

WORLD'S NO. 1  
AIRCONDITIONING COMPANY FROM JAPAN



*VRV S*

SHAPING  
AIR TO YOUR  
NEEDS



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# ABOUT DAIKIN

At Daikin®, we are a leading innovator and provider of advanced, high-quality air-conditioning solutions for residential, commercial and industrial applications.

As World's No. 1 Air-conditioning Company, we are committed to delivering air-conditioning solutions that enhance the quality of life all around the world. We, at Daikin Industries Ltd., are a diverse multinational company, active in air-conditioning, chemicals and oil hydraulics, was established in 1924. With headquarters at Osaka, Japan, our Daikin family has more than 51,000 members, working across 60 production base units and 208 consolidated subsidiaries worldwide. As the world's sole manufacturer that develops a long line of products from refrigerants to air-conditioners, we advocate comfortable living on the strength of advanced technologies.

We are present in USA, Europe and Russia, the Middle East, Africa, Asia, Oceania and Middle-South America. We aim to serve our customers in each of these markets by providing optimal air-conditioning products.



# EXPLORING NEW R&D FRONTIERS

At Daikin, we are creating value through innovative technologies. As a global industry frontrunner, we are carrying out research and development on the world's most advanced air-conditioning technology.

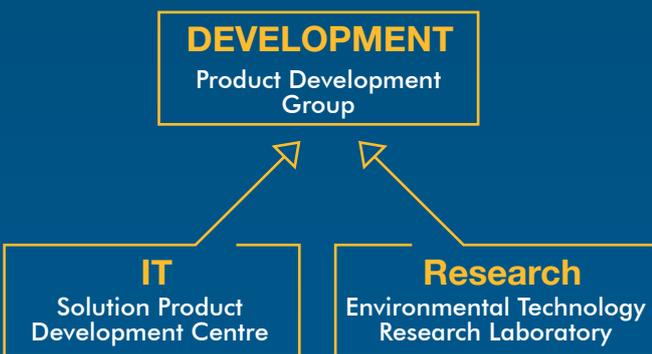
Our strong R&D edge has helped us create futuristic products that enrich people's lives. As symbolised by the VRV, Daikin has put forth a multitude of products and varied technology that have always been, and continue to be, at the forefront of innovation.

To be able to offer such products and services that delight and astound our customers, we have constructed an advanced R&D architecture.



Formation of a three-division system of research, it, and development to support our superior products.

To create more advanced functions and new value, we have instituted specialised R&D divisions: the 'Environmental Technology Research Laboratory' and the 'Solution Product Development Centre'. In combination with the Product Development Group, each of the three divisions work in close cooperation to precisely ascertain the customers' needs and to enable commercialisation of products, incorporating advanced technology that take the lead over our competitors.



## Environmental Technology Research Laboratory: Intensive Research on Environmentally Conscious, Energy Saving Air-conditioning Technology.

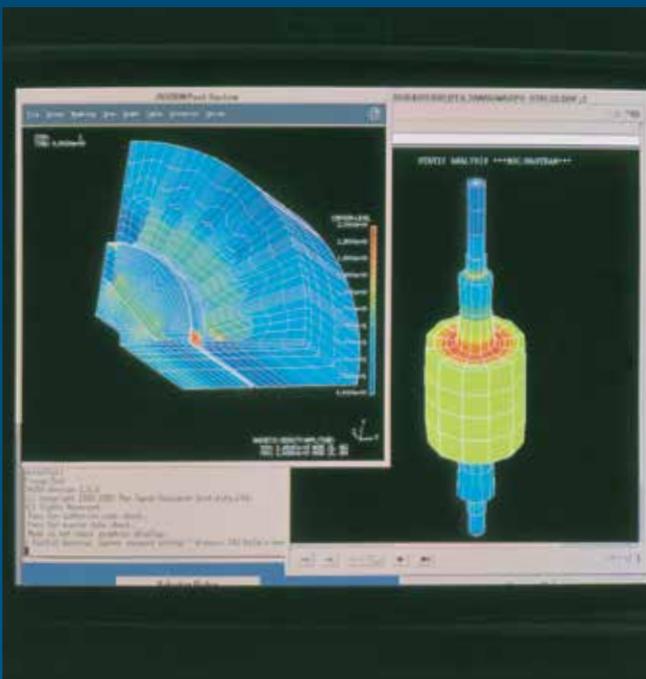
Accelerating globalisation of our air-conditioning business and varied needs of customers across geographies are increasing our research challenges. We have established a research laboratory devoted to the two fields of 'air-conditioning' and 'the environment'. With our mission to promote energy savings in air-conditioners, we are engaged in R&D on cutting-edge technologies. Our aim is to create futuristic products from fundamental research on motor inverters, and other areas to support individual product development.

Going forward, we will elevate our technology edge to achieve further business expansion globally.



## The Solutions Product Development Centre: Integrating Air-conditioners with IT.

Keeping in mind the changes in business brought in by the computerisation and networking of society, we have integrated IT into our air-conditioners, including communication technology, software technology and digital control. We are initiating R&D that will offer new system services - a comfortable environment with superior energy savings by networking air-conditioners. Such a scenario will enable them to exchange information with service centres.



# INTRODUCING 'VRV S'

VRV S is the ideal air-conditioning system as it replaces multiple outdoor units with only one unit maintaining the picturesque view of the building. VRV S ideally suited for small offices, shops, gyms and residences as it offers panoply of indoor units, which can be connected with only one outdoor unit.

**4S** Space saving  
Sufficient capacity  
Slim design  
Sound-reduced



Easy installation **1E**

VRV S is available upto 12 HP (9.6 Ton) and a maximum of 19 indoor units can be connected with one outdoor unit. The compact, trunk-shaped outdoor unit can easily be installed on a balcony or ledge creating a spick and span space around the building.



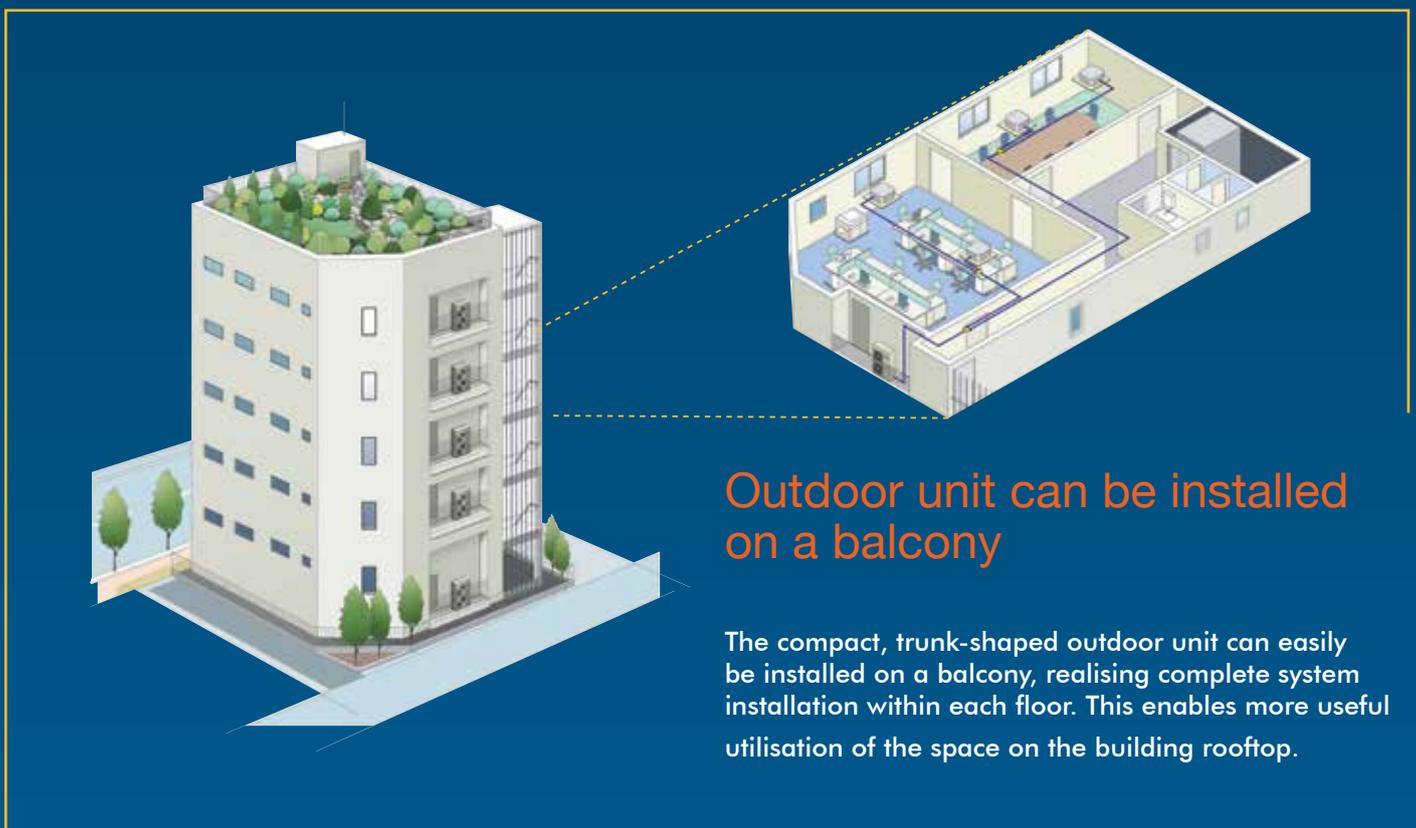
# WHY 'VRV S' ?

In a conventional split air-conditioning system, a house requires same number of outdoor units and indoor units. For example, a house with four rooms will have four indoor units and four outdoor units.

With increase in number of rooms the number of outdoor units also keeps on increasing; a big house may require more than 15 outdoor units. An apartment or a house that does not have sufficient space will find difficult to accommodate numerous outdoor units. Even if the outdoor units are somehow crowded together they will consume a lot of space, look cluttered and ruin the aesthetics of the house.

VRV S replaces all the outdoor units of the house with just one outdoor unit. A total of 19 indoor units can be connected to one outdoor unit to create the space you have always desired. Also you have different styles of indoor units like cassette type, duct type and hi-wall, among others that can be connected with a single outdoor unit. Furthermore, actual piping length of up to 150 meters coverage of widespread spaces is ensured.

## THE IDEAL AIR-CONDITIONING SYSTEM FOR SMALL OFFICES AND SHOPS



**Outdoor unit can be installed on a balcony**

The compact, trunk-shaped outdoor unit can easily be installed on a balcony, realising complete system installation within each floor. This enables more useful utilisation of the space on the building rooftop.

# MAIN FEATURES

## Wide range of choices

To suit the variety of rooms found in small offices and shops, the VRV S system offers wide range of indoor and outdoor units.

VRV S indoor and outdoor units are almost as easy to install as residential air-conditioning systems, making them ideal for small offices and shops.

### Outdoor units

#### 6 models

Outdoor unit can be selected from six models to provide the power that suits your needs. The trunk-shaped outdoor unit can be neatly installed outside the office.



### Outdoor unit lineup

<b>MODEL NAME</b>	RX(Y)MQ4	RX(Y)MQ5	RX(Y)MQ6
<b>CAPACITY RANGE</b>	4 HP (11.2 KW)	5 HP (14.0 KW)	6 HP (15.5 KW)
<b>CAPACITY INDEX</b>	100	125	140
<b>MODEL NAME</b>	RX(Y)MQ8	RX(Y)MQ10	RX(Y)MQ12
<b>CAPACITY RANGE</b>	8 HP (22.4 KW)	10 HP (28 KW)	12 HP (33.5 KW)
<b>CAPACITY INDEX</b>	200	250	300



# Energy efficiency and quiet operation

Outdoor units use Daikin's unique scroll compressor to realise energy saving performance and quiet operation.

## High COP during both cooling and heating operations

One of the top features of VRV S is its energy efficiency. It achieves high COP during cooling and heating operations by employing Daikin's unique scroll compressor.

## Quiet operation provides luxurious comfort

Quietness is yet another important feature of Daikin's VRV S system. To reduce noise and realise comfortable operation, latest technologies and features are applied to the outdoor units.

### Night-time quiet operation function

#### Operation sound level selectable from 3 steps for the night mode

##### Mode 1 Automatic mode

Set on the outdoor PCB. Time of maximum temperature is memorised. The low operating mode will become active 8 hours<sup>\*1</sup> after the peak temperature in the daytime, and operation will return to normal 10 hours<sup>\*2</sup> after that. The operation sound level for the night mode can be selected from 47 dB(A) (Step 1), 44 dB(A) (Step 2) and 41 dB(A) (Step 3).

##### Mode 2 Manual mode

Starting time and ending time can be input. (An external control adaptor for outdoor unit, DTA104A61 or DTA104A62, and a locally obtained timer are necessary.)

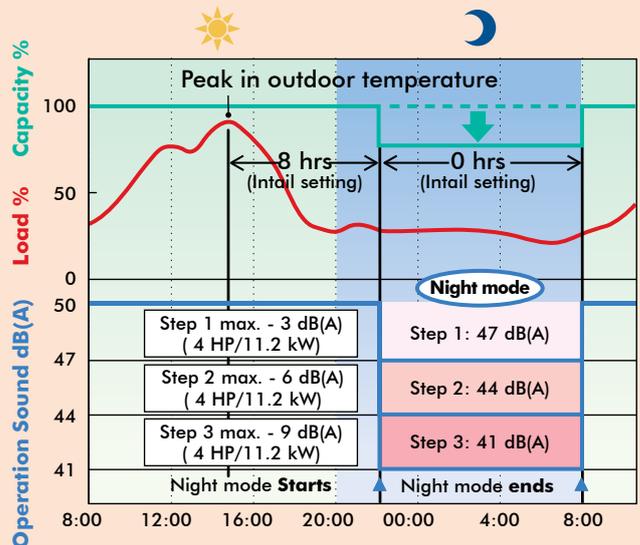
##### Mode 3 Combined mode

Combinations of modes 1 and 2 can be used depending on your needs.

\*1. Initial setting. Can be selected from 6, 8 and 10 hours.

\*2. Initial setting. Can be selected from 8, 9 and 10 hours.

#### Mode 1 Automatic mode



- Note:
- This function is available in setting at site.
  - The relationship of outdoor temperature (load) and time shown in the graph is just an example.
  - \* The capacity reduction rate differs depending on the operation sound level step selected.

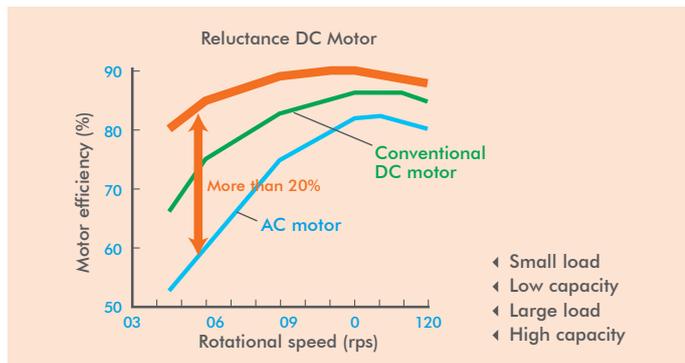
# MAIN FEATURES

## A collection of cutting-edge technologies realises efficient and quiet operation.

The high efficiency compressor to achieve a higher COP

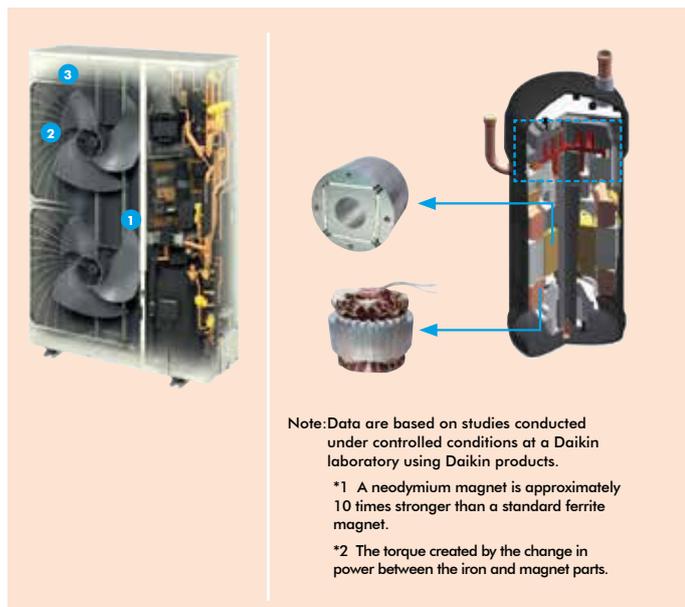
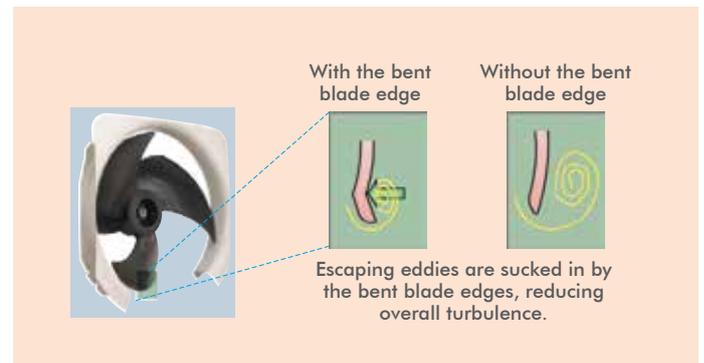
### Compressor equipped with Reluctance DC motor

Daikin DC inverter models are equipped with the Reluctance DC motor for compressor. The Reluctance DC motor uses 2 different types of torque, neodymium magnet\*1 and reluctance torque\*2. This motor can save energy because it generates more power with a smaller electric power than an AC or conventional DC motor.



### Smooth air inlet Bell Mouth and Aero Spiral Fan

These two features work to reduce sound. Guides are added to the bell mouth intake to reduce turbulence in the airflow generated by fan suction. The Aero Spiral Fan features fan blades with the bent blade edges, further reducing turbulence.



### DC fan motor

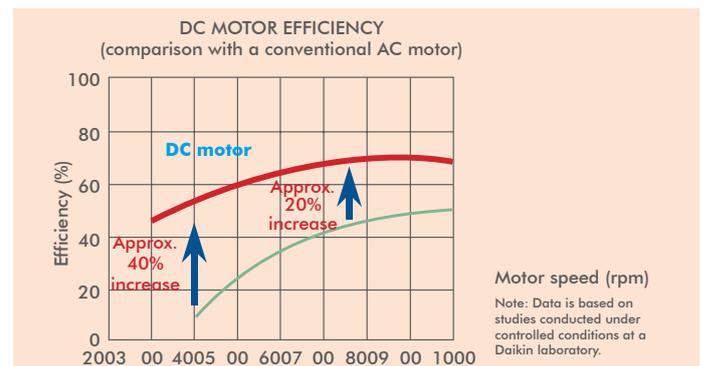
Efficiency improved in all areas compared to conventional AC motors, especially at low speeds.

DC FAN MOTOR STRUCTURE



### >> Smooth sine wave DC inverter

Use of an optimised sine wave smooths motor rotation, further improving operating efficiency.



# Design flexibility

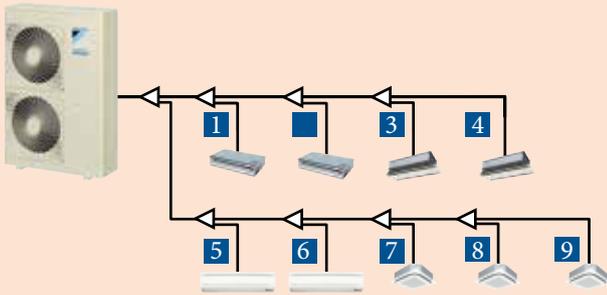
VRV S systems offer broad design flexibility with long refrigerant piping lengths and multiple indoor unit combinations, which provides generous freedom for office and shop design both inside and outside.

## As many as 19 indoor units can be connected to a single outdoor unit

Multiple indoor unit combinations are possible.\* As many as 19 indoor units can be connected to a single outdoor unit, making the VRV S a remarkably versatile system.

\* Total capacity index of connectable indoor units must be 50 - 130 % of the capacity index of the outdoor unit.

For a **6 HP** installation



**Max. 19 units**

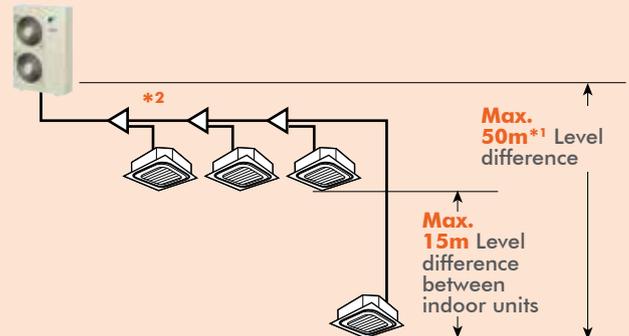
- >> **Max. 6 indoor units** for a **4 HP** installation
- >> **Max. 8 indoor units** for a **5 HP** installation
- >> **Max. 9 indoor units** for a **6 HP** installation
- >> **Max. 13 indoor units** for a **8 HP** installation
- >> **Max. 16 indoor units** for a **10 HP** installation
- >> **Max. 19 indoor units** for a **12 HP** installation

## Long piping design possible

The VRV S provides the long piping length possibility of 150 m, with a total piping length of 300 m. If the outdoor unit is installed above indoor units the level difference can be up to a maximum of 50 m. These generous allowances facilitate an extensive variety of system designs.

Actual piping length  
**Max. 150 m**

Total piping length  
**Max. 300 m**

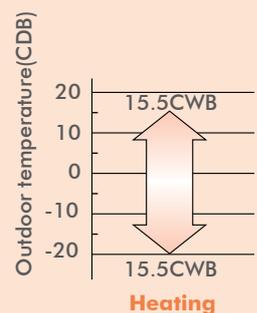
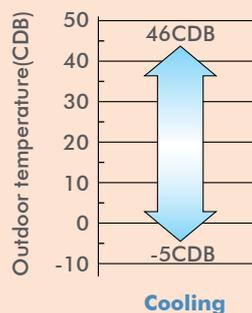


- Note: \*1. 40 m when the outdoor unit is installed below indoor units.  
\*2. Maximum piping length between the indoor unit and the first branch is 40 m.  
\*3 Applicable for ODU for capacity of 4, 5 & 6 HP

## Wide operation temperature range

The versatile operation range of the VRV S system works to reduce limitations on installation locations. The operation temperature range for heating goes all the way down to  $-20^{\circ}\text{C}$ , while cooling can be performed with outdoor temperatures as high as  $46^{\circ}\text{C}$ . Both these achievements are due to the adoption of a high-pressure dome-type compressor.

Certified operation temperature range



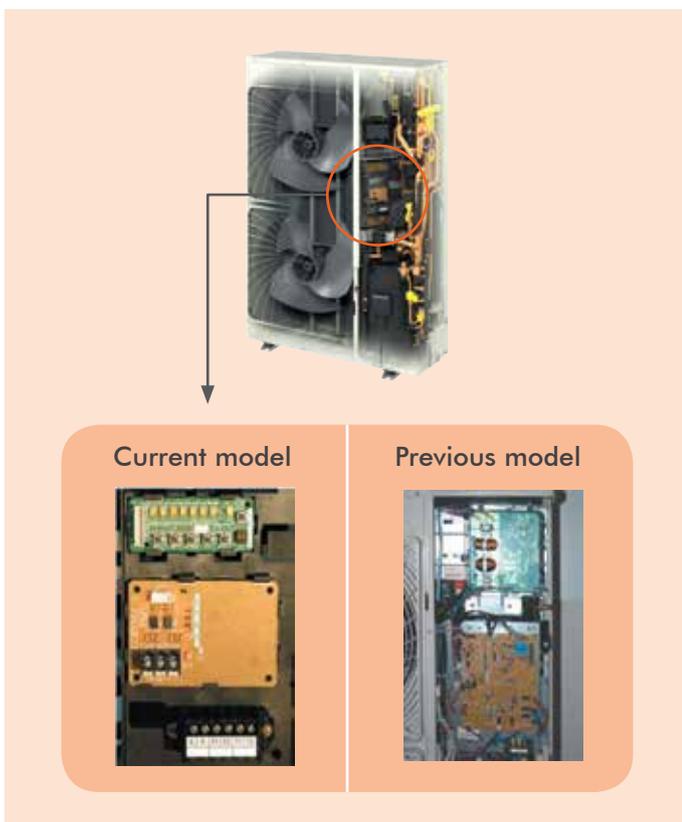
# MAIN FEATURES

## Easy installation

A variety of functions are provided that make installation easier, such as simple wiring and piping and automatic test operation.

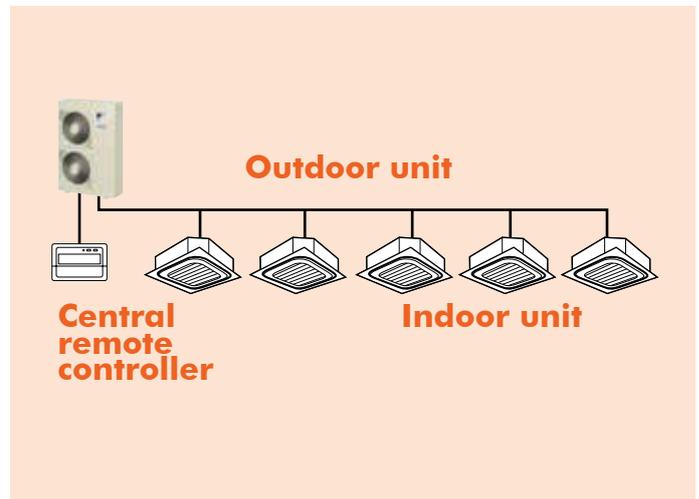
### Easy wiring

A printed circuit board has been adopted that is easy to see and wire during installation.



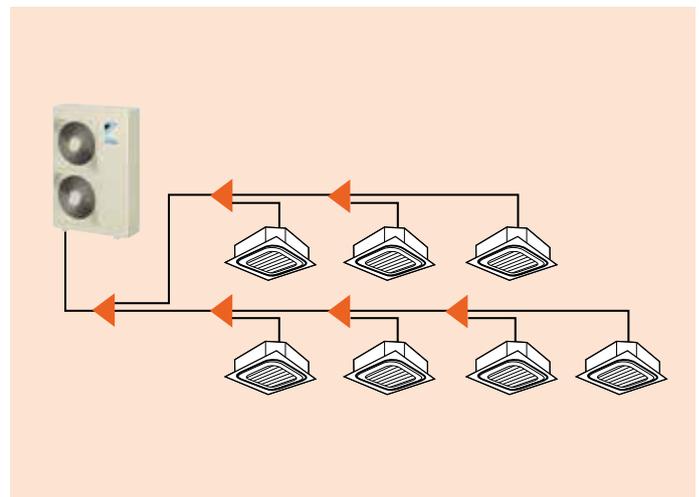
### >> Super wiring system

A super wiring system is used to enable shared use of the wiring between indoor and outdoor units and the central control wiring, with a relatively simple wiring operation. The DIII-NET communication system is employed to enable the use of advanced control systems.



### >> REFNET piping system

Daikin's advanced REFNET piping system makes installation easy. Only two main refrigerant lines are required in any one system. REFNET greatly reduces the imbalances in refrigerant flow between units, while using small-diameter piping.



### Automatic test operation

Simply press the test operation button and the unit performs an automatic system check, including wiring, shutoff valves, and sensors. The results are returned automatically after the check finishes.

### Simple wiring and piping connection

Unique piping and wiring systems make it possible to install a VRV S system quickly and easily.

# INDOOR UNIT LINEUP

## Indoor units

14 types 76 models\*

A wide range of indoor units includes 76 models in 14 types. The indoor units can be selected to match every room and preference.



### Indoor unit lineup

Type	Model Name	Capacity Range Capacity Index (HP)	0.8	1	1.25	1.6	2	2.5	3	3.2	4	5	6	8	10
			20	25	31.25	40	50	62.5	71	80	100	125	140	200	250
Ceiling Mounted Cassette (Round Flow with Sensing) (Optional)	FXFQ-SVM			●	●	●	●	●		●	●	●			
Ceiling Mounted Cassette (Round Flow)	FXFQ-LUV1			●	●	●	●	●		●	●	●			
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE		●	●	●	●	●								
4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●				
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		●	●	●	●	●	●		●		●			
Ceiling Mounted Cassette Corner	FXEQ-AVE		●	●	●	●	●	●							
Slim Ceiling Mounted Duct	FXDQ-PBVE (WITH DRAIN PUMP)	(700 mm width type) 	●	●	●										
		(900/1,100 mm width type) 				●	●	●							
Ceiling Mounted Duct	FXMQ-PVE		●	●	●	●	●	●		●	●	●	●		
	FXMQ-MVE													●	●
Ceiling Suspended	FXHQ-MAVE				●			●			●				
Wall Mounted	FXAQ-PVE		●	●	●	●	●	●							
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●							
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●							

● EXISTING | ● NEW

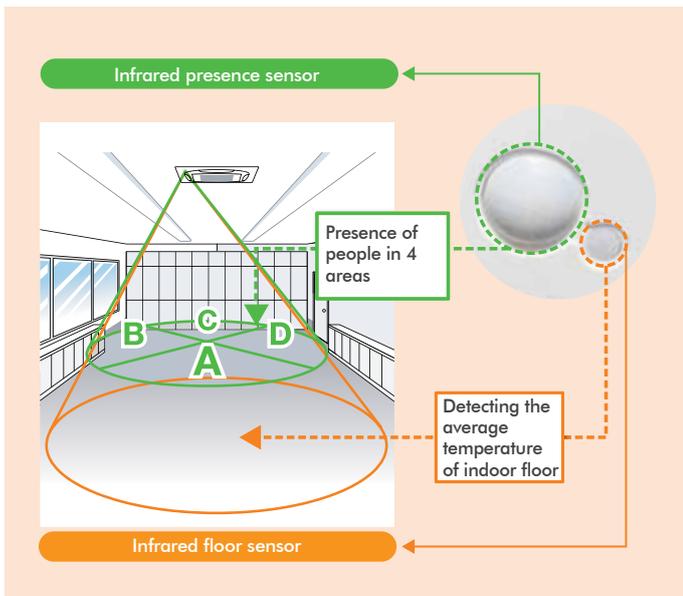
# INDOOR UNIT LINEUP

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

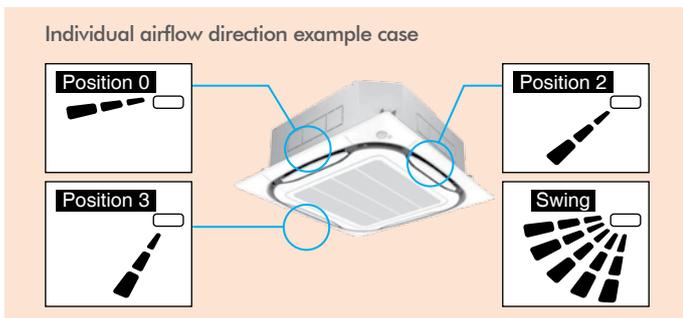
**Presence of people and floor temperature can be detected to provide comfort and energy savings**

**FXFQ25S / FXFQ32S / FXFQ40S  
FXFQ50S / FXFQ63S / FXFQ80S  
FXFQ100S / FXFQ125S**

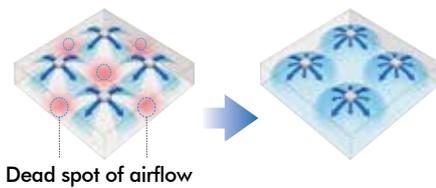
- Dual sensors detect the presence of people and floor temperature to provide comfortable air-conditioning and energy savings.
- The sensor detects human presence and adjusts the airflow direction automatically to prevent drafts. Energy saving control can be performed when no people are detected.



- 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.
- Thanks to the individual airflow direction control function, airflow direction can be individually adjusted for each air discharge outlet. Five directions of airflow and auto-swing can be selected with wired remote controller BRC1E62, which realises the optimum air distribution.



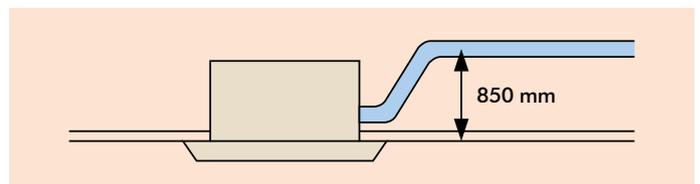
- Indoor unit offers 360° airflow and discharges air in all directions with more uniform temperature distribution.



- 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.
- Low operation sound level

FXFQ-S	25/ 32	40	50	63	80	100	125
Sound level (HH/H/L)	30/28.5/27	31/29/27	36/32/28	38/33/28	38/35/31	44/38/32	45/40/35

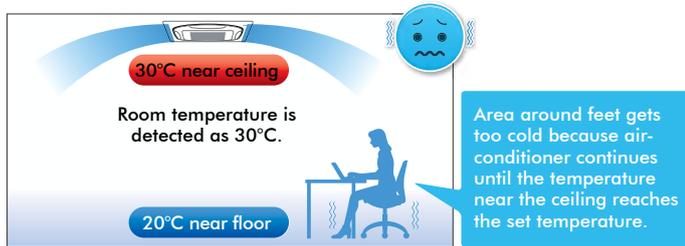
- Control of airflow rate can be selected from 3-step control, which provides comfortable airflow. Auto airflow rate control can be selected with wired remote controller BRC1E62.
- Drain pump is equipped as standard accessory with 850 mm lift.



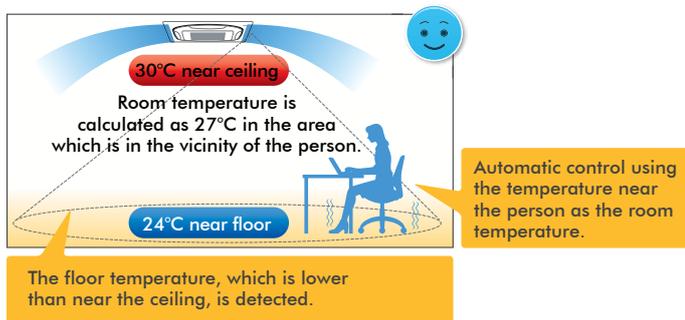
## Sensing function

### Auto airflow rate mode + Auto airflow direction mode

- Floor temperature is detected and over cooling is prevented. Without sensing function



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



## Energy savings

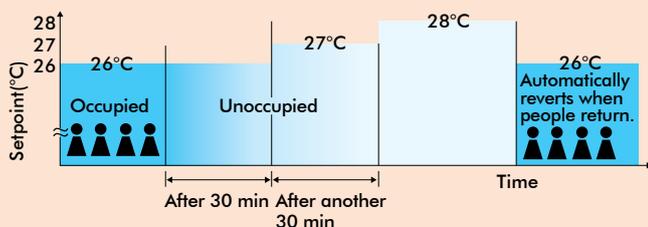
The temperature near the person is automatically calculated by detecting the temperature of the floor. Energy is saved, because the area around the feet does not get too cold.

- Comfortable airflow  
Airflow rate automatically increases during hot or cold periods (when there is a large difference with set temperature), and operation is rapidly performed for cooling or heating. When the difference with set temperature becomes small, drafts are prevented by automatically reducing airflow rate, and raising the flap to a horizontal position during cooling operation.

## Sensing sensor mode

- Sensing sensor low mode
  - When there are no people in a room, the set temperature is shifted automatically.

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



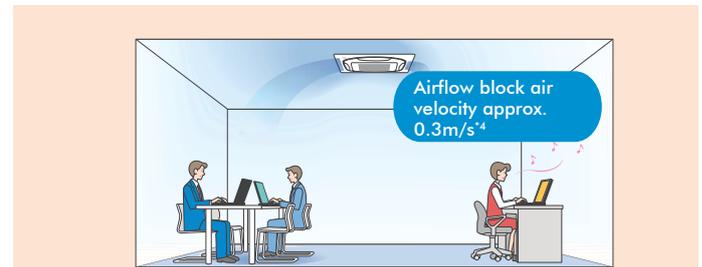
Shift temperature and time can be selected from 0.5 to 4°C in 0.5°C increments and 15, 30, 45, 60, 90 or 120 minutes respectively with remote controller.

- Sensing sensor stop mode<sup>\*1,2</sup>
  - When there are no people in a room, the system stops automatically.

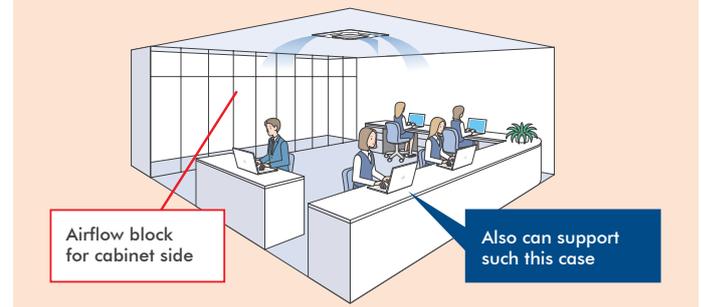
<sup>\*1</sup>. These functions are not available when using the group control system.  
<sup>\*2</sup>. User can set these functions with remote controller.

## Airflow block function

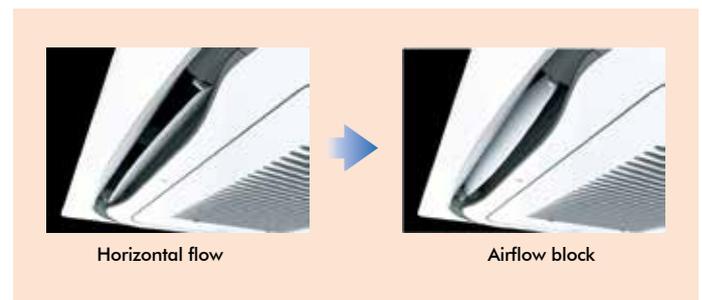
- Total comfort by individual airflow direction control and newly-equipped 'airflow block function'



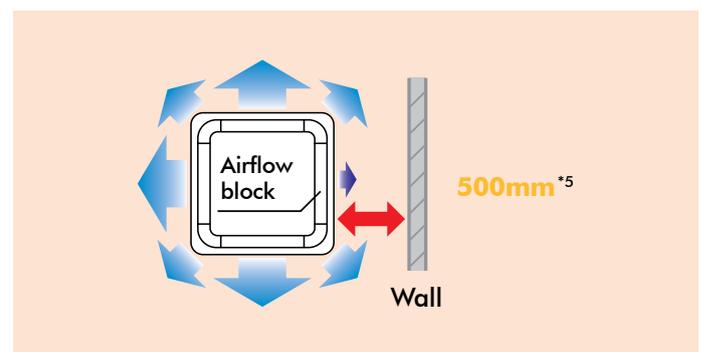
Airflow block function prevents uncomfortable drafts by reducing air velocity to approx. 0.3m/s.\*4



- New airflow block function prevents uncomfortable drafts by reducing air velocity. It can be set using the BRC1E62 remote controller. There is no need for sealing material of air discharge outlet (option).
- This function only works when all-round flow is used. It cannot be used when sealing material is used in the air discharge outlet (option).
- Easy setup with remote controller



- The airflow block function is useful when rearranging the room layout.



<sup>\*3</sup>. Works in one direction only.  
<sup>\*4</sup>. In case of FXFQ63S type (Data is based on Daikin research.)  
<sup>\*5</sup>. A gap of 1500 mm is required if the air block function is not used.

# INDOOR UNIT LINEUP

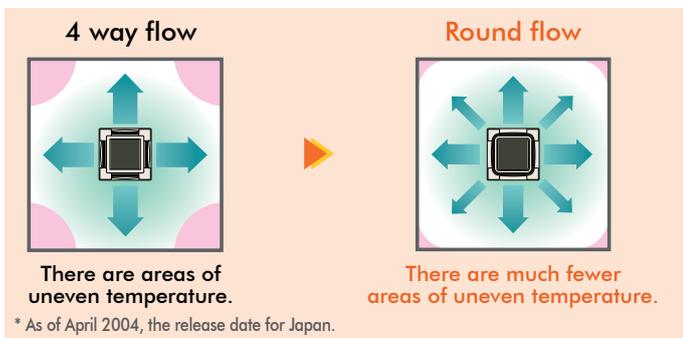
## Ceiling Mounted Cassette (Round Flow) Type



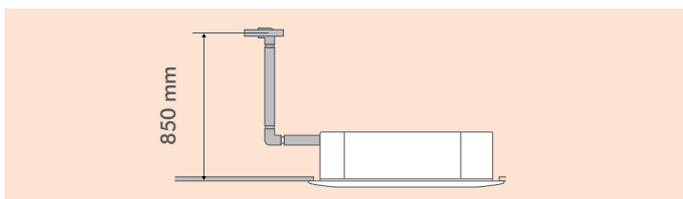
**360° airflow improves temperature distribution and offers a comfortable living environment.**

**FXFQ25LV/FXFQ32LV/FXFQ40LV  
FXFQ50LV/FXFQ63LV/FXFQ80LV  
FXFQ100LV/FXFQ125LV**

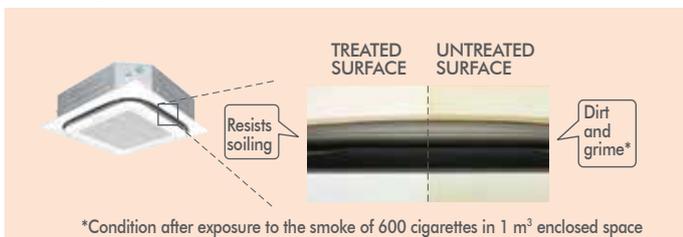
- The industry's first\* Round Flow Ceiling Mounted Cassette type offers 360° airflow with improved temperature distribution.



- The light weight unit at 19.5 kg for FXFQ25-50LV models make installation easy.
- Drain pump is equipped as standard accessory, and the lift height has been improved from 750 mm to 850 mm.



- A modern sophisticated decoration panel has been applied, with a panel surface that has been treated with a dirt-repellant coating.



- Control of the airflow rate can be selected from 3-step control.
- Low operation sound level

FXFQ-L	25/ 32	40	50	63	80	100	125
Sound level (HH/H/L)	30/28.5/27	31/29/27	32/29.5/27	34/31/28	36/33.5/31	43/37.5/32	44/39/34

(dB(A))

- 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 horizontal louvres prevent dew condensation. Their non-flocking surfaces, which repel dirt, are easy to clean.
- The air filter has an anti-mould and antibacterial treatment that prevents the growth of mould generated from dust or moisture that may adhere to the filter.

- Example of airflow patterns:**  
All-round flow is available, as well as 2-way to 4-way flows, so you can choose the most suitable airflow pattern depending on location or room layout.

All-round flow

4-way flow

3-way flow

L-shaped 2-way flow

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 member (option) must be used to close each unused outlet.

# Ceiling Mounted Cassette (Compact Multi Flow) Type

**Quiet, compact, and designed for user comfort**

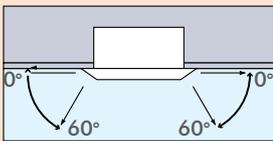
**FXZQ20M/FXZQ25M  
FXZQ32M/FXZQ40M  
FXZQ50M**

- Dimensions correspond with 600 mm X 600 mm architectural module ceiling design specifications.
- Low operation sound level (dB(A))

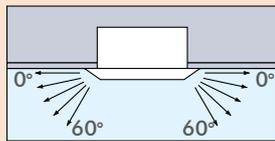
FXZQ-M	20/25	32	40	50
Sound level (H/L)	30/25	32/26	36/28	41/33

- Comfortable airflow
- 1. Wide discharge angle: 0° to 60°

• Auto swing

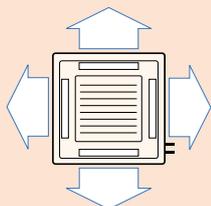


• Fixed angles: 5 levels

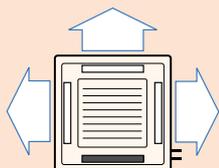


\*Angles can be also set on site to prevent drafts (0°-35°) or soiling of the ceiling (25°-60°), other than standard setting (0°-60°)

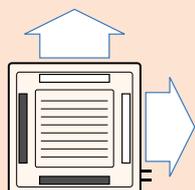
2. 2-, 3-, and 4-way airflow patterns are available, enabling installation in the corner of a room.



4-way flow



3-way flow

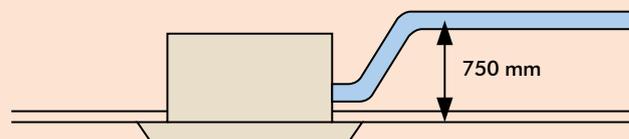


L-shaped 2-way flow

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



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



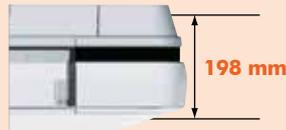
# INDOOR UNIT LINEUP

## 4-Way Flow Ceiling Suspended Type

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

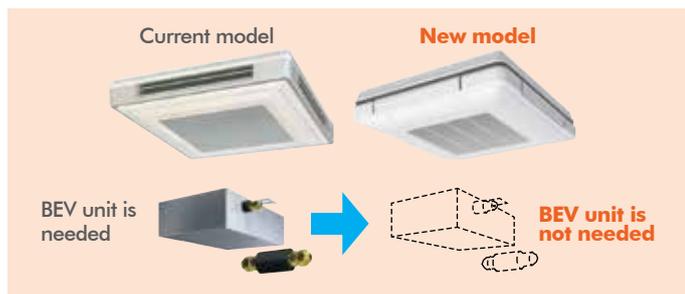
**FXUQ71AVEB / FXUQ100AVEB**

- 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 models that gives the unified impression even when models with different capacities are installed in the same area.

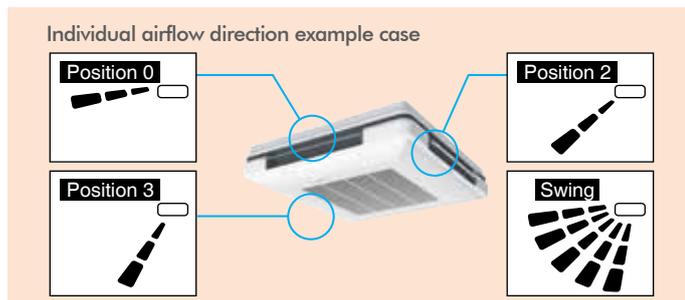


Easy installation in buildings with narrow ceiling spaces

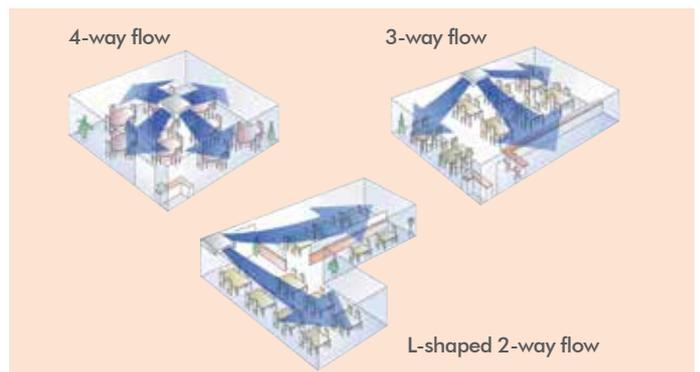
- Built-in electronic expansion valve eliminates the need for a BEV unit, which improves flexibility of installation.



- With adoption of the individual flap control, airflow direction adjustment can be individually set for each air outlet. Five directions of airflow and auto-swing can be selected with wired remote controller BRC1E62, which realises the optimum air distribution.



- 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 BRC1E62.
- 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.

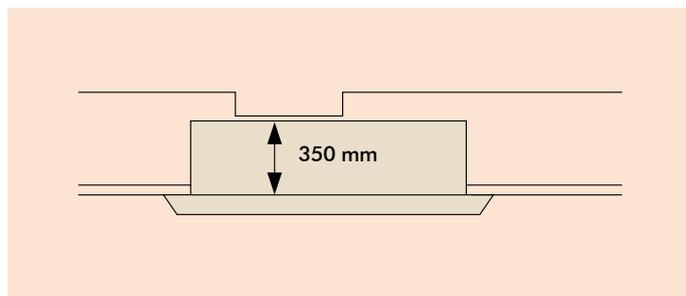


# Ceiling Mounted Cassette (Double Flow) Type

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

**FXCQ20M/FXCQ25M/FXCQ32M/  
FXCQ40M/FXCQ50M/FXCQ63M  
FXCQ80M/FXCQ125M**

- 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.



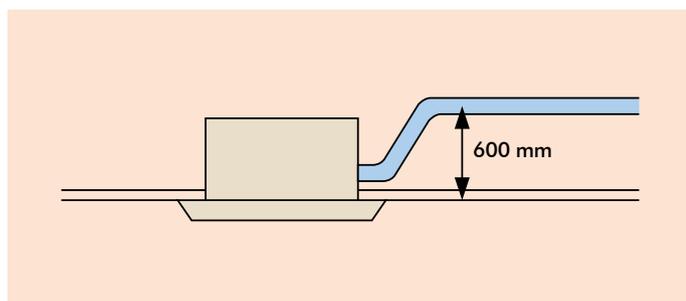
(When a high-efficiency filter is attached, the unit's height is 400 mm.)

- Low operation sound level

(220 V) (dB(A))

FXCQ-M	20	25/32	40/50	63	80	125
Sound level (H/L)	32/27	34/28	34/29	37/32	39/34	44/38

- Designed with higher airflow suitable for high ceiling application up to 3 metres.
- Providing two different settings of standard and ceiling soiling prevention, the auto swing mechanism achieves 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 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.

# INDOOR UNIT LINEUP

## Ceiling Mounted Cassette Corner Type

**Slim design for flexible installation**

**FXEQ20AV / FXEQ20AV  
FXEQ32AV / FXEQ40AV  
FXEQ50AV / FXEQ63AV**



- Single-flow type allows effective air discharge from corner or from drop-ceiling.
- Dual-Flap for better air flow coverage
- United Grill design - Flap closes completely when AC is not in use
- 3D airflow - Circulates a cloud of air right to the corners of even large spaces
- Easy maintenance - Screw-less design makes panel detachment faster and easier servicing



# Slim Ceiling Mounted Duct Type

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

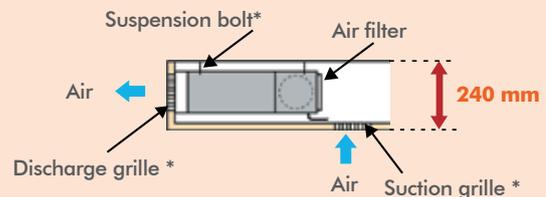
**FXDQ40NB/FXDQ50NB/FXDQ63NB**



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



\*1,100 mm in width for the FXDQ63NB model.



\* To be obtained locally

- 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-PB models. 15 Pa-44 Pa/factory set: 15 Pa for FXDQ-NB models.
- FXDQ-PB and FXDQ-NB models are available in two types to suit different installation conditions.  
FXDQ-PB/NBVE: with a drain pump (750 mm lift) as a standard accessory

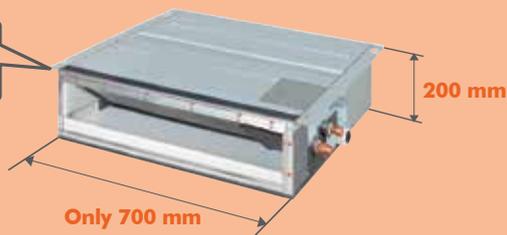


**Suited to use in drop-ceilings!**

**FXDQ20PB/FXDQ25PB/FXDQ32PB**

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

Great for hotel use!

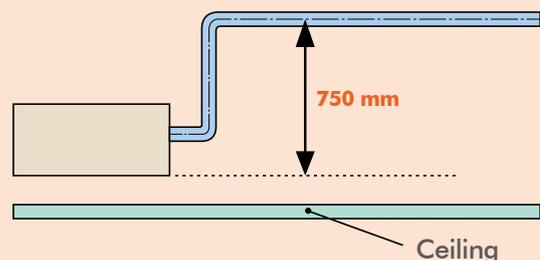


- Control of the airflow rate has been improved from 2-step to 3-step control.
- Low operation sound level

FXDQ-PB/NB	20/25/32	40	50	63
Sound level (HH/H/L)	33/31/29	34/32/30	35/33/31	36/34/32

\* 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).

\* Values are based on the following conditions: FXDQ-PB: external static pressure of 10 Pa; FXDQ-NB: external static pressure of 15 Pa.



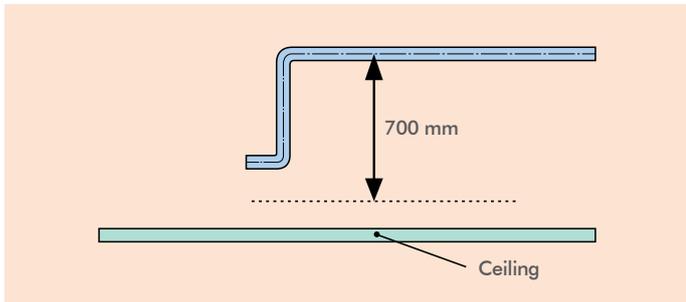
# INDOOR UNIT LINEUP

## Ceiling Mounted Duct Type

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

**FXMQ20P/FXMQ25P/FXMQ32P  
FXMQ40P/FXMQ50P/FXMQ63P  
FXMQ80P/FXMQ100P/FXMQ125P  
FXMQ140P**

- A DC fan motor increases the external static pressure capacity range to include middle to high static pressures, increasing design flexibility.
  - 30 Pa–100 Pa for FXMQ20P-32P
  - 30 Pa–160 Pa for FXMQ40P
  - 50 Pa–200 Pa for FXMQ50P-125P
  - 50 Pa–140 Pa for FXMQ140P
- All models are only 300 mm in height, an improvement over the 390 mm height of conventional models. The weight of the FXMQ40P has been reduced from 44 kg to 28 kg.
- Drain pump is equipped as standard accessory with 700 mm lift.

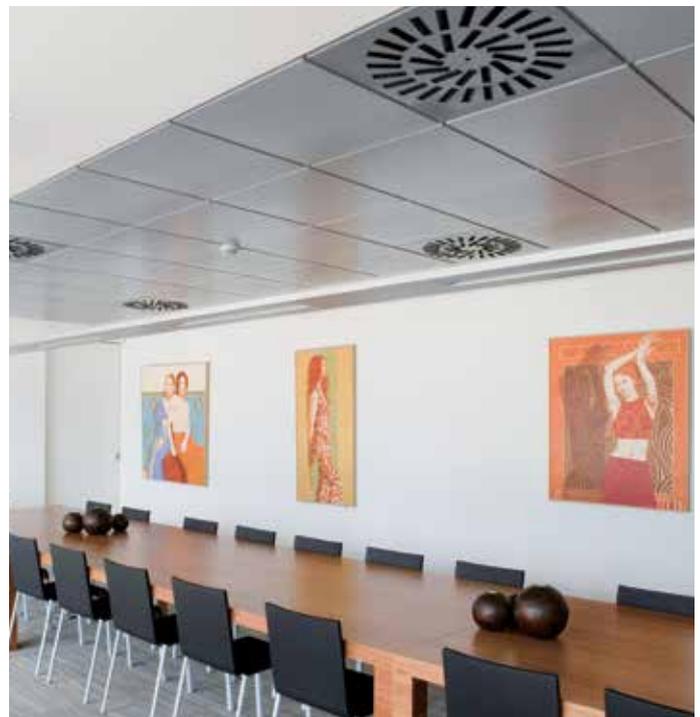


- Control of the airflow rate has been improved from 2-step to 3-step control.
- Low operation sound level

FXMQ-P	20/25	32	40	50	63	80/100	125	140
Sound level (HH/H/L)	33/31/29	34/32/30	39/37/35	41/39/37	42/40/38	43/41/39	44/42/40	46/45/43

(dB(A))

- **Energy-efficient**
  - The adopted DC fan motor is much more efficient than the conventional AC motor, yielding an approximate 20% decrease in energy consumption. (FXMQ125P)
- **Improved ease of installation**
  - Airflow rate can be controlled using a remote controller during test operation. Conventional model, the airflow rate was controlled from the PC board. It is automatically adjusted to the range between approximately 10% of the rated HH tap airflow for FXMQ20P-125P.



- **Improved ease of maintenance**
  - The drain pan can be detached for easy cleaning. 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.

### FXMQ200MA/FXMQ250MA



**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.

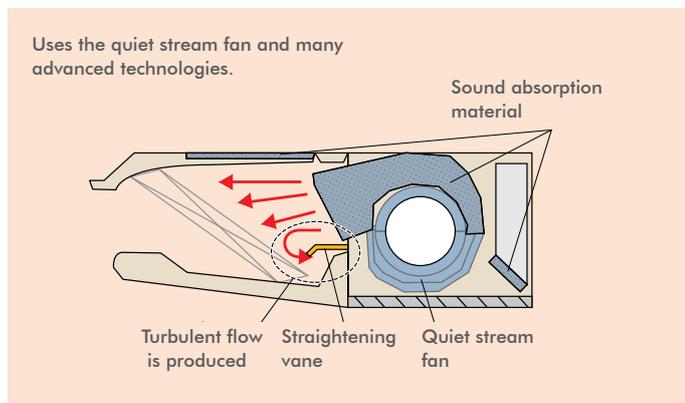
# Ceiling Suspended Type

## Slim body with quiet and wide airflow

**FXHQ32MA/FXHQ63MA  
FXHQ100MA**



- Adoption of quiet stream fan



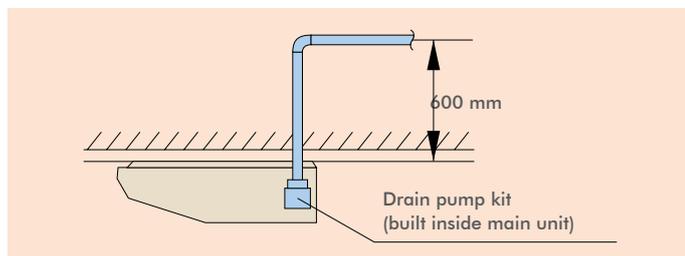
- Low operation sound level

(dB(A))

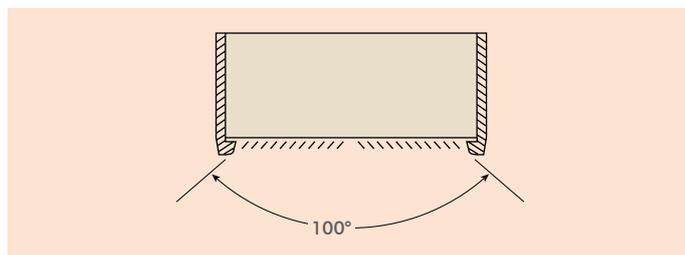
FXHQ-MA	32	63	100
Sound level (H/L)	36/31	39/34	45/37

- Installation is easy

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

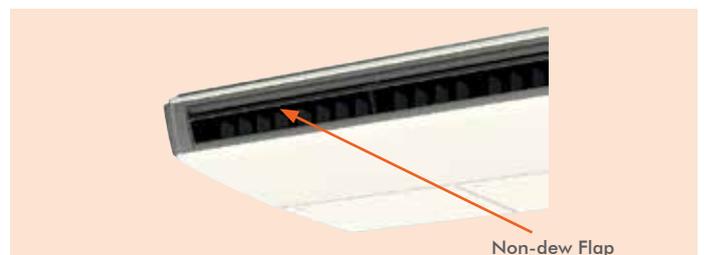


- Wide air discharge openings produce a spreading 100° airflow.



- Easy maintenance

- Non-dew Flap with no implanted bristles  
Bristle-free Flap minimises contamination and makes cleaning simpler.



- Easy-to-clean flat design

- Maintenance is easier because servicing 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>

# INDOOR UNIT LINEUP

## Wall Mounted Type

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

**FXAQ20P/FXAQ25P  
FXAQ32P/FXAQ40P  
FXAQ50P/FXAQ63P**

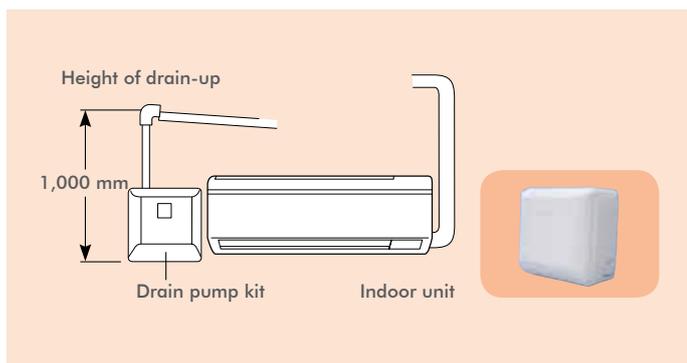


- Stylish flat panel design creates a graceful harmony that enhances any interior space.
- Flat panel can be cleaned with only the single pass of a cloth across their smooth surface. Flat panel can also be easily removed and washed for more thorough cleaning.
- Low operation sound level

FXAQ-P	20	25	32	40	50	63
Sound level (HH/H/L)	35/31	36/31	38/31	39/34	42/37	47/41

(dB(A))

- 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 and 70° for heating)
- 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.



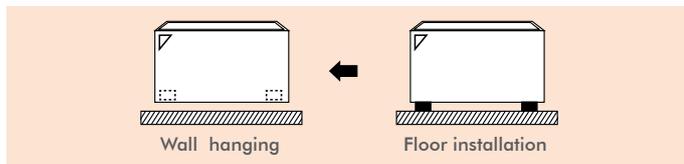
# Floor Standing Type

**Suitable for perimeter zone air-conditioning**

**FXLQ20MA/FXLQ25MA  
FXLQ32MA/FXLQ40MA  
FXLQ50MA/FXLQ63MA**

- Floor Standing types can be hung on the wall for easier floor 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>



# Concealed Floor Standing Type

**Designed to be concealed in the perimeter skirting-wall**

**FXNQ20MA/FXNQ25MA  
FXNQ32MA/FXNQ40MA  
FXNQ50MA/FXNQ63MA**

- 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>



# CONTROL SYSTEMS

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

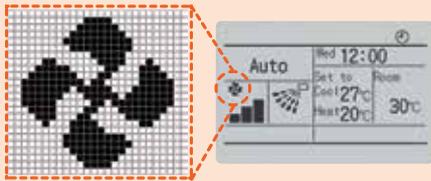
### Clear display

- **Dot matrix display**  
A combination of fine dots enables various icons. Large text display is easy to see.
- **Back-light display**  
Back-light display helps operating in dark rooms.

NEW



BRC1E62



### 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 just select the function from the menu list.
- **Guide on display**  
The display gives an explanation of each setting for easy operation.

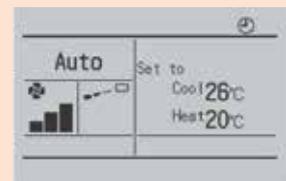


### Energy saving

- **Auto operation mode**  
Until now only the temperature for one point could be set, but now the new remote controller (BRC1E62) allows the setting of both Cooling and Heating, and with the fan operation, mid-range temperatures are comfortable and operation is more energy efficient.

NEW

2 setpoints  
Cooling / Heating



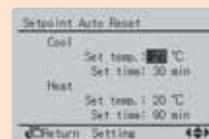
- **Setpoint range set**
  - Saves energy by limiting the min. and max. set temperature.
  - Avoids excessive cooling or heating.
  - This function is convenient when the remote controller is installed at a place where any number of people may operate it.

NEW



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

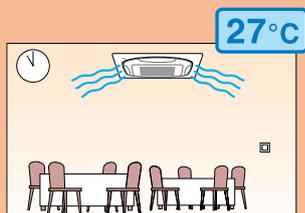
NEW



### Restaurant sample

#### Restaurant opened

Temperature is set to 27°C



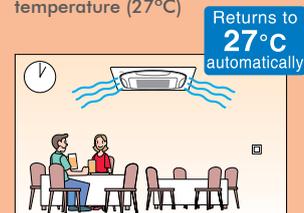
#### Full tables at lunchtime

Then is lowered to 24°C for crowded room



#### After 30 minutes\*

Automatically returns to preset temperature (27°C)



- 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.

## 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 turns OFF.

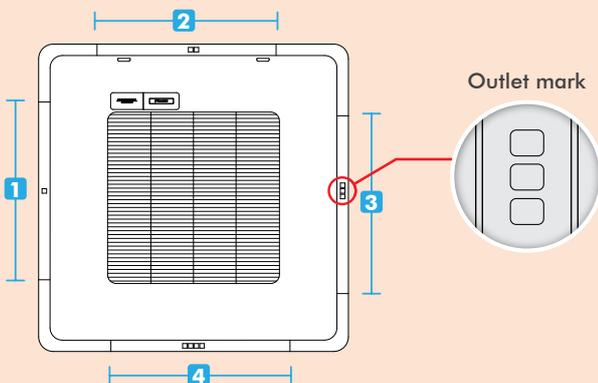
	SETBACK TEMPERATURE	RECOVERY DIFFERENTIAL
Cooling	33° - 37°C	-2° - -8°C
Heating	10° - 15°C	+2° - +8°C

- 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) NEW

Time	Act	Cool	Heat
8:30	ON	35°C	
10:00	OFF		
13:00	ON	35°C	
15:00	OFF		

## Comfort

- Individual airflow direction (\*1)  
Airflow direction of each of the four air outlets can be controlled individually. (Positions 0 to 4, Swing, and No individual setting are selectable.)



\*1 Only available for VRV 4-Way Flow Ceiling Suspended type FXUQ-A series  
\*2 Only available for VRV 4-Way Flow Ceiling Suspended type FXUQ-A series

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

1) 8:30 ON

The first period starts and the air-conditioner starts the cooling operation.



2) 10:00 OFF

In the second period, the classroom is unoccupied and the air-conditioner stops.



3) 13:00 ON

When the third period starts, operation starts again.



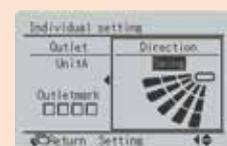
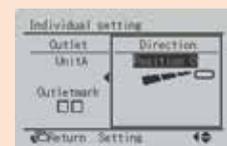
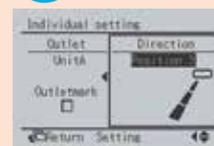
4) 15:00 OFF

After the third period, the classroom becomes vacant again and the air-conditioner stops.



- Auto airflow rate (\*2) NEW  
Airflow rate is automatically controlled in accordance with the difference between room temperature and set temperature.

NEW



# CONTROL SYSTEMS

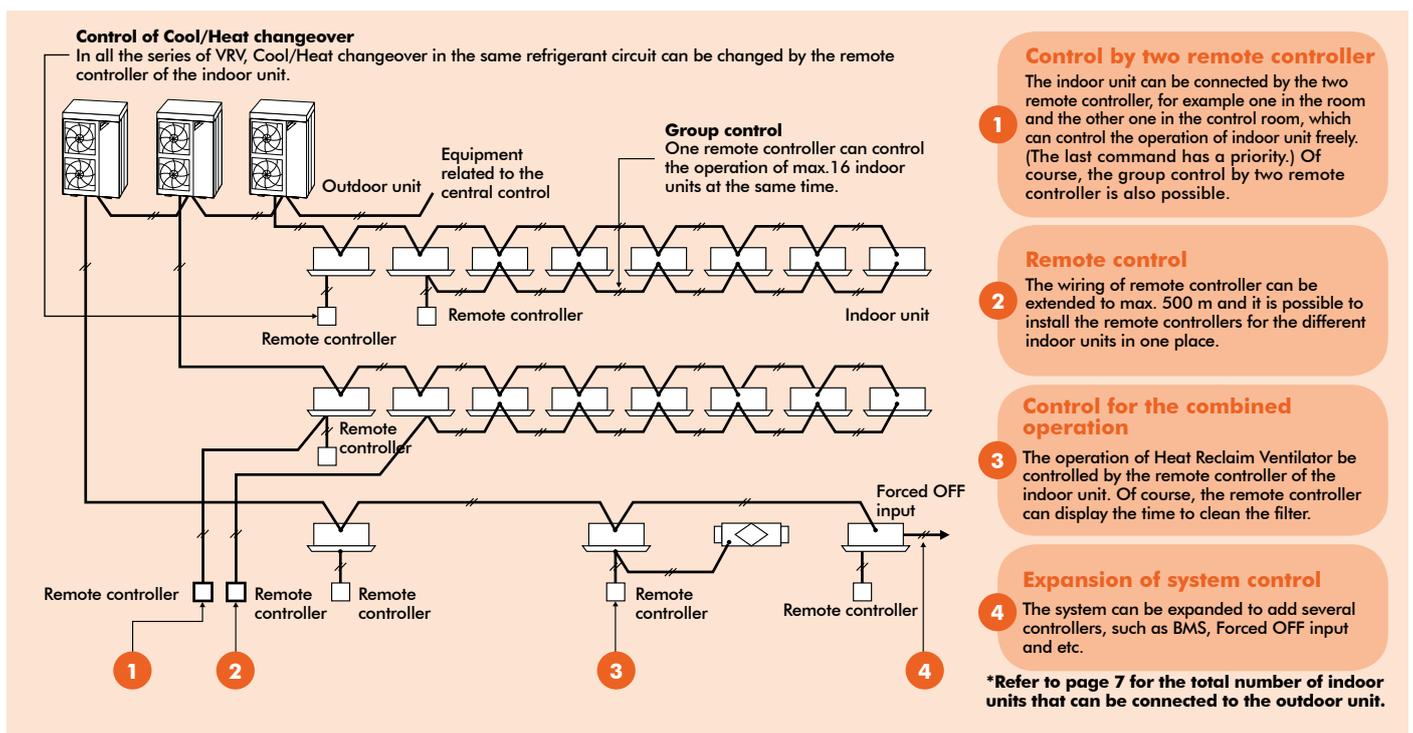
## Individual Control Systems for VRV Indoor Units

### Wireless remote controller (Option)

- Displays current airflow, swing, temperature, operating mode and timer settings.
  - Easier to read because LCD screen is larger.
  - Digital display lets you set temperature in 10C units.
  - Lets you individually programme by timer the respective times for operation start and stop within a maximum of 72 hours.
  - Equipped with a thermostat sensor in the remote controller that makes possible more comfortable room temperature control.
  - Enables you to select cool/heat/fan operation mode with the indoor remote controller of your choice without using the cool/heat selector.
  - Constantly monitors malfunctions in the system for a min. of 40 items, and is equipped with a 'self-diagnosis function' that lets you know by message immediately when a malfunction occurs.
  - Lets you carry out various field settings by remote controller.
  - Enables you to select the ventilation mode and the volume of the HRV.
  - The rubber switch and the oil-resisting resin casing have been adopted for durability.
  - When the auto-swing function is not available, the message, THIS FUNCTION IS NOT AVAILABLE is displayed when the wind direction adjustment button is pressed.



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



## Wireless remote controller (Option)

- The same operation modes and settings as with wired remote controllers are possible.
  - Individual airflow direction, auto airflow rate and sensing sensor control can be set only via wired remote controller BRC1E62. Cannot be set via other remote controllers.
- A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.
  - A signal receiver unit (installed type) for a Ceiling Mounted Cassette (Round Flow, Compact Multi Flow, Double Flow) type, Ceiling Suspended type and Wall Mounted type is mounted into the indoor unit.



Wireless remote controller



Signal receiver unit  
(Separate type)

- Wireless remote controller and signal receiver unit are sold as a set.



**Signal receiver unit can be installed on the panel**  
ex. Ceiling Mounted Cassette (Round Flow) type



Signal receiver unit  
(Installed type)

## Simplified remote controller (Option)

- 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.



Exposed type  
(BRC2C51)



Concealed type  
(For hotel use)  
(BRC3A61)



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

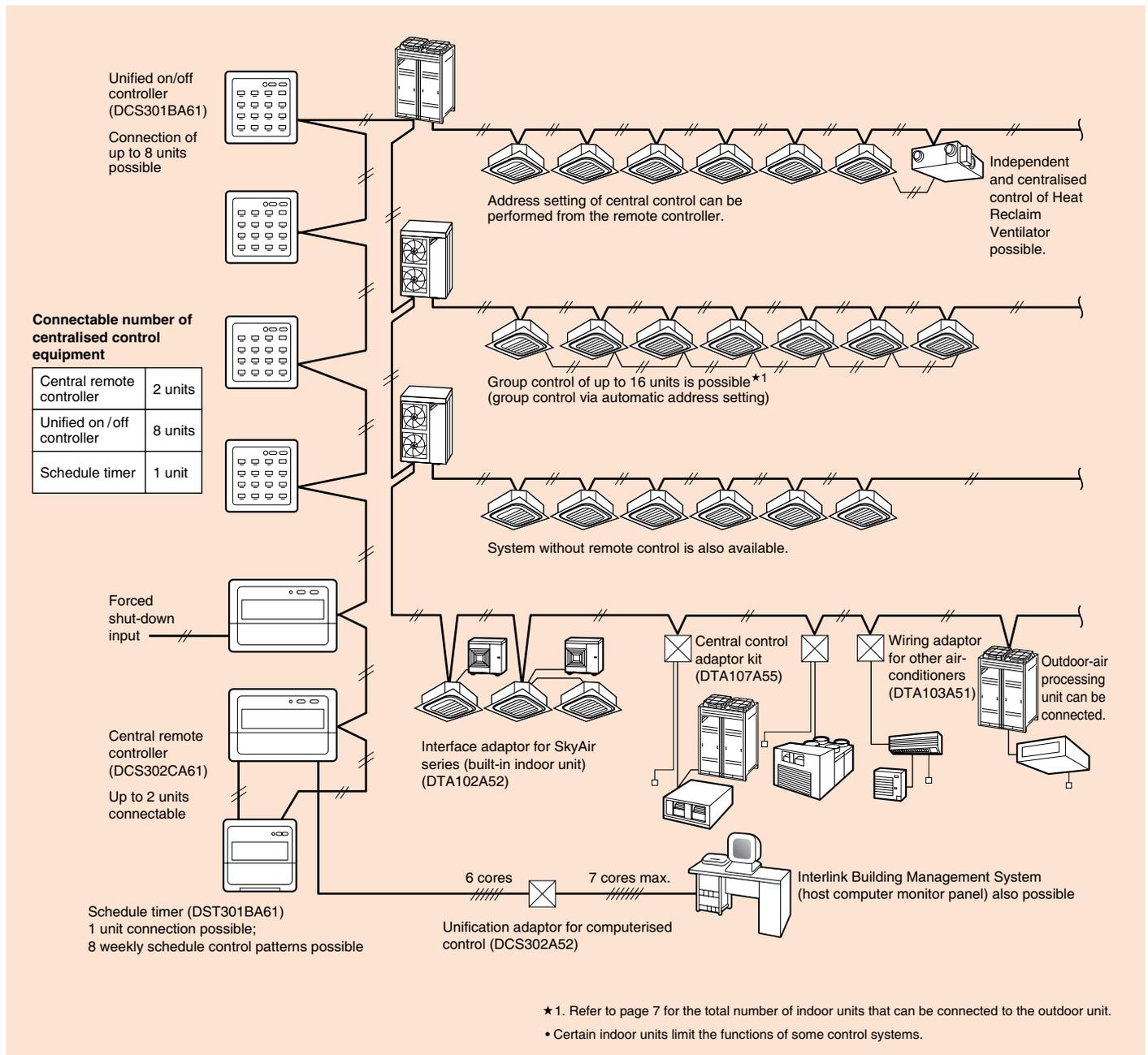
## Wide variation of remote controllers for indoor units

	FXFQ-LU FXFQ-S	FXZQ	FXCQ	FXUQ	FXEQ	FXDQ	FXMQ	FXHQ	FXAQ	FXL(N)Q
<b>Navigation remote controller</b> (Wired remote controller) (BRC1E62)	●	●	●	●	●	●	●	●	●	●
<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)						●	●			●

# CONTROL SYSTEMS

## Centralised control systems

- Up to 64 groups of indoor units (128 units) can be centrally controlled.
- Optional controllers for centralised control can be combined and optimised in accordance with building scale and purpose.
- System integration with various air-conditioning peripheral equipment, such as Heat Reclaim Ventilator is easy.
- Wiring can be run up to a total length of 2 km, and adapts easily to large-scale system expansion.



## Residential central remote controller\* (Option)

**Max. 16 groups of indoor units can be easily controlled with the large LCD panel.**

- Max. 16 groups (128 indoor units) controllable
- Backlight and large LCD panel for easy readability
- ON/OFF, temperature settings and scheduling can be controlled individually for indoor units.
- All indoor units can be turned on or off at once with "ALL" button.
- Each group has a dedicated button for convenience.
- Outside temperature display

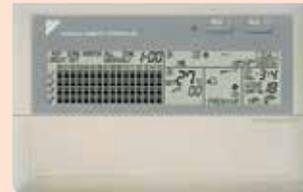


DCS303A51

## Central remote controller (Option)

**Max. 64 groups (zones) of indoor units can be controlled individually same as LCD Remote controller.**

- Max. 64 groups (128 indoor units) controllable
- Max. 128 groups (128 indoor units) are controllable by using 2 central remote controllers, which can be controlled from 2 different places.
- Zone control
- Malfunction code display
- Max. wiring length 1,000 m (Total: 2,000 m)
- Connectable with Unified ON/OFF controller, schedule timer and BMS system
- Airflow volume and direction can be controlled individually for indoor units in each group operation.
- Ventilation volume and mode can be controlled for Heat Reclaim Ventilator.
- Up to 4 ON/OFF pairs can be set per day by connecting a schedule timer for Heat Reclaim Ventilator.



DCS302CA61

## Unified ON/OFF controller (Option)

**Max. 16 groups of indoor units can be operated simultaneously/individually.**

- Max. 16 groups (128 indoor units) controllable
- 2 remote controllers can be used to control from 2 different places.
- Operating status indication (Normal operation, Alarm)
- Centralised control indication
- Max. wiring length 1,000 m (Total: 2,000 m)
- Compact size casing (Thickness: 16 mm)
- Connectable with Central Remote controller, Schedule timer and BMS system



DCS301BA61

## Schedule timer (Option)

**Max. 128 indoor units can be operated as programmed schedule.**

- Max. 128 indoor units controllable
- When used in combination with a central remote controller, a maximum of 8 weekly schedule patterns can be set, while the central controller can be used to select desired zones. Up to 2 ON/OFF pairs can be set per day.
- Max. 48 hours back up power supply
- Max. wiring length 1,000 m (Total: 2,000 m)
- Compact size casing (Thickness: 16 mm)
- Connectable with Central Remote controller, Unified ON/OFF controller and BMS system Ventilator.



DST301BA61

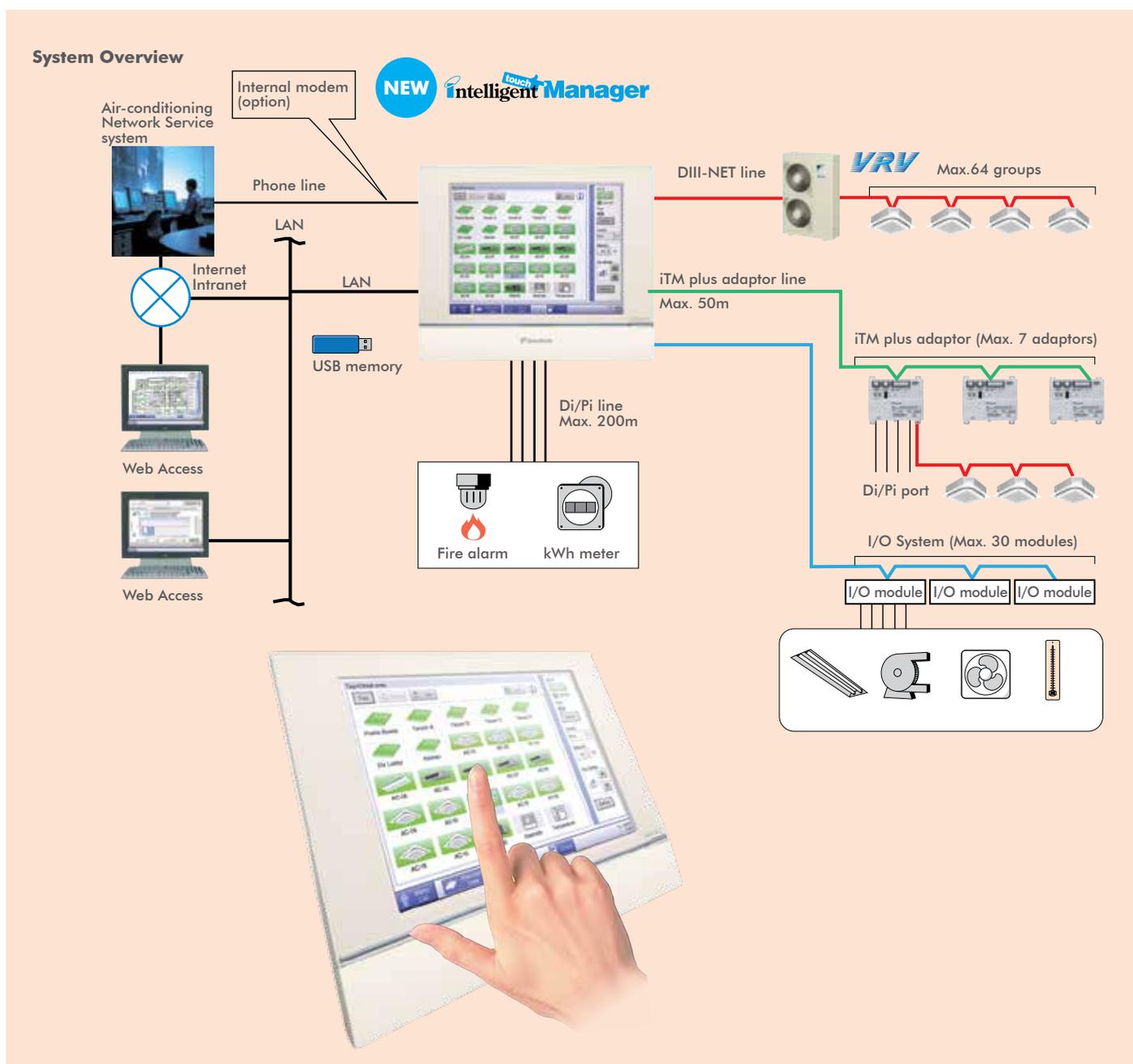
# CONTROL SYSTEMS



## One touch selection to total air comfort

Daikin proudly introduces its new intelligent Touch Manager, a VRV system controller featuring an array of simple, useful system management functions for added value.

Up to 2,560 groups (5,120 indoor units) can be controlled by one system



## Central control

- Handy area settings simplify detailed management of VRV.
- Display of floor plans enables a quick search of desired air-conditioning units.
- Operation history shows manner of control and origin in past operations of air-conditioning units. Further improving operating efficiency.



## Remote access

- Remote access with a PC allows total air-conditioning management using the same type of screens as those displayed in the intelligent Touch Manager.
- Authorised users can centrally control individual air-conditioning units from their own computers.

## Automatic control

- VRV systems are controlled automatically throughout the year by the schedule function.
- Interlocking VRV system and other equipment enables easy automation of building facilities operation.
- Setback adjusts temperature settings even when rooms are unoccupied.

## Energy management

- The Energy Navigator feature simplifies energy management by tracking energy consumption data and identifying inefficient operation.



## Troubleshooting

- Contact information of maintenance contractors can be registered and displayed.
- E-mails are sent automatically to alert of malfunctions and potential trouble.
- The intelligent Touch Manager can link to the Air-conditioning Network Service System for 24-hour monitoring of operating conditions and status.

## Scalability

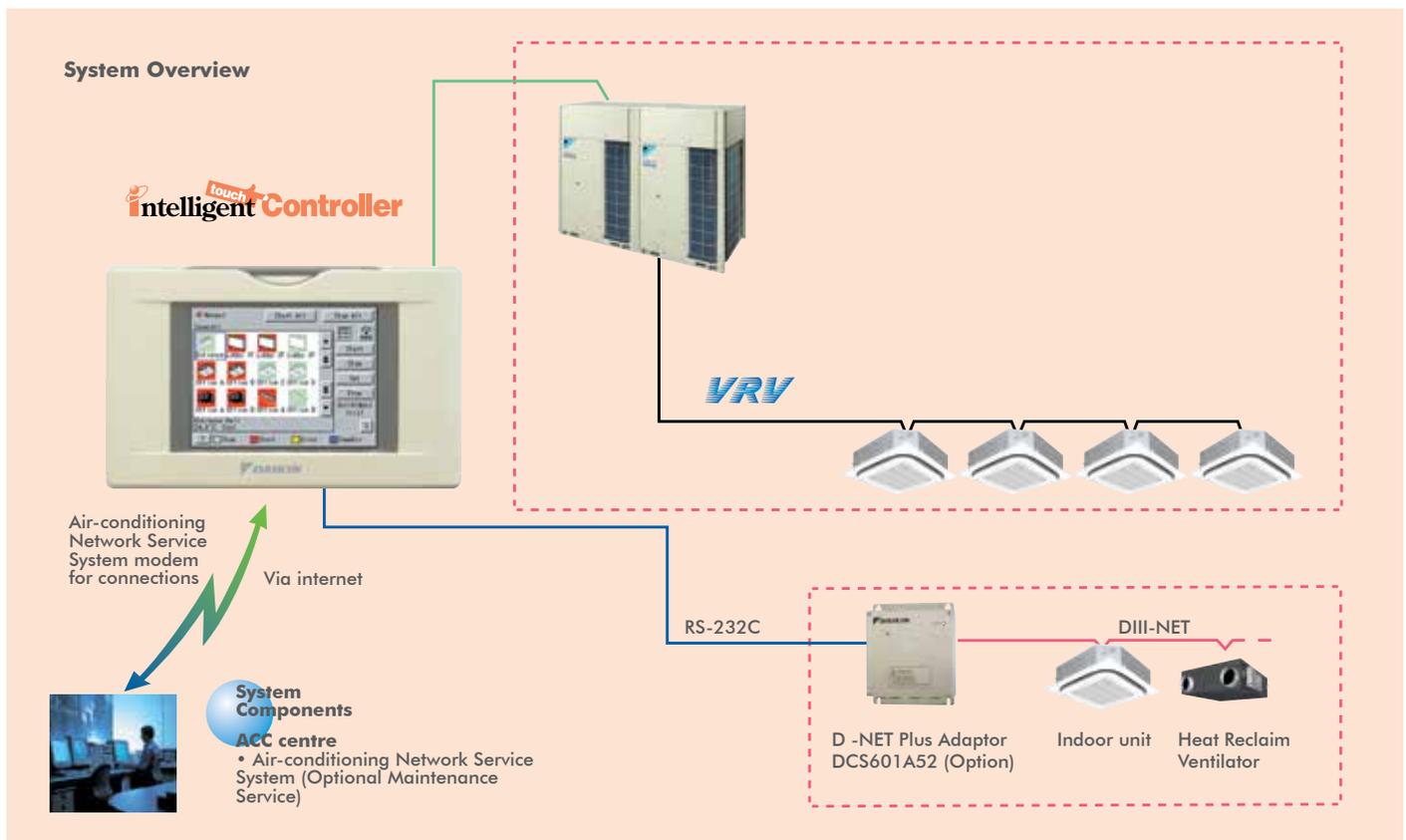
- A single intelligent Touch Manager can manage a small building or be expanded to handle medium- to large-sized buildings.

# CONTROL SYSTEMS

## Advanced control systems

### intelligent touch Controller

Communication functions in the user-friendly icon-based multilingual controller simplify centralised control of the VRV system.



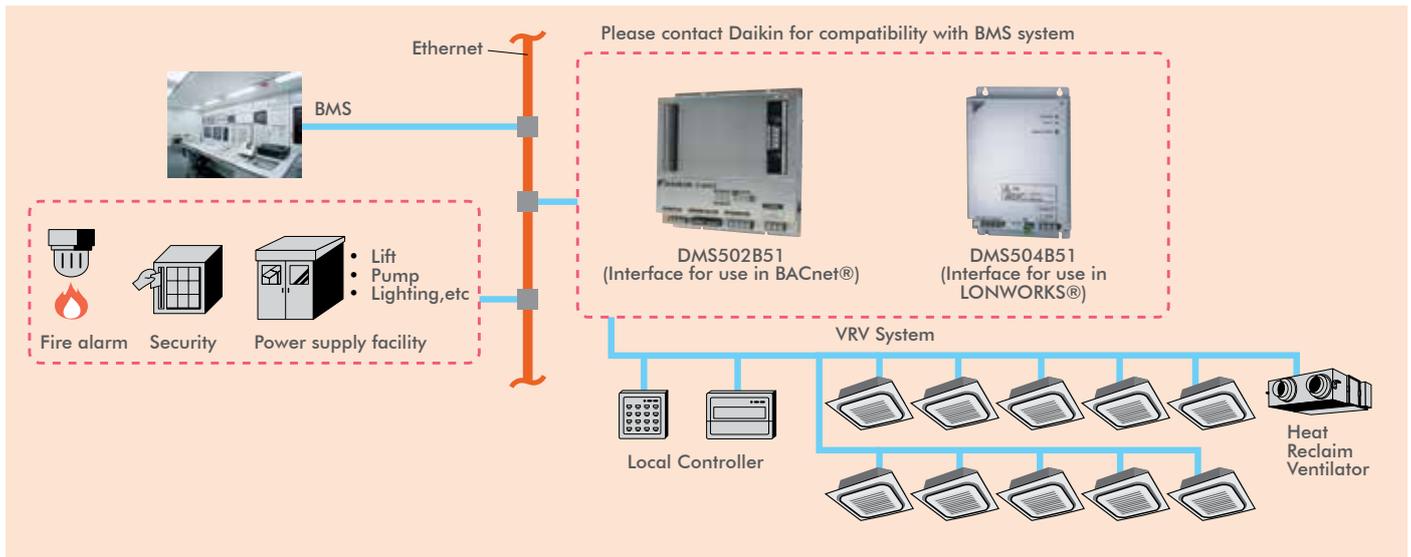
### Features

- Colour LCD touch panel icon display
- Small manageable size
- Simplified engineering
- Multi language (English, French, Italian, German, Spanish, Dutch, Portuguese, Chinese and Korean)
- Yearly schedule
- Auto heat/cool change-over
- Temperature limitation
- Enhanced history function
- Simple Interlock Function
- Built-in modem for connecting to Air-conditioning Network Service System (Option)
- Doubling of number of connectable indoor units by adding a DIII-NET Plus Adaptor (Option)
- Management of facilities/equipment other than A/C units (By adding Dio unit or Di unit)



## Interface for BACnet® and LONWORKS®

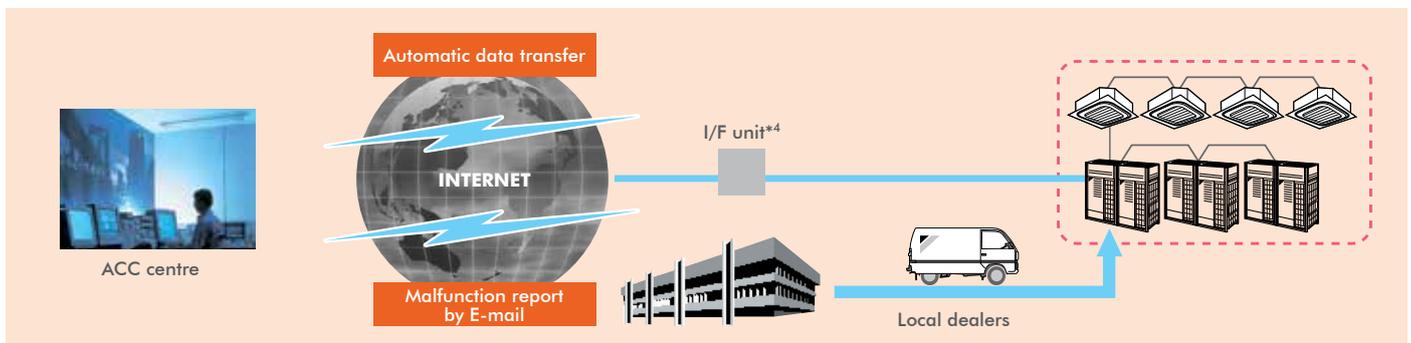
Integrated control systems that recognise the trend of open control systems



- Compatibility with BMS enhanced by utilising the international communication standards, BACnet® or LONWORKS®.
  - BTL Certification
  - PPD data (Optional Di board is required.)
  - ISO 16484-5 (Does not support IEEE 802.3 protocol for BACnet®)
  - Up to 40 outdoor units and 256 indoor unit groups on one gateway (optional adaptor)
- DMS502B51 Interface for use in BACnet®
- Support for Heat Reclaim Ventilator VAM series
  - Selectable temperature unit

## Air-conditioning Network Service System

Maintenance services that boost profits and customer satisfaction



- 24 hour on-line diagnostic system
- Energy saving and extension of air-conditioner's operating life
- Maintenance management via A/C network service system reports
- Reliable service at shortest lead time

\*1 Model name varies upon the system size.

\*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.

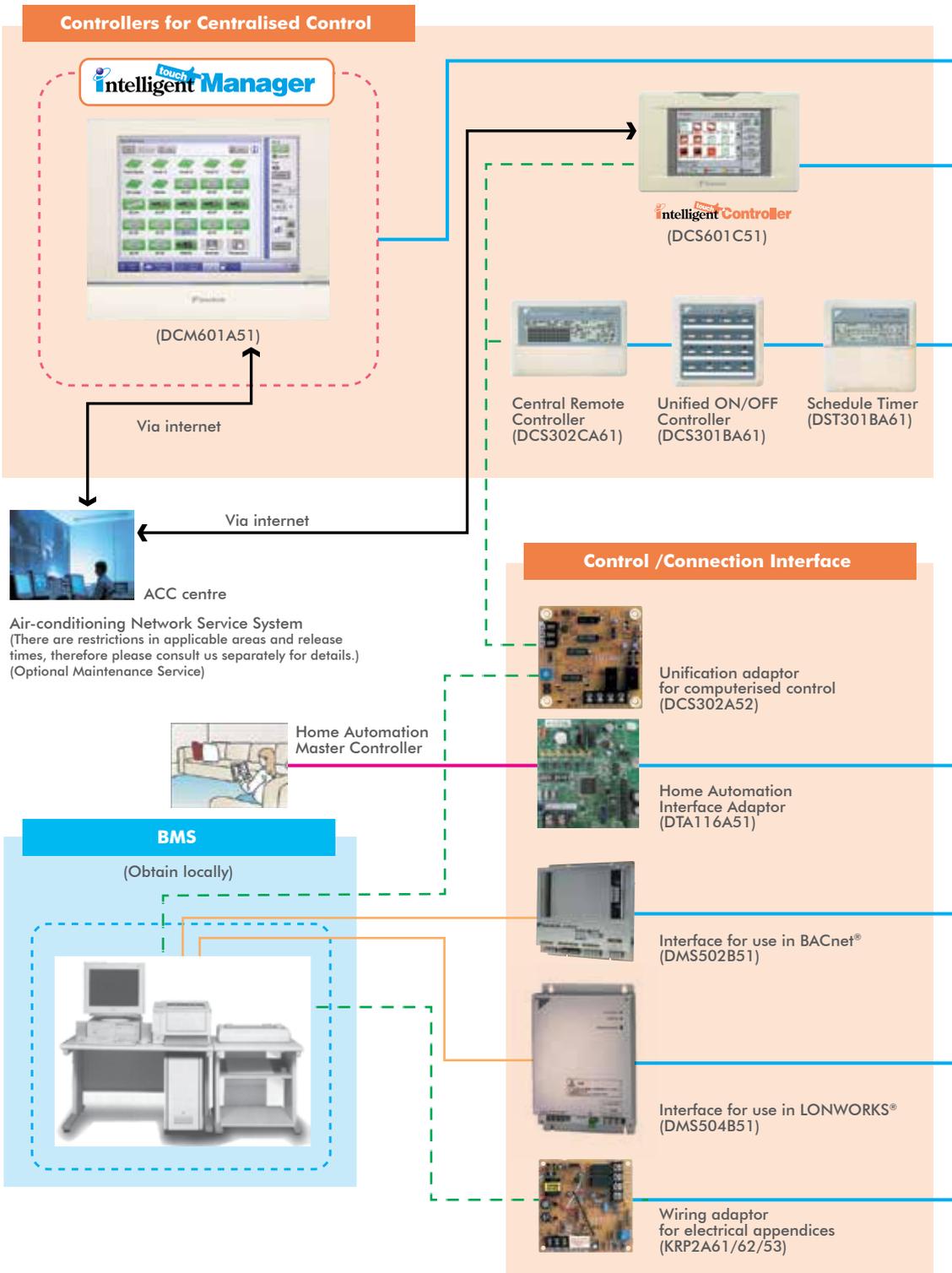
\*4 For an I/F unit, one of the following can be selected: Local Controller, intelligent touch Controller, or intelligent touch Manager.

\*5 Refer to the Options page for the name of each model.

# CONTROL SYSTEMS

## Advanced control systems

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



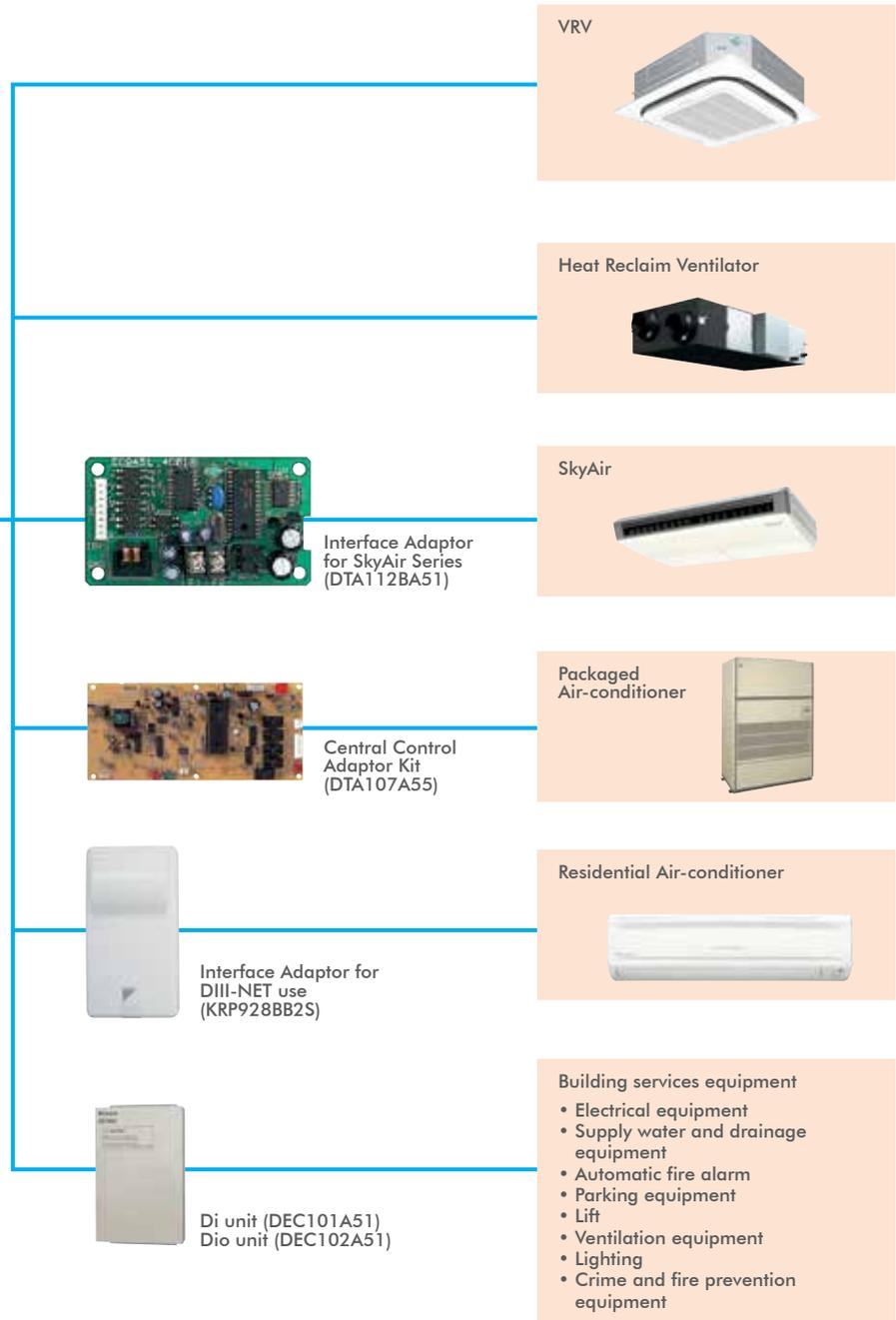
- DIII-NET Line
- BACnet®/Ethernet or LONWORKS® Network Communication Line
- - - Contact Signal Line
- RS485 Modbus Line

**The DIII-NET system provides for:**

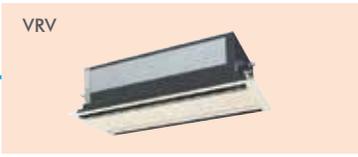
- Close control and monitoring by integrating a wide variety of air-conditioners in the entire building.
- Saving the in-building cabling using non-polar, two-wire cables. Easier wiring work with tremendously fewer wiring errors.
- Additional setups readily up and running. An extendable cabling up to 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.

**DIII-NET**  
(High Speed Multiple Transmission)

DIII-NET, Daikin's unique high speed multiple transmission system, links air-conditioners and various other building equipment in accordance with applications, scale and conditions and transmits vast amounts of information between them.



- Building services equipment
- Electrical equipment
  - Supply water and drainage equipment
  - Automatic fire alarm
  - Parking equipment
  - Lift
  - Ventilation equipment
  - Lighting
  - Crime and fire prevention equipment



**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.

# SPECIFICATIONS

## Indoor Units



### CEILING MOUNTED CASSETTE (Round Flow) TYPE

MODEL		FXFQ25LV16	FXFQ32LV16	FXFQ40LV16	FXFQ50LV16	FXFQ63LV16	FXFQ80LV16	FXFQ100LV16	FXFQ125LV16	
Power supply		1-phase, 220-240 V, 50 Hz								
Cooling capacity	kcal/h	2400	3100	3900	4800	6100	7700	9600	12000	
	Btu/h	9600	12300	15400	19100	24200	30700	38200	47800	
	kW	2.8	3.6	4.5	5.6	7.1	9	11.2	14	
Heating capacity	kcal/h	2800	3400	4300	5400	6900	8600	10800	13800	
	Btu/h	10900	13600	17100	21500	27300	34100	42700	54600	
	kW	3.2	4	5	6.3	8	10	12.5	16	
Casing		Galvanised steel plate								
Airflow rate (HH/H/L)	m <sup>3</sup> /min	13/11.5/10	13/11.5/10	15/13/11	16/13.5/11	19/16.5/13.5	21/18/15	32/26/20	33/28/22.5	
	cfm	459/406/353	459/406/353	530/459/388	565/477/388	671/583/477	742/636/530	1,130/918/706	1,165/989/794	
Sound level (HH/H/L)	dB(A)	30/28.5/27	30/28.5/27	31/29/27	32/29.5/27	34/31/28	36/33.5/31	43/37.5/32	44/39/34	
Dimensions (H×W×D)	mm	246X 840X 840						288X 840X 840		
Machine weight	kg	19.5			22			25		
Piping connections	Liquid (Flare)	Ø6.4						Ø9.5		
	Gas (Flare)	Ø12.7						Ø15.9		
	Drain	VP25 (External Dia, 32/Internal Dia, 25)								
Panel (Option)	Model	BYCP125K-W1								
	Colour	Fresh white								
	Dimensions (H×W×D)	50X 950X 950								
	Weight	5.5								



### CEILING MOUNTED CASSETTE (Round Flow with Sensing) TYPE (Optional)

MODEL		FXFQ25SVM	FXFQ32SVM	FXFQ40SVM	FXFQ50SVM	FXFQ63SVM	FXFQ80SVM	FXFQ100SVM	FXFQ125SVM	
Power supply		1-phase, 220 - 240 V/220-230 V, 50/60 Hz								
Cooling capacity	kcal/h	2400	3100	3900	4800	6100	7700	9600	12000	
	Btu/h	9600	12300	15400	19100	24200	30700	38200	47800	
	kW	2.8	3.6	4.5	5.6	7.1	9	11.2	14	
Heating capacity	kcal/h	2800	3400	4300	5400	6900	8600	10800	13800	
	Btu/h	10900	13600	17100	21500	27300	34100	42700	54600	
	kW	3.2	4	5	6.3	8	10	12.5	16	
Casing		Galvanised steel plate								
Airflow rate (H/M/L)	m <sup>3</sup> /min	12.5/11.5/10.0	12.5/11.5/10.0	14.5/13.0/11.0	22.0/17.5/13.5	23.5/18.5/13.5	23.5/19.5/15.0	33.0/26.0/19.0	34.5/27.5/21.0	
	cfm	441/406/353	441/406/353	512/459/388	777/618/477	830/653/477	830/688/530	1,165/918/671	1,218/971/741	
Sound level (H/M/L)	dB(A)	30/28.5/27	30/28.5/27	31/29/27	36/32/28	38/33/28	38/35/31	44/38/32	45/40/35	
Dimensions (H×W×D)	mm	246×840×840						288×840×840		
Machine weight	kg	19			23			26		
Piping connections	Liquid (Flare)	Ø6.4						Ø9.5		
	Gas (Flare)	Ø12.7						Ø15.9		
	Drain	I.D.Ø25×O.D.Ø32(VP25)								
Panel (Option)	Model	BYCQ125B-W1								
	Colour	Fresh white								
	Dimensions (H×W×D)	50×950×950								
	Weight	5.5								

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
  - Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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.
  - 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 (Compact Multi-Flow) TYPE

MODEL		FXZQ20MVE	FXZQ25MVE	FXZQ32MVE	FXZQ40MVE	FXZQ50MVE
Power supply		1-phase, 220-240 V/220 V, 50 Hz				
Cooling capacity	kcal/h	1900	2400	3100	3900	4800
	Btu/h	7500	9600	12300	15400	19100
	kW	2.2	2.8	3.6	4.5	5.6
Heating capacity	kcal/h	2200	2800	3400	4300	5400
	Btu/h	8500	10900	13600	17100	21500
	kW	2.5	3.2	4	5	6.3
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	30/25		32/26	36/28	41/33
Dimensions (H×W×D)		mm 286×575×575				
Machine weight		kg 18				
Piping connections	Liquid (Flare)	mm Ø6.4				
	Gas (Flare)	mm Ø12.7				
	Drain	VP20 (External Dia, 26/Internal Dia, 20)				
Panel (Option)	Model	BYFQ60B8W1				
	Colour	White (6.5Y9.5/0.5)				
	Dimensions (H×W×D)	mm 55×700×700				
	Weight	kg 2.7				



## 4-WAY FLOW CEILING SUSPENDED TYPE

MODEL		FXUQ71AVEB	FXUQ100AVEB
Power supply		1-phase, 220-240 V/220-230 V, 50 Hz	
Cooling capacity	kcal/h	6900	9600
	Btu/h	27300	38200
	kW	8	11.2
Heating capacity	kcal/h	7700	10800
	Btu/h	30700	42700
	kW	9	12.5
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 (H×W×D)		mm 198×950×950	
Machine weight		kg 26	27
Piping connections	Liquid (Flare)	mm Ø9.5	
	Gas (Flare)	mm Ø15.9	
	Drain	VP20 (External Dia, 26/Internal Dia, 20)	

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
  - Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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.
  - 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.

# SPECIFICATIONS

## Indoor Units



### CEILING MOUNTED CASSETTE (Double Flow) TYPE

MODEL		FXCQ20MVE	FXCQ25MVE	FXCQ32MVE	FXCQ40MVE	FXCQ50MVE	FXCQ63MVE	FXCQ80MVE	FXCQ125MVE	
Power supply		1-phase, 220-240 V/220 V, 50 Hz								
Cooling capacity	kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	7,700	12,000	
	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	
Heating capacity	kcal/h	2,200	2,800	3,400	4,300	5,400	6,900	8,600	13,800	
	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100	54,600	
	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0	
Casing		Galvanised steel plate								
Airflow rate (HH/M/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	
Dimensions (H×W×D)		mm	305×775×600	305×775×600	305×775×600	305×990×600	305×990×600	305×1,175×600	305×1,665×600	305×1,665×600
Machine weight		kg	26.0	26.0	26.0	31.0	32.0	35.0	47.0	48.0
Piping connections	Liquid (Flare)	mm	Ø6.4	Ø6.4	Ø6.4	Ø6.4	Ø6.4	Ø9.5	Ø9.5	Ø9.5
	Gas (Flare)	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.9	Ø15.9	Ø15.9
	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 (H×W×D)	mm	53×1,030×680	53×1,030×680	53×1,030×680	53×1,245×680	53×1,245×680	53×1,430×680	53×1,920×680	53×1,920×680
	Weight	kg	8.0	8.0	8.0	8.5	8.5	9.5	12.0	12.0



### CEILING MOUNTED CASSETTE CORNER TYPE

MODEL		FXEQ20AV36	FXEQ25AV36	FXEQ32AV36	FXEQ40AV36	FXEQ50AV36	FXEQ63AV36		
Power supply		1-phase, 230V, 50 Hz							
Cooling Capacity	kcal/h	1,900	2,400	3,100	3,900	4,800	6,100		
	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		
Heating capacity	kcal/h	2,200	2,800	3,400	4,300	5,400	6,900		
	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300		
	kW	2.5	3.2	4.0	5.0	6.3	8.0		
Casing/Colour		Galvanised steel plate							
Dimensions (HxWxD)		mm				200x840x470		200x1240x470	
Airflow Rate (H/HM/M/ML/L)	Cooling	m <sup>3</sup> /min	6.0/5.4/4.9/4.4/4.4	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	15.0/13.6/12.2/11.4/9.8	
		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	
Piping connections	Liquid Pipes	mm	6.4 (Flare Connection)	6.4 (Flare Connection)	6.4 (Flare Connection)	6.4 (Flare Connection)	6.4 (Flare Connection)	9.5 (Flare Connection)	
	Gas Pipes	mm	12.7 (Flare Connection)	12.7 (Flare Connection)	12.7 (Flare Connection)	12.7 (Flare Connection)	12.7 (Flare Connection)	15.9 (Flare Connection)	
	Drain Pipe	mm	PVC 26 (External dia. 26) (Internal dia. 20)						
Mass		Kg	17	17	17	18	23	23	
Sound Pressure Level (H/HM/M/ML/L)	Cooling	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	
Decoration Panel (Options)	Model	BYEP40AW16		BYEP40AW16		BYEP40AW16		BYEP63AW16	
	Panel Colour	Fresh White							
	Dimensions (HxWxD)	mm				80x950x950		80x1350x550	
	Air Filter	Resin net (with mould resistance)							
	Mass	Kg				8		10	

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.
  - Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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.
  - Sound level: (FXCQ-M) Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  - (FXEQ-AV) 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.



## SLIM CEILING MOUNTED DUCT TYPE (700 mm width type)

MODEL	with drain pump	FXDQ20PBVE	FXDQ25PBVE	FXDQ32PBVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz		
Cooling capacity	kcal/h	1900	2400	3100
	Btu/h	7500	9600	12300
	kW	2.2	2.8	3.6
Heating capacity	kcal/h	2200	2800	3400
	Btu/h	8500	10900	13600
	kW	2.5	3.2	4
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
	cfm	282/254/226	282/254/226	282/254/226
External static pressure	Pa	30-10 *2		
Sound level (HH/H/L)*1*3	dB(A)	33/31/29		
Dimensions (H×W×D)	mm	200×700×620		
Machine weight	kg	23		
Piping connections	Liquid (Flare)	Ø6.4		
	Gas (Flare)	Ø12.7		
	Drain	VP20 (External Dia, 26/Internal Dia, 20)		



## SLIM CEILING MOUNTED DUCT TYPE (900/1,100 mm width type)

MODEL	with drain pump	FXDQ40NBVE	FXDQ50NBVE	FXDQ63NBVE
Power supply		1-phase, 220-240 V/220 V, 50 Hz		
Cooling capacity	kcal/h	3900	4800	6100
	Btu/h	15400	19100	24200
	kW	4.5	5.6	7.1
Heating capacity	kcal/h	4300	5400	6900
	Btu/h	17100	21500	27300
	kW	5	6.3	8
Casing		Galvanised steel plate		
Airflow rate (HH/H/L)	m <sup>3</sup> /min	10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
	cfm	371/335/300	441/388/353	583/512/459
External static pressure	Pa	44-15*2		
Sound level (HH/H/L)*1*3	dB(A)	34/32/30		
Dimensions (H×W×D)	mm	200×900×620		
Machine weight	kg	27		
Piping connections	Liquid (Flare)	Ø6.4		
	Gas (Flare)	Ø12.7		
	Drain	VP20 (External Dia, 26/Internal Dia, 20)		

- Cooling: Indoor temp.: 27 DB, 19 WB, Outdoor temp.: 35 DB, 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.
- Heating: Indoor temp.: 20 DB, Outdoor temp.: 7 DB, 6 WB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- 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-PB: external static pressure of 10 Pa; FXDQ-NB: 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-PB models and 15 Pa for FXDQ-NB 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

## Indoor Units



### CEILING MOUNTED DUCT TYPE

MODEL		FXMQ20PVE	FXMQ25PVE	FXMQ32PVE	FXMQ40PVE	FXMQ50PVE
Power supply		1-phase, 220-240 V/220 V, 50 Hz				
Cooling capacity	kcal/h	1900	2400	3100	3900	4800
	Btu/h	7500	9600	12300	15400	19100
	kW	2.2	2.8	3.6	4.5	5.6
Heating capacity	kcal/h	2200	2800	3400	4300	5400
	Btu/h	8500	10900	13600	17100	21500
	kW	2.5	3.2	4	5	6.3
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) <sup>2</sup>	30-100 (50) <sup>2</sup>	30-100 (50) <sup>2</sup>	30-160 (100) <sup>2</sup>	50-200 (100) <sup>2</sup>
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	300X550X700	300X550X700	300X550X700	300X700X700	300X1,000X700
Machine weight	kg	25	25	25	28	36
Piping connections	Liquid (Flare)	Ø6.4	Ø6.4	Ø6.4	Ø6.4	Ø6.4
	Gas (Flare)	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7
	Drain		VP25 (External Dia, 32/Internal Dia, 25)			

MODEL		FXMQ63PVE	FXMQ80PVE	FXMQ100PVE	FXMQ125PVE	FXMQ140PVE
Power supply		1-phase, 220-240 V/220 V, 50 Hz				
Cooling capacity	kcal/h	6,100	7,700	9,600	12,000	13,800
	Btu/h	24,200	30,700	38,200	47,800	54,600
	kW	7.1	9.0	11.2	14.0	16.0
Heating capacity	kcal/h	6,900	8,600	10,800	13,800	15,500
	Btu/h	27,300	34,100	42,700	54,600	61,400
	kW	8.0	10.0	12.5	16.0	18.0
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) <sup>2</sup>	50-200 (100) <sup>2</sup>	50-200 (100) <sup>2</sup>	50-200 (100) <sup>2</sup>	50-140 (100) <sup>2</sup>
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	300X1,000X700	300X1,000X700	300X1,400X700	300X1,400X700	300X1,400X700
Machine weight	kg	36	36	46	46	47
Piping connections	Liquid (Flare)	Ø9.5	Ø9.5	Ø9.5	Ø9.5	Ø9.5
	Gas (Flare)	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9
	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.

•Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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.

•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 (FXMQ20-32P), thirteen (FXMQ40P), fourteen (FXMQ50-125P) or ten (FXMQ140P) levels of control. These values indicate the lowest and highest possible static pressures. The standard static pressure is 50 Pa for FXMQ20-32P and 100 Pa for FXMQ40-140P.



## CEILING MOUNTED DUCT TYPE

MODEL		FXMQ200MVE	FXMQ200MVE
Power supply		1-phase, 220 - 240 V/220 V, 50 Hz	
Cooling capacity	kcal/h	19300	24100
	Btu/h	76400	95500
	kW	22.4	28
Heating capacity	kcal/h	21500	27100
	Btu/h	85300	107500
	kW	25	31.5
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
Sound level(H/L)	220 V	dB(A)	48/45
Dimensions (H×W×D)		mm	470X1,380X1,100
Machine weight		kg	137
Piping connections	Liquid (Flare)	mm	Ø9.5
	Gas (Flare)		Ø19.1
	Drain		Ø22.2
PS1B			



## CEILING SUSPENDED TYPE

MODEL		FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE
Power supply		1-phase, 220-240 V/220 V, 50 Hz		
Cooling capacity	kcal/h	3100	6100	9600
	Btu/h	12300	24200	38200
	kW	3.6	7.1	11.2
Heating capacity	kcal/h	3400	6900	10800
	Btu/h	13600	27300	42700
	kW	4	8	12.5
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
Dimensions (H×W×D)		mm	195×960×680	195×1,160×680
Machine weight		kg	24	28
Piping connections	Liquid (Flare)	mm	Ø6.4	Ø9.5
	Gas (Flare)		Ø12.7	Ø15.9
	Drain		VP20 (External Dia, 26/Internal Dia, 20)	

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
  - Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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.
  - Sound level: (FXMQ-MA) Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. (FXHQ-MA) 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".

# SPECIFICATIONS

## Indoor Units

### WALL MOUNTED TYPE



MODEL		FXAQ20PVE	FXAQ25PVE	FXAQ32PVE	FXAQ40PVE	FXAQ50PVE	FXAQ63PVE
Power supply		1-phase, 220-240 V/220 V, 50 Hz					
Cooling capacity	kcal/h	1900	2400	3100	3900	4800	6100
	Btu/h	7500	9600	12300	15400	19100	24200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kcal/h	2200	2800	3400	4300	5400	6900
	Btu/h	8500	10900	13600	17100	21500	27300
	kW	2.5	3.2	4	5	6.3	8
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	11	11	14	14	14
Piping connections	Liquid (Flare)	mm	Ø6.4	Ø6.4	Ø6.4	Ø6.4	Ø9.5
	Gas (Flare)		Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.9
	Drain		VP13 (External Dia, 18/Internal Dia, 13)				



### FLOOR STANDING TYPE/CONCEALED FLOOR STANDING TYPE

MODEL		FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE
		FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE
Power supply		1-phase, 220-240 V/220 V, 50 Hz					
Cooling capacity	kcal/h	1900	2400	3100	3900	4800	6100
	Btu/h	7500	9600	12300	15400	19100	24200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kcal/h	2200	2800	3400	4300	5400	6900
	Btu/h	8500	10900	13600	17100	21500	27300
	kW	2.5	3.2	4	5	6.3	8
Casing		FXLQ: Ivory white (5Y7.5/1)/FXNQ: 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 dB(A)	35/32	35/32	35/32	38/33	39/34	40/35
Dimensions (H×W×D)	FXLQ	mm	600×1,000×222	600×1,000×222	600×1,140×222	600×1,140×222	600×1,420×222
	FXNQ		610×930×220	610×930×220	610×1,070×220	610×1,070×220	610×1,350×220
Machine weight	FXLQ	kg	25	25	30	30	36
	FXNQ		19	19	23	23	27
Piping connections	Liquid (Flare)	mm	Ø6.4	Ø6.4	Ø6.4	Ø6.4	Ø9.5
	Gas (Flare)		Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.9
	Drain		21O.D.				

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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.
- Sound level: (FXAQ-P) Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. (FXLQ-MA, FXNQ-MA) 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.

## Outdoor Units

MODEL		RX(Y)MQ4	RX(Y)MQ5	RX(Y)MQ6	RX(Y)MQ8	RX(Y)MQ10	RX(Y)MQ12	
Power Supply		1 Phase, 230V, 50Hz			3 Phase, 380-415V, 50Hz			
Cooling Capacity	Kcal/h	9,600	12,000	13,300	19,300	24,100	28,800	
	Btu/h	38,200	47,800	52,900	76,400	95,500	1,14,000	
	Kw	11.2	14.0	15.5	22.4	28.0	33.5	
Capacity Control	%	24-100	24-100	24-100	20-100	16-100	16-100	
Casing Colour		Ivory White						
Compressor	Type	Hermetically Sealed Scroll Type						
	No. Of compressor	1	1	1	1	1	1	
Airflow Rate	m <sup>3</sup> /min	106	106	106	140	182	182	
Dimensions (HXWXD)	mm	1345x900x320	1345x900x320	1345x900x320	1430x940x320	1615x940x460	1615x940x460	
Machine weight	Kg	125	125	125	131	164	170	
Sound level	dB(A)	50	51	53	57	59	60	
Operation Range	Cooling	°CDB -5 to 46						
	Heating	°CDB -20 to 15.5						
Refrigerant	Type	R410A						
	Charge	Kg	4.0	4.0	4.0	5.8	7.0	8.0
Piping connections	Liquid	mm	Ø9.5 (Flare)	Ø9.5 (Flare)	Ø9.5 (Flare)	Ø9.5 (Brazing)	Ø9.5 (Brazing)	Ø12.7 (Brazing)
	Gas	mm	Ø15.9 (Flare)	Ø15.9 (Flare)	Ø19.1 (Brazing)	Ø19.1 (Brazing)	Ø22.2 (Brazing)	Ø25.4 (Brazing)

Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27CDB, 19.5CWB, Outdoor temp.: 35CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20CDB, Outdoor temp.: 7CDB, 6CWB, 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.
- Refrigerant charge is required.

# OPTION LIST

## Indoor Units

### CEILING MOUNTED CASSETTE (Round Flow With Sensing) TYPE (Optional)

No.	Type	Item	FXFQ25S	FXFQ32S	FXFQ40S	FXFQ50S	FXFQ63S	FXFQ80S	FXFQ100S	FXFQ125S
1	Decoration Panel						BYCQ125B-W1			
2	Sealing member of air discharge outlet						KDBHQ55B140			
3	Panel spacer						KDBP55H160FA			
4	Filter related	High efficiency filter unit 65%			KAFP556B80				KAFP556B160	
		High efficiency filter unit 90%			KAFP557B80				KAFP557B160	
		Replacement high efficiency filter 65%			KAFP552B80				KAFP552B160	
		Replacement high efficiency filter 90%			KAFP553B80				KAFP553B160	
		Filter chamber					KDDFP55B160			
		Long life replacement filter					KAFP551K160			
		Ultra long-life filter					KAFP55B160			
5	Fresh air intake kit	Chamber type					KAFP55H160H			
		Without T joint pipe and fan					KDDQ55B140			
		With T joint pipe and fan					KDDP55B160K			
		Direct installation type				KDDP55X160				
6	Branch duct chamber				KDJP55B80				KDJP55B160	
7	Insulation kit for high humidity				KDTP55K80				KDTP55K160	

### CEILING MOUNTED CASSETTE (Round Flow) TYPE

No.	Type	Item	FXFQ25P	FXFQ32P	FXFQ40P	FXFQ50P	FXFQ63P	FXFQ80P	FXFQ100P	FXFQ125P
1	Decoration Panel						BYCP125K-W1			
2	Sealing member of air discharge outlet						KDBH55K160F			
3	Panel spacer						KDBP55H160FA			
4	Filter related	High efficiency filter unit 65%			KAFP556B80				KAFP556B160	
		High efficiency filter unit 90%			KAFP557B80				KAFP557B160	
		Replacement high efficiency filter 65%			KAFP552B80				KAFP552B160	
		Replacement high efficiency filter 90%			KAFP553B80				KAFP553B160	
		Filter chamber					KDDFP55B160			
		Long life replacement filter	Non-woven type				KAFP551K160			
		Ultra long-life filter					KAFP55B160			
5	Fresh air intake kit	Chamber type					KAFP55H160H			
		Without T joint pipe and fan					KDDP55B160			
		With T joint pipe and fan					KDDP55B160K			
		Direct installation type				KDDP55X160				
6	Branch duct chamber				KDJP55B80				KDJP55B160	
7	Chamber connection kit						KKSJ55KA160			
8	Insulation kit for high humidity				KDTP55K80				KDTP55K160	

### CEILING MOUNTED CASSETTE (Compact Multi Flow) TYPE

No.	Type	Item	FXZQ20M	FXZQ25M	FXZQ32M	FXZQ40M	FXZQ50M
1	Decoration panel						BYFQ60B8W1
2	Sealing member of air discharge outlet						KDBH44BA60
3	Panel spacer						KDBQ44BA60A
4	Replacement long-life filter						KAFQ441BA60
5	Fresh air intake kit	Direct installation type					KDDQ44XA60

### 4-WAY FLOW CEILING SUSPENDED TYPE

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

### CEILING MOUNTED CASSETTE (Double Flow) TYPE

No.	Type	Item	FXCQ20M	FXMQ40P	FXMQ50P	FXMQ100P
			FXCQ25M		FXMQ63P	FXMQ125P
			FXCQ32M	FXMQ80P		
1	High efficiency filter	65%	KAF372AA36	KAF372AA56	KAF372AA80	KAF372AA160
		90%	KAF373AA36	KAF373AA56	KAF373AA80	KAF373AA160
2	Filter chamber		KDDF37AA36	KDDF37AA56	KDDF37AA80	KDDF37AA160
3	Long life replacement filter		KAF371AA36	KAF371AA56	KAF371AA80	KAF371AA160
4	Long life filter chamber kit		KAF375AA36	KAF375AA56	KAF375AA80	KAF375AA160
5	Service panel	White	KTBJ25K36W	KTBJ25KA56W	KTBJ25KA80W	KTBJ25KA160W
		Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T
6	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A

## CEILING MOUNTED CASSETTE CORNER TYPE

No.	Type	Model					
	Item	FXEQ20AV36	FXEQ25AV36	FXEQ32AV36	FXEQ40AV36	FXEQ50AV36	FXEQ63AV36
1	Decoration panel	BYEP40AW16				BYEP63AW16	

## SLIM CEILING MOUNTED DUCT TYPE (700 mm width type)

No.	Type	FXDQ20PB	FXDQ25PB	FXDQ32PB
	Item			
1	Insulation kit for high humidity	KDT25N32		

## SLIM CEILING MOUNTED DUCT TYPE (900/1,100 mm width type)

No.	Type	FXDQ40NB	FXDQ50NB	FXDQ63NB
	Item			
1	Insulation kit for high humidity	KDT25N50		KDT25N63

## CEILING MOUNTED DUCT TYPE

No.	Type Item		FXMQ20P	FXMQ40P	FXMQ50P	FXMQ100P
			FXMQ25P		FXMQ63P	FXMQ125P
			FXMQ32P		FXMQ80P	FXMQ140P
1	High efficiency filter	65%	KAF372AA36	KAF372AA56	KAF372AA80	KAF372AA160
		90%	KAF373AA36	KAF373AA56	KAF373AA80	KAF373AA160
2	Filter chamber		KDDF37AA36	KDDF37AA56	KDDF37AA80	KDDF37AA160
3	Long life replacement filter		KAF371AA36	KAF371AA56	KAF371AA80	KAF371AA160
4	Long life filter chamber kit		KAF375AA36	KAF375AA56	KAF375AA80	KAF375AA160
5	Service panel	White	KTBJ25K36W	KTBJ25KA56W	KTBJ25KA80W	KTBJ25KA160W
		Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T
6	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A

## CEILING SUSPENDED TYPE

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

## WALL MOUNTED TYPE

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

## FLOOR STANDING TYPE

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

## CONCEALED FLOOR STANDING TYPE

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

# OPTION LIST

## Outdoor Units

Optional Accessories	RX(Y)MQ4/ RX(Y)MQ5/ RX(Y)MQ6	RX(Y)MQ8
REFNET header	KHRP26M22H, KHRP26M33H (MAX. 4 branch) (MAX. 8 branch)	
REFNET joint	KHRP26A22T6	KHRP26A22T6 / KHRP26A33T6
Central drain plug	KKPJ5F180	KKPJ5G280
Fixture for preventing overturning	KPT-60B160	KKTP5B112
Wire fixture for preventing overturning	K-KYZP15C	

Optional Accessories	RX(Y)MQ10/ RX(Y)MQ12
REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (MAX. 4 branch) (MAX. 8 branch)
REFNET joint	KHRP26A22T6, KHRP26A33T6, KHRP26A72T6

## Control Units

### OPERATION CONTROL SYSTEM OPTIONAL ACCESSORIES

No.	Item	Type	FXFQ-S	FXFQ-LV	FXZQ-M	FXUQ-A	FXCQ-M	FXEQ-A	FXDQ-PB FXDQ-NB
1	Remote controller	Wireless	Receiver	BRC7M632F-6	BRC7M630W-6	BRC7CB58	BRC7M62-6	BRC7M626-6	BRC4M61-6
			Handset	BRC4M150W16					
		Wired	BRC1C62						
2	Navigation remote controller (Wired remote controller)	BRC1E62 Note 7							
3	Simplified remote controller (Exposed type)	—							BRC2C51
4	Remote controller for hotel use (Concealed type)	—							BRC3A61
5	Adaptor for wiring	*KRP1C63	*KRP1BA57	—	*KRP1B61	KRP1B61	*KRP1B56		
6-1	Wiring adaptor for electrical appendices (1)	*KRP2A62	*KRP2A62	—	*KRP2A61	KRP2A61	*KRP2A53		
6-2	Wiring adaptor for electrical appendices (2)	*KRP4AA53	*KRP4AA53	*KRP4AA53	*KRP4AA51	KRP4AA51	*KRP4A54		
7	Remote sensor (for indoor temperature)	KRCS01-4B	KRCS01-1B				KRCS01-1B		
8	Installation box for adaptor PCB ^	Note 2, 3 KRP1H98	Note 4, 6 KRP1BA101	KRP1BA97	Note 2, 3 KRP1B96	—	Note 4, 6KRP1BA101		
9	External control adaptor for outdoor unit	*DTA104A62	*DTA104A62	—	*DTA104A61	DTA104A61	*DTA104A53		
10	Adaptor for multi tenant	*DTA114A61	—	—	—	—	—		

No.	Item	Type	FXMQ-P	FXMQ-MVE	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA		
1	Remote controller	Wireless	Receiver	BRC4M61-6	BRC7EA63W	BRC7M618-6	BRC4M61-6		
			Handset	BRC4M150W16				BRC4M150W16	
		Wired	BRC1C62						
2	Navigation remote controller (Wired remote controller)	BRC1E62 Note 7							
3	Wired remote controller with weekly schedule timer	BRC1D61							
4	Simplified remote controller (Exposed type)	BRC2C51	BRC2C51	—			BRC2C51		
5	Remote controller for hotel use (Concealed type)	BRC3A61	BRC3A61	—			BRC3A61		
6	Adaptor for wiring	*KRP1C64	KRP1B61	KRP1BA54	—		KRP1B61		
7-1	Wiring adaptor for electrical appendices (1)	*KRP2A61	KRP2A61	*KRP2A61	*KRP2A61	KRP2A61			
7-2	Wiring adaptor for electrical appendices (2)	*KRP4AA51	KRP4AA51	*KRP4AA52	*KRP4AA52	KRP4AA51			
8	Remote sensor (for indoor temperature)	KRCS01-4B	KRCS01-1B						
9	Installation box for adaptor PCB ^	Note 1 KRP4A96	—	Note 3 KRP1CA93	Note 1 KRP4AA93	—			
10	External control adaptor for outdoor unit	*DTA104A61	DTA104A61	*DTA104A62	*DTA104A61	DTA104A61			
11	Adaptor for multi tenant	*DTA114A61	—	—	*DTA114A61	—			
12	External control adaptor for cooling / heating	—							
13	Remote controller with key	—							

- Note:
1. Installation box ^ is necessary for each adaptor marked\*
  2. Up to two adaptors can be fixed for each installation box.
  3. Only one installation box can be installed for each indoor unit.
  4. Up to two installation boxes can be installed for each indoor unit.
  5. Installation box ^ is necessary for second adaptor.
  6. Installation box ^ is necessary for each adaptor.
  7. Individual airflow direction, auto airflow rate and sensing sensor control can be only via wired remote controller BRC1E62. Cannot be set via other remote controllers.
  8. Since the control panel is equipped as standard, use the option for 2 remote control system.
  9. When using BRC1E62, be sure to remove the control panel and since BRC1E62 cannot be stored inside the indoor unit, please place it separately

# OPTION LIST

## Control Systems

### SYSTEM CONFIGURATION

No.	Type 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	Central remote controller	DCS302CA61	• Up to 64 groups of indoor units(128 units) can be connected, and ON/OFF, temperature setting and monitoring can be accomplished individually or simultaneously. Connectible up to 2 controllers in one system.
2-1	Electrical box with earth terminal (3 blocks)	KJB311AA	
3	Unified ON/OFF controller	DCS301BA61	• Up to 16 groups of indoor units(128 units) can be turned, ON/OFF individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers.
3-1	Electrical box with earth terminal (2 blocks)	KJB212AA	
3-2	Noise filter (for electromagnetic interface use only)	KEK26-1A	
4	Schedule timer	DST301BA61	• Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day.
5	5-room centralised controller for residential indoor units	For CDXS, FDK(X)S, FTK(X)S Note 3 KRC72A	• Up to 5 indoor units can be controlled. This is a low cost system which can only control ON/OFF.
6	Interface adaptor for residential indoor units	For CDXS, FDK(X)S, FTK(X)S KRP928BB2S	• Adaptors required to connect products other than those of the VRV System to the high-speed DIII-NET communication system adopted for the VRV System. * To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
7	Interface adaptor for SkyAir-series	For FCQ-B, FFQ-B, FHQ-BV, FBQ-B DTA112BA51	
8	Central control adaptor	For UAT(Y)-K(A), FD-K DTA107A55	
9	Wiring adaptor for other air-conditioner	DTA103A51	
10	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.
10-1	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. A wiring adaptor (KRP413AB1S) is also required for each indoor unit.

### 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		Option	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					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					DCM008A51	• Building energy consumption is visualised. Wasted air-conditioning energy can be found out.
2-4			DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.		
2-5	DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input.				
3	Communication interface	*1 Interface for use in BACnet®			DMS502B51	• Interface unit to allow communications between VRV 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		*2 Interface for use in LONWORKS®			DMS504B51	• Interface unit to allow communications between VRV 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 VRV 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.

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.  
\*3. Installation box for adaptor must be obtained locally







## Contact Address

### DAIKIN AIRCONDITIONING INDIA PVT. LTD.

12th Floor, Building No 9

Tower A, DLF Cyber City

DLF Phase III, Gurgaon 122002

Haryana, India

Tel: 0124-4555444, Fax: 0124-4555333

Email ID: [communications@daikinindia.com](mailto:communications@daikinindia.com)

## Sales & Service Offices

### Ahmedabad

Tel: 079-26583013-14

### Delhi NCR

Tel: 011-43834400/4500

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Tel: 020-25560300

### Chennai

Tel: 044-24314210/15

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Tel: 033-22894259/60



### Customer Care Helpline:

SMS: <DAIKIN> to 92 101 88 999

Give missed call: to 92 101 88 999

Toll free no.: 1800 22 9300 / 1800 102 9300

Email: [cs@daikinindia.com](mailto:cs@daikinindia.com)

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