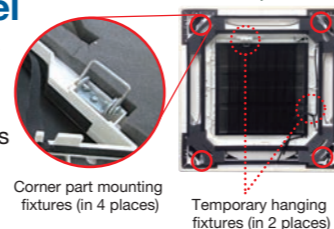
### Easy removal of corner cover

It is possible to easily remove without use of screws or tools.



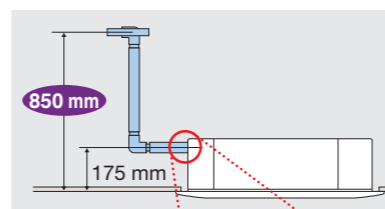
### Ease in temporary hanging of decoration panel

In addition to the temporary hanging fixtures in 2 places normally used, corner part mounting fixtures in 4 places are provided.



### Drain pump

Equipped as standard accessory with 850 mm lift.



### Transparent drain socket



### Hanging height adjustment

Because the configuration of the hanger bracket changed, the dimensions from the ceiling to the hanger bracket also change during height adjustment for indoor unit.

	A Dimensions
Standard panel	125-130mm
Designer panel	167-172mm
Auto grille panel	180-185mm
Chamber option*+ standard panel	175-180mm

\*High-efficiency filter, ultra long-life filter, and fresh air intake

Ceiling Mounted Cassette (Round Flow with Sensing) Type **New FXFSQ-A**

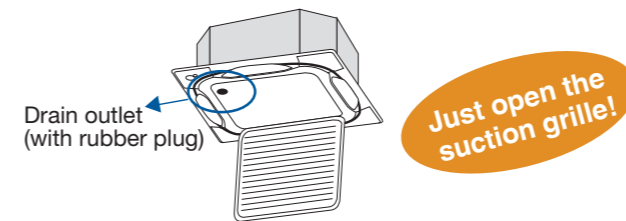
Ceiling Mounted Cassette (Round Flow) Type **New FXFQ-A**

## Easy Maintenance

### Drain pan and drain water check

The condition of the drain pan and drain water can be checked by removing the suction grille and drain plug.

Note: For inquiries concerning auto grille panel installations, please contact your local dealer or Daikin representative.



Just open the suction grille!

### 24 mm diameter drain outlet

The drain outlet allows insertion of a finger or dental mirror for inspection of the internal cleanliness of the drain pan. Removal of the suction panel enables access.



### Auto grille panel (option)

Grille and air filter cleaning can be performed without need for a stepladder by lowering the grille.

A dedicated remote controller for the auto grille panel (BRC16A2) is included. Operation is not possible using BRC1E63.

The drop length corresponds to ceiling height and can be set for 8 different levels.

Ceiling Height Standard (m)	Drop Length
2.4	1.2
2.7	1.6
3.0	2.0
3.5	2.4
3.8	2.8
4.2	3.1
4.5	3.5
5.0*	3.9

\*Airflow range is up to 4.5m. Please refer to "criteria for ceiling height and number of air discharge outlets" on page 30.



### Ultra long-life filter (option)

See page 89

Maintenance is not required in normal shops or offices for up to four years.

## Cleanliness

### Silver ion anti-bacterial drain pan

A built-in antibacterial treatment that uses silver ion in the drain pan prevents the growth of slime, bacteria, and mould that cause odours and clogging.

(The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)



### Non-flocking flaps

Flaps can be detached without use of tools. Condensation does not easily form and dirt does not cling to non-flocking flaps. They are easy to clean.



### Filter has anti-mould and antibacterial treatment

Prevents mould and microorganisms growing out of the dust and moisture that adheres to the filters.

## Ceiling Mounted Cassette (Compact Multi Flow) Type FXZQ-M

Quiet, compact, and designed for user comfort

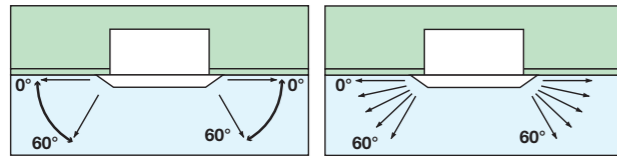


● Comfortable airflow

1 Wide discharge angle: 0° to 60°

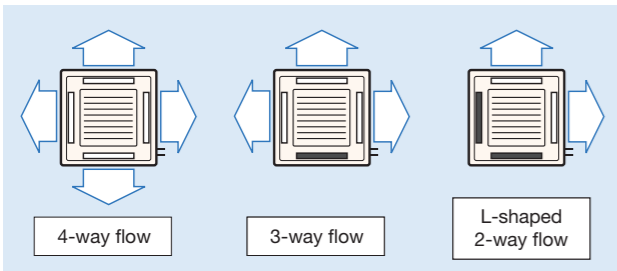
● Auto swing

● Fixed angles: 5 levels



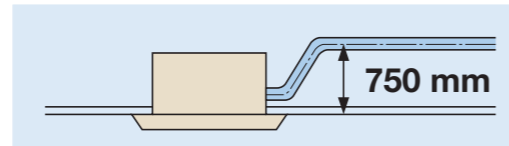
\*Angles can be also set on site to prevent drafts (0°-35°) or soiling of the ceiling (25°-60°), other than standard setting (0°-60°).

2 2-, 3-, and 4-way airflow patterns are available, enabling installation in the corner of a room.



\*For 3-way or 2-way flow installation, the sealing material for air discharge outlet (option) must be used to close each unused outlet.

- Low operation sound level
- Dimensions correspond with 600 mm X 600 mm architectural module ceiling design specifications.
- Drain pump is equipped as standard accessory with 750 mm lift.



## Specifications

MODEL		FXZQ20MVE	FXZQ25MVE	FXZQ32MVE	FXZQ40MVE	FXZQ50MVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100
	kW	2.2	2.8	3.6	4.5	5.6
Power consumption	kW	0.073		0.076	0.089	0.115
Casing		Galvanised steel plate				
Airflow rate (H/L)	m <sup>3</sup> /min	9/7		9.5/7.5	11/8	14/10
	cfm	318/247		335/265	388/282	493/353
Sound level (H/L)	230 V, 50 Hz-240 V, 50 Hz	30/25-32/26		32/26-34/28	36/28-37/29	41/33-42/35
Dimensions (HxWxD)	mm	286x575x575				
Machine weight	kg	18				
Piping connections	Liquid (Flare)	φ6.4				
	Gas (Flare)	φ12.7				
	Drain	VP20 (External Dia, 26/Internal Dia, 20)				
Panel (Option)	Model	BYFQ60B3W1				
	Colour	White (6.5Y9.5/0.5)				
	Dimensions(HxWxD)	55x700x700				
	Weight	2.7				

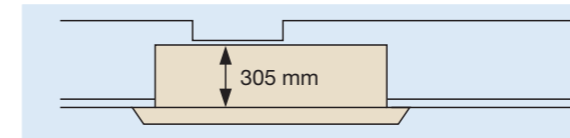
Note: Specifications are based on the following conditions:  
 ●Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 ●Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 ●Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

## Ceiling Mounted Cassette (Double Flow) Type FXCQ-M

Thin, lightweight, and easy to install in narrow ceiling spaces



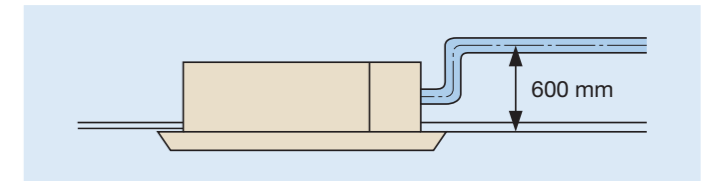
- The thin unit (only 305 mm high) can be installed in a ceiling space as narrow as 350 mm. All models feature a compact design with a depth of only 600 mm.



(When a high-efficiency filter is attached, the unit's height is 400 mm.)

- Low operation sound level
- Designed with higher airflow suitable for high ceiling application up to 3 metres.
- Providing 2 different settings of standard and ceiling soiling prevention, the auto swing mechanism realises even distribution of airflow and room temperature.

- Drain pump is equipped as standard accessory with 600 mm lift.



- Two types of optional high-efficiency filter are available (65% and 95%, colourimetric method).
- A long-life filter (maintenance free up to one year\*) is equipped as standard accessory.  
\* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m<sup>3</sup>
- Major maintenance work can be performed by removing the panel. A flat-type suction grille and a detachable blade make cleaning easy.

## Specifications

MODEL		FXCQ20MVE	FXCQ25MVE	FXCQ32MVE	FXCQ40MVE	FXCQ50MVE	FXCQ63MVE	FXCQ80MVE	FXCQ125MVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	47,800
	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Power consumption	kW	0.077	0.092	0.092	0.130	0.130	0.161	0.209	0.256
Casing		Galvanised steel plate							
Airflow rate (H/L)	m <sup>3</sup> /min	7/5	9/6.5	9/6.5	12/9	12/9	16.5/13	26/21	33/25
	cfm	247/177	318/230	318/230	424/318	424/318	582/459	918/741	1,165/883
Sound level (H/L)	220 V	32/27	34/28	34/28	34/29	34/29	37/32	39/34	44/38
	240 V	34/29	36/30	36/30	37/32	37/32	39/34	41/36	46/40
Dimensions (HxWxD)	mm	305x775x600	305x775x600	305x775x600	305x990x600	305x990x600	305x1,175x600	305x1,665x600	305x1,665x600
Machine weight	kg	26.0	26.0	26.0	31.0	32.0	35.0	47.0	48.0
Piping connections	Liquid (Flare)	φ6.4	φ6.4	φ6.4	φ6.4	φ6.4	φ9.5	φ9.5	φ9.5
	Gas (Flare)	φ12.7	φ12.7	φ12.7	φ12.7	φ12.7	φ15.9	φ15.9	φ15.9
	Drain	VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model	BYBC32G-W1			BYBC50G-W1			BYBC63G-W1	BYBC125G-W1
	Colour	White (10Y9/0.5)							
	Dimensions(HxWxD)	53x1,030x680	53x1,030x680	53x1,030x680	53x1,245x680	53x1,245x680	53x1,430x680	53x1,920x680	53x1,920x680
	Weight	8.0	8.0	8.0	8.5	8.5	9.5	12.0	12.0

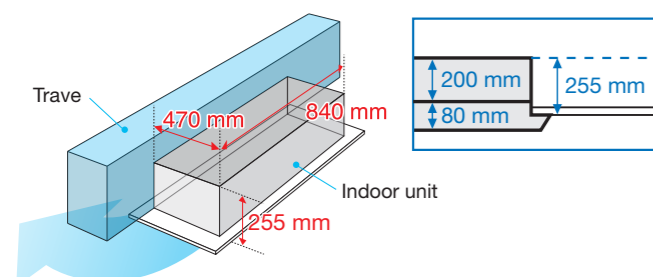
Note: Specifications are based on the following conditions:  
 ●Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 ●Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 ●Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

## Ceiling Mounted Cassette (Single Flow) Type

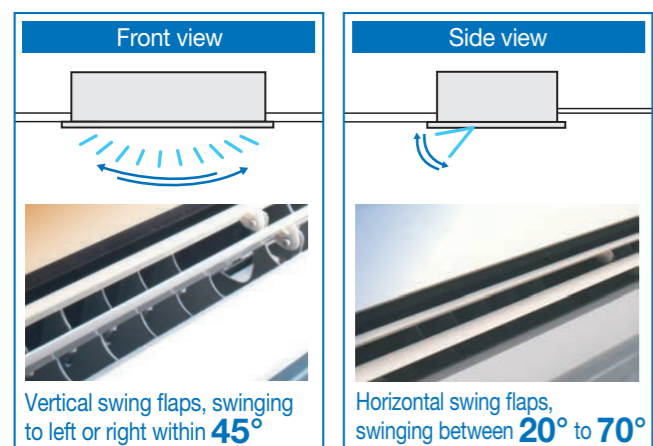
New FXEQ-A

### Slim design for flexible installation

- The body features a compact design with a height of just 200 mm and depth 470 mm, making the installation possible in tight ceiling spaces.



- The swinging of horizontal and vertical swing flaps can be adjusted freely with the remote controller, providing 3D airflow to every corner of the room.



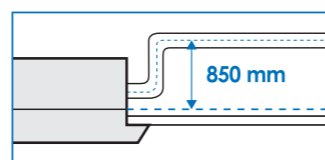
- Control of airflow rate can be selected from 5-step control and quiet operation mode, which provides comfortable airflow.
- DC motor is adopted both in the fan and drain pump of the indoor unit, not only enhancing the energy saving performance, but also reducing the operating sound and the vibration incurred to the unit.
- While creating a cozy indoor environment, the unit can prevent the suspended ceiling from being soiled by adjusting its louvre angle.



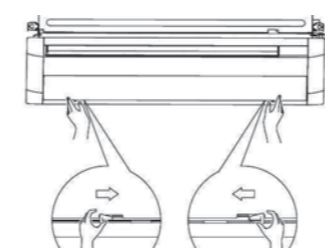
- The novel smooth panel design makes dust difficult to accumulate, thus causing the cleaning more conveniently.



- Drain pump is equipped as standard accessory with 850 mm lift.



- Servicing of common parts such as the control box etc. can be performed easily only with the suction panel removed.



### New Remote Controller (Option)

#### Wireless Remote Controller

- Stylish new design giving more satisfaction of ownership
- Comes in white colour
- User-friendly buttons with new functions such as 2 flaps control, 5-step airflow control, automatic airflow
- Back light function helps operating in dark rooms



BRC4M63



The LCD panel lights up during use, making the remote controller easy to handle even in dark.

#### Navigation Remote Controller (Wired Remote Controller)

New functions such as 2 flaps control, 5-step airflow control, automatic airflow can be also adjusted with the new wired remote controller.



BRC1F61



### Specifications

MODEL	FXEQ20AV36	FXEQ25AV36	FXEQ32AV36	FXEQ40AV36	FXEQ50AV36	FXEQ63AV36	
Power supply	1-phase, 220-240 V, 50 Hz						
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	
	kW	2.2	2.8	3.6	4.5	5.6	
Capacity index	20	25	32	40	50	63	
Power consumption	kW	0.026	0.027	0.034	0.046	0.048	
Casing	Galvanised steel plate						
Airflow rate (H/HM/M/ML/L)	m <sup>3</sup> /min	6.0/5.4/4.9/4.4/4.0	6.9/6.4/5.8/5.3/4.8	8.0/7.5/7.0/6.3/5.5	9.8/8.8/7.8/7.0/6.2	12.5/11.4/10.4/9.5/8.7	15.0/13.6/12.2/11.0/9.8
	cfm	212/191/173/155/141	244/226/205/187/169	282/265/247/222/194	346/311/275/247/219	441/402/367/335/307	530/480/431/388/346
Sound level (H/HM/M/ML/L)	dB(A)	30/29/28/27/26	32/31/30/29/28	35/34/33/32/30	38/37/35/33/31	38/37/35/33/31	43/41/39/37/35
Dimensions (HxWxD)	mm	200x840x470			200x1,240x470		
Machine weight	kg	17		18	23		
Piping connections	Liquid (Flare)	φ 6.4				φ 9.5	
	Gas (Flare)	φ 12.7				φ 15.9	
	Drain	PVC26 (External Dia, 26/Internal Dia, 20)					
Panel (Option)	Model	BYEP40AW1			BYEP63AW1		
	Colour	Fresh white					
	Dimensions(HxWxD)	80x950x550			80x1,350x550		
	Weight	8.0			10.0		

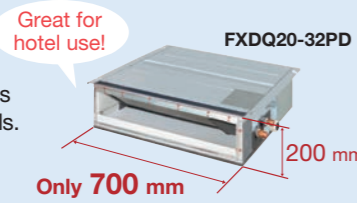
Note: Specifications are based on the following conditions:  
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.

## Slim Ceiling Mounted Duct Type (Standard Series) New FXDQ-PD / ND

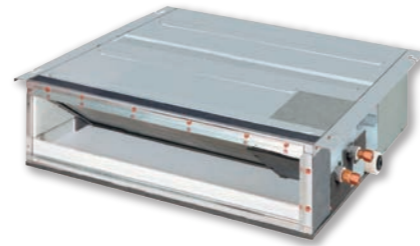
**Slim design, quietness and static pressure switching**

**Suitable to use in drop-ceilings!**

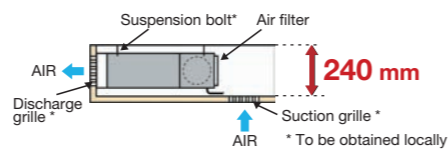
- Only 700 mm in width and 23 kg in weight, this model is suitable to install in limited spaces like drop-ceilings in hotels.



- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller BRC1E63.
- Low operation sound level.
- External static pressure selectable by remote controller switching make this indoor unit a very comfortable and flexible model.
  - 10 Pa-30 Pa/factory set; 10 Pa for FXDQ-PD models.
  - 15 Pa-44 Pa/factory set; 15 Pa for FXDQ-ND models.



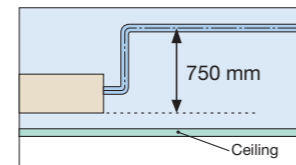
- Only 200 mm in height, this model can be installed in rooms with as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab.



- FXDQ-PD and FXDQ-ND models are available in two types to suit different installation conditions.

FXDQ-PD/NDVE: with a drain pump (750 mm lift) as a standard accessory

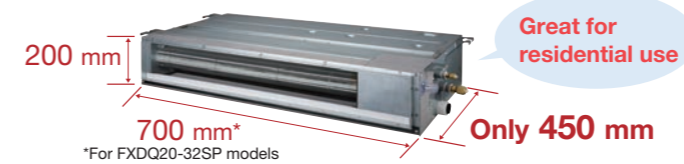
FXDQ-PD/NDVET: without a drain pump



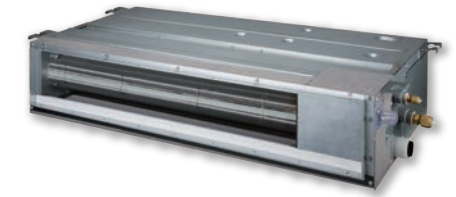
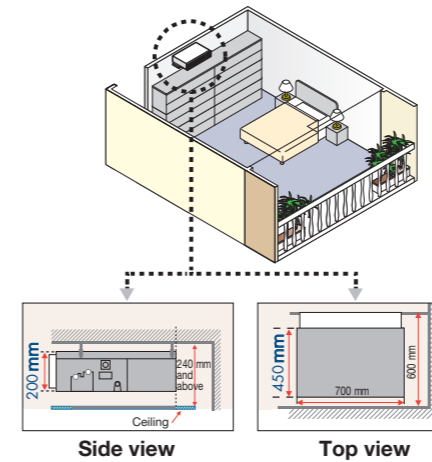
## Slim Ceiling Mounted Duct Type (Compact Series) FXDQ-SP

**Slim and compact design for easy and flexible installation**

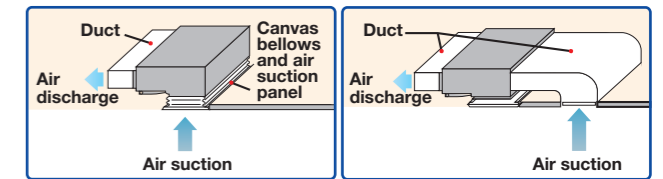
- It comes with a slim and compact design with a height of only 200 mm that requires as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab. The depth of the product is only 450 mm which is suitable to install in limited spaces.



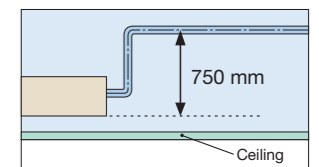
\*For FXDQ20-32SP models



- It is available in two types – ceiling return and ordinary duct to suit different installation conditions.



- Drain pump is equipped as standard accessory with 750 mm lift.



## Specifications

MODEL	with drain pump	FXDQ20PDVE	FXDQ25PDVE	FXDQ32PDVE	FXDQ40NDVE	FXDQ50NDVE	FXDQ63NDVE
	without drain pump	FXDQ20PDVET	FXDQ25PDVET	FXDQ32PDVET	FXDQ40NDVET	FXDQ50NDVET	FXDQ63NDVET
Power supply	1-phase, 220-240 V/220 V, 50/60 Hz						
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Power consumption (FXDQ-PDVE) *1	kW	0.086	0.086	0.089	0.160	0.165	0.181
Power consumption (FXDQ-PDVET) *1	kW	0.067	0.067	0.070	0.147	0.152	0.168
Casing	Galvanised steel plate						
Airflow rate (HH/H/L)	m <sup>3</sup> /min	8.0/7.2/6.4	8.0/7.2/6.4	8.0/7.2/6.4	10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
	cfm	282/254/226	282/254/226	282/254/226	371/335/300	441/388/353	583/512/459
External static pressure	Pa	30-10*2		44-15*2			
Sound level (HH/H/L)*1*3	dB(A)	28/26/23		28/26/24	30/28/26	33/30/27	33/31/29
Dimensions (HxWxD)	mm	200x700x620	200x700x620	200x700x620	200x900x620	200x900x620	200x1,100x620
Machine weight	kg	23	23	23	27	28	31
Piping connections	Liquid (Flare)	φ6.4		φ6.4	φ6.4	φ6.4	φ9.5
	Gas (Flare)	φ12.7		φ12.7	φ12.7	φ12.7	φ15.9
	Drain	VP20 (External Dia, 26/Internal Dia, 20)					

Note: Specifications are based on the following conditions:  
 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.  
 \*1 : Values are based on the following conditions: FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: external static pressure of 15 Pa.  
 \*2 : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ-PD models and 15 Pa for FXDQ-ND models.)  
 \*3 : The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

## Specifications

MODEL	FXDQ20SPV1	FXDQ25SPV1	FXDQ32SPV1	FXDQ40SPV1	FXDQ50SPV1	FXDQ63SPV1
	Power supply	1-phase, 220-240 V, 50 Hz				
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100
	kW	2.2	2.8	3.6	4.5	5.6
Power consumption *1	kW	0.072	0.075	0.078	0.180	0.196
Casing	Galvanised steel plate					
Airflow rate (HH/H/L)	m <sup>3</sup> /min	8.7/7.6/6.5	9.0/8.0/7.0	10.0/9.0/8.0	15.0/13.0/10.5	20.0/16.0/12.5
	cfm	307/268/229	318/282/247	353/318/282	530/459/371	706/565/441
External static pressure	Pa	30-10*2		50-20*2		
Sound level (HH/H/L)*1*3	dB(A)	33/31/29		34/32/30	35/33/31	37/35/33
Dimensions (HxWxD)	mm	200x700x450			200x900x450	200x1,100x450
Machine weight	kg	17			20	23
Piping connections	Liquid (Flare)	φ6.4			φ9.5	
	Gas (Flare)	φ12.7			φ15.9	
	Drain	VP20 (External Dia, 26/Internal Dia, 20)				

Note: Specifications are based on the following conditions:  
 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.  
 \*1 : Values are based on the following conditions: FXDQ20-32SP: external static pressure of 10 Pa; FXDQ40-63SP: external static pressure of 20 Pa.  
 \*2 : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ20-32SP models and 20 Pa for FXDQ40-63SP models.)  
 \*3 : The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

## Middle Static Pressure Ceiling Mounted Duct Type

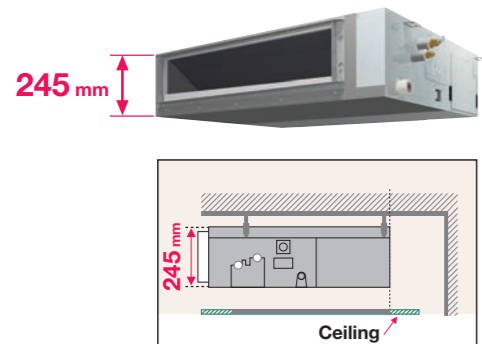
Middle external static pressure and slim design allow flexible installations



### Installation flexibility

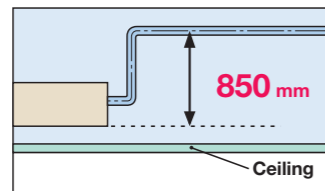
#### Slim design

- With a height of only 245 mm, installation is possible even in buildings with narrow ceiling spaces.



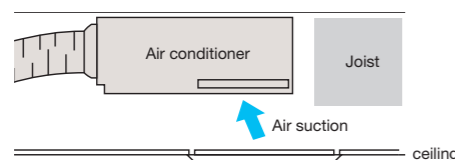
#### Standard DC drain pump

- DC drain pump is equipped as standard accessory with 850 mm lift.



#### Bottom suction possible

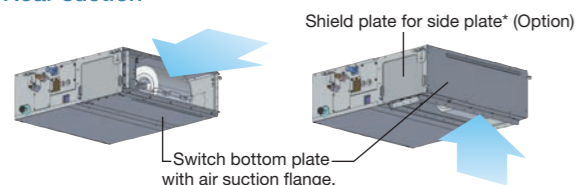
- Bottom suction is possible which facilitate installation and maintenance. Wiring connections and maintenance of control box can be done from under the unit with an optional shield plate for side plate\*, extending the degree of freedom for installation in the ceiling.



- Air suction direction can be altered from rear to bottom suction.

#### Rear suction

#### Bottom suction

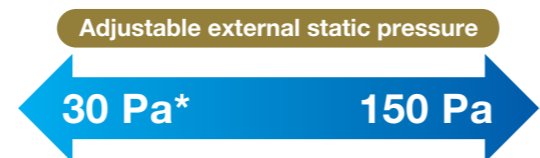


\*An optional shield plate for side plate is required if wiring connections and maintenance of control box are needed from under the unit. This option is only available for FXSQ20-125PA models.

### Design flexibility

#### Adjustable external static pressure

- Using a DC fan motor, the external static pressure can be controlled within a range of 30 Pa\* to 150 Pa.



Set to low static pressure when ducts are short.

Set to high static pressure for advanced needs such as when using dampers and long ducts.

Comfortable airflow is achieved in accordance with conditions such as duct length.

- \*30 Pa-150 Pa for FXSQ20-40PAVE
- 50 Pa-150 Pa for FXSQ50-125PAVE
- 50 Pa-140 Pa for FXSQ140PAVE

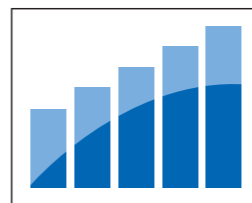
### Comfort

#### Switchable airflow rate

- Control of the airflow rate can be selected from 3-step control.

#### Auto airflow rate

- 5-step airflow rate is automatically controlled in accordance with the difference between room temperature and set temperature. Auto airflow rate control can be selected with wired remote controller BRC1E63.



#### Low operation sound level

FXSQ-PAVE	20/25	32	40	50	63
Sound level (H/M/L)	33/30/28	34/32/30	36/33/30	34/32/29	36/32/29
FXSQ-PAVE	80	100	125	140	
Sound level (H/M/L)	37.5/34/30	39/35/32	42/38.5/35	43/40/36	



### Easy installation

#### Airflow rate auto adjustment function

- During installation, even if the external static pressure changes due to a change in the duct route, the airflow can be automatically adjusted to within the unit's external static pressure range.
- Airflow rate can be controlled using a remote controller during test operation. It is automatically adjusted to the range between approximately  $\pm 10\%$  of the rated H tap airflow.

### Specifications

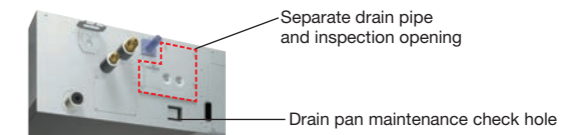
MODEL	FXSQ20PAVE	FXSQ25PAVE	FXSQ32PAVE	FXSQ40PAVE	FXSQ50PAVE
Power supply	1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400
	kW	2.2	2.8	3.6	4.5
Power consumption	kW	0.058 *1	0.058 *1	0.066 *1	0.101 *1
Casing	Galvanised steel plate				
Airflow rate (H/M/L)	m <sup>3</sup> /min	9/7.5/6.5	9/7.5/6.5	9.5/8/7	15/12.5/10.5
	cfm	318/265/230	318/265/230	335/282/247	530/441/371
External static pressure	Pa	30-150 (50) *2			50-150 (50) *2
Sound level (H/M/L)	dB(A)	33/30/28		34/32/30	36/33/30
Dimensions (HxWxD)	mm	245x550x800		245x700x800	245x1,000x800
Machine weight	kg	25		27	35
Piping connections	Liquid (Flare)	φ 6.4			
	Gas (Flare)	φ 12.7			
	Drain	VP25 (External Dia, 32/Internal Dia, 25)			

MODEL	FXSQ63PAVE	FXSQ80PAVE	FXSQ100PAVE	FXSQ125PAVE	FXSQ140PAVE
Power supply	1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity	Btu/h	24,200	30,700	38,200	47,800
	kW	7.1	9.0	11.2	14.0
Power consumption	kW	0.106 *1	0.126 *1	0.151 *1	0.206 *1
Casing	Galvanised steel plate				
Airflow rate (H/M/L)	m <sup>3</sup> /min	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26
	cfm	741/618/512	812/688/565	1,130/953/794	1,306/1,112/918
External static pressure	Pa	50-150 (50) *2			50-140 (50) *2
Sound level (H/M/L)	dB(A)	36/32/29	37.5/34/30	39/35/32	42/38.5/35
Dimensions (HxWxD)	mm	245x1,000x800		245x1,400x800	245x1,550x800
Machine weight	kg	35	37	46	47
Piping connections	Liquid (Flare)	φ 9.5			
	Gas (Flare)	φ 15.9			
	Drain	VP25 (External Dia, 32/Internal Dia, 25)			

Note: Specifications are based on the following conditions:  
 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.  
 \*1: Power consumption values are based on conditions of rated external static pressure.  
 \*2: External static pressure can be modified using a remote controller that offers thirteen (FXSQ20-40PA), eleven (FXSQ50-125PA) or ten (FXSQ140PA) levels of control. These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa.

### Easy maintenance

- Inspection and cleaning is facilitated by separating the drain pipe and inspection opening and by the drain pan maintenance check hole.



- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)

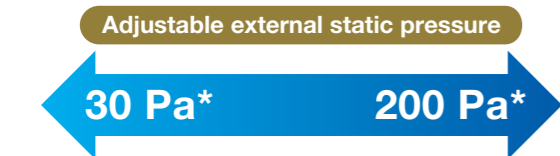


## Ceiling Mounted Duct Type

New FXMQ-PA / MA

### Middle and high static pressure allows for flexible duct design

- Using a DC fan motor, the external static pressure can be controlled within a range of 30 Pa\* to 200 Pa\*.



Set to low static pressure when ducts are short.

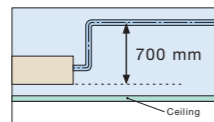
Set to high static pressure for advanced needs such as when using dampers and long ducts.

Comfortable airflow is achieved in accordance with conditions such as duct length.

- \*30 Pa-100 Pa for FXMQ20P-32PA
- \*30 Pa-160 Pa for FXMQ40PA
- \*50 Pa-200 Pa for FXMQ50PA-125PA
- \*50 Pa-140 Pa for FXMQ140PA

- All models are only 300 mm in height and the weight of the FXMQ40-140PA has been reduced.

- Drain pump is equipped as standard accessory with 700 mm lift.



- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller BRC1E63.

- Low operation sound level

- Energy-efficient

- DC fan motor is used to realise energy-saving operation.

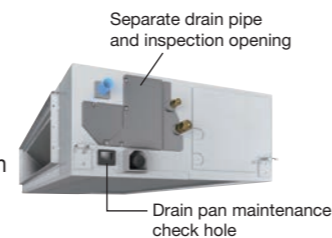
- Easy installation

- Airflow rate can be controlled using a remote controller during test operation. It is automatically adjusted to the range between approximately ±10% of the rated HH tap airflow for FXMQ20P-125PA.



- Easy maintenance

- Inspection and cleaning is facilitated by separating the drain pipe and inspection opening and by the drain pan maintenance check hole.



- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)



FXMQ200/250MA

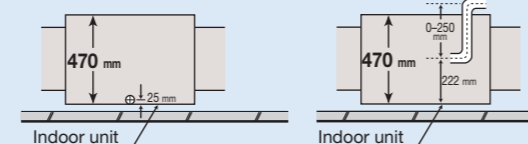
- Simplified Static Pressure Control**  
External static pressure can be easily adjusted using a change-over switch inside the electrical box to meet the resistance in the duct system.

- Built-in Drain Pump (Option)**

Housing the drain pump inside the unit reduces the space required for installation.

- Without drain pump

- With drain pump



### Specifications

MODEL		FXMQ20PAVE	FXMQ25PAVE	FXMQ32PAVE	FXMQ40PAVE	FXMQ50PAVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100
	kW	2.2	2.8	3.6	4.5	5.6
Power consumption	kW	0.056 *1	0.056 *1	0.060 *1	0.151 *1	0.128 *1
Casing		Galvanised steel plate				
Airflow rate (HH/H/L)	m <sup>3</sup> /min	9/7.5/6.5	9/7.5/6.5	9.5/8/7	16/13/11	18/16.5/15
	cfm	318/265/230	318/265/230	335/282/247	565/459/388	635/582/530
External static pressure	Pa	30-100 (50) *2	30-100 (50) *2	30-100 (50) *2	30-160 (100) *2	50-200 (100) *2
Sound level (HH/H/L)	dB(A)	33/31/29	33/31/29	34/32/30	39/37/35	41/39/37
Dimensions (H×W×D)	mm	300×550×700	300×550×700	300×550×700	300×700×700	300×1,000×700
Machine weight	kg	25	25	25	27	35
Piping connections	Liquid (Flare)	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 6.4
	Gas (Flare)	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7
	Drain	VP25 (External Dia, 32/Internal Dia, 25)				

MODEL		FXMQ63PAVE	FXMQ80PAVE	FXMQ100PAVE	FXMQ125PAVE	FXMQ140PAVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity	Btu/h	24,200	30,700	38,200	47,800	54,600
	kW	7.1	9.0	11.2	14.0	16.0
Power consumption	kW	0.138 *1	0.185 *1	0.215 *1	0.284 *1	0.405 *1
Casing		Galvanised steel plate				
Airflow rate (HH/H/L)	m <sup>3</sup> /min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
	cfm	688/618/565	883/794/706	1,130/953/812	1,377/1,165/988	1,624/1,377/1,130
External static pressure	Pa	50-200 (100) *2	50-200 (100) *2	50-200 (100) *2	50-200 (100) *2	50-140 (100) *2
Sound level (HH/H/L)	dB(A)	42/40/38	43/41/39	43/41/39	44/42/40	46/45/43
Dimensions (H×W×D)	mm	300×1,000×700	300×1,000×700	300×1,400×700	300×1,400×700	300×1,400×700
Machine weight	kg	35	35	45	45	46
Piping connections	Liquid (Flare)	φ 9.5	φ 9.5	φ 9.5	φ 9.5	φ 9.5
	Gas (Flare)	φ 15.9	φ 15.9	φ 15.9	φ 15.9	φ 15.9
	Drain	VP25 (External Dia, 32/Internal Dia, 25)				

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

During actual operation, these values are normally somewhat higher as a result of ambient conditions.

\*1: Power consumption values are based on conditions of rated external static pressure.

\*2: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32PA), thirteen (FXMQ40PA), fourteen (FXMQ50-125PA) or ten (FXMQ140PA) levels of control. These values indicate the lowest and highest possible static pressures. The standard static pressure is 50 Pa for FXMQ20-32PA and 100 Pa for FXMQ40-140PA.

MODEL		FXMQ200MAVE	FXMQ250MAVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz	
Cooling capacity	Btu/h	76,400	95,500
	kW	22.4	28.0
Power consumption	kW	1.294 *1	1.465 *1
Casing		Galvanised steel plate	
Airflow rate (H/L)	m <sup>3</sup> /min	58/50	72/62
	cfm	2,047/1,765	2,542/2,189
External static pressure	Pa	132-221 *2	191-270 *2
Sound level (H/L)	220 V	48/45	48/45
	240 V	49/46	49/46
Dimensions (H×W×D)	mm	470×1,380×1,100	470×1,380×1,100
Machine weight	kg	137	137
Piping connections	Liquid (Flare)	φ 9.5	φ 9.5
	Gas (Brazing)	φ 19.1	φ 22.2
	Drain	PS1B	

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: (FXMQ-MA) Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

During actual operation, these values are normally somewhat higher as a result of ambient conditions.

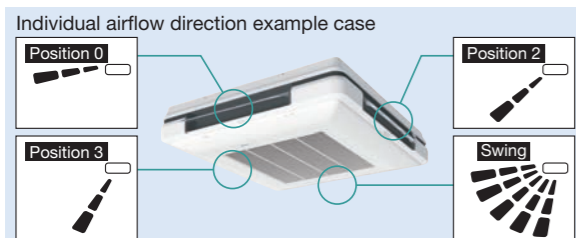
\*1: Power consumption values are based on conditions of standard external static pressure.

\*2: External static pressure is changeable to change over the connectors inside electrical box, this pressure means "Standard-High static pressure".

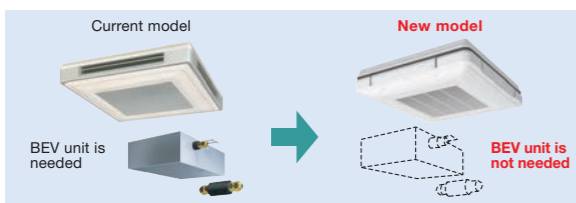
## 4-way Flow Ceiling Suspended Type FXUQ-A

This slim and stylish indoor unit achieves optimum air distribution, and can be installed without the need for ceiling cavity.

- Unit body and suction panel adopted round shapes and realised a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bare ceilings.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198 mm for all model that gives the unified impression even when models with different capacities are installed in the same area.
- With adoption of the individual flap control, airflow direction adjustment can be individually set for each air outlet. 5 directions of airflow and auto-swing can be selected with wired remote controller BRC1E63, which realises the optimum air distribution.



- Built-in electronic expansion valve eliminates the need for a BEV unit, which improves flexibility of installation.



- Control of the airflow rate has been improved from 2-step to 3-step control. Auto airflow rate control can be selected with wired remote controller BRC1E63.
- Energy efficiency has been improved thanks to the adoption of a new heat exchanger with smaller tubes, DC fan motor and DC drain pump motor.
- Drain pump is equipped as a standard accessory, and the lift height has been improved from 500 mm to 600 mm.
- Depending on installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.



- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)



### Specifications

MODEL		FXUQ71AVEB	FXUQ100AVEB
Power supply		1-phase, 220-240 V/220-230 V, 50/60 Hz	
Cooling capacity	Btu/h	27,300	38,200
	kW	8.0	11.2
Power consumption	kW	0.090	0.200
Casing		Fresh white	
Airflow rate (H/M/L)	m <sup>3</sup> /min	22.5/19.5/16	31/26/21
	cfm	794/688/565	1,094/918/741
Sound level (H/M/L)	dB(A)	40/38/36	47/44/40
Dimensions (HxWxD)		198x950x950	
Machine weight		26	27
Piping connections	Liquid (Flare)	φ9.5	
	Gas (Flare)	φ15.9	
	Drain	VP20 (External Dia, 26/Internal Dia, 20)	

Note: Specifications are based on the following conditions:  
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 • Sound level: (FXUQ-A) Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions  
 \*1: Power consumption values are based on conditions of standard external static pressure.  
 \*2: External static pressure is changeable to change over the connectors inside electrical box, this pressure means "Standard-High static pressure".

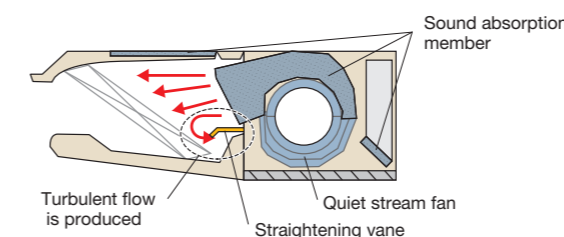
## Ceiling Suspended Type FXHQ-MA

Slim body with quiet and wide airflow



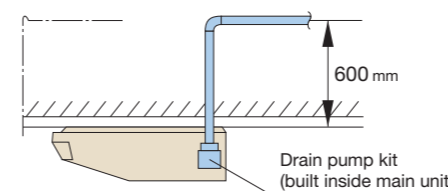
- Adoption of QUIET STREAM FAN

Uses the quiet stream fan and many more advanced technologies.

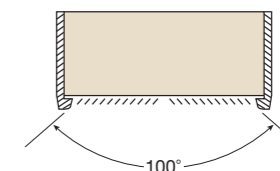


- Low operation sound level

- Installation is easy
  - Drain pump kit (option) can be easily incorporated.



- Wide air discharge openings produce a spreading of 100° airflow.



- Maintenance is easy
  - Non-dew Flap with no implanted bristles



- Easy-to-clean flat design
- Maintenance is easier because everything can be performed from below the unit.
- A long-life filter (maintenance free up to one year\*) is equipped as standard accessory.

\* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m<sup>3</sup>

### Specifications

MODEL		FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz		
Cooling capacity	Btu/h	12,300	24,200	38,200
	kW	3.6	7.1	11.2
Power consumption	kW	0.111	0.115	0.135
Casing		White (10Y9/0.5)		
Airflow rate (H/L)	m <sup>3</sup> /min	12/10	17.5/14	25/19.5
	cfm	424/353	618/494	883/688
Sound level (H/L)	dB(A)	36/31	39/34	45/37
Dimensions (HxWxD)		195x960x680		195x1,160x680
Machine weight		24.0	28.0	33.0
Piping connections	Liquid (Flare)	φ6.4		φ9.5
	Gas (Flare)	φ12.7		φ15.9
	Drain	VP20 (External Dia, 26/Internal Dia, 20)		

Note: Specifications are based on the following conditions:  
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

## Wall Mounted Type

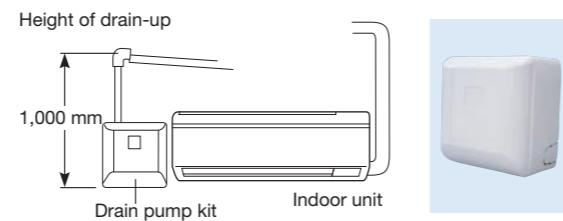
FXAQ-P

### Stylish flat panel design harmonised with your interior décor



- Stylish flat panel design creates a graceful harmony that enhances any interior space.
- Flat panel can be cleaned with only the single pass of a cloth across their smooth surface. Flat panel can also be easily removed and washed for more thorough cleaning.
- Low operation sound level
- Drain pan and air filter can be kept clean by mould-proof polystyrene.
- Vertical auto-swing realises efficiency of air distribution. The louvre closes automatically when the unit stops.
- 5 steps of discharge angle can be set by remote controller.

- Discharge angle is automatically set at the same angle as the previous operation when restarting. (Initial setting: 10° for cooling)
- Flexible installation
  - Drain pipe can be fitted to from either left or right sides.
- Drain pump kit is available as optional accessory, which lifts the drain 1,000 mm from the bottom of the unit.



## Specifications

MODEL		FXAQ20PVE	FXAQ25PVE	FXAQ32PVE	FXAQ40PVE	FXAQ50PVE	FXAQ63PVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Power consumption	kW	0.019	0.028	0.030	0.020	0.033	0.050
Casing		White (3.0Y8.5/0.5)					
Airflow rate (H/L)	m <sup>3</sup> /min	7.5/4.5	8/5	8.5/5.5	12/9	15/12	19/14
	cfm	265/159	282/177	300/194	424/318	530/424	671/494
Sound level (H/L)	dB(A)	35/31	36/31	38/31	39/34	42/37	47/41
Dimensions (H×W×D)	mm	290×795×238	290×795×238	290×795×238	290×1,050×238	290×1,050×238	290×1,050×238
Machine weight	kg	11.0	11.0	11.0	14.0	14.0	14.0
Piping connections	Liquid (Flare)	φ6.4	φ6.4	φ6.4	φ6.4	φ6.4	φ9.5
	Gas (Flare)	φ12.7	φ12.7	φ12.7	φ12.7	φ12.7	φ15.9
	Drain	VP13 (External Dia, 18/Internal Dia, 13)					

Note: Specifications are based on the following conditions;  
 ● Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 ● Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 ● Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

## Floor Standing Type

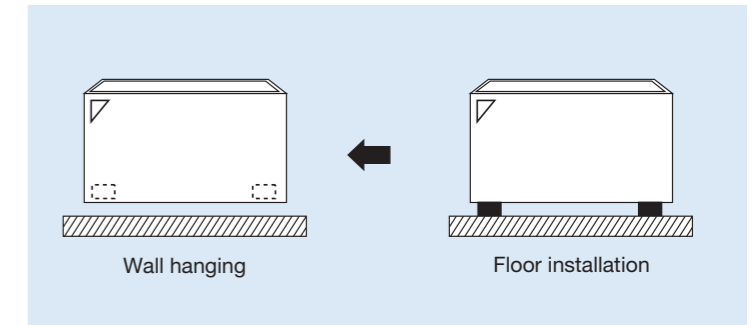
FXLQ-MA

### Suitable for perimeter zone air conditioning



- Floor Standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.
- The adoption of a fibre-less discharge grille featuring an original design to prevent condensation also helps prevent staining and makes cleaning easier.
- A long-life filter (maintenance free up to one year\*) is equipped as standard accessory.

\* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m<sup>3</sup>



## Specifications

MODEL		FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Power consumption	kW	0.049	0.049	0.090	0.090	0.110	0.110
Casing		Ivory white (5Y7.5/1)					
Airflow rate (H/L)	m <sup>3</sup> /min	7/6	7/6	8/6	11/8.5	14/11	16/12
	cfm	247/212	247/212	282/212	388/300	494/388	565/424
Sound level (H/L)	220 V	35/32	35/32	35/32	38/33	39/34	40/35
	240 V	37/34	37/34	37/34	40/35	41/36	42/37
Dimensions (H×W×D)	mm	600×1,000×222	600×1,000×222	600×1,140×222	600×1,140×222	600×1,420×222	600×1,420×222
Machine weight	kg	25.0	25.0	30.0	30.0	36.0	36.0
Piping connections	Liquid (Flare)	φ6.4	φ6.4	φ6.4	φ6.4	φ6.4	φ9.5
	Gas (Flare)	φ12.7	φ12.7	φ12.7	φ12.7	φ12.7	φ15.9
	Drain	210.D.					

Note: Specifications are based on the following conditions;  
 ● Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 ● Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 ● Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.



## Concealed Floor Standing Type

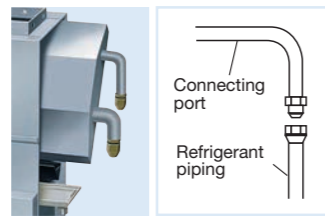
FXNQ-MA

Designed to be concealed in the perimeter skirting-wall



• The unit is concealed in skirting-wall of perimeter, that enables to create high class interior design.

• The connecting port faces downward, greatly facilitating on-site piping work.



\* Applies also to Floor Standing type (FXLQ-MA).

• A long-life filter (maintenance free up to one year\*) is equipped as standard accessory.

\* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m<sup>3</sup>

## Specifications

MODEL		FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Power consumption	kW	0.049	0.049	0.090	0.090	0.110	0.110
Casing		Galvanised steel plate					
Airflow rate (H/L)	m <sup>3</sup> /min	7/6	7/6	8/6	11/8.5	14/11	16/12
	cfm	247/212	247/212	282/212	388/300	494/388	565/424
Sound level (H/L)	220 V	35/32	35/32	35/32	38/33	39/34	40/35
	240 V	37/34	37/34	37/34	40/35	41/36	42/37
Dimensions (HxWxD)	mm	610x930x220	610x930x220	610x1,070x220	610x1,070x220	610x1,350x220	610x1,350x220
Machine weight	kg	19.0	19.0	23.0	23.0	27.0	27.0
Piping connections	Liquid (Flare)	φ6.4	φ6.4	φ6.4	φ6.4	φ6.4	φ9.5
	Gas (Flare)	φ12.7	φ12.7	φ12.7	φ12.7	φ12.7	φ15.9
	Drain	210.D.					

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

## Floor Standing Duct Type

FXVQ-N

Large airflow type for large spaces.  
Flexible interior design for each tenant.

- Large airflow type that fits for spacious areas such as factories and large stores.
- Various installations can be supported from full-scale duct connection airflow to direct airflow that allows easy installation.

- Full-scale duct connection airflow allows for air conditioning evenly in spacious areas.

### Duct connection airflow type

- Adding the plenum chamber (option) allows for simple operation with direct airflow.

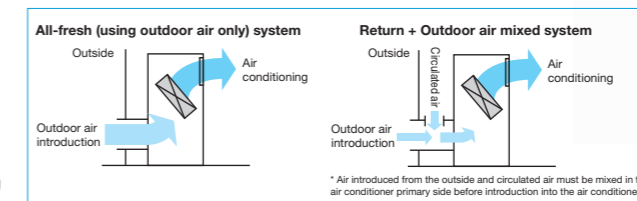
\* Note that the operation sound increases by approximately 5dB(A).

### Direct airflow type

- The high static pressure type driven by the belt drive system allows for use of air discharge outlets in various shapes as well as long ducts. Highly flexible installation is possible.
- Design with high maintainability that allows major services and maintenance services to be performed at the front.
- A long-life filter (maintenance free up to one year\*) is equipped as a standard accessory. \* 8 hr/day, 26 day/month. For dust concentration of 0.15 mg/m<sup>3</sup>
- A wide range of optional accessories are available such as high-efficiency filters.

- Outdoor air intake mode is useable as an outdoor-air processing air conditioner.

\*When using the unit as an outdoor-air processing unit, there are some restrictions. Strictly follow the restrictions specified in the Engineering Data Book.

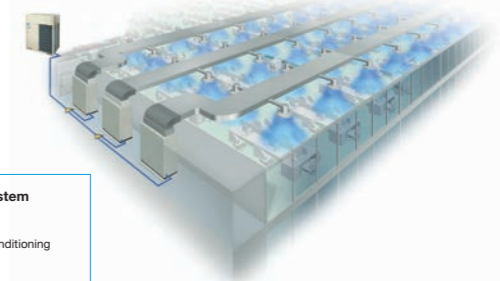
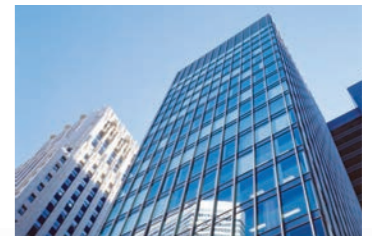


## Specifications

MODEL		FXVQ125NY1	FXVQ200NY1	FXVQ250NY1	FXVQ400NY1	FXVQ500NY1	FXVQ500NY16	
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz						
Cooling capacity	Btu/h	47,800	76,400	95,500	154,000	191,000		
	kW	14.0	22.4	28.0	45.0	56.0		
Power consumption	kW	0.53	1.33	1.61	3.97	2.62	4.70	
Casing colour		Ivory white (5Y7.5/1)						
Dimensions (HxWxD)	mm	1,670x750x510	1,670x950x510	1,670x1,170x510	1,900x1,170x720	1,900x1,470x720		
Machine weight	kg	118	144	169	236	281	306	
Sound level *1	dB(A)	52	56	60	65	62	66	
Piping connections	Liquid	φ 9.5 (Brazeing)			φ 12.7 (Brazeing)		φ 15.9 (Brazeing)	
	Gas	φ 15.9 (Brazeing)	φ 19.1 (Brazeing)	φ 22.2 (Brazeing)	φ 28.6 (Brazeing)			
	Drain	Rp1 (PS 1B internal thread)						
Air filter	Type	Long-life filter (anti-mould resin net)						
Fan	Motor output	kW	0.75	1.5	3.7	5.5		
	Airflow rate	m <sup>3</sup> /min	43	69	86	134	165	172
		cfm	1,518	2,436	3,036	4,730	5,825	6,072
	External static pressure *2	Pa	152	217	281	420	142	390
Drive system		Belt drive system						

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- \*1: Sound level : measured when the air discharge outlet duct (2 m) is attached (anechoic chamber conversion value). It increases by approximately 5 dB(A) when the plenum chamber is installed to deliver direct airflow.
- \*2: The value is the external static pressure with standard pulley.



## Clean Room Air Conditioner

FXB(P)Q-P

### Suitable for hospitals and other clean spaces



### Easily provides the high cleanliness environment required by various industries

Daikin's clean room air conditioners are specially designed to achieve an environment cleanliness class 10,000. These air conditioners easily realize a cleanliness-class environment and help create a proper environment of hospitals, food and beverage factories, electronics factories, and other spaces that require clean air.

### Select the air flow system and installation method to match the layout and purpose of the room

Two types of clean room air conditioners are available – an integrated unit model and a separate outlet unit model. It is also possible to configure the air flow system to ceiling intake or floor-level intake according to the panel selected. This flexible design enables the air conditioner to easily adopt to any room layout or use.

#### Instances of installation by type (for a hospital)

Type	Ceiling intake type (high speed contracted flow/high ceiling model)	Floor-level intake type (gentle wind distribution/high cleanliness class model)
Features	Construction work is simple and a ceiling installation is possible. Dust filtering and air-conditioning can be started immediately.	Easy to increase the cleanliness and air-conditioning effect. A low flow speed prevents drying of the affected part and the experience of drafts.
Cleanliness class <sup>*1</sup>	100,000 to 10,000	10,000
Wind speed	1.0m/s or higher	Approximately 0.5m/s
Blow method	<b>Integrated outlet unit model</b> <ul style="list-style-type: none"> <li>Concentrated air conditioning centered directly under the unit</li> <li>Easy installation</li> </ul> <p>Applications: Surgery prep rooms, recovery rooms, nurse stations, etc.</p>	<b>Total air conditioning with an emphasis on cleanliness</b> <p>Applications: Operating theatres, delivery rooms, etc.</p>
	<b>Separate outlet unit model</b> <ul style="list-style-type: none"> <li>Somewhat concentrated air conditioning centered directly under the outlet</li> <li>Can provide air conditioning in rooms with irregular shapes</li> </ul> <p>Applications: CCU<sup>*2</sup>, sterile rooms, etc.</p>	<b>Total air conditioning with an emphasis on cleanliness</b> <ul style="list-style-type: none"> <li>Maintenance possible from a different room</li> </ul> <p>Applications: Premature nurseries, newborn nurseries, ICU<sup>*3</sup>, etc.</p>

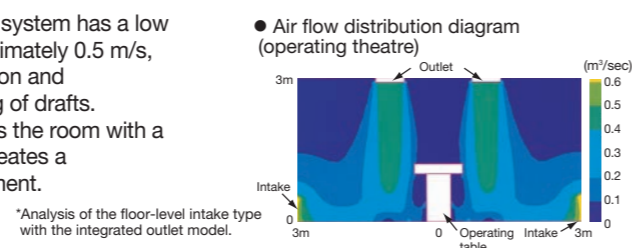
<sup>\*1</sup> Cleanliness class. A scale expressing the cleanliness of air established by NASA (National Aeronautics and Space Administration). Class 10,000 represents a state of less than 10,000 minute particles of diameter under 0.5 μm per cubic foot. For comparison, the cleanliness of a typical office is around class 1,000,000.  
<sup>\*2</sup> CCU (Cardiac Care Unit). A ward dedicated to the admission of patients with myocardial infarctions and other heart diseases.  
<sup>\*3</sup> ICU (Intensive Care Unit). A ward for the careful treatment and nursing of patients with serious illnesses, injuries, or recovering from operations.

### Can be easily installed in existing buildings

A simple structure makes it easy to realize a highly clean environment with the same installation work as for a typical air conditioner. Can be easily installed in new buildings, existing structures, and refurbishments.

### Prevents uncomfortable drafts with a low flow speed of approximately 0.5m/s

The floor-level intake system has a low flow speed of approximately 0.5 m/s, improving dust filtration and eliminating the feeling of drafts. Broadly air-conditions the room with a gentle air flow and creates a comfortable environment.



### Filtration

#### Class 10,000 clean room condition achieved with a HEPA filter (sold separately)

The low pressure-loss HEPA filter (sold separately) demonstrates superior dust filtering performance and easily accomplishes an air cleanliness of class 10,000.

The HEPA filter has a structure incorporating a pleated glass fiber filter medium, making it highly efficient and suitable for clean rooms, etc.



Installation example (in a medical facility)

<sup>\*</sup>It may not be possible to maintain cleanliness in rooms with low air tightness.

### Antibacterial

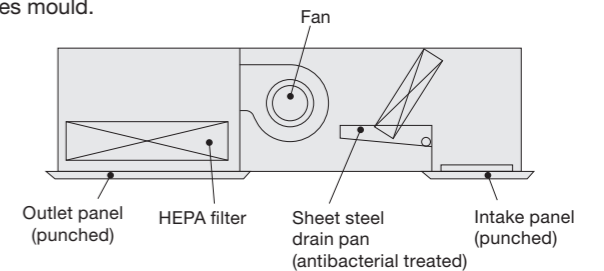
#### Suppresses the propagation of bacteria in the duct with a proprietary antibacterial coating

The filter implements an antibacterial treatment with a new coating combining a silver-based inorganic antibacterial material (an organic antibacterial material that is effective against germs) that prevents mould. This enhances the antibacterial properties of the duct. An antibacterial treatment using a silver-based organic substance reduces mould.

#### Antibacterial fiber used in the intake filter

With a long-life filter employing anti-mould antibacterial fiber near the intake, cleaning performance is further enhanced.

<sup>\*</sup>Please be aware that antibacterial products suppress the propagation of bacteria but do not have a sterilizing effect. Also, mould may grow in places where dust or soot accumulates.  
<sup>\*</sup>A material for which the registered safety was verified by Japanese chemicals and dangerous substances regulation law (Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc) is used for the antibacterial material.  
<sup>\*</sup>Periodic maintenance is required (such as cleaning the air filter and washing the inside of the unit).

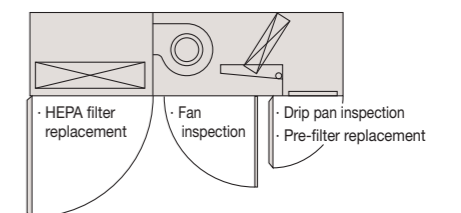


### Labor-saving

#### Filter maintenance unnecessary for about five years Easy access from underneath unit provides easy maintenance

The HEPA filter has an exceptionally long life and does not require maintenance for about five years. Daikin has aimed to reduce maintenance work from a variety of perspectives, including a service access system that eliminates the necessity for service panels.

<sup>\*</sup>The maintenance period differs significantly according to the cleanliness of the room and hours of air conditioner operation.



### Quiet

#### All models incorporate an industry-leading quiet design, operating at under 41dB

Operating noise is substantially reduced by employing a proprietary double-structure outlet filter chamber, sound absorbing insulation, and a low pressure-loss HEPA filter. Sound level of all models are under 41dB (38dB during low-fan speed operation).

<sup>\*</sup>Operating noise may be greater than these values in highly reflective locations.

## Clean Room Air Conditioner

FXB(P)Q-P

### Specifications

Type	Integrated outlet unit model			Separate outlet unit model	
MODEL	Indoor unit	FXBQ40PVE	FXBQ50PVE	FXBQ63PVE	FXBPQ63PVE
Outlet unit		Integrated with the indoor unit			BAF82A63
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz			
Cooling capacity	Btu/h	15,400	19,100	24,200	24,200
	kW	4.5	5.6	7.1	7.1
Power consumption	kW	0.31	0.31	0.45	0.45
Intake filter efficiency *1		70% by gravimetric method			
Outlet HEPA filter efficiency *2		99.97% by DOP method *5			
Indoor unit weight	kg	140 *3	185 *3	120 *6	
Casing		Galvanised steel plate			
Airflow rate (H/L)	m <sup>3</sup> /min	19.5/17.5		26/22.5	
	cfm	688/618		918/794	
Sound level (H/L) *4	dB(A)	44/42			
Dimensions (HxWxD)	mm	492x1,788x1,000	492x1,788x1,300	492x1,078x1,300	
Outlet unit weight	kg	-			65 *3
Piping connections	Liquid (Flare)	φ6.4		φ9.5	
	Gas (Flare)	φ12.7		φ15.9	
	Drain	PT1B			
Filter(Optional)	HEPA filter	BAFH82A50		BAFH82A63	
Panel (Option)	Ceiling intake type	Model		BYB82A50C	BYB82A63CP
	Floor-level intake type	Model		BYB82A50W	BYB82A63WP

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)

\*1: An intake air filter is only attached to the ceiling intake type.

\*2: HEPA filter sold separately. The dust collection efficiency of HEPA filter is 99.97%. However, air may slightly leak around the filter when installing.

\*3: Weight including HEPA filter and panel.

\*4: Anechoic chamber conversion value under JIS B 8616 test conditions. Value usually increases slightly in practice due to surrounding conditions.

\*5: The clean room air conditioner does not support DOP testing (leak test) based on GMP standards (Standards for Manufacturing Control and Quality Control for Medical Devices) due to slight leakage at time of product installation.

\*6: Weight including panel.

\*In the case of an installation in an operating theatre etc. where an air conditioner malfunction may have serious consequences, please build in redundancy with two or more outdoor units.



Warning

#### Because the ceiling intake type provides concentrated air conditioning that blows directly under the outlet. Accordingly, please be aware of the following.

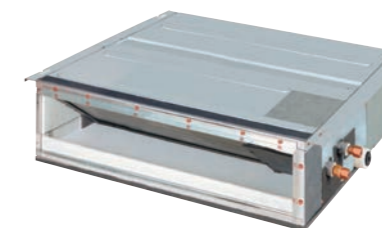
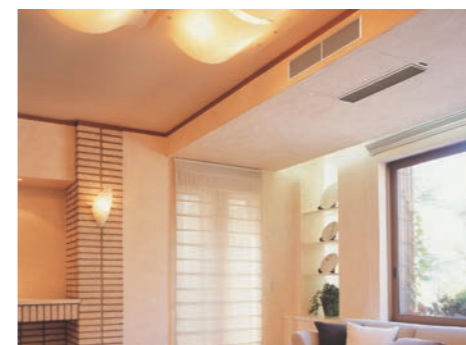
- Sufficient heating may not be achieved near the floor or at locations far from the outlet.
- In the case of utilization in a hospital, some patients may be susceptible to cool drafts, so please ensure that they do not come directly under the outlet.
- Install multiple units using two or more outdoor unit systems for installations to rooms such as operating rooms where the failure of the air conditioner may have serious consequences.
- In order to maintain static pressure in a room, the indoor fan continues to operate even when an abnormality occurs due to the thermostat shutting off, defrost operation, protection device operation, or similar issue.
- When incorporating outdoor air from the fresh air intake, install a damper or similar device to the duct routing and have it interlocked with the indoor fan so that the outdoor air is shut out when the fan stops. The air that incorporates the suction filter may flow backward and allow dust trapped in the filter to return to the room.
- When using gas to disinfect hospital operating rooms where this unit is installed, stop operation and cover the air inlet and outlet with plastic sheets to prevent the gas from reaching and damaging the air conditioner.

#### Use the floor-level intake type in the following kind of locations.

- Locations in which heating of the lower part or the entire room is important.
- Locations necessitating a particularly high cleanliness factor and in which there are many people.

## Slim Ceiling Mounted Duct Type

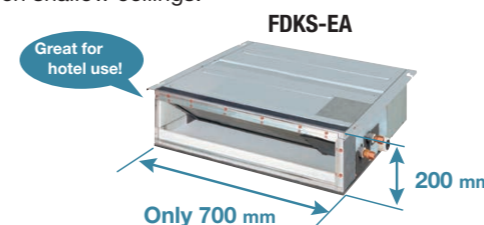
FDKS-EA/C



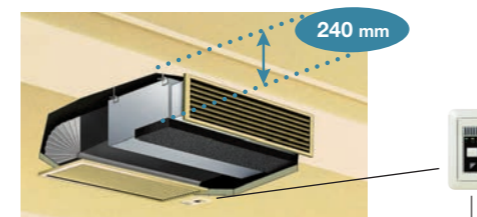
Standard accessory  
Note: Remote controllers other than the standard accessory wireless remote controller cannot be used.

### Slim and smooth design suits your shallow ceiling

- Models in the FDKS-EA series are only 700 mm in width and 21 kg in weight, made the installation easy in limited spaces. With only 200 mm in height, all models can be installed in rooms with as little as 240 mm depth between the drop ceiling and ceiling slab, making them ideal for even shallow ceilings.



	FDKS25EA	FDKS35EA	FDKS25CA	FDKS35CA
Dimensions (H x W x D)	200 x 700 x 620 mm	200 x 900 x 620 mm		
Weight	21 kg	25 kg		
Airflow rate (H)	8.7 m <sup>3</sup> /min	9.5 m <sup>3</sup> /min	10 m <sup>3</sup> /min	
External static pressure	30 Pa	40 Pa		



Signals from the wireless remote controller are transmitted to the signal receiver.

### Specifications

MODEL	FDKS25EAVMB	FDKS35EAVMB	FDKS25CAVMB	FDKS35CAVMB	FDKS50CVMB	FDKS60CVMB
Power supply	1-phase, 220-240 V/220-230 V, 50/60 Hz					
Airflow rates (H)	8.7 (307)		9.5 (335)	10.0 (353)	12.0 (424)	16.0 (565)
Sound levels (H/L/SL)*	35/31/29				37/33/31	38/34/32
Fan speed	5 steps, quiet and automatic					
Temperature control	Microcomputer control					
Dimensions (HxWxD)	200x700x620		200x900x620		200x1,100x620	
Machine weight	21		25		27	30
Piping connections	Liquid (Flare)	φ6.4				
	Gas (Flare)	φ9.5				φ12.7
	Drain	VP20 (External Dia. 26/Internal Dia. 20)				
Heat insulation	Both liquid and gas pipes					
External static pressure	30			40		

Note: \* The operation sound level values represent those for rear-suction operation and an external static pressure of 30 Pa for FDKS-EA and 40 Pa for FDKS-C. Sound level values for bottom-suction operation can be obtained by adding 6 dB (A) for FDKS-EA and 5 dB (A) for FDKS-C.

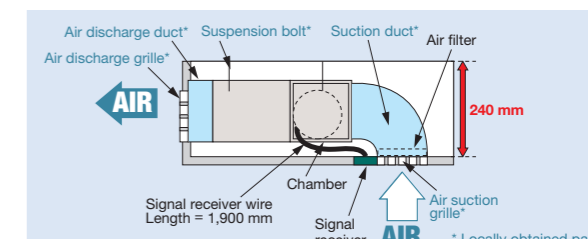
#### Low operation sound level (H/L/SL)

FDKS25	FDKS35	FDKS50	FDKS60
35/31/29 dB (A)	35/31/29 dB (A)	37/33/31 dB (A)	38/34/32 dB (A)

- Home Leave Operation prevents large increase or decrease in the indoor temperature by continuing operation\* while someone is sleeping or left the house. This means that an air-conditioned welcome awaits when someone wakes up or returns. It also means that the indoor temperature can quickly return to the preferred comfort setting.

\* Home Leave Operation can set to any temperature from 18 to 32°C for cooling operation.

\* Home Leave Operation function must be set by using the remote controller when going to sleep or leaving the house, and after waking up or returning home.



Note:

1. To prevent an increase of the operation noise, avoid installing the air suction grille directly below the suction chamber.
2. Grilles, piping connections, ducts, and installation parts should be obtained locally. Slim Ceiling Mounted Duct type models do not have drain-up pumps.
3. The signal receiver unit must be located near the air suction inlet, because the unit includes a sensor that detects room temperature.



### Wall Mounted Type

FTKJ-N

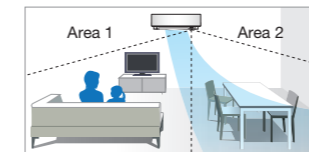
#### Elegant appearance with European style



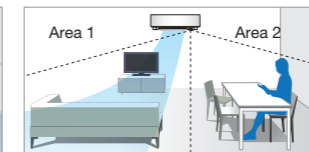
- Elegant Appearance with Curved Panel
  - The sleek design of the FTKJ-N indoor unit features a uniquely European style. This elegant body houses state-of-the-art technology which delivers superior performance. The FTKJ-N series offers a versatile choice for home-owners, designers and architects alike.



- Two-Area Intelligent Eye
  - A combination of Comfort Airflow Mode and Intelligent Eye directs airflow away from people to avoid impacts. If there is no movement in a room for 20 minutes, Intelligent Eye automatically adjusts the set temperature by approximately 2°C to save energy.

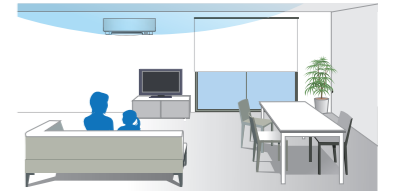


If a person is detected in area 1, airflow is directed away from him/her.

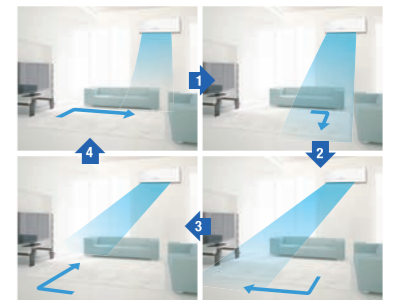


If a person is detected in area 2, airflow is directed away from him/her.

- Comfort Airflow Mode
  - Comfort Airflow Mode prevents uncomfortable impacts from blowing directly to a person's body. During cooling operation, the flap moves upwards to prevent cold impacts.



- 3D Airflow
  - 3D Airflow combines Vertical and Horizontal Auto-Swing to reduce indoor temperature fluctuation. This function circulates air to every part of a room for uniform cooling, even for large spaces. To start 3D Airflow, push both the Vertical and Horizontal Auto-Swing buttons. The flaps and louvers swing in turn.



The flaps and louvers swing in turn, expands the comfort zone.

### Specifications

MODEL	FTKJ25NVMW	FTKJ25NVMS	FTKJ35NVMW	FTKJ35NVMS	FTKJ50NVMW	FTKJ50NVMS
Power supply	1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel colour	White	Silver	White	Silver	White	Silver
Airflow rates (H)	8.9 (313)		10.9 (385)			
Sound levels (H/L/SL)	38/25/19		45/26/20		46/35/29	
Fan speed	5 steps, quiet and automatic					
Temperature control	Microcomputer control					
Dimensions (H×W×D)	mm 303x998x212					
Machine weight	kg 12					
Piping connections	Liquid (Flare)			φ6.4		
	Gas (Flare)			φ9.5		φ12.7
	Drain					φ18.0
Heat insulation	Both liquid and gas pipes					

## Wall Mounted Type

## FTKS-D/B/F



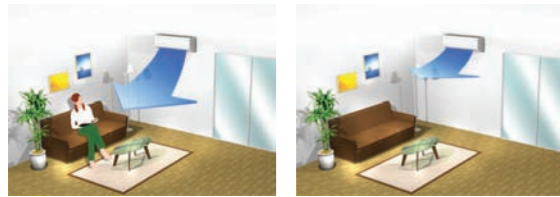
\* Remote controllers other than the standard accessory wireless remote controller cannot be used.

### Stylish flat panel harmonises with your interior décor

Wall Mounted indoor units achieve quiet sound levels of 22 dB (A). (H/L/SL)

FTKS25D	FTKS35D	FTKS50F	FTKS60F	FTKS71F
37/25/22 dB (A)	39/26/23 dB (A)	43/34/31 dB (A)	45/36/33 dB (A)	46/37/34 dB (A)

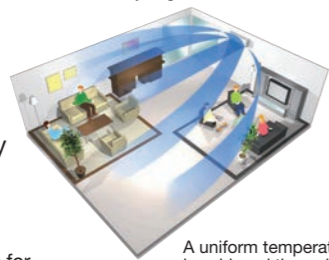
● Intelligent Eye with its infrared sensor automatically controls air conditioner operation according to human movement in a room. When there is no movement, it adjusts the temperature by 2°C for energy savings.



When you are in the room

When you go out

● 3-D Airflow combines Vertical and Horizontal Auto-Swing to circulate air to every part of a room for uniform cooling of even large spaces.



A uniform temperature is achieved throughout the entire room.

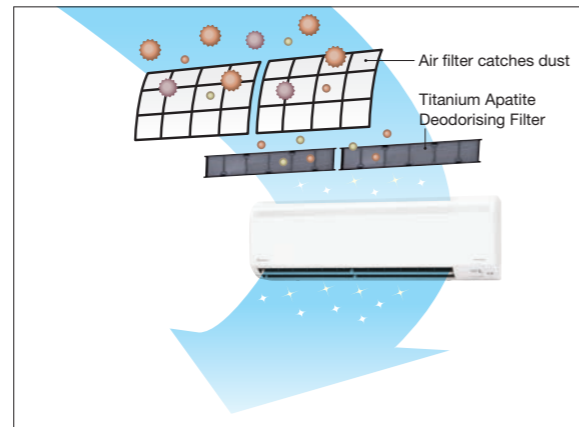
\* This function is available for FTKS50/60/71F.

### Specifications

MODEL	FTKS25DVM	FTKS35DVM	FTKS50BVMA	FTKS50FVM	FTKS60FVM	FTKS71FVM
Power supply	1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel colour	White					
Airflow rates (H)	m <sup>3</sup> /min (cfm)	8.7 (307)	8.9 (314)	11.4 (402)	14.7 (519)	17.4 (614)
Sound levels (H/L/SL)	dB (A)	37/25/22	39/26/23	44/35/32	43/34/31	45/36/33
Fan speed	5 steps, quiet and automatic					
Temperature control	Microcomputer control					
Dimensions (HxWxD)	mm	283x800x195	290x795x238	290x1,050x238		
Machine weight	kg	9			12	
Piping connections	Liquid (Flare)	φ6.4				
	Gas (Flare)	φ9.5	φ12.7			φ15.9
	Drain	φ18.0				
Heat insulation	Both liquid and gas pipes					

### ● Titanium Apatite Deodorising Filter

While the filter's micron-level fibres trap dust, titanium apatite effectively adsorbs odours and allergens, as well as deodorises odours.



This filter is not a medical device. Benefits such as the adsorption of odours and allergens and deodorisation of odours are only effective for substances which are directly attached to the Titanium Apatite Deodorising Filter.

## BP Units for Connection to Residential Indoor Units

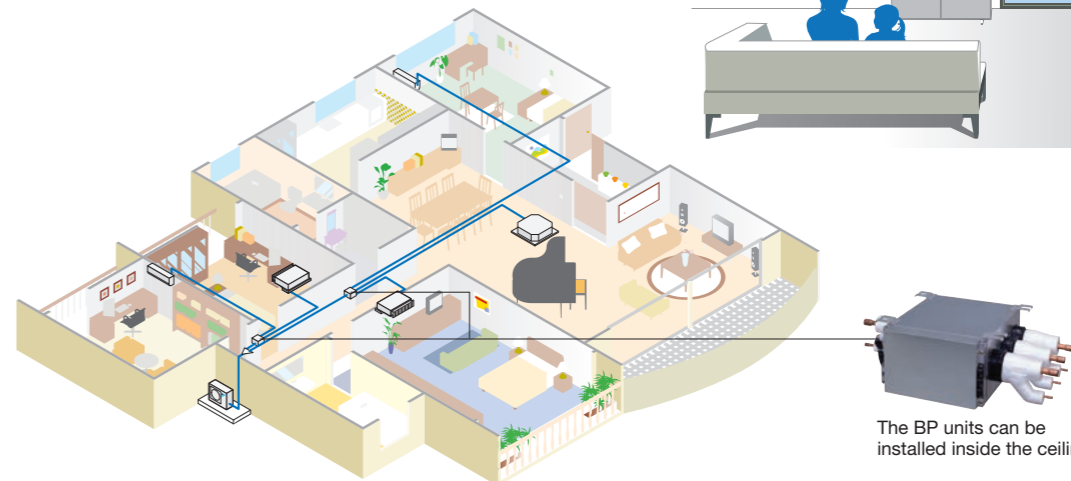
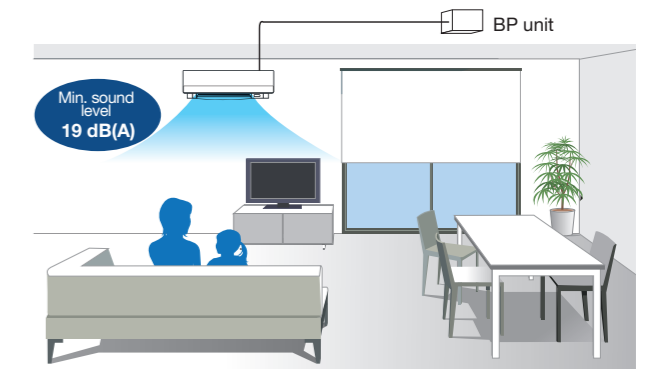
### Connectable to Residential Indoor Units

BP units allow VRF systems to be connected to Daikin's stylish and quiet residential indoor units.



### Quiet Operating Sound

Expansion valves tend to create refrigerant passing noise. However, this noise can be reduced by installing the valves in BP units. The units can be fitted inside the ceiling or roof-space far from an indoor unit. Some Daikin residential indoor units also provide minimum sound levels of just 19 dB(A). Together these features ensure your system continues to operate as quietly as possible.



The BP units can be installed inside the ceiling.

### Specifications



BPMKS967A3



BPMKS967A2

MODEL	BPMKS967A3	BPMKS967A2		
Power supply	1-phase, 220-240 V/220-230 V, 50/60 Hz			
Number of ports	3 (connectable to 1-3 indoor units)	2 (connectable to 1-2 indoor units)		
Power consumption	W	10		
Running current	A	0.05		
Dimensions (HxWxD)	mm	180x294 (+356*)x350		
Machine weight	kg	8		
		7.5		
Number of wiring connections	3 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 4 for interunit wiring (BP-indoor unit)	2 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 3 for interunit wiring (BP-indoor unit)		
Piping connections (Brazeing)	Liquid	Main Branch	mm	φ9.5X1
	Gas	Main Branch	mm	φ6.4X3
		Branch	mm	φ19.1X1
			mm	φ15.9X3
			mm	φ15.9X2
Heat insulation	Both liquid and gas pipes			
Connectable indoor units	2.0 kW class to 7.1 kW class			
Min. rated capacity of connectable indoor units	kW		2.0	
Max. rated capacity of connectable indoor units	kW		20.8	
			14.2	

Note: \* Total auxiliary piping length.

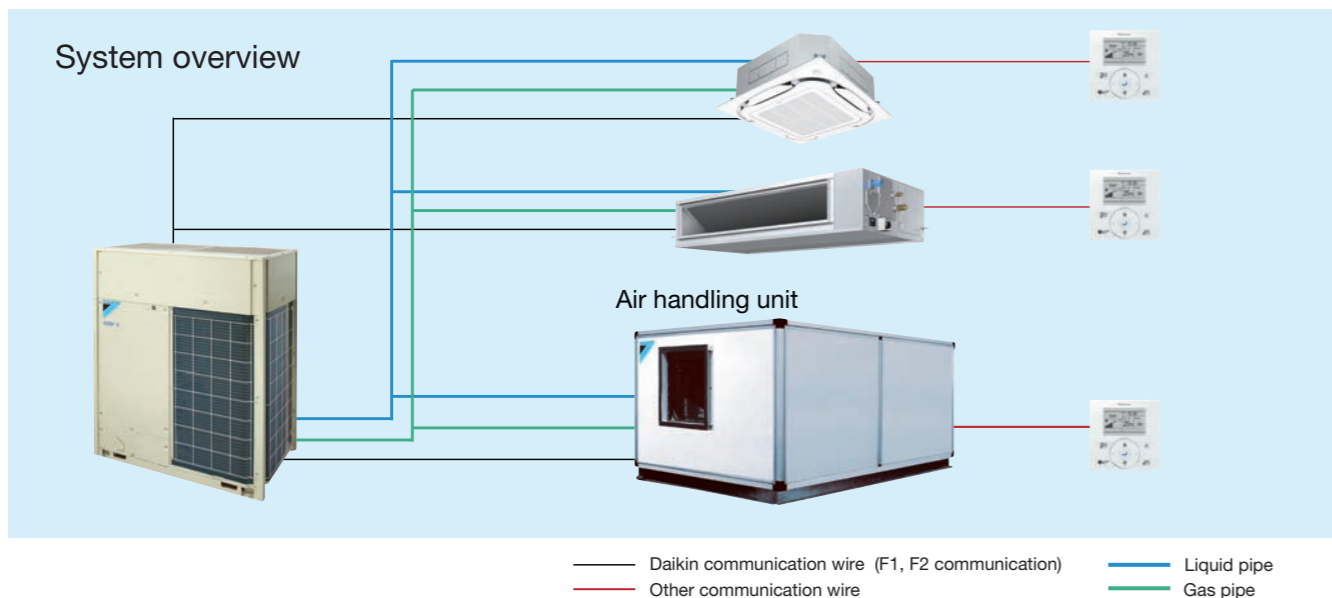
## Air Handling Unit

Integrate your air handling unit in a total solution for large size spaces such as factories and large stores.

**AHUR**  
Capacity range : 6 – 120 HP

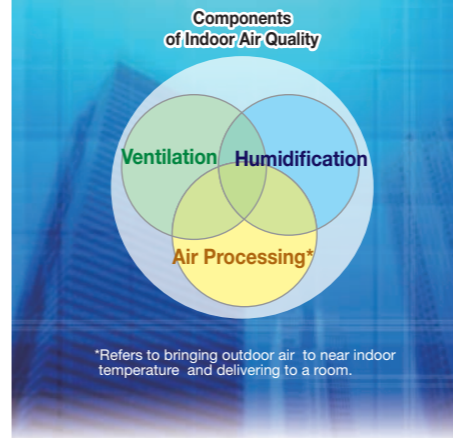


- Easy design and installation
  - The system is easy to design and install since no additional water systems such as boilers, tanks and gas connections etc are required.
- Inverter controlled units
- Control of air temperature via standard Daikin wired remote control for standard series



Daikin air handling units can be connected to VRF systems. This combination can be built to order as a system. Outdoor air series is also possible. Please contact your local sales office for details.

Daikin's air treatment systems creating a higher air quality environment



A recent trend rapidly gaining popularity is for air treatment to be required as well as air conditioning. Daikin's Outdoor-Air Processing Unit can combine fresh air treatment and air conditioning, supplied from a single system. It adjusts the temperature of air from outdoors using a fixed discharge temperature control. Along with Outdoor-Air Processing Units, we also offer Heat Reclaim Ventilator systems. The Heat Reclaim Ventilator VAM-GJ series units in particular have been praised for their compactness, energy conservation and extensive operation range of outdoor temperatures. This series provides higher enthalpy efficiency\*<sup>1</sup>, due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure\*<sup>2</sup> offers more flexibility for installation. The Heat Reclaim Ventilator VKM-GAM series units, equipped with a DX-coil and a humidifier, provide further advanced features, such as temperature adjustment to suit conditions indoors and to prevent cold air from blowing on people directly during heating operation. The series also realises significant energy savings by exercising heat recovery.

★1 For models: VAM150/250/350/650/800/1000/2000GJVE  
★2 For models: VAM150/350/500GJVE

	Outdoor-Air Processing Unit	Heat Reclaim Ventilator		
		VKM-GAM Type	VKM-GA Type	VAM-GJ Type
Connections with VRF systems	Refrigerant Piping	Connectable	Connectable	Not connectable
	Wiring	Connectable	Connectable	Connectable
	After-cool & After-heat Control	Available	Available	Not available
Heat Exchange Element	—	Energy savings obtained	—	Energy savings obtained
Humidifier	—	Fitted	—	—
High Efficiency Filter	Option	Option	Option	Option
Ventilation System	Air supply only	Air supply & air exhaust	—	Air supply & air exhaust
Power Supply	220-240 V, 50 Hz	220-240 V, 50 Hz	—	220-240 V/220 V, 50 Hz/60 Hz
Airflow Rate	—	—	150 m <sup>3</sup> /h	—
	—	—	250 m <sup>3</sup> /h	—
	—	—	350 m <sup>3</sup> /h	—
	—	500 m <sup>3</sup> /h	500 m <sup>3</sup> /h	500 m <sup>3</sup> /h
	—	800 m <sup>3</sup> /h	800 m <sup>3</sup> /h	800 m <sup>3</sup> /h
	1080 m <sup>3</sup> /h 1680 m <sup>3</sup> /h 2100 m <sup>3</sup> /h	1000 m <sup>3</sup> /h	1000 m <sup>3</sup> /h	1000 m <sup>3</sup> /h 1500 m <sup>3</sup> /h 2000 m <sup>3</sup> /h

\*Refers to bringing outdoor air to near indoor temperature and delivering to a room.

# Air Treatment Equipment Lineup

## Outdoor-Air Processing Unit

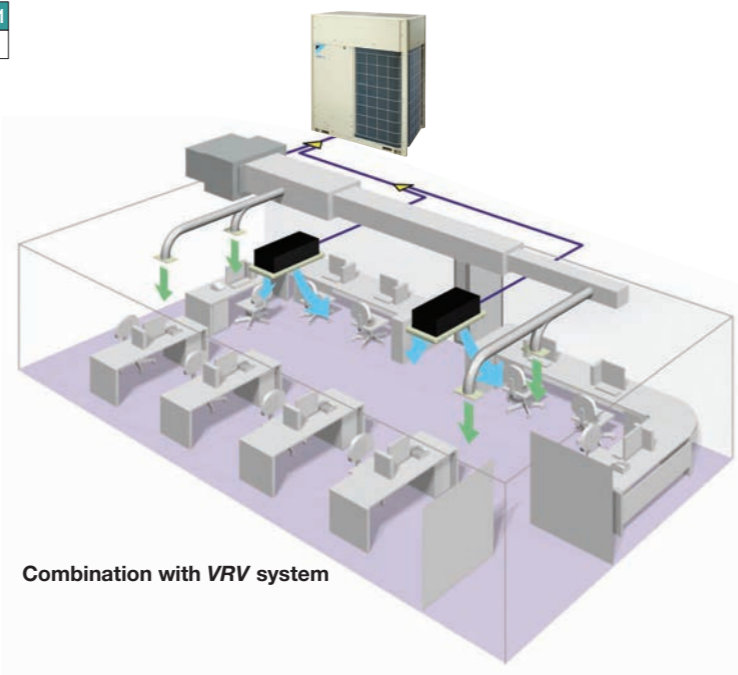
Combine fresh air treatment and air conditioning, supplied from a single system.

### Lineup

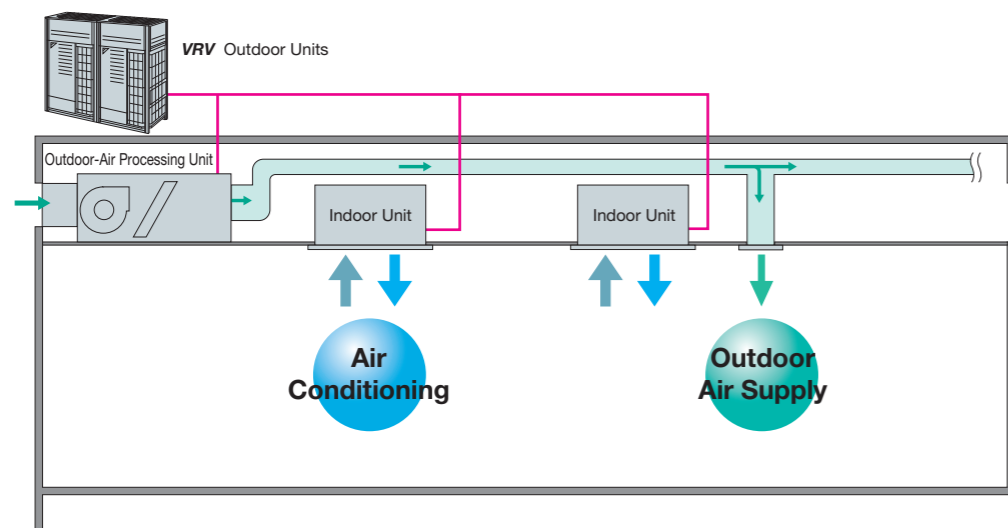
Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250



Fresh air treatment and air conditioning can be achieved with a single system by using heat pump technology—without the usual troublesome air supply and air discharge balance design. Fan coil units for air conditioning and an outdoor-air processing unit can be connected to the same refrigerant line. This results in enhanced design flexibility and significant reduction in total system costs.



Air conditioning and outdoor air processing can be accomplished using a single system.



### Connection Conditions

The following restrictions must be observed in order to maintain the indoor units connected to the same system.

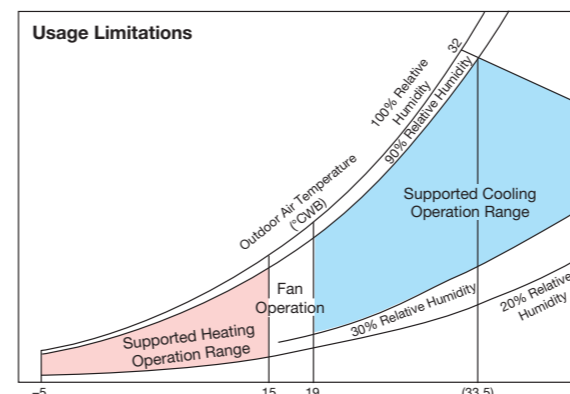
- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
- When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units. Because connection is possible depending on conditions even when the capacity index of outdoor-air processing units exceeds 30% of the capacity index of the outdoor units, contact your local distributor.
- Outdoor-air processing units can be used without indoor units.

- The unit introduces outdoor air and adjusts the outdoor air temperature via fixed discharge temperature control, thereby reducing the air conditioning load.
- \* The system can operate with outdoor-air temperatures ranging from -5 to 43°C. Heating performance is somewhat adversely affected when the outdoor-air temperature is 0°C or below.
- \* When shipped from the factory, the thermostat is set at 18°C for cooling. The set temperature can be varied within the range of 13–25°C during cooling operation, in the local setting mode using the wired remote controller. The temperature, however, is not displayed on the remote controller.
- \* While in machine protection mode and depending on outdoor air conditions, discharge air temperature may not be at the set temperature.
- \* The fan stops when operating in defrosting, oil returning and hot start operations. The fan may stop due to mechanical protection control.
- Ceiling mounted duct units with three different capacities are available. These can be connected to VRV series outdoor units to meet a variety of different requirements.

### Airflow rate

FXMQ125MFV1	1,080 m <sup>3</sup> /h
FXMQ200MFV1	1,680 m <sup>3</sup> /h
FXMQ250MFV1	2,100 m <sup>3</sup> /h

- Optional equipment includes long-life filters.
- Compatible with outdoor temperatures from -5°C to 43°C.



### Note:

1. The data shown in the graph illustrates the supported operation ranges under the following conditions.  
Indoor and Outdoor Unit  
Effective piping length: 7.5 m  
Height differential: 0 m
2. The discharge temperature can be set using the remote controller. However, the actual temperature may not match the temperature setting under some circumstances due to the outdoor-air processing load or mechanical protection controls.
3. The system will not operate in fan mode when the outdoor air temperature is 5°C or below.

- High-performance filters with dust collection efficiencies (JIS calorimetry) of 90% and 65% are also available as options.

- For the VRV system, a variety of control systems can be deployed, including remote control from distances of up to 500 m.



BRC1E63

Navigation Remote Controller (Wired remote controller) (option)

- \* Group control is not possible between this unit and standard type indoor units. Remote controllers connect to each unit separately.

- The “self-diagnosis function” indicates the occurrence and nature of abnormalities in the system by displaying codes on the remote controller.

- A central control system compatible with the VRV system can be installed.



DCS302CA61

Central remote controller (option)

- \* It is not possible to change the discharge air temperature settings from the central control system.
- \* Do not associate this equipment in areas which standard indoor units are installed, as central control cannot be used with them.

- With the VRV system, the equipment employs the “super wiring system” so that the wiring linking the indoor and outdoor units can also be utilised for central control.

### Note:

- Linked control of the product and the Heat Reclaim Ventilator is not supported.
- This equipment is intended for the treatment of outdoor air only. It is not to be used for maintaining indoor air temperature. Installing or use with standard indoor units. Be sure to position the air discharge openings of the product in positions where the airflow will not blow on people directly. When outdoor-air processing is in excess, the unit switches to thermo-off mode, and outdoor air flows into the room directly.
- For outdoor ducts, be sure to provide heat insulation to prevent condensation.
- Group control of the product and standard indoor units is not supported. A separate remote controller should be connected to individual unit.
- The system will not operate in fan mode when the outdoor air temperature is 5°C or below.
- If the product is utilised to operate 24 hours a day, maintenance (part replacement, etc.) must be performed periodically.
- Temperature setting and Power Proportional Distribution (PPD) are not possible even if the intelligent Touch Controller or the intelligent Touch Manager is installed.
- The remote controller wired to the outdoor-air processing unit must not be set as the master remote controller. Otherwise, when set to “Auto,” the operation mode will switch according to the outdoor air conditions, regardless of the indoor temperature.

# Air Treatment Equipment Lineup

## STANDARD SPECIFICATIONS

### Indoor unit

Type		Ceiling Mounted Duct Type			
Model		FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1	
Power supply		1-phase 220-240 V (also required for indoor units), 50 Hz			
Cooling capacity *1	Btu/h	47,800	76,400	95,500	
	kW	14.0	22.4	28.0	
Power consumption	kW	0.359	0.548	0.638	
Casing		Galvanised steel plate			
Dimensions (HxWxD)		470X744X1,100		470X1,380X1,100	
Fan	Motor output	0.380			
	Airflow rate	m <sup>3</sup> /min	18	28	35
		cfm	635	988	1,236
External static pressure	220V/240V	Pa	185/225	225/275	205/255
Air filter		*2			
Refrigerant piping	Liquid	mm	φ 9.5 (flare)		
	Gas	mm	φ 15.9 (flare)	φ 19.1 (brazing)	φ 22.2 (brazing)
	Drain	mm	PS1B female thread		
Machine weight		kg	86	123	
Sound level *3	220V/240V	dB(A)	42/43	47/48	
Connectable outdoor units *4			6 HP and above	8 HP and above	10 HP and above
Operation range (Fan mode operation between 15 and 19°C)		Cooling	19 to 43°C		
Range of the discharge temperature *5		Cooling	13 to 25°C		

Notes: \*1. Specifications are based on the following conditions:  
 • Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.  
 • Equivalent reference piping length: 7.5 m (0 m horizontal)  
 \*2. An intake filter is not supplied, so be sure to install the optional long-life filter or high-efficiency filter. Please mount it in the duct system of the suction side. Select a dust collection efficiency (gravity method) of 50% or more.  
 \*3. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. These values are normally somewhat higher during actual operation as a result of ambient conditions.  
 \*4. It is possible to connect to the outdoor unit if the total capacity of the indoor units is 50% to 100% of the capacity index of the outdoor unit.  
 \*5. Local setting mode is not displayed on the remote controller.  
 • This equipment cannot be incorporated into the remote group control of the VRV system.

## OPTIONS

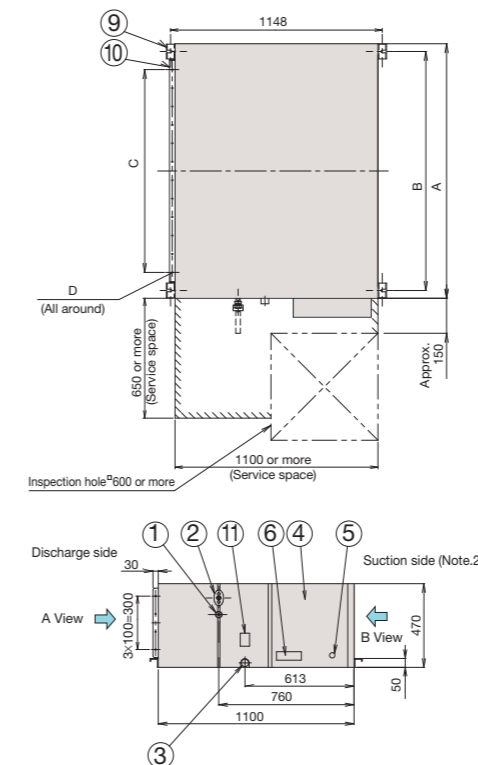
### Indoor unit

Model		FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1	
Operation/control	Operation remote controller	BRC1E63/BRC1C62			
	Central remote controller	DCS302CA61			
	Unified ON/OFF controller	DCS301BA61			
	Schedule timer	DST301BA61			
	Wiring adaptor for electrical appendices (1)	KRP2A61			
Wiring adaptor for electrical appendices (2)	KRP4AA51				
Filters	Long-life replacement filter	KAFJ371L140	KAFJ371L280		
	High-efficiency filter	Colourimetric method 65%	KAFJ372L140	KAFJ372L280	
		Colourimetric method 90%	KAFJ373L140	KAFJ373L280	
	Filter chamber *1	KDJ3705L140	KDJ3705L280		
Drain pump kit		KDU30L250VE			
Adaptor for wiring		KRP1B61			

Note: \*1. Filter chamber has a suction-type flange. (Main unit does not.)  
 • Dimensions and weight of the equipment may vary depending on the options used.  
 • Some options may not be usable due to the equipment installation conditions, so please confirm prior to ordering.  
 • Some options may not be used in combination.  
 • Operating sound may increase somewhat depending on the options used.

## DIMENSIONS

### FXMQ125/200/250MFV1



\*These diagrams are based on FXMQ200 and FXMQ250MFV1.

### Local connection piping size

Model	Gas piping diameter	Liquid piping diameter
FXMQ125MFV1	φ15.9	φ9.5
FXMQ200MFV1	φ19.1 attached piping	φ9.5
FXMQ250MFV1	φ22.2 attached piping	φ9.5

### Table of dimensions

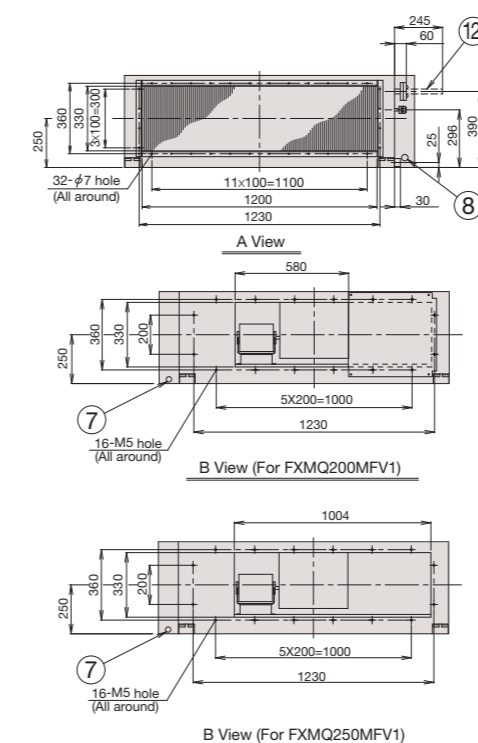
Model	A	B	C	D
FXMQ125MFV1	744	685	5X100=500	20-φ4.7 hole
FXMQ200MFV1	1380	1296	11X100=1100	32-φ4.7 hole
FXMQ250MFV1	1380	1296	11X100=1100	32-φ4.7 hole

### Notes:

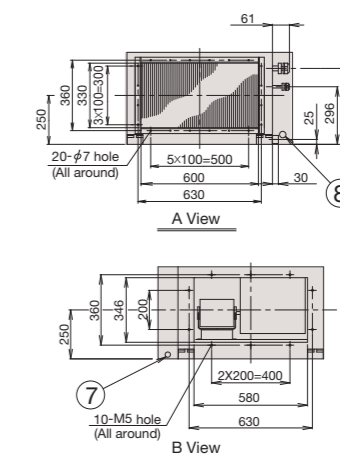
- The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (② in the diagram) has a different bore form with FXMQ125MFV1.
- An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side. [Use a filter with dust collection efficiency of at least 50% (gravimetric method). This is available as an option.]
- For outdoor ducts, be sure to provide heat insulation to prevent condensation.

- |                           |                                  |
|---------------------------|----------------------------------|
| ① Liquid pipe connection  | ⑦ Power supply wiring connection |
| ② Gas pipe connection     | ⑧ Transmission wiring connection |
| ③ Drain piping connection | ⑨ Hanger bracket                 |
| ④ Electric parts box      | ⑩ Discharge companion flange     |
| ⑤ Ground terminal         | ⑪ Water supply port              |
| ⑥ Name plate              | ⑫ Attached piping (Note. 1)      |

### FXMQ200/250MFV1



### FXMQ125MFV1

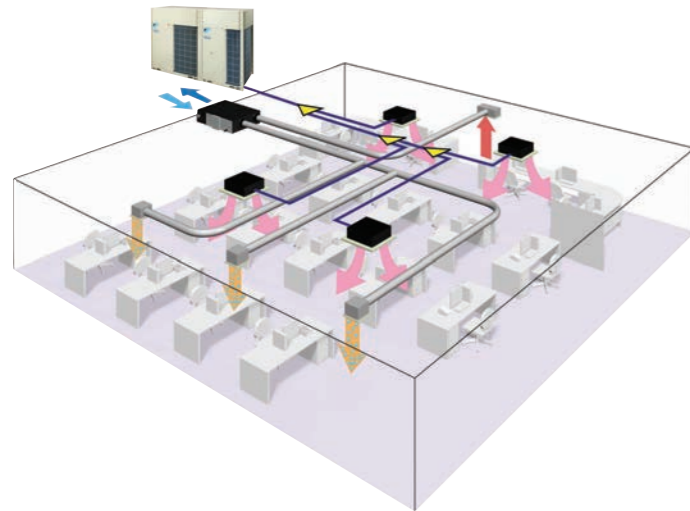




# Air Treatment Equipment Lineup

## Heat Reclaim Ventilator with DX-Coil and Humidifier – VKM series

The Heat Reclaim Ventilator lineup features the DX-coil in response to recently diversifying outdoor air introduction requirements.



### Lineup

With DX Coil & Humidifier Type			
Model Name	VKM50GAMV1	VKM80GAMV1	VKM100GAMV1
Capacity Index	31.25	50	62.5

With DX Coil Type			
Model Name	VKM50GAV1	VKM80GAV1	VKM100GAV1
Capacity Index	31.25	50	62.5



### Humidifier

The lineup includes models with a humidifier, in response to diverse customer requirements. (VKM50/80/100GAMV1 only)

### DX-coil

The Heat Reclaim Ventilator features DX-coil that contributes to the prevention of cold airflow colliding people directly during heating operation, due to the after-cool, after-heat operations done beforehand.

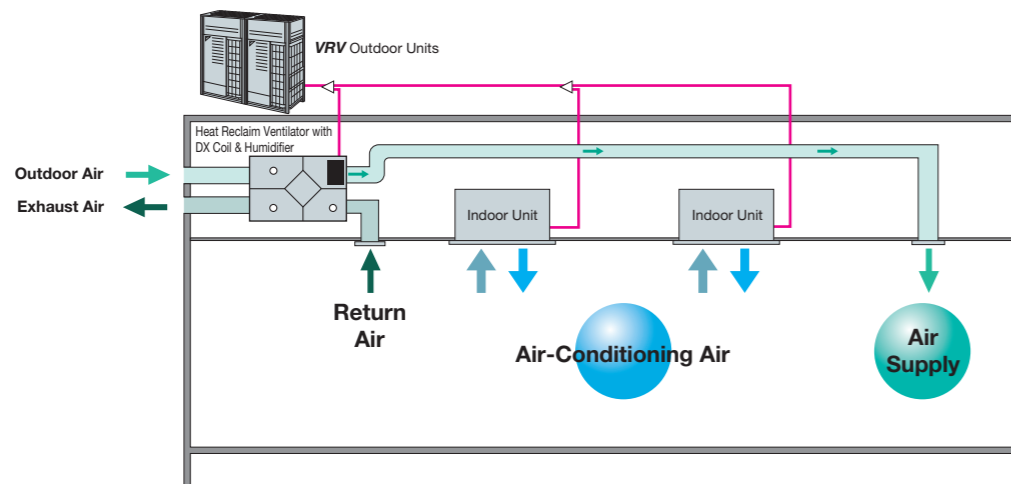
### High static pressure

High external static pressure means enhanced design flexibility.

### Efficient outdoor air introduction is possible

The Heat Reclaim Ventilator (VKM series) series introduces fresh outdoor air with minimum heat losses, with a wide variety of features cater to customer requirements.

Air conditioning and outdoor air processing can be accomplished using a single system.

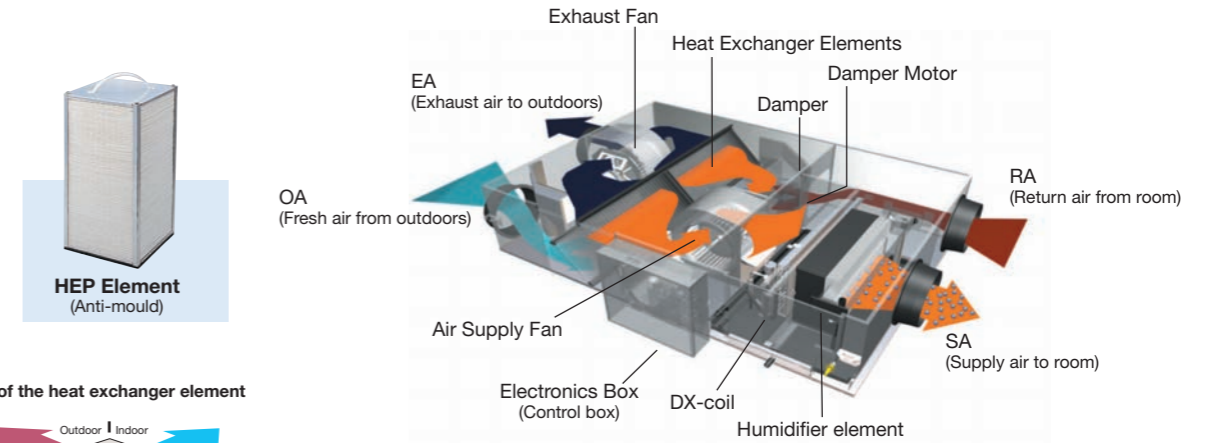


### Connection Conditions

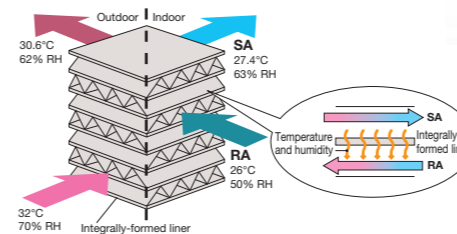
The following restrictions must be observed in order to maintain the indoor units connected to the same system.

- When the Heat Reclaim Ventilator VKM series units are connected, the total connection capacity index must be 50% to 130% of the capacity index of the outdoor units.

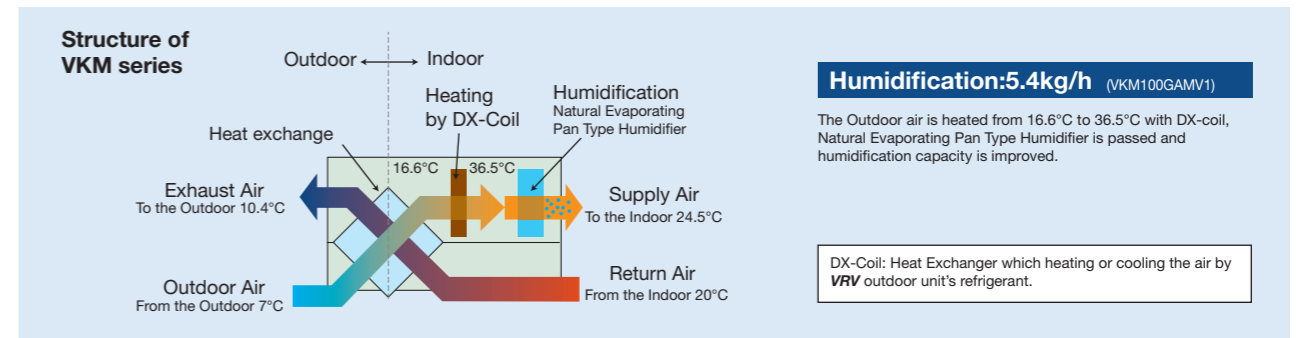
A compact unit packed with Daikin's cutting-edge technologies.



### Operation of the heat exchanger element



### Heating and humidification process



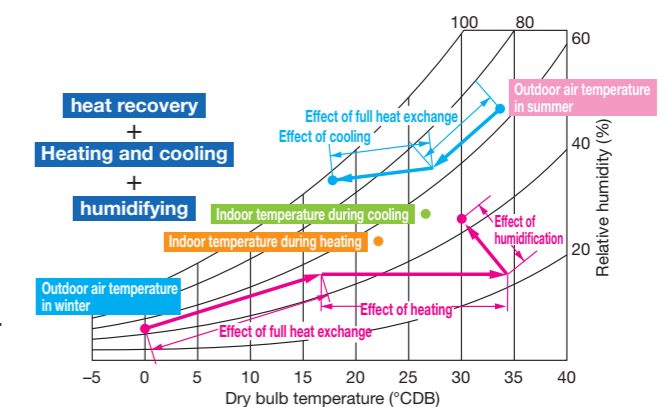
Efficient outdoor air introduction with heat exchanger and cooling/heating operation.

### Indoor unit with outdoor air treatment

Using outdoor air, the temperature can be brought near room temperature with minimal cooling capacity through the use of outdoor air.

### Other features

- Integrated system includes ventilation and humidifying operations.
- Ventilation, cooling/heating and humidifying are possible with one remote controller.





# Air Treatment Equipment Lineup

## Heat Reclaim Ventilator – VAM series

The Heat Reclaim Ventilator creates a high-quality environment by Interlocking with the air conditioner

Model Names

VAM150GJVE, VAM250GJVE, VAM350GJVE,  
VAM500GJVE, VAM650GJVE, VAM800GJVE,  
VAM1000GJVE, VAM1500GJVE, VAM2000GJVE

Improved Enthalpy Efficiency\*<sup>1</sup>  
Higher External Static Pressure\*<sup>2</sup>  
Enhanced Energy Saving Functions



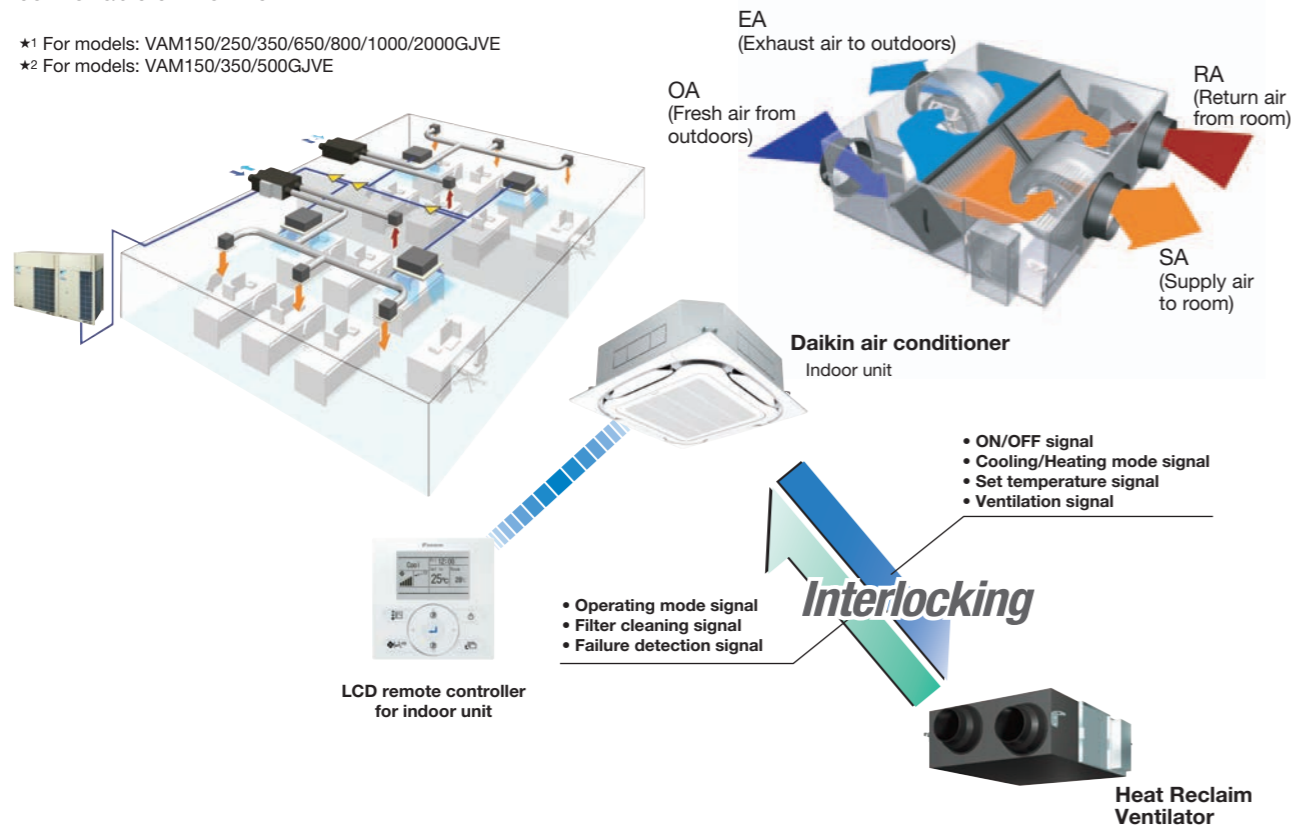
Heat Reclaim Ventilator remote controller\*  
BRC301B61 (Option)

\* This remote controller is used in case of independent operation of Heat Reclaim Ventilator.

This VAM series provides higher enthalpy efficiency\*<sup>1</sup>, due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure\*<sup>2</sup> offers more flexibility for installation. Along with these three outstanding improvements, the nighttime free cooling operation contributes to energy conservation and more comfortable environment.

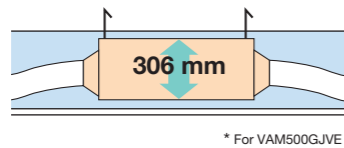
\*<sup>1</sup> For models: VAM150/250/350/650/800/1000/2000GJVE

\*<sup>2</sup> For models: VAM150/350/500GJVE



### Compact Equipment

With a height of only 306 mm, the unit easily fits into limited spaces, such as above ceilings.



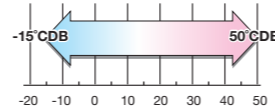
\* For VAM500GJVE

### Energy Conservation

Air conditioning load reduced by approximately 31%!

### Cold Climate Compatible

Standard operation at temperatures down to -15°C.



Air conditioning load reduced by approximately 31%!

### Total heat exchange ventilation

This unit recovers heat energy lost through ventilation and curbs room temperature changes caused by ventilation, thereby conserving energy and reducing the load on the air conditioning system.

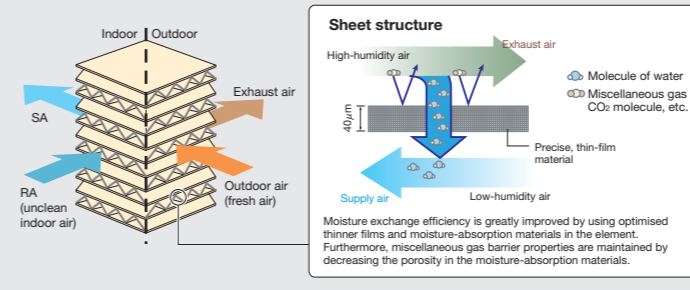
### Enthalpy efficiency drastically improved by employing thin film element! (VAM-GJ model)

With the thinner film...

- It can decrease the moisture resistance of the partition sheets drastically.
- Gaining more space for extra layers in the element, result in increasing of effective area that supply and exhaust air can be exposed to.

Moisture absorption increased by approx. 10%!

Thickness of the partition sheet  
**40 μm**



23%

### Auto-ventilation Mode Changeover Switching

6%

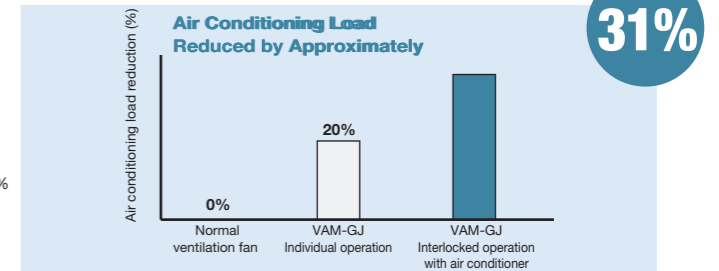
Automatically switches the ventilation mode (Total Heat Exchange Mode/Bypass Mode) according to the operating status of the air conditioner.

### Pre-cool, Pre-heat Control

2%

Reduces air conditioning load by not operating the Heat Reclaim Ventilator while air conditioner is turned ON.

- The air conditioning load reduction values may vary according to weather and other environmental conditions at the location of the machine's installation.
- The air conditioning load reduction values are based on the following conditions:  
Application: Tokyo office building  
Building form: 6 floors above ground, 2 floors underground, floor area 2,100 m<sup>2</sup>  
Personnel density: 0.25 person/m<sup>2</sup>  
Ventilation volume: 25 m<sup>3</sup>/h  
Indoor air conditioning level: summer 25°C 50% RH, intermediate seasons 24°C 50% RH, winter 22°C 40% RH  
Operating time: 2745 hours (9 hours per day, approx. 25 days per month)  
Calculation method: simulation based on "MICRO-HASP/1982" of the Japan Building Mechanical and Electrical Engineers Association.



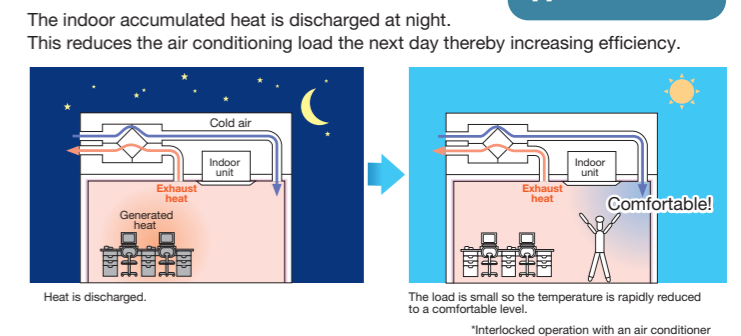
### Nighttime free cooling operation\*<sup>1</sup>

Nighttime free cooling operation is an energy-conserving function that works at night when air conditioners are off. By ventilating rooms containing office equipment that raises the room temperature, nighttime free cooling operation reduces the cooling load when air conditioners are turned on in the morning. It also alleviates feelings of discomfort in the morning caused by heat accumulated during the night.

- Nighttime free cooling operation only works to cool and if connected to Building Multi or VRV systems.
- Nighttime free cooling operation is set to "off" in the factory settings, so if there is a need to turn on, please contact Daikin dealer.

- \*<sup>1</sup> This function can be operated only when interlocked with air conditioners.
- \*<sup>2</sup> Value is based on the following conditions:  
• Cooling operation performed from April to October.  
• Calculated for air conditioning sensible heat load only (latent heat load not included).

Air conditioning sensible heat load reduced by approx. 5%\*<sup>2</sup>!

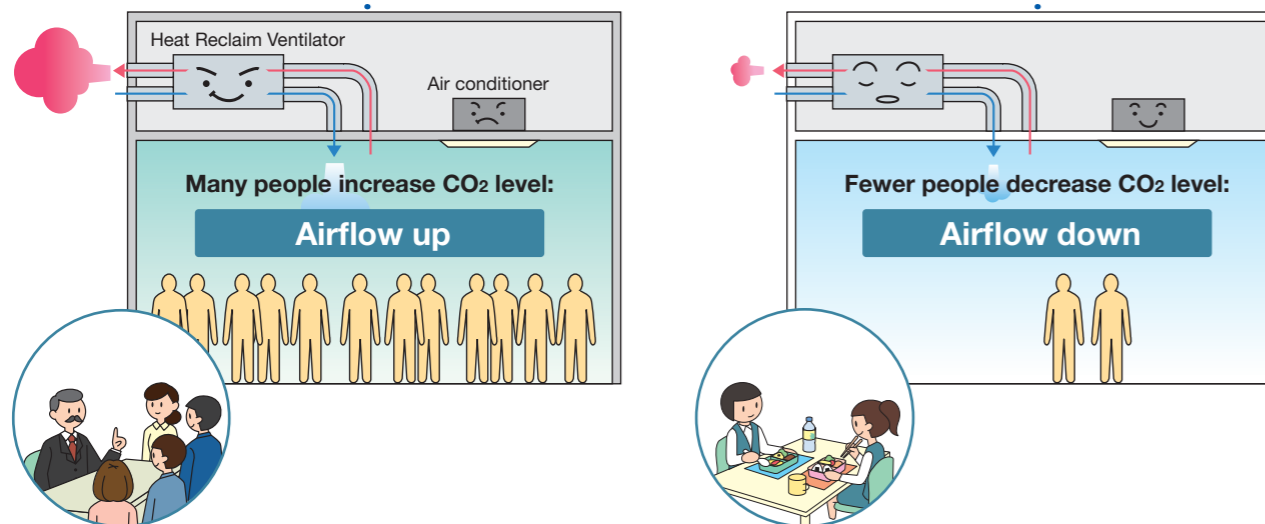
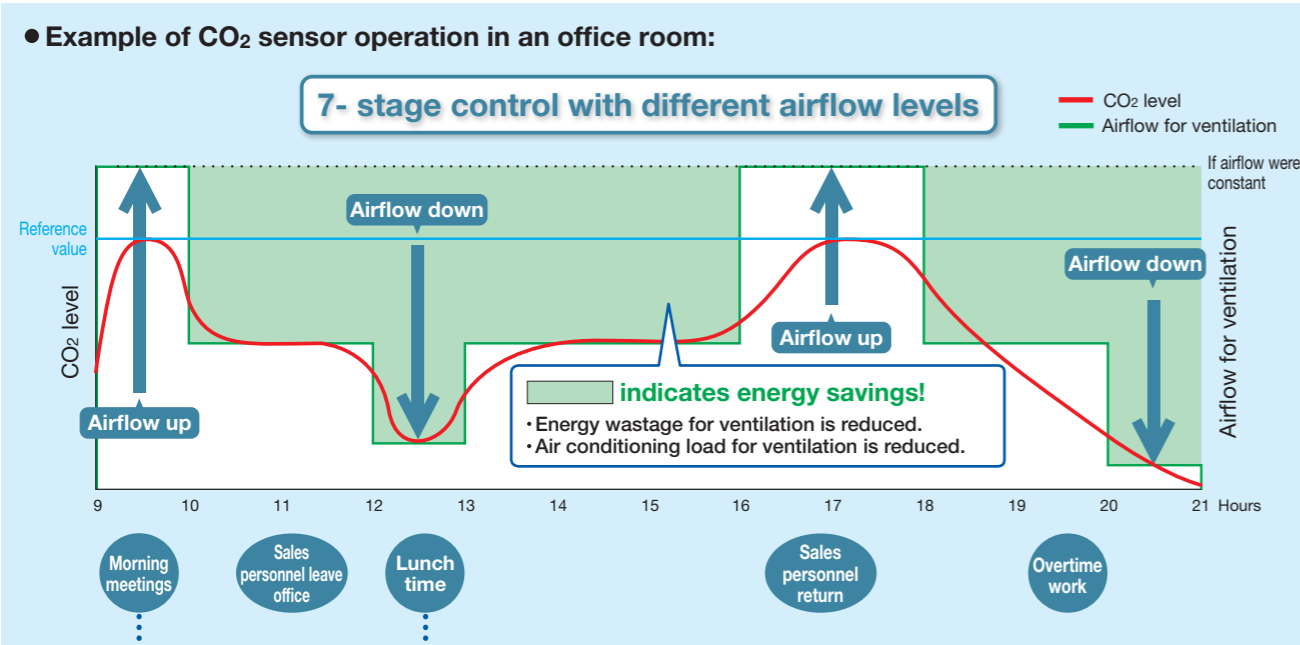


# Air Treatment Equipment Lineup

## Heat Reclaim Ventilator – VAM series

### CO<sub>2</sub> Sensor Optional Kit Connection

The CO<sub>2</sub> sensor controls airflow so that it best matches the changes in CO<sub>2</sub> level. This prevents energy losses from over-ventilation while maintaining indoor air quality with optional CO<sub>2</sub> sensor.



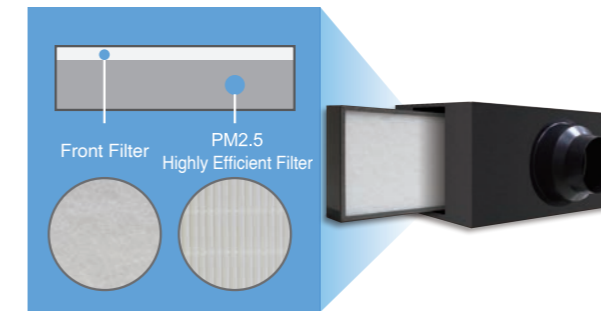
## Heat Reclaim Ventilator – PM2.5 filtration unit (Option)

Rapid urbanization has increased industrial and automobile emissions, resulting in higher PM2.5 levels. This has become the source of respiratory diseases and poses a serious threat to a long term health issue. As the air quality has worsened, research has shown the harmful effects of PM2.5 on the health of the general public.

### Double-layered efficient filtration

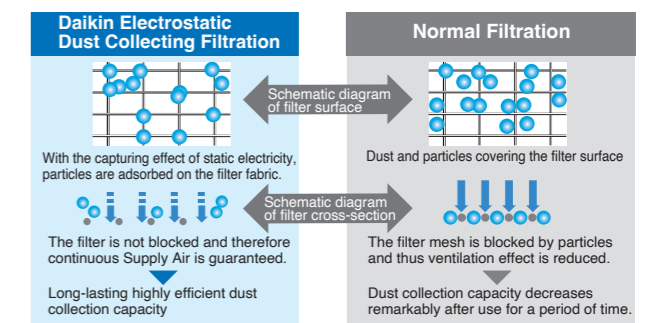
PM2.5 filters are double-layered.

1. The front filter effectively removes large particles.
2. The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently.



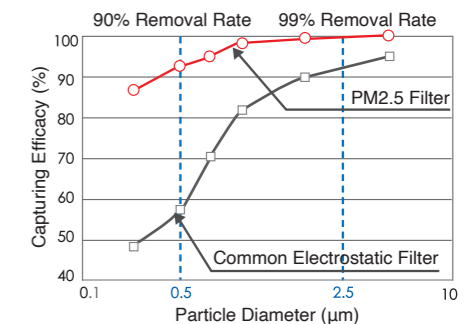
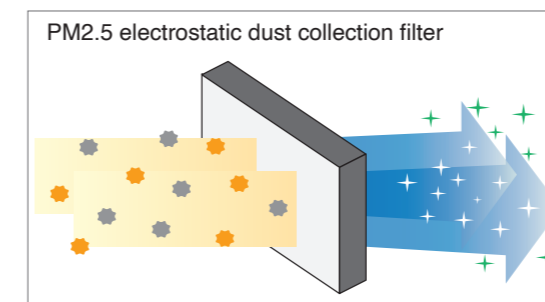
### Electrostatic dust collection filter: more efficient and longer lasting effect

The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently, including those smaller than the grid mesh. The filter is difficult to be blocked by particles and has good ventilation and long life span.



### Filtering PM2.5 efficiently for healthier and more comfortable environments

The PM2.5 filtering series heat reclaim ventilator is equipped with an electrostatic dust collection filter for PM2.5 removal. This filter not only removes 99% or more of 2.5 μm; it also eliminates up to 90% of 0.5 μm matter!

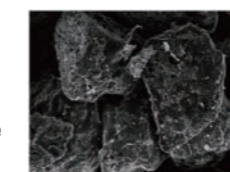


\*Test results by the Heating, Ventilation and Air Conditioning Lab at Tongji University  
Test environment: temperature 25-26°CDB, humidity 58-60%RH

### Extra-High Performance Filter Against Sulfur Oxides and Nitrogen Oxides

#### Effective Use of Active Carbon Material to Enlarge the Adsorption Area

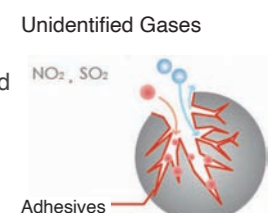
As an expert in the research and development of filters, DAIKIN has specifically selected active carbon material as the main substance to constitute the filter against sulfur oxides and nitrogen oxides. The material's usable pore surface is fully exploited, thus extending the filter's durability.



Note: Surface area of active carbon: 700 m<sup>2</sup>/g  
Given a newspaper page of 40.6 cm wide by 54.6 cm long, each gram of active carbon has a surface area of 3,000 newspaper pages.

#### Intelligent Identification, Super-effective Adhesion

The special substance added in the pores of active carbon can exclusively target sulfur oxide and nitrogen oxide gases and stick to them without blocking other unidentified gases. This ensures long durability of the filter.



Note: The figures are based on in-house tests under the following lab conditions: temperature 22 to 25°CDB, humidity 35 to 40% RH, air flow rate 0.2 m/s.



## Individual Control Systems for VRV Indoor Units

### Navigation Remote Controller (Wired remote controller) (Option)



New BRC1E63



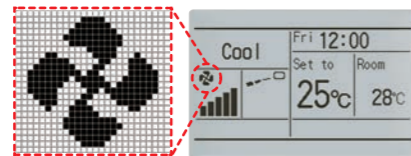
New BRC1F61 (Only for FXEQ series)

This simple, modern designed remote controller with fresh white colour matches your interior design. Operation is much easier and smoother, just follow the indications on the navigation remote controller.

### Clear display

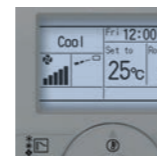
#### • Dot matrix display

• A combination of fine dots enables various icons. Large text display is easy to see.



#### • Backlight display

• Backlight display helps operating in dark rooms.



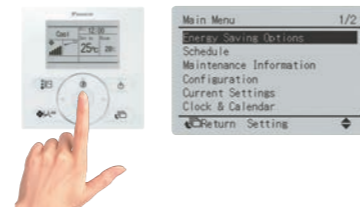
### Simple operation

#### • Large buttons and arrow keys

• Large buttons and arrow keys enable easy operation. Basic setting such as fan speed and temperature can be intuitively operated. For other settings, select the function from the menu list.

#### • Guide on display

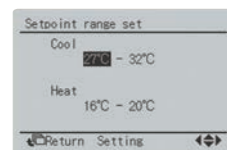
• The display gives an explanation of each setting for easy operation.



### Energy saving

#### • Setpoint range set

• Saves energy by limiting the min. and max. set temperature.  
• Avoids excessive cooling.  
• This function is convenient when the remote controller is installed at a place where any number of people may operate it.

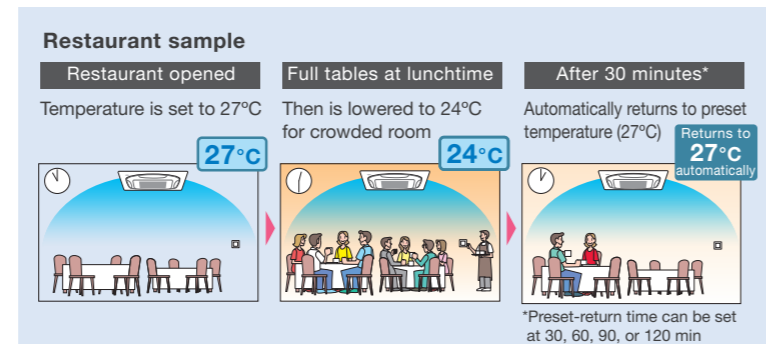
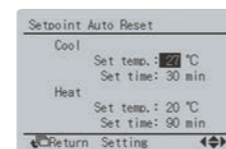


#### • Off timer

• Turns off the air conditioner after a preset period of time.  
• Period can be preset from 30 to 180 minutes in 10-minute increments.

#### • Setpoint auto reset

- Even if the set temperature is changed, the new set temperature returns to the previous preset value after a preset duration of time.  
- Period selectable from 30, 60, 90, or 120 min.



### Convenience

#### • Setback (default: OFF)

Maintains the room temperature in a specific range during unoccupied period by temporarily starting air conditioner that was turned OFF.

Ex) Setback temperature Cooling : 35°C Recovery differential Cooling : -2°C  
When the room temperature goes above 35°C, the air conditioner starts operating in Cooling automatically. When room temperature reaches 33°C, the air conditioner returns OFF.

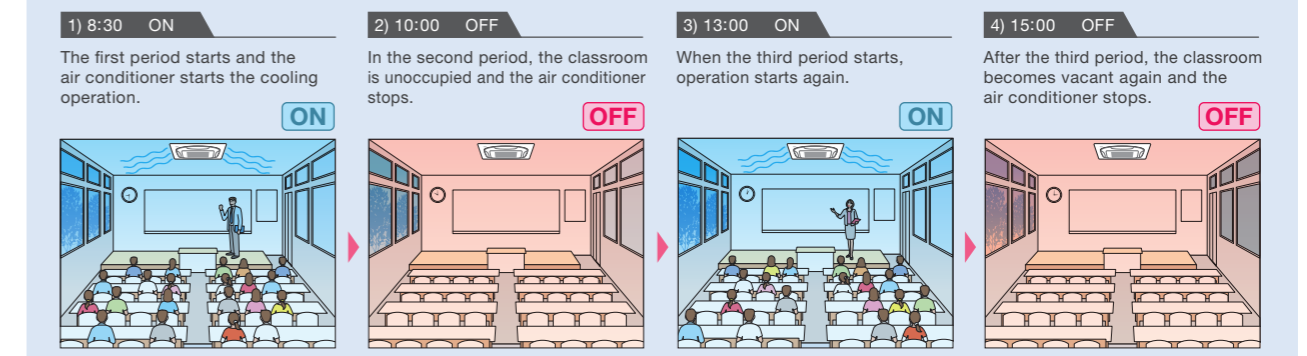
	Setback temperature	Recovery differential
Cooling	33 — 37°C	-2 — -8°C

#### • Weekly schedule

• 5 actions per day can be scheduled for each day of the week.  
• The holiday function will disable schedule timer for the days that have been set as holiday.  
• 3 independent schedules can be set. (e.g. summer, winter, mid-season)

Time	Act	Cool	Heat
8:30	ON	25°C	—
10:00	OFF	—	—
13:00	ON	25°C	—
15:00	OFF	—	—

#### College classroom sample (a summer Monday case)



#### New • Auto display off

- While operation is stopping, LCD display can be turned OFF. It will be displayed again if any button is pressed.  
- Period can be preset from 10, 30, 60 minutes, and OFF. Initial setting is 30 minutes.

### Comfort

#### • Individual airflow direction (\*1)

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution that conforms to conditions for airflow direction (small and large loads).

\*1. Only available for FXF(S)Q-A and FXUQ-A series.

#### New • 5-step airflow control (\*2)

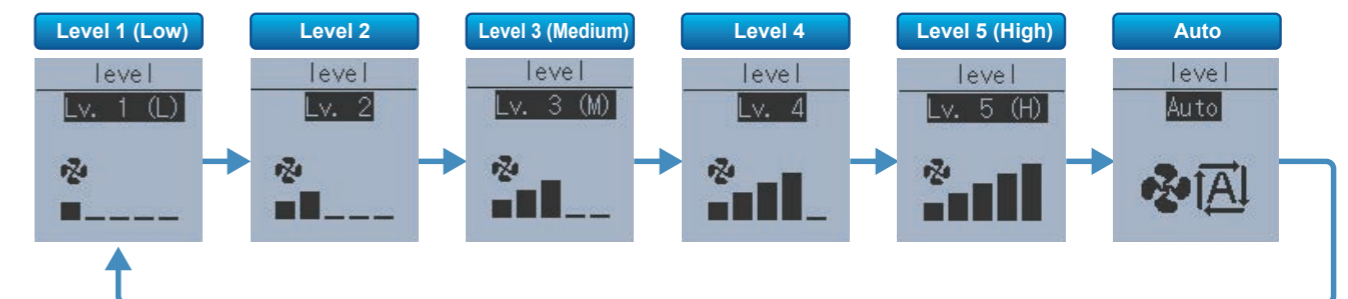
Control of airflow rate can be selected from 5-step control, which provides comfortable airflow.

\*2. The number of airflow steps differs according to the type of indoor unit. 5-step airflow is only available for FXF(S)Q-A and FXEQ-A series.

#### • Auto airflow rate (\*3)

Airflow rate is automatically controlled in accordance to the difference between room temperature and set temperature.

\*3. Only available for FXF(S)Q-A, FXEQ-A, FXDQ-PD/ND, FXSQ-PA, FXMQ-PA and FXUQ-A series.



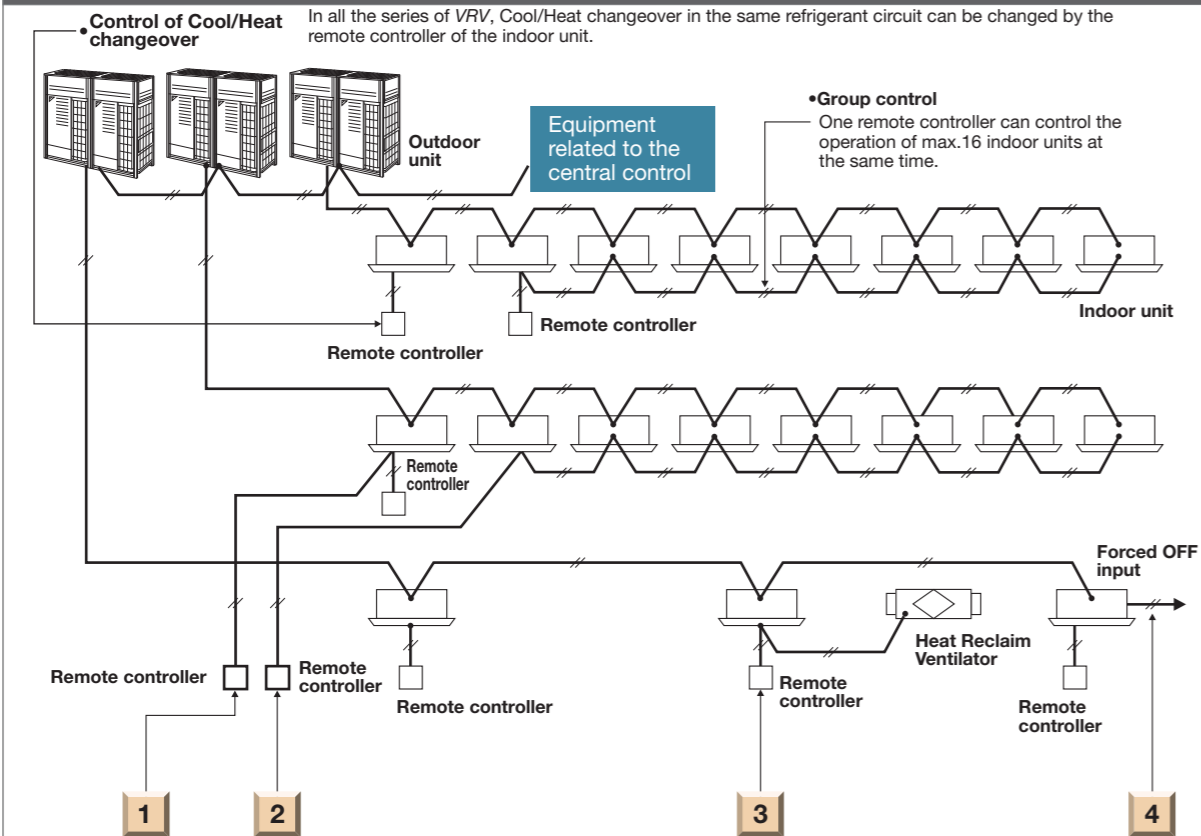
## Individual Control Systems for VRV Indoor Units



- Displays current airflow, swing, temperature, operating mode and timer settings.

\* Individual airflow direction, auto airflow rate and sensing sensor control can be set only via wired remote controller BRC1E63. Cannot be set via other remote controllers.

### The wired remote controller supports a wide range of control functions



#### 1 Control by two remote controller

The indoor unit can be connected by the two remote controller, for example one in the room and the other one in the control room, which can control the operation of indoor unit freely.(The last command has a priority.) Of course, the group control by two remote controller is also possible.

#### 2 Remote control

The wiring of remote controller can be extended to max. 500 m and it is possible to install the remote controllers for different indoor units in one place.

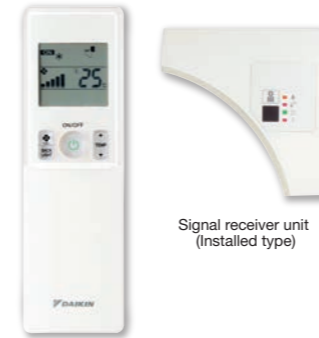
#### 3 Control for the combined operation

The operation of Heat Reclaim Ventilator can be controlled by the remote controller of the indoor unit. Of course, the remote controller can display the time to clean the filter.

#### 4 Expansion of system control

The system can be expanded to add several controllers, such as BMS, Forced OFF input and etc.

### Wireless remote controller (Option)



**New** BRC7M635F (For FXF(S)Q series)

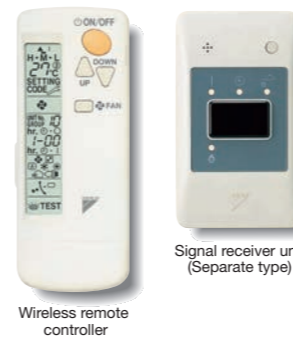
- The wireless remote controller is supplied in a set with a signal receiver.
- Signal receiver unit of installed type is contained inside decoration panel or indoor unit.
- Shape of signal receiver unit differs according to the indoor unit.

Note: The signal receiver unit shown in the photograph is for mounting inside the decoration panel of FXF(S)Q series.

- New** •Backlight LCD of new wireless remote controller



Pressing the backlight button helps operating in dark rooms.



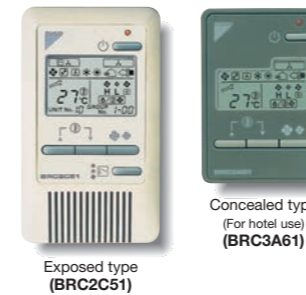
Wireless remote controller

Signal receiver unit (Separate type)

- A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.

\* Wireless remote controller and signal receiver unit are sold as a set.  
\* Refer to page 93 for the name of each model.

### Simplified remote controller (Option)



Exposed type (BRC2C51)

Concealed type (For hotel use) (BRC3A61)

- The remote controller has centralised its frequently used operation selectors and switches (on/off, operation mode, temperature setting and airflow volume), making itself suitable for use in hotel rooms or conference rooms.

- The exposed type remote controller is fitted with a thermostat sensor.



The concealed type remote controller smartly fits into a night table or console panel in a hotel room.

### Wide variation of remote controllers for VRV indoor units

	FXF(S)Q	FXZQ	FXCQ	FXEQ	FXDQ	FXSQ	FXMQ	FXUQ	FXHQ	FXAQ	FXL(N)Q	FXVQ	FXB(P)Q
<b>Navigation remote controller</b> (Wired remote controller) (BRC1E63)	●	●	●		●	●	●	●	●	●	●	●	●
<b>Navigation remote controller</b> (Wired remote controller) (BRC1F61)				●									
<b>Wired remote controller</b> (BRC1C62)		●	●		●	●	●	●	●	●	●	●	●
<b>Wireless remote controller*</b> (Installed type signal receiver unit)	●	●	●	●				●	●	●			
<b>Wireless remote controller*</b> (Separate type signal receiver unit)					●	●	●				●		●
<b>Simplified remote controller</b> (Exposed type) (BRC2C51)					●	●	●				●		●
<b>Simplified remote controller</b> (Concealed type: for Hotel use) (BRC3A61)					●	●	●				●		●

\*Refer to page 93 for the name of each model.

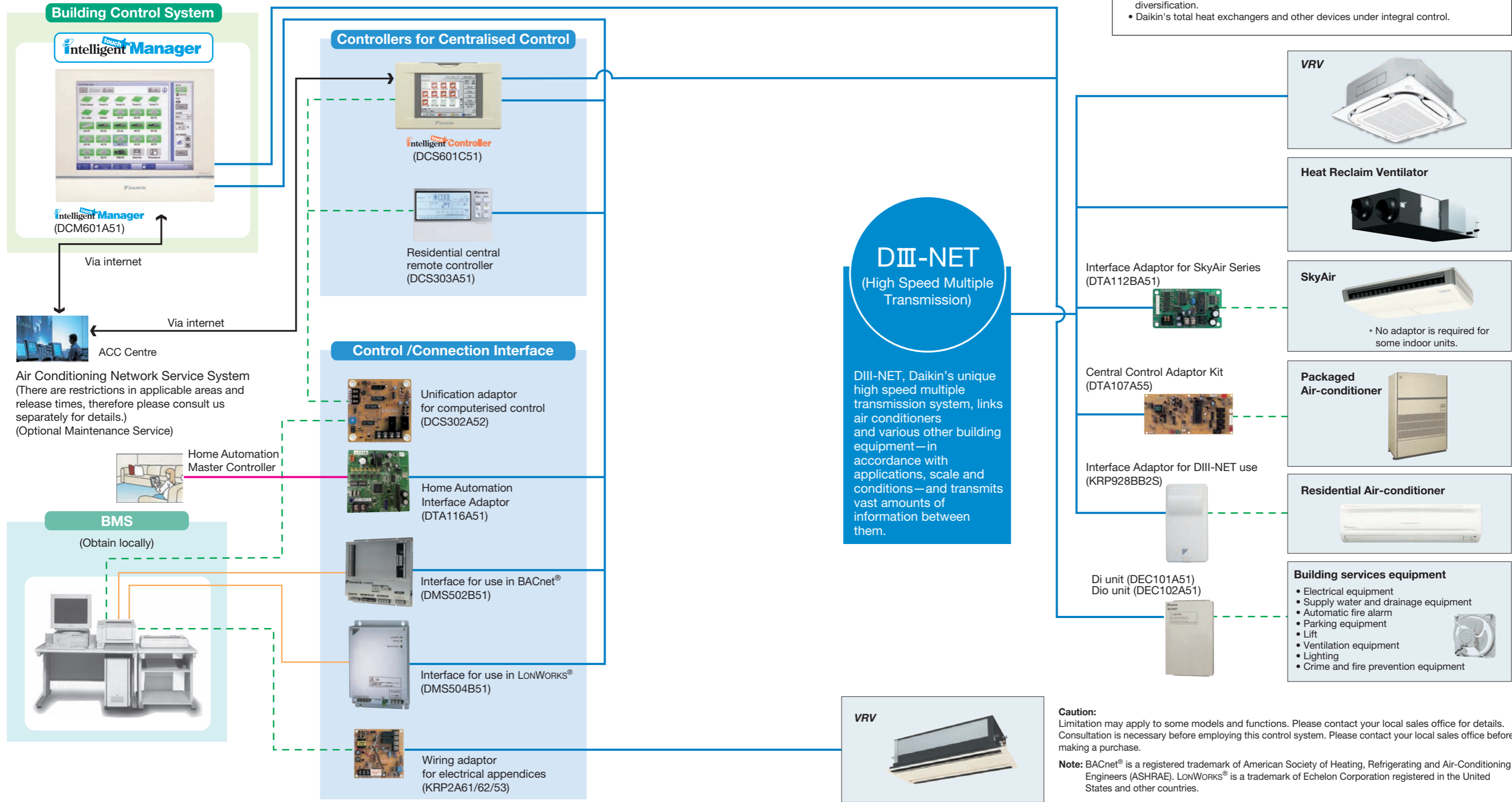
## Integrated Building Monitoring System

The high speed transmission of DIII-NET enables more advanced control of the **VRV** system, providing you with enhanced comfort.

- DIII-NET Line
- BACnet®/Ethernet or LONWORKS® Network Communication Line
- - - Contact Signal Line
- RS485 Modbus Line

The DIII-NET system provides for:

- Close control and monitoring by integrating a wide variety of air-conditioners in the entire building.
- Saves the in-building cabling using non-polar, two-wire cables. Easier wiring work with tremendously fewer wiring errors.
- Additional setups readily up and running. An extendable cabling up to 2 km in total.
- Different control equipment flexibly joined in the system for hierarchical risk diversification.
- Daikin's total heat exchangers and other devices under integral control.



**Air Conditioning Network Service System**  
(There are restrictions in applicable areas and release times, therefore please consult us separately for details.)  
(Optional Maintenance Service)

**BMS**  
(Obtain locally)



**Caution:**  
Limitation may apply to some models and functions. Please contact your local sales office for details. Consultation is necessary before employing this control system. Please contact your local sales office before making a purchase.

**Note:** BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). LONWORKS® is a trademark of Echelon Corporation registered in the United States and other countries.



## Advanced Control Systems for VRV Indoor Units



One touch selection enables flexible control of equipment in a building.



DCM601A51

Various types of equipment in a building can be controlled by a single controller.

### Individual air-conditioning control

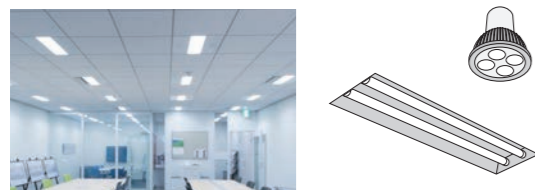
The flexible control achieved by the VRV system precisely meets different air conditioning needs in each room (e.g. offices, conference rooms, hotel rooms).



### Lighting control

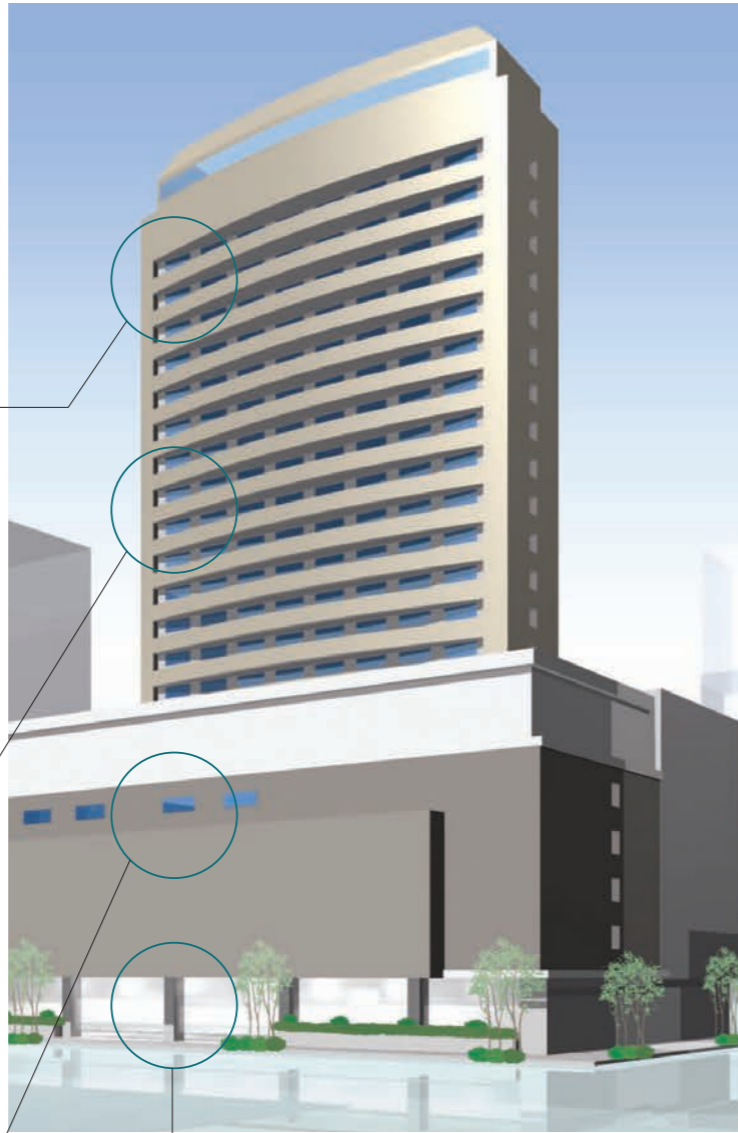
**DALI-compatible**

DALI-compatible LED lighting systems can be controlled and monitored. Lighting control is enhanced through an interlock function with air conditioners and other functions.



### Air-conditioning control for large spaces

Air handling units can also be controlled. Large spaces, such as entrance halls and shopping malls, can be easily controlled to ensure comfort.



### Building equipment control

Various types of equipment other than air conditioners, including ventilators, fans, and pumps, can also be controlled.



Pump



Fan

## For Energy Saving & Comfort

*intelligent Touch Manager* maximises the advantages of VRV features

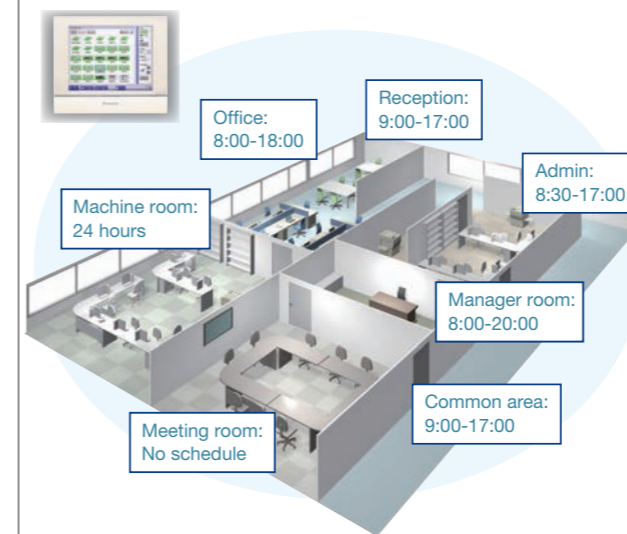
*intelligent Touch Manager* is an advanced multi-zone controller that provides the most cost-effective way to control and monitor the Daikin VRV system.

The 10.4" LCD touch screen is easy to use with three different screen views to include the floor plan layout view, icon view and list view and menus for system configurations.

It is also easy to use with standardized remote Web Access from your PC.

It can manage a total of 650 management points consisting of up to 512 Daikin indoor unit groups (up to 1024 indoor units) along with building equipment control / monitoring with Digital Inputs / Output (Di/Dio), Analog Inputs / Output (Ai/Ao) and Pulse input (Pi) optional devices.

### Schedule the operation time for each application.

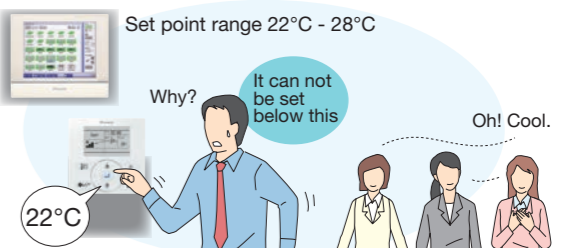


### Define the setpoint range that users can change.

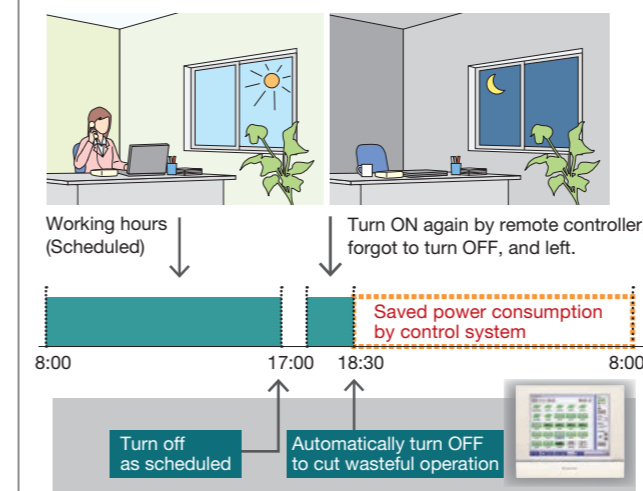
#### With Remote controller



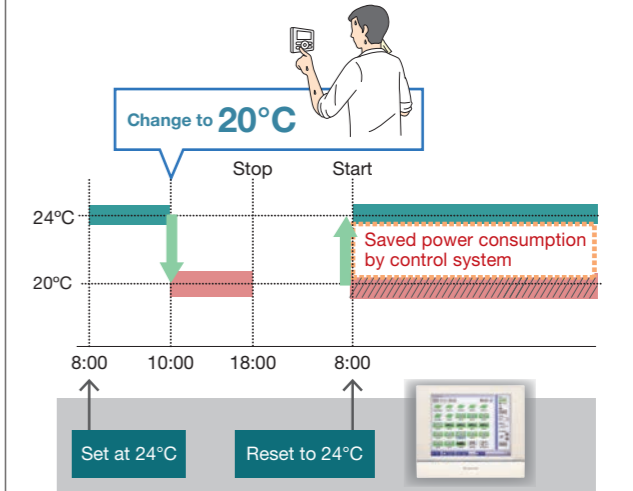
#### With Control System



### Turn the unit OFF if a user didn't.



### Reset setpoint regularly.



## Advanced Control Systems for VRV Indoor Units

In addition to switching lights on and off, advanced lighting control, such as illuminance adjustment, can be achieved

### Lighting control (Option)

#### Connection to DALI - compatible lighting control system

Simple wiring (daisy chain) enables management of LED lighting by the *intelligent Touch Manager*.

Various air conditioning and lighting control is enabled through the interlock with occupancy sensors and illuminance sensors.

### DALI-compatible

Please contact your local sales office for details.

#### Lighting control achieved by the *intelligent Touch Manager*

##### [Operation]

- Switch-on/switch-off operation
- Illuminance (1-100%) control
- Various illuminance patterns can be registered
- Registered pattern can be selected from *intelligent Touch Manager*

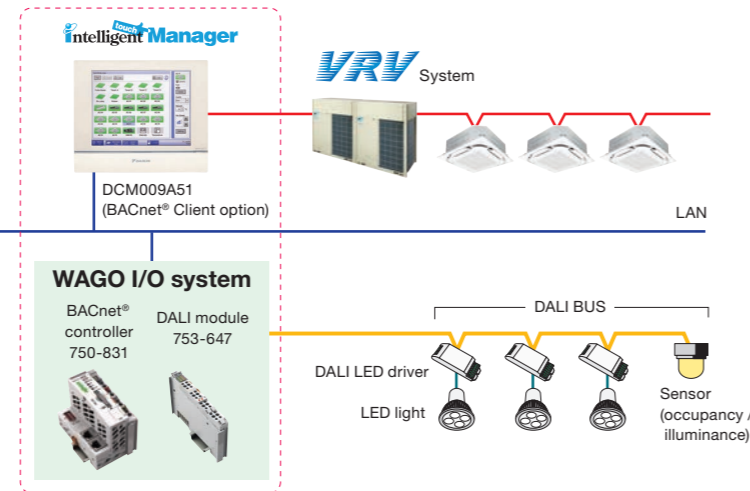
##### [Monitoring]

- Switch-on/switch-off status monitoring
- Lighting abnormality monitoring
- Illuminance monitoring
- DALI occupancy sensor monitoring
- DALI illuminance sensor monitoring

##### [Overview of control]

- Up to 5 DALI modules can be connected to a single BACnet® controller.
- Up to 64 DALI LED drivers (64 addresses) can be connected to a single DALI module.
- 64 DALI addresses can be freely assigned to up to 16 groups using a single DALI module. (Each group corresponds to a management point of the *intelligent Touch Manager*.)
- Up to 16 scenes can be set to a single DALI module.
- Up to 12 sensors (occupancy, illuminance) can be connected to a single DALI module.
- DALI BAS simplifies wiring and setting work by daisy chain wiring and automatic address setting.

Air conditioning and lighting for which power consumption is high can be efficiently controlled to promote energy conservation and cost reduction!

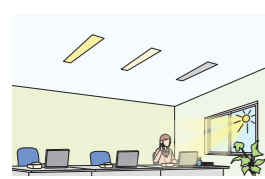


## Easy maintenance and energy saving by lighting control

### Case1

Switch-on / switch-off and illuminance are controlled based on a schedule to cut wasteful power consumption.

- Failing to switch off lights is prevented.

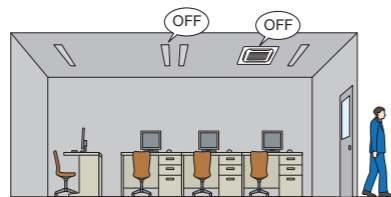


- Optimal illuminance reduces energy.

### Case2

Occupancy sensors are used to eliminate both wasteful lighting and air conditioning.

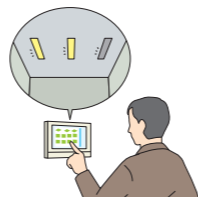
When a room is unoccupied, the air conditioning stops and the lighting is switched off.



### Case3

Lighting abnormalities (e.g. burned-out bulbs) can be checked on the *intelligent Touch Manager* screen.

Lighting maintenance becomes easier and quicker.



The layout screen enables quick identification of specific locations.

## Tenant Management ( PPD\* Option )

### Reporting the power consumption of VRV system for each tenant

#### With the PPD function, power consumption can be calculated for each indoor unit (Option)

The energy consumption is proportionally calculated for each indoor unit. The data can be used for energy management and calculation of air conditioning usage fees for respective tenants.

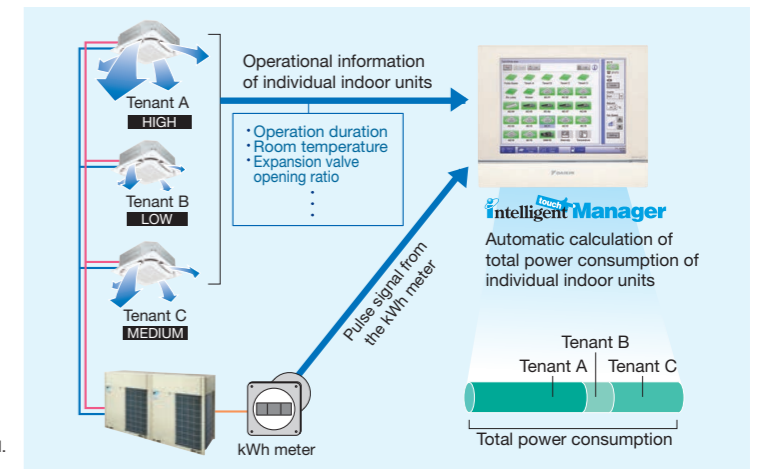
Operational information of individual indoor units are monitored, based on distribution of power consumption of outdoor units.

Daikin's PPD keeps track of power distribution for each indoor unit. It performs air conditioning billing calculations quickly and automatically.

#### It is easy to output PPD data.

PPD data is output in CSV format to a PC or USB memory device and can be freely processed and managed.

\*PPD (Power Proportional Distribution) is Daikin's proprietary calculation method.



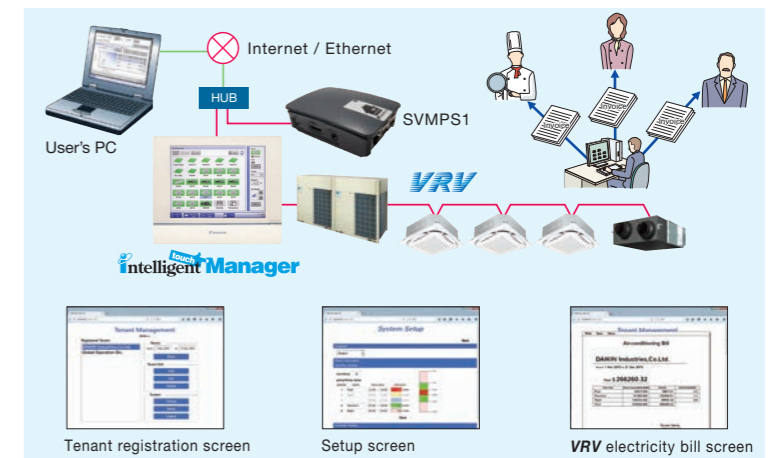
## Air conditioning bills can be issued by one click

### Electricity bills can be easily calculated for each tenant (Option)

The power consumption of VRV controlled by the *intelligent Touch Manager* can be easily managed for each tenant using a PC. The electricity bill settings facilitate billing work through easy calculation and issuance of VRV electricity bills.

#### [ Main functions ]

- Register tenants
- Set the electricity unit price for 5 time zones
- Calculate power consumption and electricity charge for each tenant
- Show aggregation results in the specified period for each tenant
- Output the results (Printout and CSV file)



## Effective service functions offered to tenants

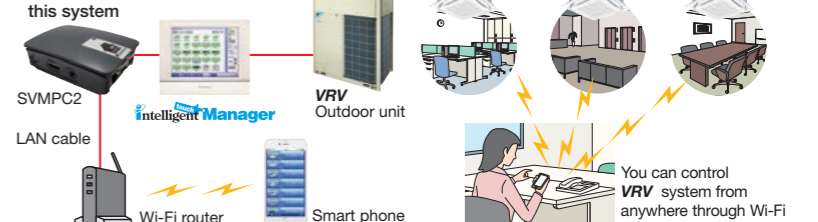
### Smart phone will be a remote controller of VRV system (Option)

Users can operate and check the status of VRV system from their smart phones via Wi-Fi. It is not necessary to move where a remote controller is located with this feature. VRV system in other rooms can be operated, and their status can be checked. It is also possible to check if air conditioners in other rooms remain switched on etc., helping achieve energy saving.

#### For buildings VRV Smart Phone Remote Controller

Up to 1024 indoor units can be controlled.

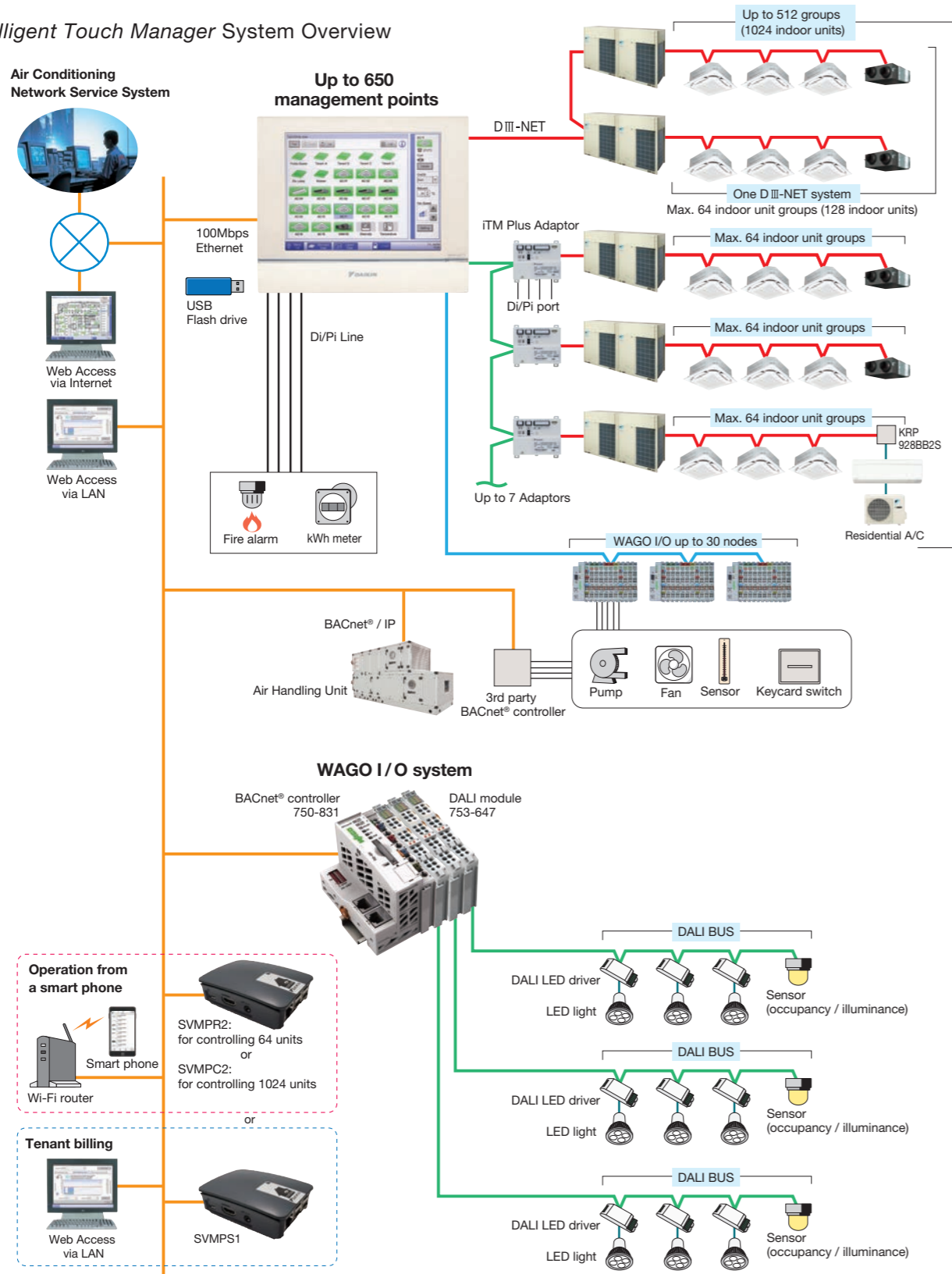
Just add SVMPC2 to this system



## Advanced Control Systems for VRF Indoor Units

### System structure

#### intelligent Touch Manager System Overview



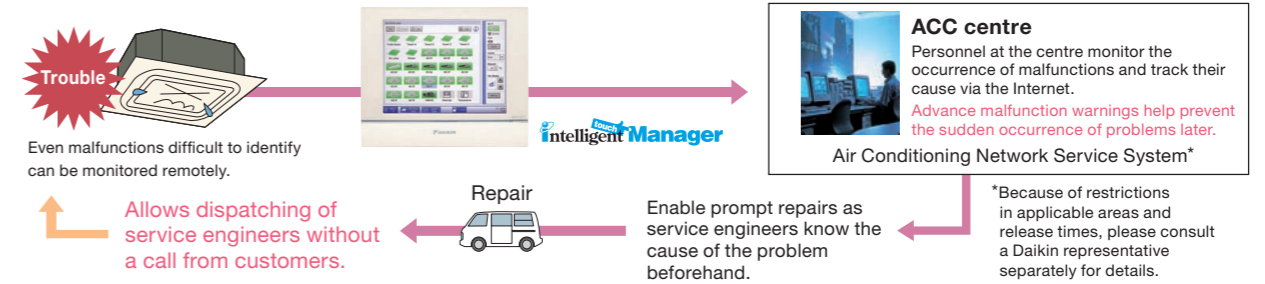
### Air Conditioning Network Service System

#### Preventive Maintenance

The *intelligent Touch Manager* can be connected to Daikin's own Air Conditioning Network Service System for remote monitoring and verification of operation status for **VRF** system. By its ability to predict malfunctions, this service provides customers with additional peace of mind.

#### Enhanced convenience with link to the Air Conditioning Network Service System

The *intelligent Touch Manager* connects seamlessly to Daikin's 24-hour Air Conditioning Network Service System.



### Daikin Offers a Variety of Control Systems

#### Convenient controllers that offer more freedom to administrators



#### intelligent Controller

Ease of use and expanded control functions

The user-friendly controller features colours, multilingual function, and icons in the display for ease of understanding. A wide variety of control methods can be accommodated, permitting administrators to monitor and operate the system even when they are away from the controller.

DCS601C51

#### Connect VRF system to your BMS via BACnet® or LONWORKS®

Compatible with BACnet® and LONWORKS®, the two leading open network communication protocols, Daikin offers interfaces that provide a seamless connection between **VRF** system and your BMS.



DMS502B51 (Interface for use in BACnet®)

BACnet®  
Seamless connection between **VRF** system and BACnet® open network protocol.



DMS504B51 (Interface for use in LONWORKS®)

LONWORKS®  
Facilitating the network integration of **VRF** system and LONWORKS®

Dedicated interfaces make Daikin air conditioners freely compatible with open networks

Notes: 1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).  
2. LONWORKS® is a trademark of Echelon Corporation registered in the United States and other countries.

### Smart phone will be a remote controller of VRF system (Option)

#### For house VRF Smart Phone Control System

Up to 64 indoor units can be controlled.

Just add SVMPPR2 to this system

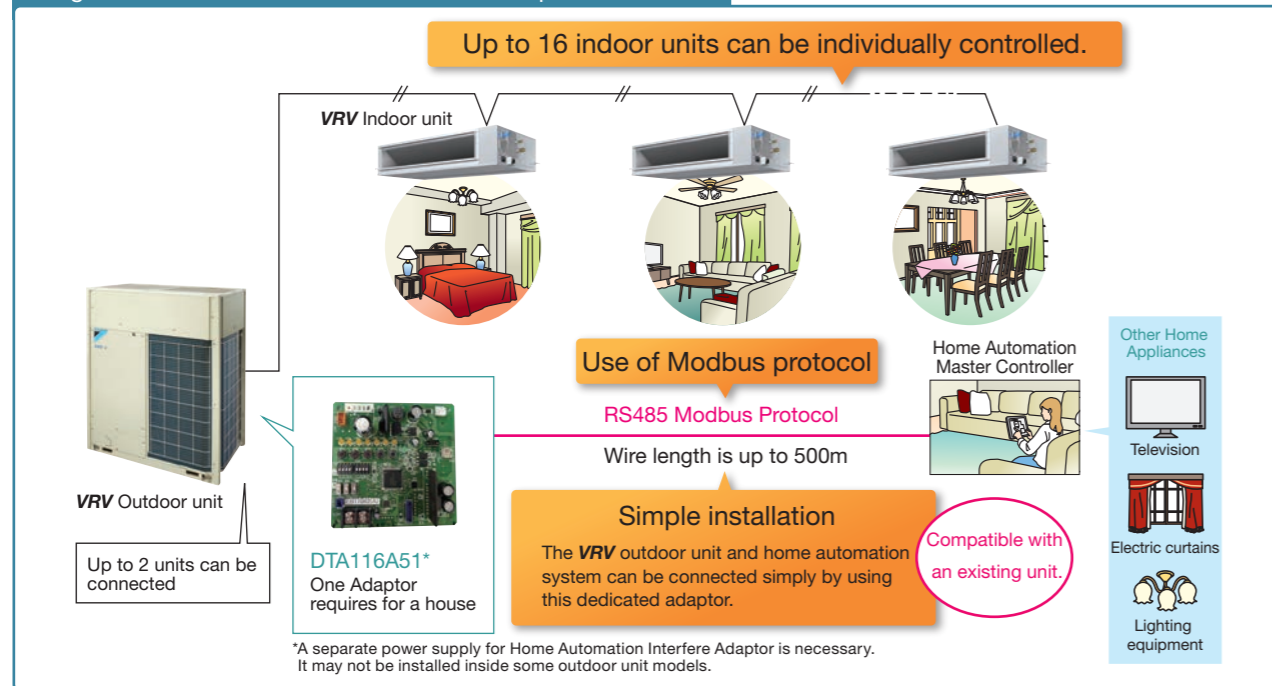


## Advanced Control Systems for VRV Indoor Units

### Home Automation Interface Adaptor

The VRV system can be operated from the home automation system.

Image to use Home Automation Interface Adaptor DTA116A51



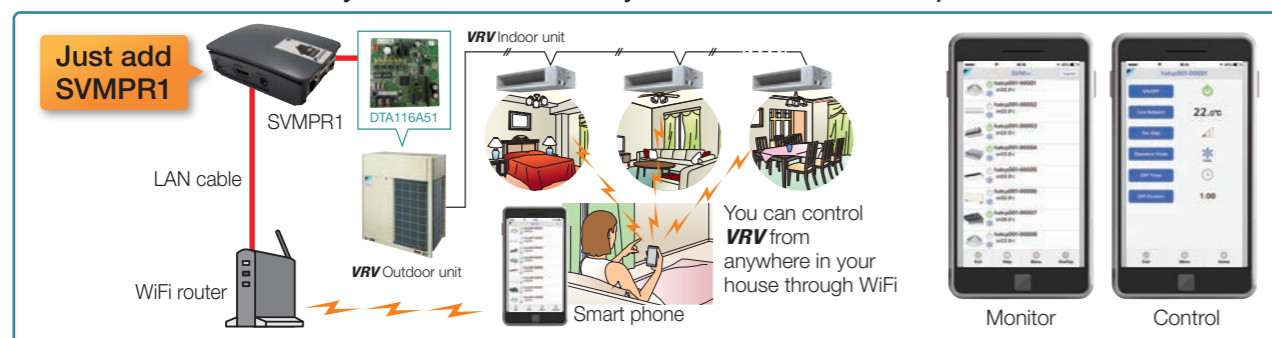
### Functions

● Monitor	
On/Off	On/Off status of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Setpoint of indoor units
Room temperature	Suction temperature of indoor units
Fan direction	Swing, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Forced off status	Forced off status of indoor units
Error	Malfunction, Warning with Error code
Filter sign	Filter sign of indoor units
Communication status	Communication normal/error of indoor units

● Control	
On/Off	On/Off control of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Cooling/Heating setpoint
Fan direction	Swing, Stop, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Filter sign reset	Reset filter sign of indoor units
● Retrieve system information	
Connected indoor units	DIII-NET address of connected indoor units can be retrieved.
Indoor unit capabilities	Indoor unit capabilities such as operation mode, fan control, setpoint HV can be retrieved.

### VRV Smart Phone Control System

VRV Smart Phone Control System can be realized by SVMPR1 which is a new product to utilize DTA116A51.



★Modbus is a registered trademark of Schneider Electric S.A.

### VRV Tablet Controller : SVMPC1

The SVMPC1 is easy to install, and enables monitoring and operation of VRV systems via tablets and smartphones. It is optimal for centralized management of VRV systems in small buildings or on individual floors of a building.

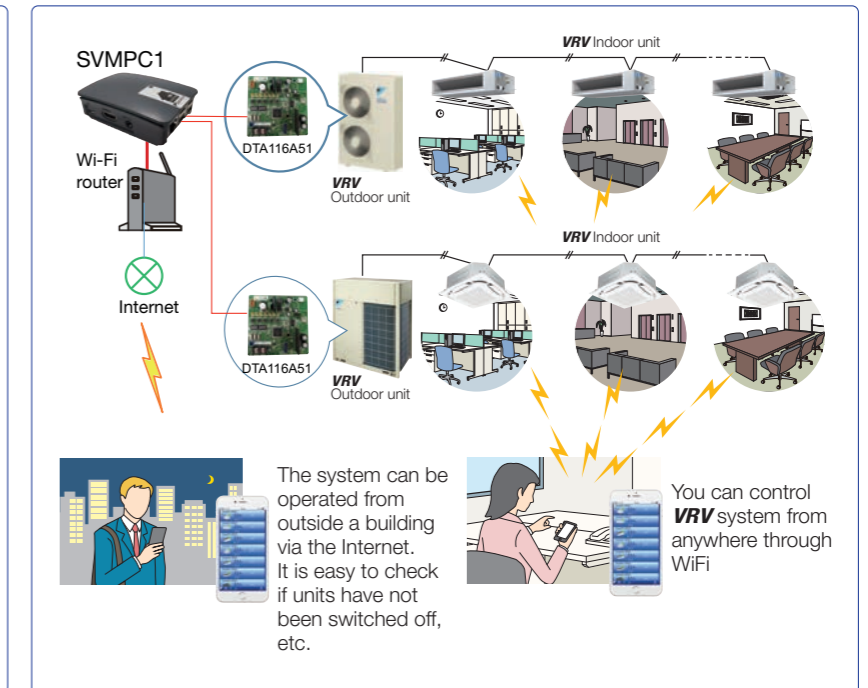
### Simple and easy Smart Control

- SVMPC1 is easy to install. Just add DTA116A51 to outdoor unit and connect it to controller.
- Thanks to user-friendly screen, anyone can operate easily.



- SVMPC1 allows operation of VRV system from anywhere (inside and outside of a premise) through the internet.
- Set point range limitation and setback function achieve energy saving and comfortable air-conditioning.
- Daily air-conditioning operation is automatically done by schedule function with annual calendar.
- Quick notification of malfunction by e-mail to support quick maintenance.

### Up to 32 indoor units can be monitored and controlled.



### Functions

Category	Function	Detail
Access security	User login	User name, password
	Device registration	Registered device (Tablet, Smartphone) can access through the internet
Main screen	Status monitoring	On/Off, Setpoint, Operation mode, Fan step, Flap, Error, Error code, Room Temperature
	Manual operation	On/Off, Setpoint, Operation mode, Fan step, Flap
	Automatic control	Setpoint range limitation* Off timer* Setback operation* Schedule*
System setting	Language	English, Spanish, Portuguese, Thai, Vietnam, Simplified Chinese, Traditional Chinese
	Password setting	
	User administration*	Add/Modify/Delete user, Set User name, Password, Accessible points
	Point setting*	Set point name, Select icon

\*: only admin user can set

### Specifications

Category	Specification	Detail
Connectable units	Number of indoor units	Max 32 (with additional DTA116A51)
	Number of DTA116A51	Max 2
Connectable device	Number of Tablet/Smartphone	Max 20
	Device type	iPad, iPhone, Android tablet, Android Phone, Windows Tablet, Windows Phone, Windows PC, Mac
	Web browser	Firefox, Chrome, Safari

## Outdoor Units

VRV A SERIES

No.	Item		Type	RXQ6AYM RXQ8AYM RXQ10AYM	RXQ12AYM RXQ14AYM RXQ16AYM	RXQ18AYM RXQ20AYM	RXQ18AYM RXQ20AYM RXQ22AYM
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T			
2	Outdoor unit multi connection piping kit			-			BHFP22P100

No.	Item		Type	RXQ24AYM RXQ26AYM RXQ28AYM RXQ30AYM RXQ32AYM	RXQ34AYM RXQ36AYM RXQ38AYM RXQ40AYM	RXQ42AYM RXQ44AYM RXQ46AYM RXQ48AYM RXQ50AYM	RXQ52AYM RXQ54AYM RXQ56AYM RXQ58AYM RXQ60AYM
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)				
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T				
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP				
3	Outdoor unit multi connection piping kit		BHFP22P100				BHFP22P151

REFNET joint (KHRP26A22/33/72/73T)



### Option PCB

No.	Item		Type	RXQ6AYM RXQ8AYM RXQ10AYM RXQ12AYM	RXQ14AYM RXQ16AYM RXQ18AYM RXQ20AYM	RXQ18AYM RXQ20AYM RXQ22AYM RXQ24AYM	RXQ26AYM RXQ28AYM RXQ30AYM
1	DIII-NET expander adaptor ★			DTA109A51			
2	External control adaptor ★			DTA109A61			
3	Home Automation Interface Adaptor ★			DTA116A51			
4	Option plate for control adaptor			-	BKS26A *1	-	

No.	Item		Type	RXQ32AYM RXQ34AYM RXQ36AYM RXQ38AYM RXQ40AYM	RXQ42AYM RXQ44AYM	RXQ46AYM RXQ48AYM RXQ50AYM RXQ52AYM	RXQ54AYM RXQ56AYM RXQ58AYM RXQ60AYM
1	DIII-NET expander adaptor ★			DTA109A51			
2	External control adaptor ★			DTA109A61			
3	Home Automation Interface Adaptor ★			DTA116A51			
4	Option plate for control adaptor			BKS26A *1	-	BKS26A *1	

Note: 1. This plate is necessary for each adaptor marked ★.

## VRV Indoor Units

### Ceiling Mounted Cassette (Round Flow with Sensing) Type

No.	Item		Type	FXFSQ25A FXFSQ32A FXFSQ40A	FXFSQ50A FXFSQ63A FXFSQ80A	FXFSQ100A FXFSQ125A FXFSQ140A
1	Decoration panel	Standard panel with sensing	Fresh white	BYCQ125EEF		
			Black	BYCQ125EEK		
		Standard panel	Fresh white	BYCQ125EAF *		
			Black	BYCQ125EAK *		
Designer panel <sup>1</sup>	Fresh white	BYCQ125EAPF *				
	Auto grille panel <sup>2,3</sup>	Fresh white	BYCQ125EASF *			
2	Sealing material of air discharge outlet <sup>4</sup>		For usage of 3-, 4-way flow	KDBH551C160		
			For usage of 2-way flow	KDBH552C160		
3	Panel spacer			KDBP55H160FA		
4	Fresh air intake kit		Chamber type <sup>5,6</sup>	Without T-duct joint	KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) <sup>8</sup>	
				With T-duct joint	KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) <sup>8</sup>	
			Direct installation type <sup>7</sup>		KDDP55X160A	
5	High-efficiency filter unit <sup>9</sup> (Including filter chamber)		(Colorimetric method 65%)	KAFP556C80	KAFP556C160	
			(Colorimetric method 90%)	KAFP557C80	KAFP557C160	
6	Replacement high-efficiency filter <sup>9,10</sup>		(Colorimetric method 65%)	KAFP552B80	KAFP552B160	
			(Colorimetric method 90%)	KAFP553B80	KAFP553B160	
7	Filter chamber			KDDFP55C160		
8	Replacement long-life filter			KAFP551K160		
9	Replacement long-life filter (Auto grille panel)			KAFP551H160		
10	Ultra long-life filter unit (Including filter chamber) <sup>9</sup>			KAFP55C160		
11	Replacement ultra long-life filter <sup>9,10</sup>			KAFP55H160H		
12	Branch duct chamber <sup>4</sup>			KDJP55C80	KDJP55C160	
13	Insulation kit for high humidity <sup>9,11</sup>			KDTP55K80	KDTP55K160	

### Ceiling Mounted Cassette (Round Flow) Type

No.	Item		Type	FXFQ25A FXFQ32A FXFQ40A	FXFQ50A FXFQ63A FXFQ80A	FXFQ100A FXFQ125A FXFQ140A
1	Decoration panel	Standard panel	Fresh white	BYCQ125EAF *		
			Black	BYCQ125EAK *		
		Designer panel <sup>1</sup>	Fresh white	BYCQ125EAPF *		
			Auto grille panel <sup>2,3</sup>	Fresh white	BYCQ125EASF *	
2	Sealing material of air discharge outlet <sup>4</sup>		For usage of 3-, 4-way flow	KDBH551C160		
			For usage of 2-way flow	KDBH552C160		
3	Panel spacer			KDBP55H160FA		
4	Fresh air intake kit		Chamber type <sup>5,6</sup>	Without T-duct joint	KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) <sup>8</sup>	
				With T-duct joint	KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) <sup>8</sup>	
			Direct installation type <sup>7</sup>		KDDP55X160A	
5	High-efficiency filter unit <sup>9</sup> (Including filter chamber)		(Colorimetric method 65%)	KAFP556C80	KAFP556C160	
			(Colorimetric method 90%)	KAFP557C80	KAFP557C160	
6	Replacement high-efficiency filter <sup>9,10</sup>		(Colorimetric method 65%)	KAFP552B80	KAFP552B160	
			(Colorimetric method 90%)	KAFP553B80	KAFP553B160	
7	Filter chamber			KDDFP55C160		
8	Replacement long-life filter			KAFP551K160		
9	Replacement long-life filter (Auto grille panel)			KAFP551H160		
10	Ultra long-life filter unit (Including filter chamber) <sup>9</sup>			KAFP55C160		
11	Replacement ultra long-life filter <sup>9,10</sup>			KAFP55H160H		
12	Branch duct chamber <sup>4</sup>			KDJP55C80	KDJP55C160	
13	Insulation kit for high humidity <sup>9,11</sup>			KDTP55K80	KDTP55K160	

Note: 1. When installing designer panel, body height (ceiling required dimension) is 42 mm higher than standard panel. Designer panel cannot operate 2 and 3 way flow.  
 2. A dedicated wireless remote controller (BRC16A2) for the auto grille panel is included for lowering and raising the suction grille.  
 3. When installing auto grille panel, body height (ceiling required dimension) is 55 mm higher than standard panel.  
 4. Circulation airflow is not available with this option.  
 5. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.  
 6. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.

7. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.  
 8. Please order using the names of both components instead of set name.  
 9. This option cannot be installed to designer panel and auto grille panel.  
 10. Filter chamber is required.  
 11. Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.  
 \*These panels do not contain the sensing function.

# Option List

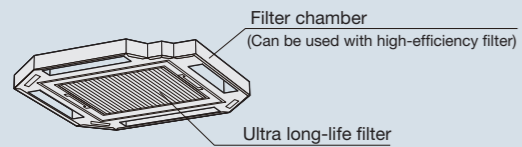
## VRV Indoor Units

### Options of Ceiling Mounted Cassette (Round Flow with Sensing & Round Flow) Type

Options required for specific operating environments

#### Ultra long-life filter unit

Even in dusty environments where the air conditioning is constantly operating, the ultra long-life filter only has to be cleaned once a year.



**Dusty area: annual filter change**

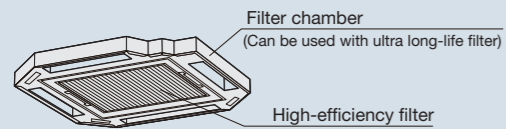
\*For dust concentration of 0.3 mg/m<sup>3</sup> (Requires separately sold Air purifier.)  
1 year (Approx. 5,000 hr) ≈ 15 hr/day x 28 day/month x 12 month/year

**Ordinary store or office: filter change every 4 years**

\*For dust concentration of 0.15 mg/m<sup>3</sup>  
4 years (Approx. 10,000 hr) ≈ 8 hr/day x 25 day/month x 12 month/year

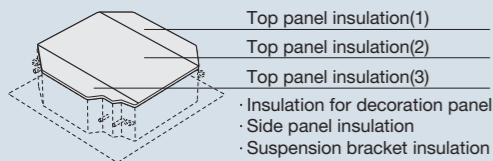
#### High-efficiency filter unit

Available in two types: 65% and 90% colorimetry.



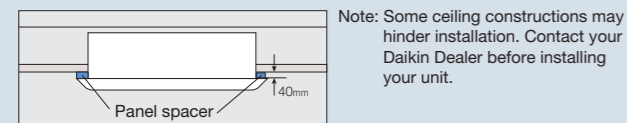
#### Insulation kit for high humidity

Please use if you think the temperature and humidity inside the ceiling exceeds 30°C and RH 80%, respectively.



#### Panel spacer

Use when only minimal space is available between drop ceilings and ceiling slabs.



Note: Some ceiling constructions may hinder installation. Contact your Daikin Dealer before installing your unit.

#### Sealing material of air discharge outlet

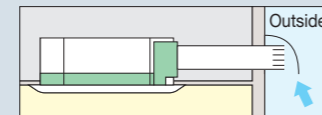
Sealing material block air discharge openings not used in 2-way or 3-way blow.

#### Branch duct (direct-connection round duct)

A round duct can be attached without the need for a chamber.  
A flanged port for direct connection of a round duct is provided. An existing branch duct chamber can also be fitted (square slit hole).

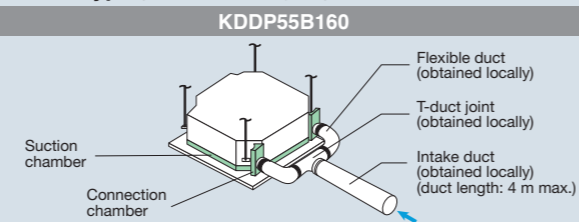
#### Fresh air intake kit Note 1.2

Using this kit, a duct can be connected to take in outdoor air. There are two chamber types that have intake in two places: with T-duct joint and without T-duct joint.

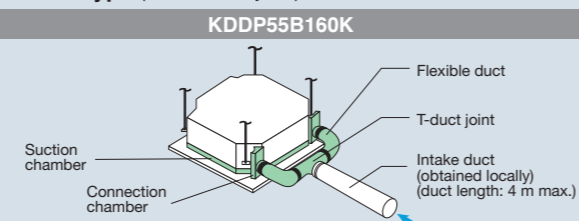


#### The units can be installed in the following different ways

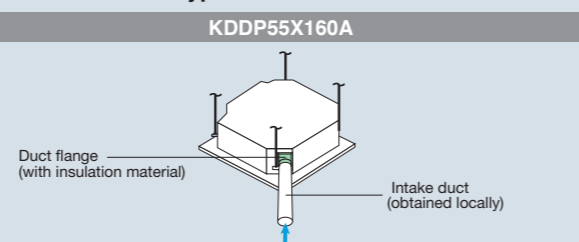
**Chamber type (without T-duct joint) Note 3.4.5**



**Chamber type (with T-duct joint) Note 3.4.5**



**Direct installation type Note 6**



- Note: 1. Use of options will increase operating sound.  
2. Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be obtained locally.  
3. When a local-obtained fan is used, an interlock with air conditioner is necessary. Optional PCB (KRP1C11A) is required for interlocking.  
4. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.  
5. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.  
6. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow.  
The chamber type is recommended when more fresh air is necessary.

### Ceiling Mounted Cassette (Compact Multi Flow) Type

No.	Item	Type	FXZQ20M	FXZQ25M	FXZQ32M	FXZQ40M	FXZQ50M
1	Decoration panel				BYFQ60B3W1		
2	Sealing material of air discharge outlet				KDBH44BA60		
3	Panel spacer				KDBQ44BA60A		
4	Replacement long-life filter				KAFQ441BA60		
5	Fresh air intake kit	Direct installation type				KDDQ44XA60	

### Ceiling Mounted Cassette (Double Flow) Type

No.	Item	Type	FXCQ20M FXCQ25M FXCQ32M	FXCQ40M	FXCQ50M	FXCQ63M	FXCQ80M	FXCQ125M
1	Decoration panel		BYBC32G-W1	BYBC50G-W1	BYBC63G-W1	BYBC125G-W1		
2	Filter related	High efficiency filter 65% *1	KAFJ532G36	KAFJ532G56	KAFJ532G80	KAFJ532G160		
		High efficiency filter 90% *1	KAFJ533G36	KAFJ533G56	KAFJ533G80	KAFJ533G160		
		Filter chamber bottom suction	KDDFJ53G36	KDDFJ53G56	KDDFJ53G80	KDDFJ53G160		
		Long life replacement filter	KAFJ531G36	KAFJ531G56	KAFJ531G80	KAFJ531G160		

Note: \*1 Filter chamber is required if installing high efficiency filter.

### Ceiling Mounted Cassette (Single Flow) Type

No.	Item	Type	FXEQ20A FQE25A	FQE32A FQE40A	FQE50A FQE63A
1	Decoration panel		BYEP40AW1		BYEP63AW1

### Slim Ceiling Mounted Duct Type (Standard Series)

No.	Item	Type	FXDQ20PD	FXDQ25PD	FXDQ32PD	FXDQ40ND	FXDQ50ND	FXDQ63ND
1	Insulation kit for high humidity			KDT25N32		KDT25N50		KDT25N63

### Middle Static Pressure Ceiling Mounted Duct Type

No.	Item	Type	FXSQ20PA FXSQ25PA FXSQ32PA	FXSQ40PA	FXSQ50PA FXSQ63PA FXSQ80PA	FXSQ100PA FXSQ125PA	FXSQ140PA
1	High efficiency filter *1	65%	KAFP632B36	KAFP632B56	KAFP632B80	KAFP632B160	KAFP632B160B
		90%	KAFP633B36	KAFP633B56	KAFP633B80	KAFP633B160	KAFP633B160B
2	Filter chamber (for rear suction) *1		KDDFP63B36	KDDFP63B56	KDDFP63B80	KDDFP63B160	KDDFP63B160B
3	Long-life filter *1		KAFP631B36	KAFP631B56	KAFP631B80	KAFP631B160	KAFP631B160B
4	Service panel	White	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W		KTBJ25K160W
		Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F		KTBJ25K160F
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T		KTBJ25K160T
5	Air discharge adaptor		KDAP25A36A	KDAP25A56A	KDAP25A71A	KDAP25A140A	KDAP25A160A *2
6	Shield plate for side plate				KDBD63A160		

Note: \*1. If installing high efficiency filter and long-life filter to the unit, filter chamber is required.

\*2. This option is a set of KDAP25A140A and KDBHP37A160.

### Ceiling Mounted Duct Type

No.	Item	Type	FXMQ20PA FXMQ25PA FXMQ32PA	FXMQ40PA	FXMQ50PA FXMQ63PA FXMQ80PA	FXMQ100PA FXMQ125PA FXMQ140PA	FXMQ200MA FXMQ250MA
1	Drain pump kit						KDU30L250VE
2	High efficiency filter	65%	KAF372AA36	KAF372AA56	KAF372AA80	KAF372AA160	KAFJ372L280
		90%	KAF373AA36	KAF373AA56	KAF373AA80	KAF373AA160	KAFJ373L280
3	Filter chamber		KDDF37AA36	KDDF37AA56	KDDF37AA80	KDDF37AA160	KDJ3705L280
4	Long life replacement filter		KAF371AA36	KAF371AA56	KAF371AA80	KAF371AA160	KAFJ371L280
5	Long life filter chamber kit		KAF375AA36	KAF375AA56	KAF375AA80	KAF375AA160	
6	Service panel	White	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W	
		Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T	
7	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A	

# Option List

## VRV Indoor Units

### 4-Way Flow Ceiling Suspended Type

No.	Item	Type	FXUQ71A	FXUQ100A
1	Sealing material of air discharge outlet			KDBHP49B140
2	Decoration panel for air discharge			KDBTP49B140
3	Replacement long-life filter			KAFP551K160

### Ceiling Suspended Type

No.	Item	Type	FXHQ32MA	FXHQ63MA	FXHQ100MA
1	Drain pump kit		KDU50N60VE		KDU50N125VE
2	Replacement long-life filter (Resin net)		KAF501DA56	KAF501DA80	KAF501DA112
3	L-type piping kit (for upward direction)		KHFP5MA63		KHFP5MA160

### Wall Mounted Type

No.	Item	Type	FXAQ20P	FXAQ25P	FXAQ32P	FXAQ40P	FXAQ50P	FXAQ63P
1	Drain pump kit							K-KDU572EVE

### Floor Standing Type

No.	Item	Type	FXLQ20MA	FXLQ25MA	FXLQ32MA	FXLQ40MA	FXLQ50MA	FXLQ63MA
1	Long life replacement filter		KAFJ361K28		KAFJ361K45			KAFJ361K71

### Concealed Floor Standing Type

No.	Item	Type	FXNQ20MA	FXNQ25MA	FXNQ32MA	FXNQ40MA	FXNQ50MA	FXNQ63MA
1	Long life replacement filter		KAFJ361K28		KAFJ361K45			KAFJ361K71

### Floor Standing Duct Type

No.	Item	Type	FXVQ125N	FXVQ200N	FXVQ250N	FXVQ400N	FXVQ500N		
1	Replacement long life filter		KAFJ261L140	KAFJ261L224	KAFJ261L280	KAFJ261M450	KAFJ261M560		
2	Ultra long-life filter		-			KAFSJ9A400	KAFSJ9A560		
3	Front suction filter chamber for high efficiency filter	Front suction base flange	KD-9A140	KD-9A200	KD-9A280	KD-9A400	KD-9A560		
4		Suction grille	KDGF-9A140	KDGF-9A200	KDGF-9A280	KDGF-9A400	KDGF-9A560		
5		Filter chamber for high efficiency filter	Replacement long-life filter *1, 2, 3	65% *1, 3	KAF-91A140	KAF-91A200	KAF-91A280	KAF-91A400	KAF-91A560
6				90% *2, 3	KAF-92A140	KAF-92A200	KAF-92A280	KAF-92A400	KAF-92A560
7					KAF-93A140	KAF-93A200	KAF-93A280	KAF-93A400	KAF-93A560
8					KDDF-9A140	KDDF-9A200	KDDF-9A280	KDDF-9A400	KDDF-9A560
9		Plenum chamber *4		KPCJ140A	KPC5J	KPC8J	KPCJ400A	KPC15JA	
10		Pulley for plenum chamber *4		KPP8JA	KPP9JA	KPP10JA	-		
11	Fresh air intake kit		KD106D10			KDFJ906A560			
12	Rear suction kit		KDFJ905A140	KDFJ905A200	KDFJ905A280	KDFJ905A400	KDFJ905A560		
13	Discharge grille for plenum side		KD101A10			KD101A20			
14	Wood base		KKWJ9A140	KWF1G5P	KWF1G8P	KKWJ9A400	KWF1G15		
15	Vibration isolating frame		K-ABSG1406A	K-ABSG1407A	K-ABSG1408A	K-ABSG1409A	K-ABSG1410A		

Note: \*1. When ordering a filter chamber for high efficiency filter (65%), please order with all the respective parts.  
 \*2. When ordering a filter chamber for high efficiency filter (90%), please order with all the respective parts.  
 \*3. When replacing with a new filter, please order the replacement filters with the corresponding filter model name.  
 \*4. Use the plenum chamber and pulley for plenum chamber in combination.

### Clean Room Air Conditioner

No.	Item	Type	FXBQ40PVE	FXBQ50PVE	FXBQ63PVE	FXBPQ63PVE
1	Outlet unit		-			BAF82A63
2	Filter	HEPA filter	BAFH82A50		BAFH82A63	
3	Panel	Ceiling intake type	BYB82A50C		BYB82A63C	BYB82A63CP
4		Floor-level intake type	BYB82A50W		BYB82A63W	BYB82A63WP
5	Outside air intake duct flange		KDFJ82A80			

## Residential Indoor Units with connection to BP units

### Slim Ceiling Mounted Duct Type

No.	Item	Type	FDKS25EAVMB	FDKS35EAVMB	FDKS25CAVMB	FDKS35CAVMB	FDKS50CVMB	FDKS60CVMB
1	Insulation kit for high humidity		KDT25N32		KDT25N50		KDT25N63	

### Wall Mounted Type

No.	Item	Type	FTKJ25NVMW FTKJ25NVMS	FTKJ35NVMW FTKJ35NVMS	FTKJ50NVMW FTKJ50NVMS	FTKS25DVM FTKS35DVM	FTKS50BVMA	FTKS50FVM FTKS60FVM FTKS71FVM
1	Titanium apatite deodorising filter		KAF970A46				KAF952A42	KAF952B42

Note: Filter is a standard accessory. It should be replaced approximately 3 years.

### BP Units for connection to residential indoor units

No.	Item	Type	BPMKS967A2	BPMKS967A3
1	REFNET joint			KHRP26A22T

Note: A single BP unit does not require a REFNET joint. 2 BP units require only 1 REFNET joint, and 3 BP units require only 2 REFNET joints.

## Control Systems

### Operation Control System Optional Accessories

#### For VRV indoor unit use

No.	Item	Type	FXFSQ-A FXFQ-A	FXZQ-M	FXCQ-M	FXEQ-A	FXDQ-PD FXDQ-ND	FXDQ-SP	FXSQ-PA	FXMQ-PA
1	Remote controller	Wireless	BRC7M635F (Fresh White) / BRC7M635K (Black)	BRC7E531W	BRC7C67	BRC4M63	BRC4C66			
		Wired	—	BRC1C62			BRC1C62			
2	Navigation remote controller (Wired remote controller)		BRC1E63 <sup>Note 7</sup>	BRC1E63	BRC1F61	BRC1E63 <sup>Note 8</sup>	BRC1E63	BRC1E63 <sup>Note 8</sup>		
3	Simplified remote controller (Exposed type)		—	BRC2C51						
4	Remote controller for hotel use (Concealed type)		—	BRC3A61						
5	Adaptor for wiring		★KRP1C11A	★KRP1BA57	★KRP1B61	—	★KRP1B56	—	★KRP1C64	
6-1	Wiring adaptor for electrical appendices (1)		—	★KRP2A62	★KRP2A61	—	★KRP2A53	—	★KRP2A61	
6-2	Wiring adaptor for electrical appendices (2)		★KRP4AA53	★KRP4AA51	—	★KRP4A54	—	★KRP4AA51		
7	Remote sensor (for indoor temperature)		KRCS01-5B	KRCS01-1B	KRCS01-4B	KRCS01-1B		KRCS01-4B		
8	Installation box for adaptor PCB ☆		Note 2, 3 KRP1H98A	Note 4, 6 KRP1BA101	Note 2, 3 KRP1B96	—	Note 4, 6 KRP1BA101	—	Note 2, 3 KRP4A98	Note 2, 3 KRP4A97
9	External control adaptor for outdoor unit		★DTA104A62	★DTA104A61	—	★DTA104A53	—	★DTA104A61		
10	Adaptor for multi tenant		★DTA114A61	—						★DTA114A61

No.	Item	Type	FXMQ-MA	FXUQ-A	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXVQ-N	FXBQ-P FXBPQ-P
1	Remote controller	Wireless	BRC4C64	BRC7C659	BRC7EA66	BRC7EA619	BRC4C64	—	BRC4C64
		Wired	BRC1C62						
2	Navigation remote controller (Wired remote controller)		BRC1E63	BRC1E63 <sup>Note 7, 8</sup>	BRC1E63			BRC1C62 <sup>Note 9</sup>	BRC1C62
3	Simplified remote controller (Exposed type)		BRC2C51	—	BRC2C51		—	BRC2C51	
4	Remote controller for hotel use (Concealed type)		BRC3A61	—	BRC3A61		—	BRC3A61	
5	Adaptor for wiring		KRP1B61	—	KRP1BA54	—	KRP1B61	KRP1C67	KRP1B61
6-1	Wiring adaptor for electrical appendices (1)		KRP2A61	—	★KRP2A62	★KRP2A61	KRP2A61	KRP2A62	KRP2A61
6-2	Wiring adaptor for electrical appendices (2)		KRP4AA51	★KRP4AA53	★KRP4AA52	★KRP4AA51	KRP4AA51	—	KRP4AA51
7	Remote sensor (for indoor temperature)		KRCS01-1B	KRCS01-4B	KRCS01-1B				
8	Installation box for adaptor PCB ☆		—	KRP1BA97	Note 3 KRP1CA93	Note 2, 3 KRP4AA93	—		
9	External control adaptor for outdoor unit		DTA104A61	—	★DTA104A62	★DTA104A61	DTA104A61	Note 11 DTA104A62	DTA104A61
10	Adaptor for multi tenant		—				★DTA114A61	—	
11	External control adaptor for cooling/heating		—	—	—	—	KRP6A1 <sup>Note 11</sup>	—	
12	Remote controller with key		—	—	—	—	KRCB37-1	—	

- Note: 1. Installation box<sup>☆</sup> is necessary for each adaptor marked ★.  
2. Up to 2 adaptors can be fixed for each installation box.  
3. Only one installation box can be installed for each indoor unit.  
4. Up to 2 installation boxes can be installed for each indoor unit.  
5. Installation box<sup>☆</sup> is necessary for second adaptor.  
6. Installation box<sup>☆</sup> is necessary for each adaptor.  
7. Some function can be set only via wired remote controller BRC1E63. Cannot be set via other remote controllers. Please refer to page 24 for function list details.  
8. Auto airflow rate can be set only via wired remote controller BRC1E63. Cannot be set via other remote controllers.  
9. Since the control panel is equipped as standard, use the option for 2 remote control system.  
10. When using BRC1E63, be sure to remove the control panel and since BRC1E63 cannot be stored inside the indoor unit, please place it separately.  
11. Remove the group control adaptor which is a standard equipment before mounting KRP6A1 and DTA104A62.  
KRP6A1 and DTA104A62 cannot be mounted to the same indoor unit at the same time.

#### For residential indoor unit use

No.	Item	Type	FKDS-EA, C(A)	FTKJ-N	FTKS-D,B,F
1	Remote controller	Wireless type	—	— <sup>Note 1</sup>	
2	Wiring adaptor for time clock/remote controller <sup>Note 2</sup> (Normal open pulse contact/normal open contact)		KRP413AB1S		
3	Remote controller loss prevention chain		KKF917A4	KKF910A4	KKF917A4
4	Interface adaptor for DIII-NET use		KRP928BB2S		

- Note: 1. A wireless remote controller is a standard accessory.  
2. Time clock and other devices should be obtained locally.

## Control Systems

### System Configuration

No.	Item	Model No.	Function
1	Residential central remote controller	Note 2 DCS303A51	• Up to 16 groups of indoor units (128 units) can be easily controlled using the large LCD panel. ON/OFF, temperature settings and scheduling can be controlled individually for indoor units.
2	Interface adaptor for residential indoor units	KRP928BB2S	• Adaptors required to connect products other than those of the <b>VRV</b> System to the high-speed DIII-NET communication system adopted for the <b>VRV</b> System.  * To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
3	Interface adaptor for SkyAir-series	Note 3 ★DTA112BA51	
4	Central control adaptor kit   For UAT(Y)-K(A),FD-K	★DTA107A55	
5	Wiring adaptor for other air-conditioner	★DTA103A51	
6	DIII-NET expander adaptor	DTA109A51	• Up to 1024 units can be centrally controlled in 64 different groups. • Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor.
6-1	Mounting plate	KRP4A92	• Fixing plate for DTA109A51

- Note: 1. Installation box for ★ adaptor must be obtained locally.  
2. For residential use only. Cannot be used with other centralised control equipment.  
3. No adaptor is required for some indoor units.

### Building Management System

No.	Item				Model No.	Function	
1	intelligent Touch Controller	Basic	Hardware	intelligent Touch Controller	DCS601C51	• Air-Conditioning management system that can be controlled by a compact all-in-one unit.	
1-1		Option	Hardware	DIII-NET plus adaptor	DCS601A52	• Additional 64 groups (10 outdoor units) is possible.	
1-2	Electrical box with earth terminal (4 blocks)				KJB411A	• Wall embedded switch box.	
2	intelligent Touch Manager	Basic	Hardware	intelligent Touch Manager	DCM601A51	• Air-conditioning management system that can be controlled by touch screen.	
2-1			Hardware	iTM plus adaptor	DCM601A52	• Additional 64 groups (10 outdoor units) is possible. • Max. 7 iTM plus adaptors can be connected to intelligent Touch Manager.	
2-2				iTM power proportional distribution	DCM002A51	• Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh metre.	
2-3		Option	Software	iTM energy navigator	DCM008A51	• Building energy consumption is visualised. • Wasted air-conditioning energy can be found out.	
2-4				BACnet® client	DCM009A51	• BACnet® equipment can be managed by intelligent Touch Manager.	
2-5				HTTP Interface	DCM007A51	• Interface for intelligent Touch Manager by HTTP	
2-6			Hardware	*1 SVM series	SVMPR2	• <b>VRV</b> Smart phone Control System for residence	
2-7					SVMP2	• <b>VRV</b> Smart Phone Remote Controller for building	
2-8					SVMPS1	• Tenant Billing System with PPD	
2-9					SVMPR1	• <b>VRV</b> Smart Phone Control System for residence with DTA116A51.	
2-10		<b>VRV</b> Tablet Controller				SVMPC1	• <b>VRV</b> Tablet Controller for small size building with DTA116A51
2-11		Di unit				DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.
2-12	Dio unit				DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input.	
3	Communication interface			*2 Interface for use in BACnet®	DMS502B51	• Interface unit to allow communications between <b>VRV</b> and BMS. Operation and monitoring of air-conditioning systems through BACnet® communication.	
3-1		Optional DIII board			DAM411B51	• Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.	
3-2		Optional Di board			DAM412B51	• Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.	
4				*3 Interface for use in LONWORKS®	DMS504B51	• Interface unit to allow communications between <b>VRV</b> and BMS. Operation and monitoring of air-conditioning systems through LonWorks® communication.	
5	Home Automation Interface Adaptor				DTA116A51	• Use of the Modbus protocol enables the connection of the <b>VRV</b> system with a variety of home automation systems from other manufacturers.	
6	Contact/analogue signal	Unification adaptor for computerised control			★DCS302A52	• Interface between the central monitoring board and central control units.	

- Note: \*1. HTTP interface (DCM007A51) is also required.  
\*2. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).  
\*3. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.  
\*4. Installation box for ★ adaptor must be obtained locally.