



VRV S

SHAPING AIR TO YOUR NEEDS



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ABOUT DAIKIN

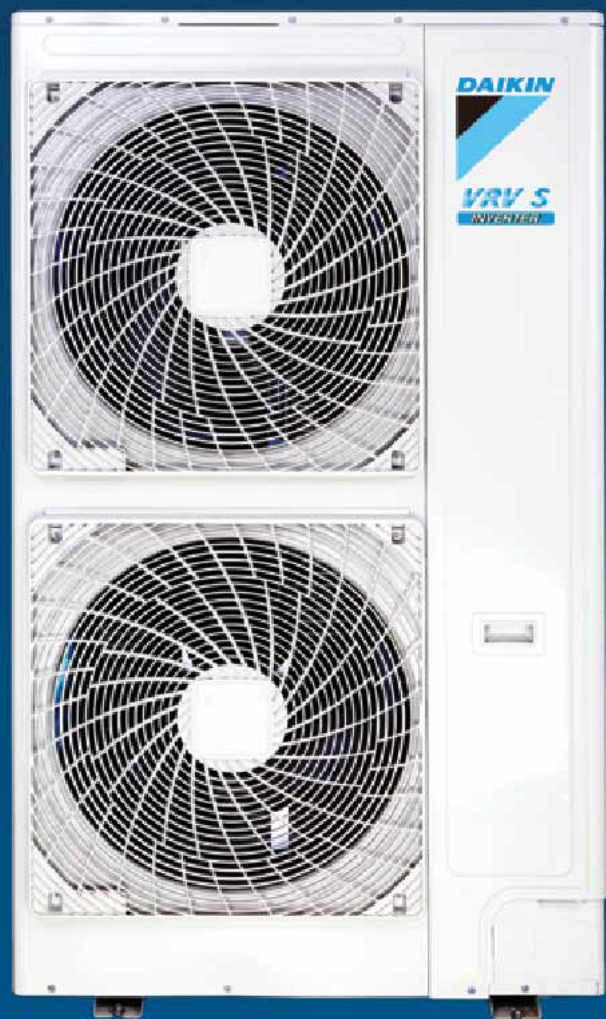
At Daikin®, we are a leading innovator and provider of advanced, high-quality air-conditioning solutions for residential, commercial and industrial applications.

As world's leading air conditioning company, we are committed to deliver air conditioning solutions that enhance the quality of life all around the world.

Established in 1924, Daikin Industries Ltd., is a diverse multinational company, active in air conditioning, chemicals and oil hydraulics. With headquarters at Osaka, Japan, our Daikin family has more than 67,000 members, working across 80 production base 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 solutions.



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.

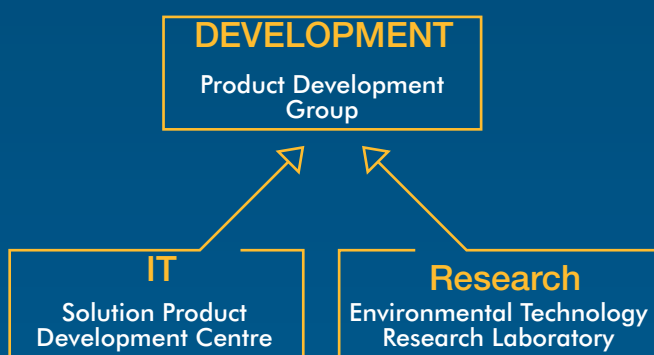
Our strong R&D edge has helped us create futuristic products that enrich people's lives. As symbolised by the VRV, Daikin has put forth a multitude of products and varied technology that have always been, and continue to be, at the forefront of innovation.

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.

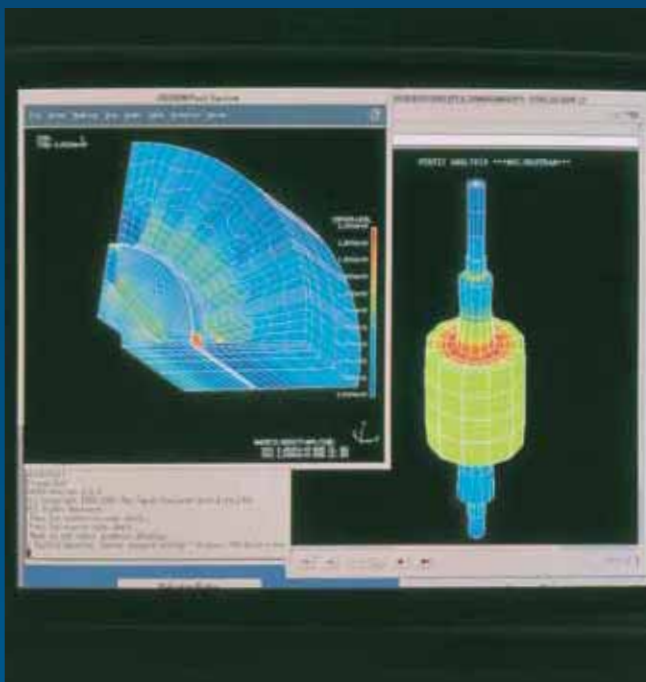
To create more advanced functions and new value, we have instituted specialised R&D divisions: the 'Environmental Technology Research Laboratory' and the 'Solution Product Development Centre'. In combination with the Product Development Group, each of the three divisions work in close cooperation to 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

12 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 line-up

MODEL NAME	RX(Y)Q4	RX(Y)Q5	RX(Y)MQ6
CAPACITY RANGE	4 HP (11.2 KW)	5 HP (14.0 KW)	6 HP (15.5 KW)
CAPACITY INDEX	100	125	140
MODEL NAME	RX(Y)MQ8	RX(Y)MQ10	RX(Y)MQ12
CAPACITY RANGE	8 HP (22.4 KW)	10 HP (28 KW)	12 HP (33.5 KW)
CAPACITY INDEX	200	250	300



MAIN FEATURES

Energy efficiency and quiet operation

Outdoor units use Daikin's unique 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 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^{*1} after the peak temperature in the daytime, and operation will return to normal 10 hours^{*2} 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.)

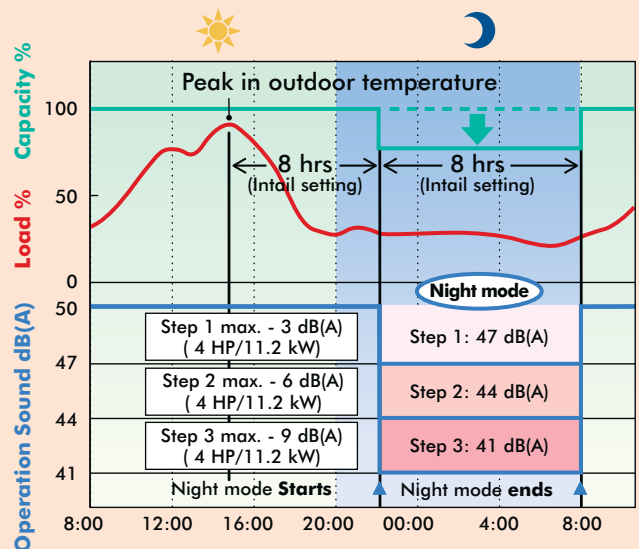
Mode 3 Combined mode

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.

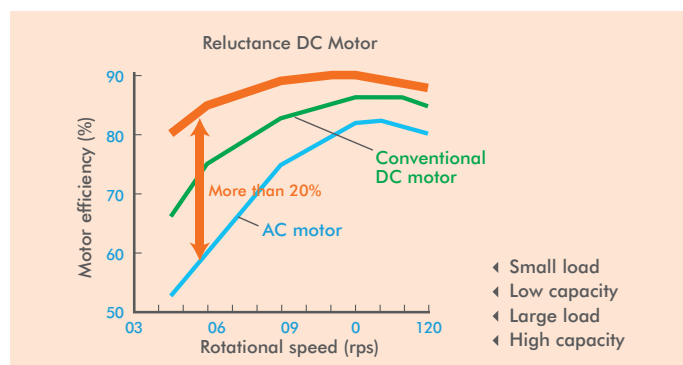
MAIN FEATURES

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

The high efficiency compressor to achieve a higher COP

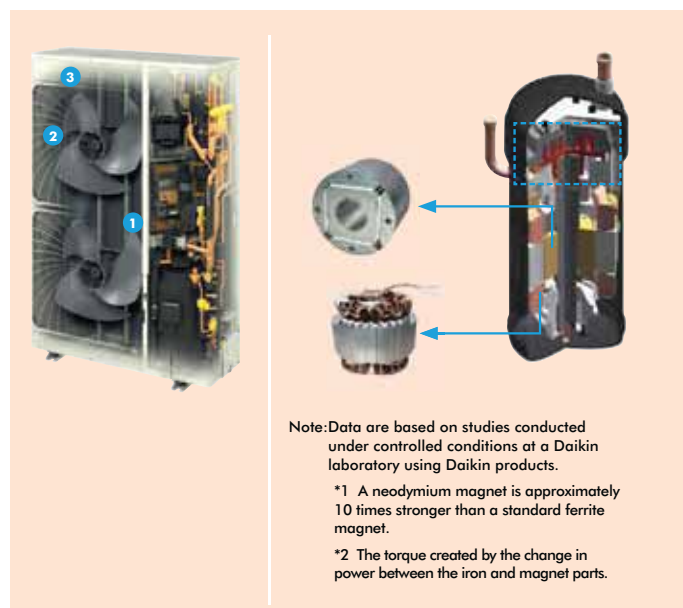
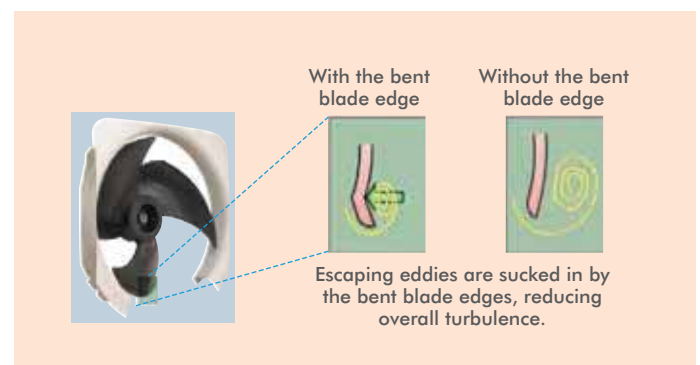
Compressor equipped with Reluctance DC motor

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

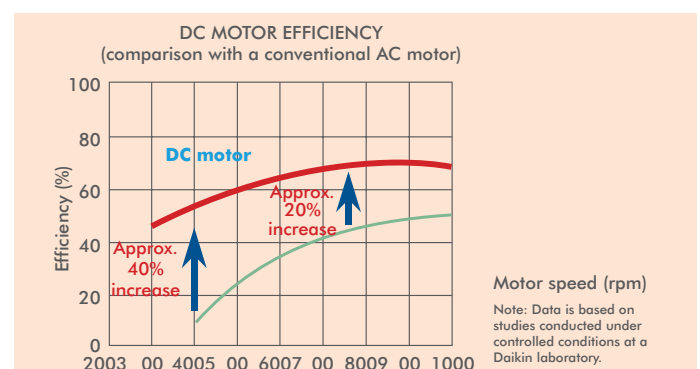


>> Smooth sine wave DC inverter

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



Sine wave DC inverter



MAIN FEATURES

Design flexibility

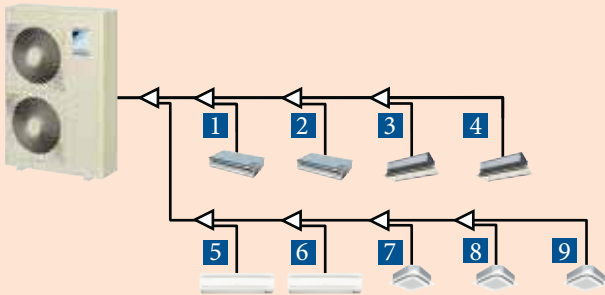
VRV S systems offer broad design flexibility with long refrigerant piping lengths and multiple indoor unit combinations, which provides generous freedom for office and shop design both inside and outside.

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

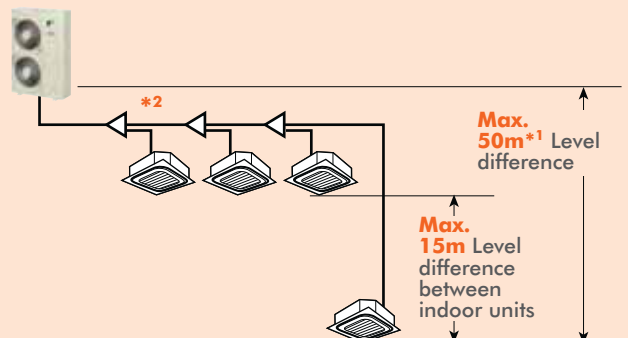
- >> **Max. 6 indoor units** for a **4 HP** installation
- >> **Max. 8 indoor units** for a **5 HP** installation
- >> **Max. 9 indoor units** for a **6 HP** installation
- >> **Max. 13 indoor units** for a **8 HP** installation
- >> **Max. 16 indoor units** for a **10 HP** installation
- >> **Max. 19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

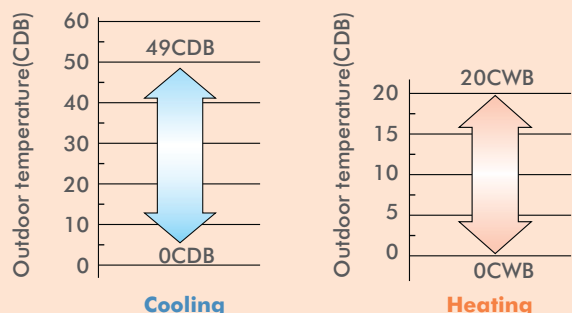
*2. Maximum piping length between the indoor unit and the first branch is 40 m.

*3 Applicable for ODU for capacity of 6/8/10/12 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 0°C, while cooling can be performed with outdoor temperatures as high as 49°C.

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.

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

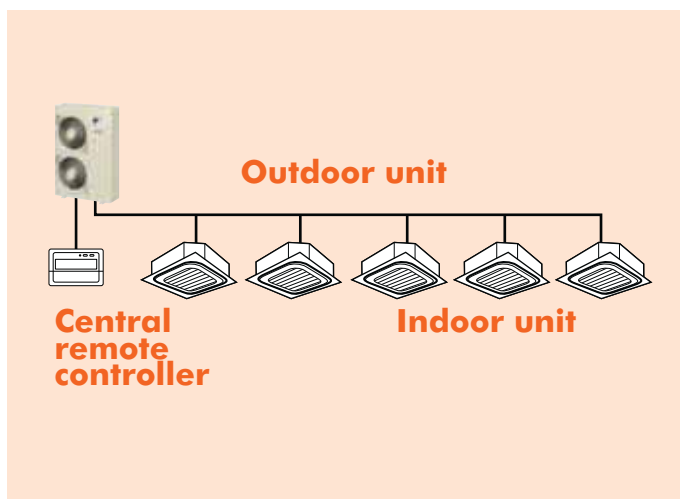
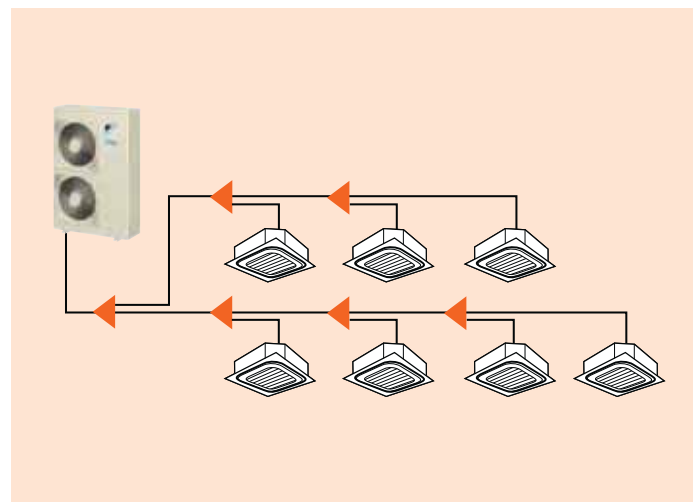
Unique piping and wiring systems make it possible to install a VRV S system quickly and easily.

>> 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.

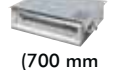


INDOOR UNIT LINE-UP

Indoor units

15 types 72 models*

A wide range of indoor units includes 72 models in 15 types. The indoor units can be selected to match every room and preference.

Indoor unit line-up																
Type	Model Name	Capacity Range (HP)	0.8	1	1.25	1.6	2	2.5	3	3.2	4	5	6	7	8	10
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	170	200	250
Ceiling Mounted Cassette Round Flow & Round Flow with Sensing (Optional)	FXFSQ-ARV16			●	●	●	●	●		●	●	●	●			
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE		●	●	●	●	●									
Ceiling Mounted Cassette (Double Flow)	FXCQ-AVM			●	●	●	●	●		●		●				
Ceiling Mounted Cassette Corner	FXEQ-AV		●	●	●	●	●	●								
Slim Ceiling Mounted Duct	FXDQ-PDV36 (WITH DRAIN PUMP)	 (700 mm width type)	●	●	●											
	FXDQ-NDV36 (WITH DRAIN PUMP)	 (900/1,100 mm width type)				●	●	●								
Ceiling Mounted Duct	FXMQ-PBV36		●	●	●	●	●	●		●	●	●	●			
	FXMQ-NVE													●	●	●
Mid Static Ceiling Mounted Duct	FXMQ-ARV16					●	●	●		●	●					
Ceiling Suspended	FXHQ-MAVE				●			●			●					
4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●					
Wall Mounted	FXAQ-ARVE6		●	●	●	●	●	●								
Floor Standing	FXLQ-MAVE				●		●	●								
Concealed Floor Standing	FXNQ-MAVE				●		●	●								
Clean Room Air Conditioner	FXBQ-PVE					●	●	●								
	FXBPQ-PVE							●								

INDOOR UNIT LINE-UP

At Daikin, we offer a wide range of indoor units, including both VRV and residential models, responding to a variety of needs of our customers that require air conditioning solutions.

VRV Indoor Units

Ceiling Mounted Cassette Round Flow & Round Flow with Sensing (Optional)

Ceiling Mounted Cassette Round Flow & Round Flow with Sensing (Optional)

FXFSQ-ARV16

NEW



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



Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ-MVE



Quiet, compact and designed for users comfort



Ceiling Mounted Cassette (Double Flow) Type

FXCQ-AVM

NEW



Add finishing touch to your ceiling, with enhancing function and design



Ceiling Mounted Cassette Corner Type

FXEQ-AVE



Slim design for flexible installation

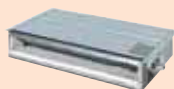


Slim Ceiling Mounted Duct Type

FXDQ-PDV36



FXDQ-NDV36



Slim design, quietness and static pressure switching



Ceiling Mounted Duct Type

FXMQ-PBV36



FXMQ-ARV16



FXMQ-NVE

High/Mid external static pressure allows flexible installations



INDOOR UNIT LINE-UP

4-Way Flow Ceiling Suspended Type

FXUQ-AVEB



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



Ceiling Suspended Type

FXHQ-MAVE



Slim body with quiet and wide airflow



Floor Standing Type

FXLQ-MAVE



Concealed Floor Standing Type

FXNQ-MAVE



Suitable for perimeter zone air conditioning



Wall Mounted Type

FXAQ-ARVE6

NEW



Stylish flat panel design harmonised with your interior décor



Clean Room Air Conditioner

NEW

FXBQ-PVE



FXBPQ-PVE

Suitable for hospitals and other clean spaces



INDOOR UNIT LINE-UP

VRV Indoor Units

Ceiling Mounted Cassette Round Flow & Round Flow with Sensing (Optional)

FXFSQ25A / FXFSQ32A / FXFSQ40A / FXFSQ50A /
FXFSQ63A / FXFSQ80A / FXFSQ100A /
FXFSQ125A / FXFSQ140A

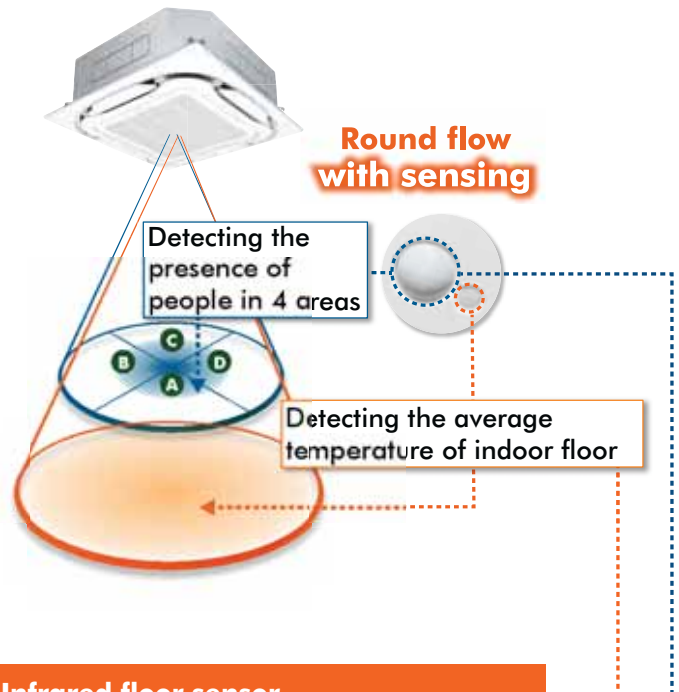


Round flow with sensing (Optional)

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



Dual sensors*1



Infrared floor sensor

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

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

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

Infrared presence sensor

The 4 sensors detect human presence.

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

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

INDOOR UNIT LINE-UP

VRV Indoor Units

Various sensing functions

Sensing sensor mode*5*6

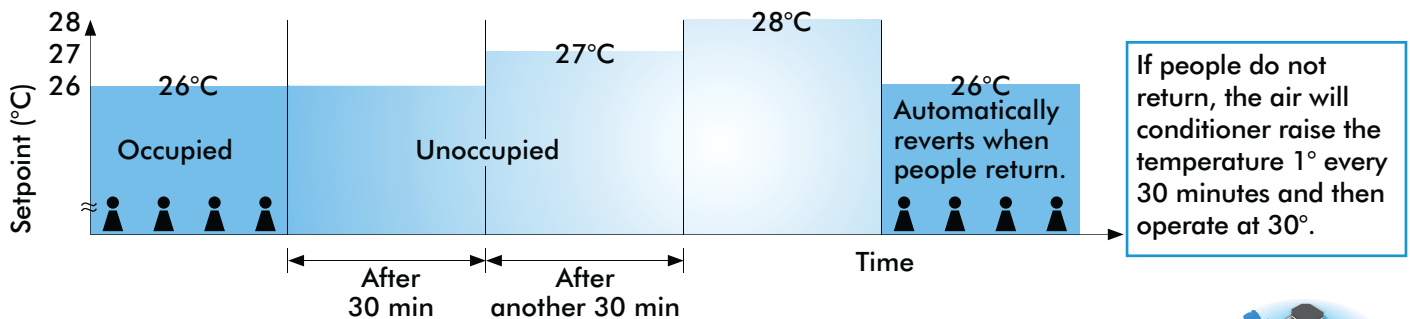
Sensing sensor low mode (default: OFF)

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

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

Example

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



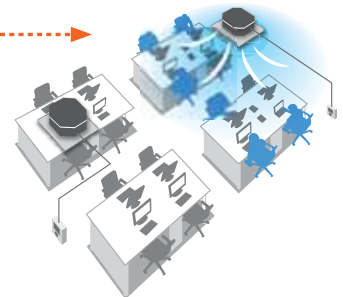
Shift temperature and time can be selected from 0.5 to 4°C in 0.5°C increments and 15, 30, 45, 60, 90 or 120 minutes respectively with remote controller.

*1. Applicable when sensing panel (BYCQ140EEF6/BYCQ125EEK) is installed.

*5. These functions are not available when using the group control system.

*6. User can set these functions with remote controller.

Operation is reduced in places where there are no people.



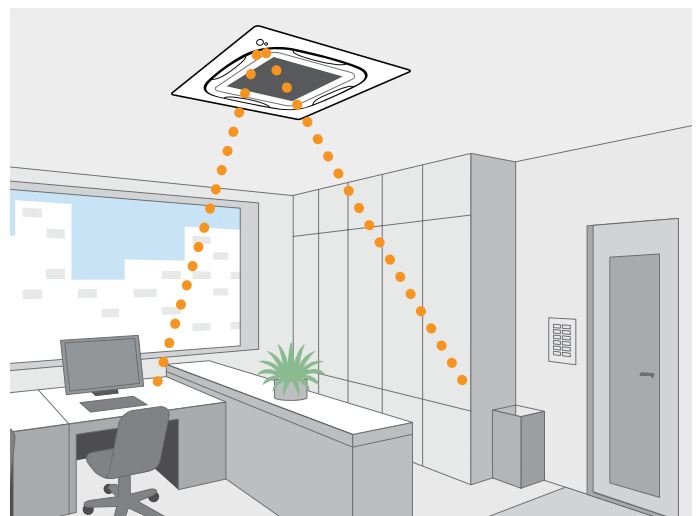
Sensing sensor stop mode (default: OFF)

When there are no people in a room, the system stops automatically.*7

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

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

*7 Please note that upon re-entering the room, air conditioner will not switch on automatically.



INDOOR UNIT LINE-UP

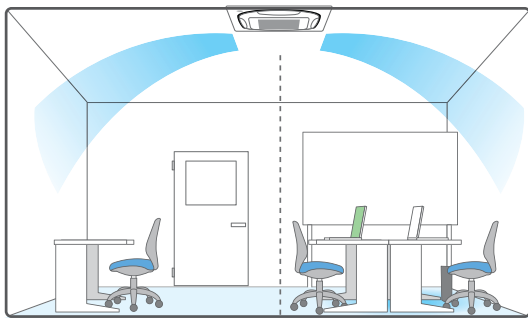
VRV Indoor Units

Auto airflow function*⁸

NEW

Direct Airflow (default: OFF)

When human presence is not detected

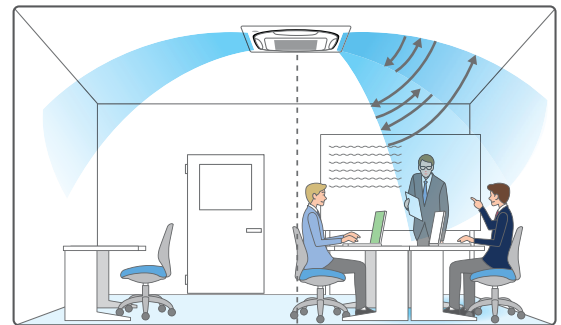


Optimal air direction by "Auto"

Cooling

Dry

When human presence is detected



Optimal air direction by "Auto"

Swing (narrow)

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

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

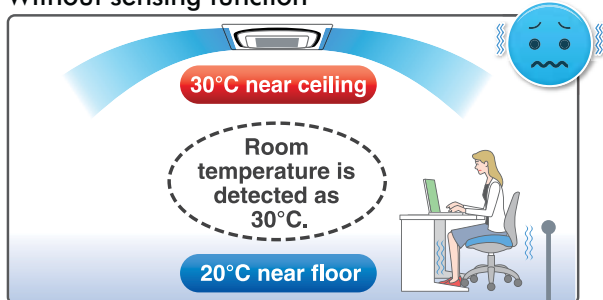
*⁸Airflow direction should be set to "Auto".

Comfort and energy saving preventing over cooling*⁹

Floor temperature is detected and over cooling prevented.

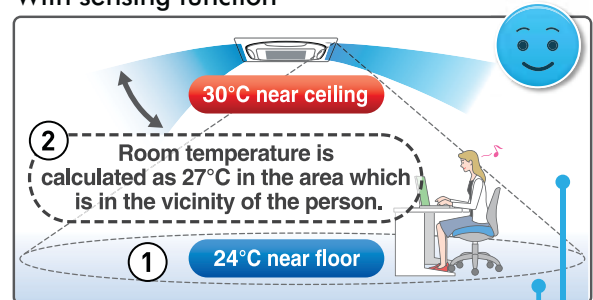
Cooling

Without sensing function



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

With sensing function



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

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

Energy savings

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

*⁹Airflow direction and airflow rate should be set to "Auto".

INDOOR UNIT LINE-UP

VRV Indoor Units

Circulation Air Flow

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

During 2-way horizontal flow



*1. Applicable when wired remote controller BRC1E62 is used.

*2. Not applicable when using individual airflow direction control.

Comfort to the entire room with even temperatures and no cold air pockets at floor level

4-way cassette (Swing)



Comparison Conditions

- Room size: Width 7.5m x depth 7.5m x height 2.6m
- Indoor unit capacity: 71 class
- Outdoor air temperature: 35°C
- Airflow rate and air direction: high / swing

Temperature scale: 30.0, 29.0, 28.0, 27.0, 26.0, 25.0, 24.0, 23.0, 22.0, 21.0, 20.0



Circulation Airflow (2-way horizontal + 4-way swing)



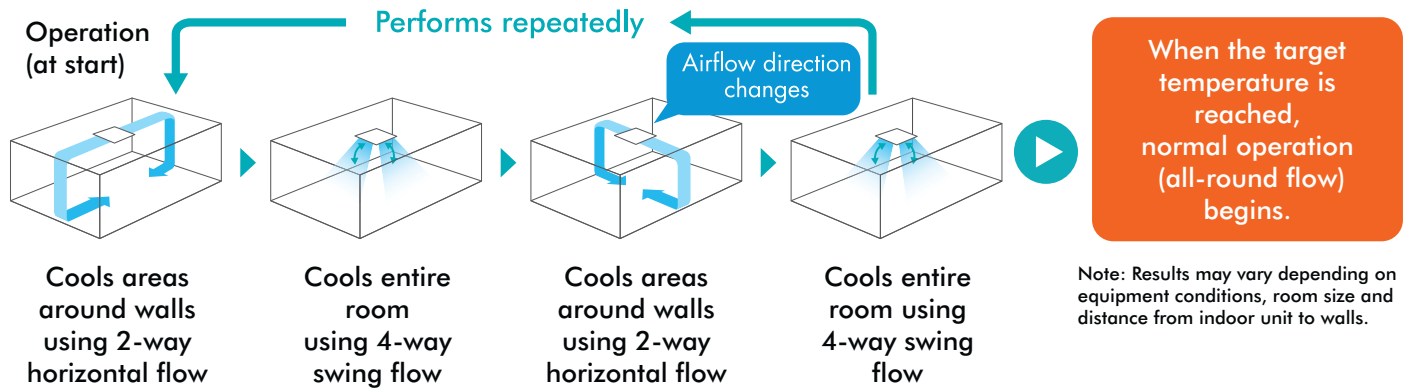
Approx. 5% energy savings by reducing uneven temperatures

*3. Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor reaches set temperature. (26°C)

INDOOR UNIT LINE-UP

VRV Indoor Units

Configurations of Circulation Airflow

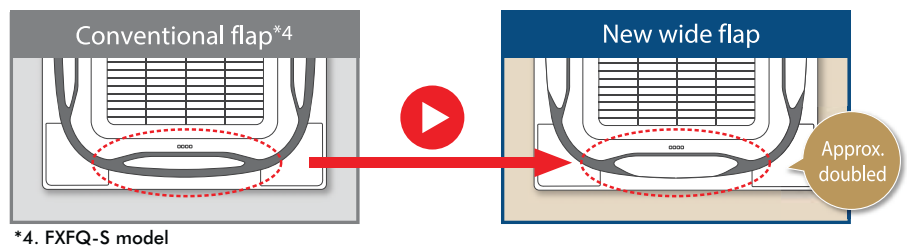


Three technologies that achieved circulation airflow

Flow-out is straight, horizontally and strong, so the air travels far and even reaches the wall from which it falls to the floor. This approach and technology makes circulation airflow possible.

1. Use of new wide flaps (Straight)

Compared to conventional models, the new wide flap increases straightness of the airflow, so coverage is approximately doubled.



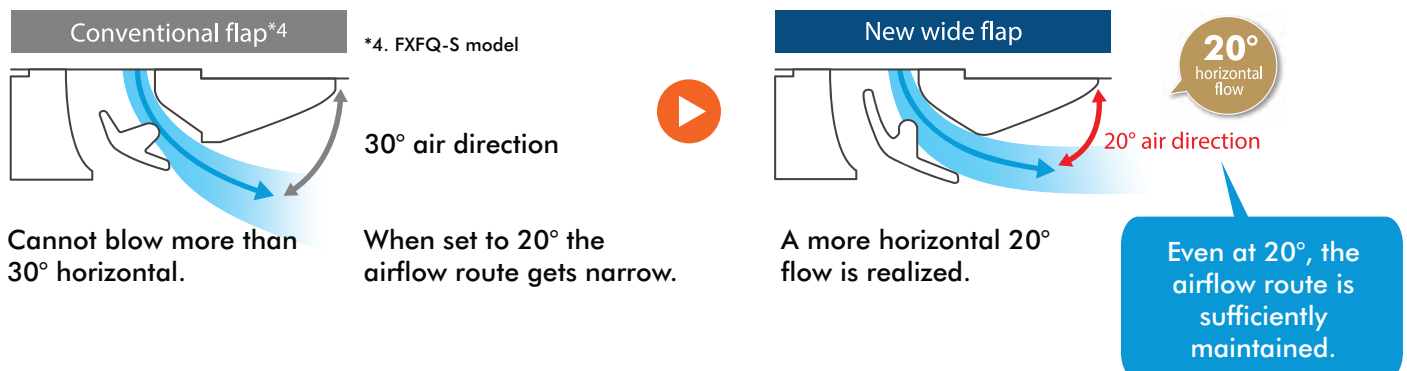
New wide flap construction inhibits ceiling dirt and grime

By tapering both flap ends, the airflow that causes dirty ceilings is directed downward.



2. Optimising airflow angle (Horizontally)

Even with the flap angle raised, a sufficient airflow route is maintained to realize a more horizontal airflow angle.

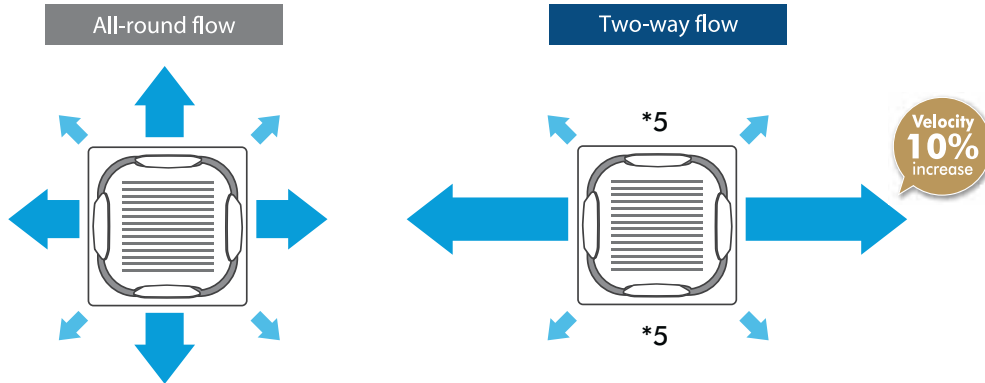


INDOOR UNIT LINE-UP

VRV Indoor Units

3. Increased velocity in 2-way flow (Strongly)

Velocity increased by making 2-way flow. Powerful airflow was realized.



*5. Other 2 outlets are controlled by changing the flap direction (angle) to suppress airflow volume.

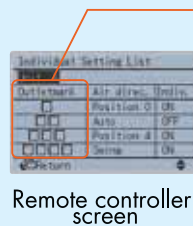
Comfortable air conditioning for all room layouts and conditions

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

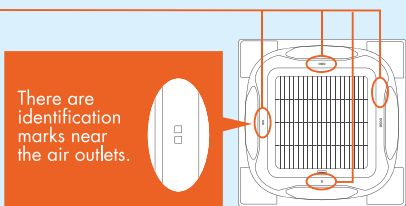
Easy setting is possible with a wired remote controller.



BRC1E63



Remote controller screen



Position 0
(Fixed airflow to
highest position)

No individual
setting
(Auto-airflow)

Swing
(Up/down)

Position 4
(Fixed airflow to the
lowest position)

Individual airflow settings

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

Individual settings are possible as stated above.

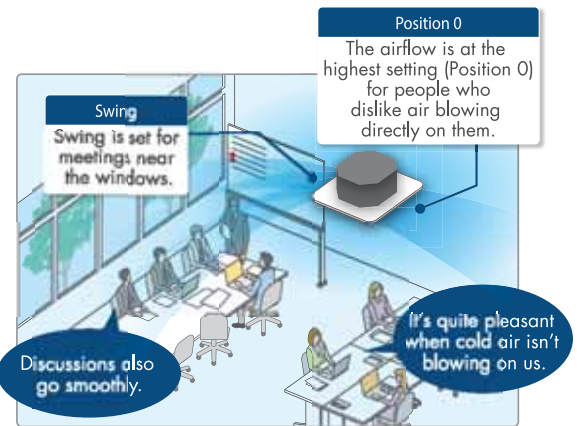
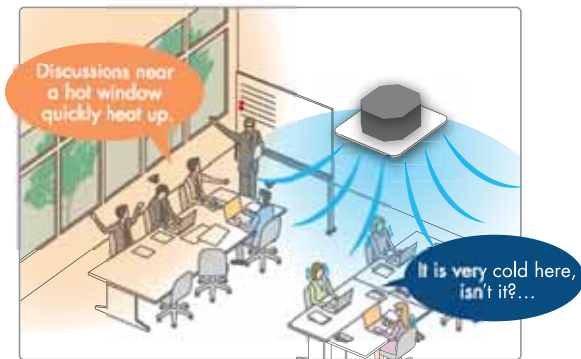
*1. Applicable when wired remote controller BRC1E63 is used.

INDOOR UNIT LINE-UP

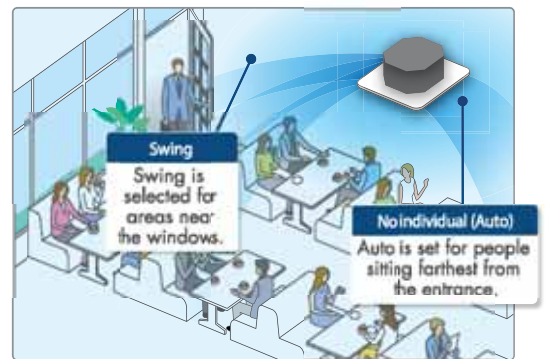
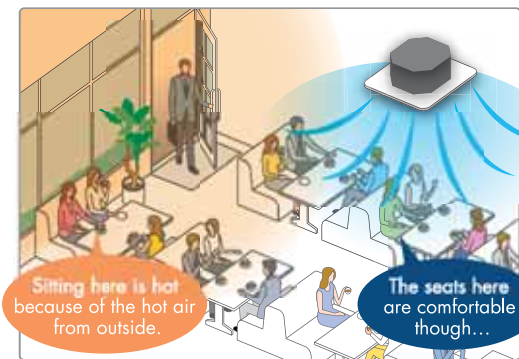
VRV Indoor Units

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

For offices



For shops and restaurant



Wide variety of decoration panels (Option)

NEW

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



- Fresh White -



- Black -



- Fresh White -



- Fresh White -



- Black -

Standard panel with sensing

Designer panel²

Standard panel²

INDOOR UNIT LINE-UP

VRV Indoor Units

Designer panel (Option)

NEW



Close to ideal styling

— New designer panel —

FLAT	CLEAN	ROUND
Flatter styling: Suction panel grid texture smoothed. 	Clean-cut form: Soiling is hard to see on smart-looking panel. 	Subtle distinction: Around suction inlets silvering is a tasteful touch. 

Decoration Panel Line-up (Option)



Standard panel**
BYCQ125EAF6
(Fresh White)



Standard panel**
BYCQ125EAK
(Black)



Designer panel**
BYCQ125EAPF
(Fresh White)



Sensing panel
BYCQ140EEF6
(Fresh White)



Sensing panel
BYCQ125EEK (Black)

*1. Sensing function is applicable when sensing panel is installed.

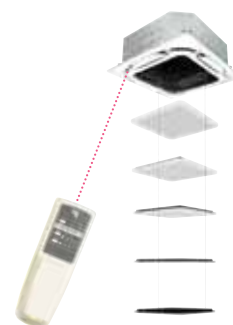
Auto grille panel (Option)**

NEW

- Clogged filters strain performance of the indoor unit and may result in breakdowns. Impeded airflow through the filter also lowers operational efficiency, which increases electricity bills.
With the auto grille, anyone can easily clean the filter, which translates to lower maintenance cost and longer life of the air conditioner.
- With the auto grille panel, motorised raising and lowering allows suction panel and air filter cleaning to be carried out without the need for a step ladder.

For these situations recommended

- Where the air is dusty and likely to soil the air conditioner.
- Where simple and quick filter and grille cleaning is a worthwhile benefit.



Auto grille panel*1
BYCQ125EASF
(Fresh White)

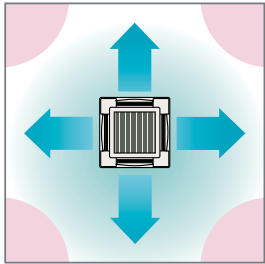
A dedicated wireless remote controller is supplied with the auto grille panel.

INDOOR UNIT LINE-UP

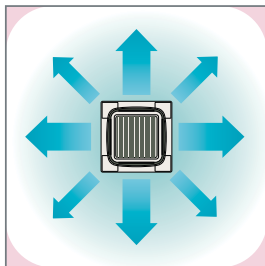
VRV Indoor Units

Comfortable airflow

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

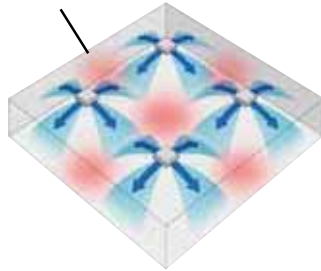


There are areas of uneven temperature.



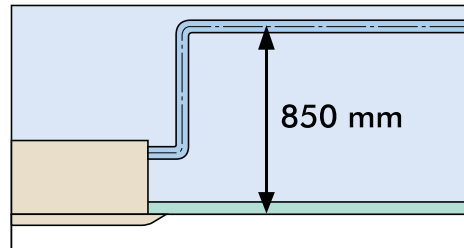
There are much fewer areas of uneven temperature.

Dead spot of airflow



Easy installation

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



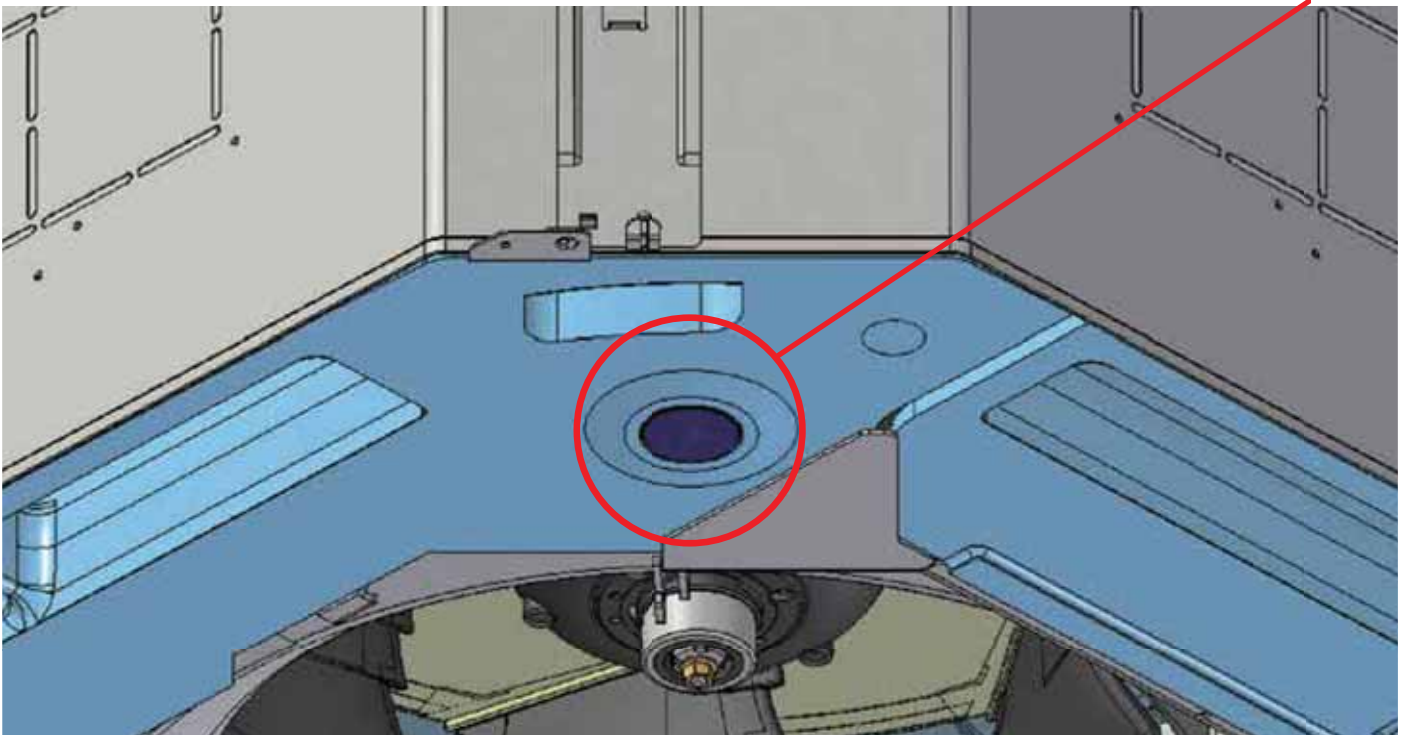
Easy maintenance

- Internal hygiene can be easily checked without removing the whole panel. Simply opening the suction panel allows the internal drain pan to be checked.

NEW

- 24 mm diameter drain outlet

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



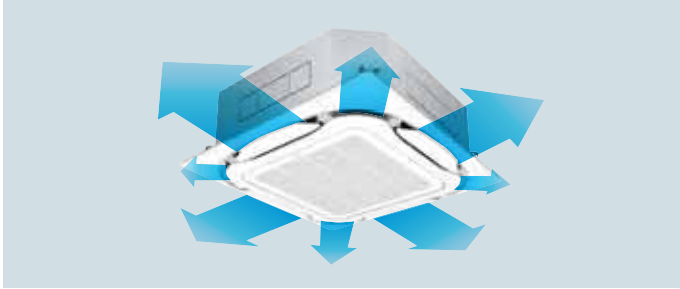
INDOOR UNIT LINE-UP

VRV Indoor Units

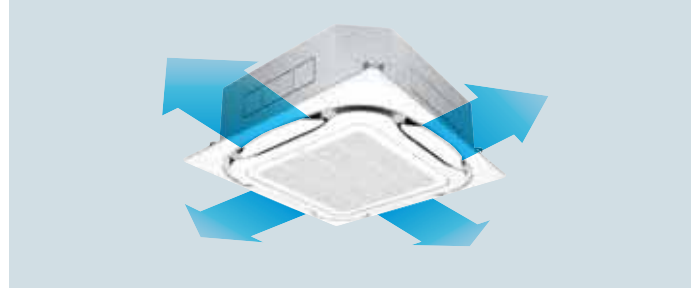
Example of airflow patterns

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.

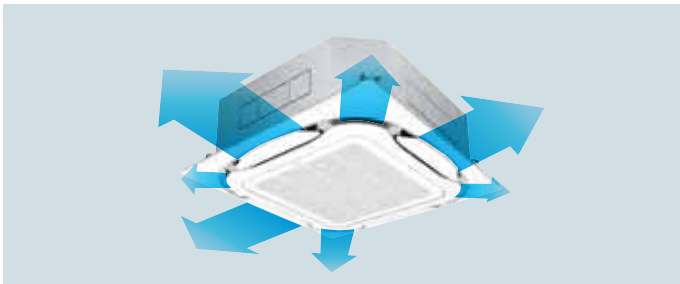
All-round flow



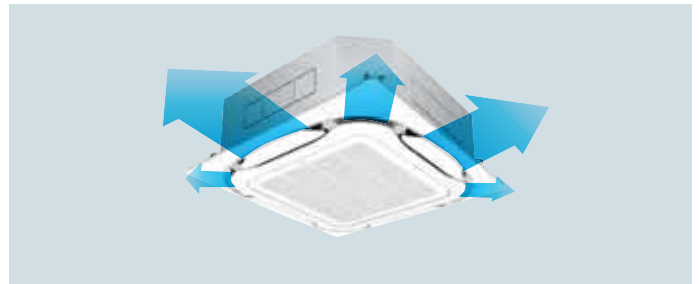
4-way flow



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

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.

- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.

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

- 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.

NEW

- Control of the airflow rate can be selected from 5-step control and Auto.



INDOOR UNIT LINE-UP

VRV Indoor Units

Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ20M / FXZQ25M /
FXZQ32M

FXZQ40M / FXZQ50M



Quiet, compact and designed for users comfort

- Dimensions correspond with 600 mm X 600 mm architectural module ceiling design specifications.

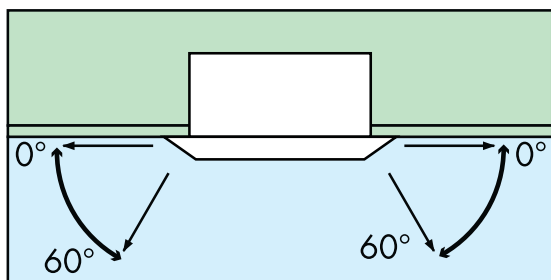
Low operation sound level (dB(A))

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

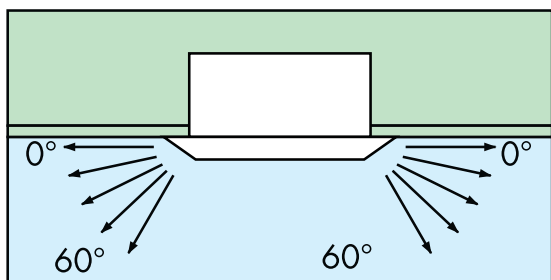
Comfortable airflow

1. Wide discharge angle: 0° to 60°

- Auto swing

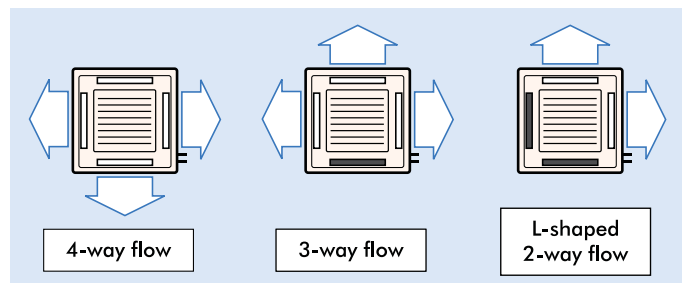


- Fixed angles: 5 levels



*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°).

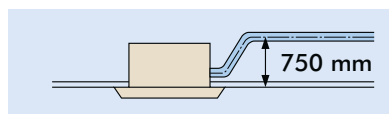
2. 2-, 3- and 4-way airflow patterns are available, enabling installation in the corner of a room.



*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 LINE-UP

VRV Indoor Units

Ceiling Mounted Cassette (Double Flow) Type

FXCQ25AVM / FXCQ32AVM /
FXCQ40AVM / FXCQ50AVM /
FXCQ63AVM / FXCQ80AVM /
FXCQ125AVM



Add finishing touch to your ceiling, with enhancing function and design.

Stylish unit blends easily with any interior. Integrated ceiling surface with sophisticated panel design with the adoption of flat flap. Add finishing touch to your ceiling, with enhancing function and design.

- Individual airflow direction control (Unavailable during automatic airflow mode, airflow angle: configurable from 0 to 4 swing positions.)

Individual flap control



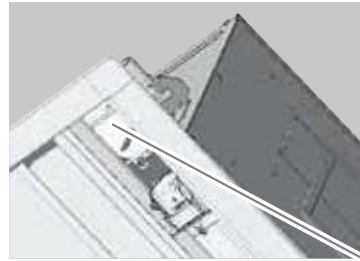
The flat flaps close entirely when the unit is not operating and there are no air intake grilles visible.

- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump.

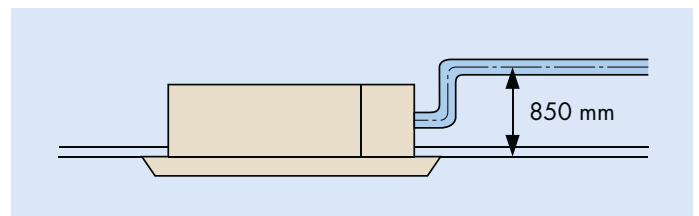


Enhanced functions from various aspects such as maintenance

- Check contamination in drain pan by simply remove suction grille and panel.
- The flap parts are easy to clean because it is hard to condensate and get dirty.
- Equipped with long life filter which requires only 1-year maintenance interval.
- Adjuster pockets mount at four corners of the unit enable to adjust the main unit without removing the panel.
- Drain pump is equipped as standard accessory with 850 mm lift.



Adjuster Pocket



- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.

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



Drain socket part

- Easy visual inspection of drainage through the transparent body drain socket.

INDOOR UNIT LINE-UP

VRV Indoor Units

Ceiling Mounted Cassette Corner Type

FXEQ20AV / FXEQ25AV / FXEQ32AV / FXEQ40AV
FXEQ50AV / FXEQ63AV



Slim Design for Flexible Installation

- 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



INDOOR UNIT LINE-UP

VRV Indoor Units

Slim Ceiling Mounted Duct Type

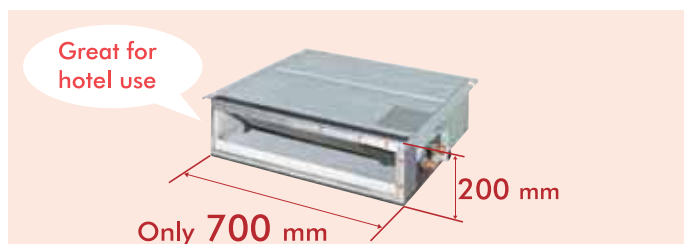
Slim design, quietness and static pressure switching



Suited to use in drop-ceilings

FXDQ20PD / FXDQ25PD / FXDQ32PD

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



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

Low operation sound level				(dB(A))
FXDQ-PD/ND	20/25/32	40	50	63
Sound level (HH/H/L)	33/31/29	34/32/30	35/33/31	36/34/32

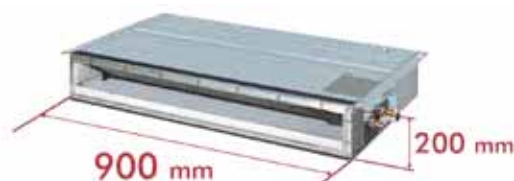
* The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

* Values are based on the following conditions:

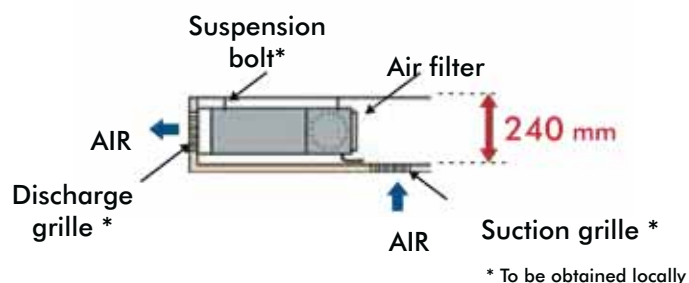
FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: external static pressure of 15 Pa.

FXDQ40ND / FXDQ50ND / FXDQ63ND

- 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 FXDQ63ND model.

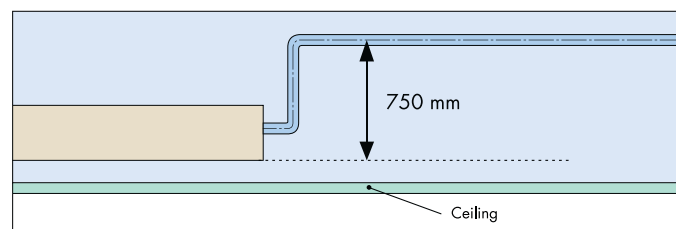


- External static pressure selectable by remote controller switching makes this indoor unit a very comfortable and flexible model.

10 Pa-30 Pa/factory set: 10 Pa for FXDQ-PD models.
15 Pa-44 Pa/factory set: 15 Pa for FXDQ-ND models.

- FXDQ-PD and FXDQ-ND models are available with a drain pump as a standard accessory.

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



INDOOR UNIT LINE-UP

VRV Indoor Units

High Static Pressure Ceiling Mounted Duct Type

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



High static pressure allows for flexible duct design

- 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

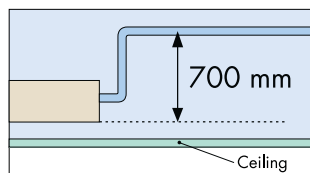
30 Pa-160 Pa for FXMQ40P

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

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 operations. With the conventional model, the airflow rate was controlled from the PC board. It is automatically adjusted to the range between approximately $\pm 10\%$ 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.

FXMQ170N/FXMQ200N/FXMQ250N



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.

INDOOR UNIT LINE-UP

VRV Indoor Units

Mid Static Pressure Ceiling Mounted Duct Type

FXMQ40A / FXMQ50A / FXMQ63A
FXMQ80A / FXMQ100A

NEW



Mid static pressure allows for flexible duct design

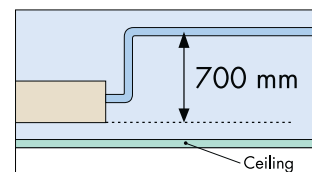
- AC fan motor is installed to suit applications where external static pressure is required at nominal capacity.

30 Pa-50 Pa for FXMQ40-80ARV16

30 Pa-60 Pa for FXMQ100ARV16

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.



High airflow rate

Airflow rate is optimised to meet wider spectrum of airflow requirements.

Low operation sound level					(dB(A))
FXMQ-A	40	50	63	80	100
Sound level (H/L)	39/37	41/39	42/40	43/41	44/42

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.



INDOOR UNIT LINE-UP

VRV Indoor Units

Ceiling Suspended Type

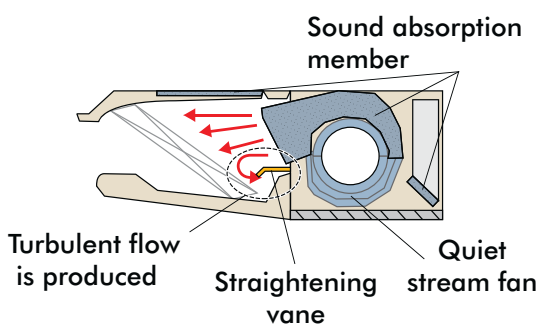
FXHQ32MA / FXHQ63MA / FXHQ100MA



Slim body with quiet and wide airflow

Adoption of QUIET STREAM FAN

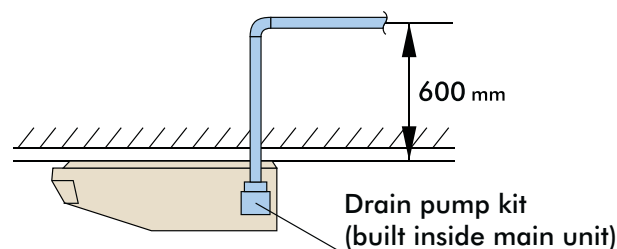
Uses the quiet stream fan and many more advanced technologies.



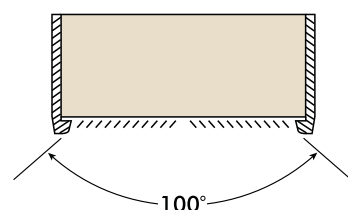
Low operation sound level			(dB(A))
FXMQ-A	32	63	100
Sound level (H/L)	36/31	39/34	45/37

Installation is easy

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



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



Maintenance is easy

- 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 everything can be performed from below the unit.
- A long-life filter is equipped as standard accessory.

* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³

INDOOR UNIT LINE-UP

VRV Indoor Units

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

FXAQ20A / FXAQ25A / FXAQ32A / FXAQ40A
FXAQ50A / FXAQ63A



- 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.
- Vertical auto-swing realises efficiency of air distribution. The louvre closes automatically when the unit stops.



INDOOR UNIT LINE-UP

VRV Indoor Units

Floor Standing Type

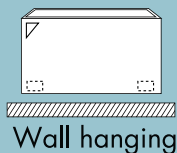
FXLQ32MA / FXLQ50MA / FXLQ63MA



Suitable for perimeter zone air conditioning

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

*8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³



Wall hanging



Floor installation

Concealed Floor Standing Type

FXNQ32MA / FXNQ50MA / FXNQ63MA



Designed to be concealed in the perimeter skirting-wall

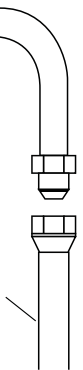
- The unit is concealed in the skirting-wall of the perimeter, that creates a classy interior design.
- The connecting port faces downwards, greatly facilitating on-site piping work.
- A long-life filter is equipped as a standard accessory.

* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³



Connecting port

Refrigerant piping



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

INDOOR UNIT LINE-UP

VRV Indoor Units

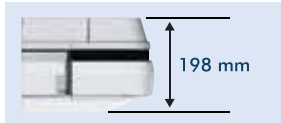
4-Way Flow Ceiling Suspended Type

FXUQ71A / FXUQ100A

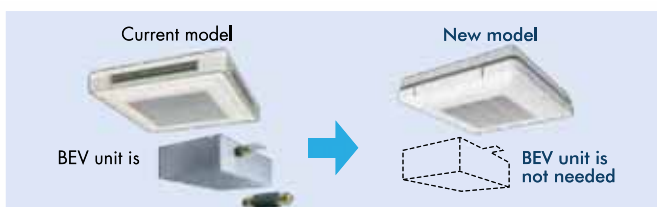


This slim and stylish indoor unit achieves optimum air distribution and can be installed without a ceiling cavity.

- Unit body and suction panel adopted round shapes and realized a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bore 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.

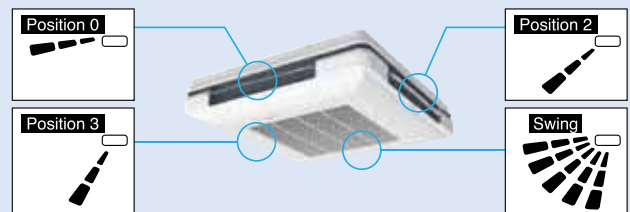


- Built-in electronic expansion valve eliminates the need for a BEV unit, which improves flexibility of installation.



- 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 realizes the optimum air distribution.

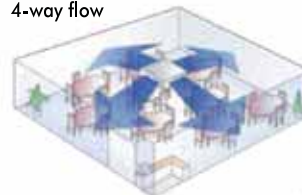
Individual airflow direction example case



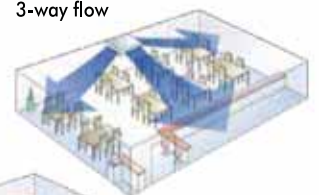
- Control of the airflow rate has been improved from 2-step to 3-step control. Auto airflow rate control can be selected with wired remote controller BRC1E62.
- Energy efficiency has been improved, thanks to the adoption of new heat exchanger with smaller tubes, DC fan motor and DC drain pump motor.
- Drain pump is equipped as a standard accessory and the lift height has been improved from 500 mm to 600 mm.
- Depending on the installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.



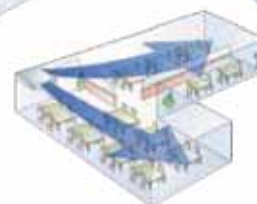
4-way flow



3-way flow



L-shaped 2-way flow



INDOOR UNIT LINE-UP

VRV Indoor Units

Clean Room Type Air Conditioner

FXBQ40/FXBQ50/FXBQ63/FXBPQ63

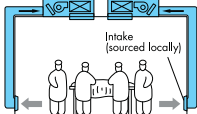
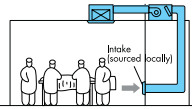


Suitable for hospitals and other clean spaces

Easily provides the high cleanliness environment required by various industries

Daikin's clean room air conditioners are specially designed to achieve an environment cleanliness class

Instances of installation by type (for a hospital)

Type		Ceiling intake type (high speed contracted flow/high ceiling model)	Floor-level intake type (gentle wind distribution/high cleanliness class model)
Features		Construction work is simple and a ceiling installation is possible. Dust filtering and air-conditioning can be started immediately.	Easy to increase the cleanliness and air-conditioning effect. A low flow speed prevents drying of the affected part and the experience of drafts.
Cleanliness class*1		100,000 to 10,000	10,000
Wind speed		1.0m/s or higher	Approximately 0.5m/s
Blow method	Integrated outlet unit model	- Concentrated air conditioning centered directly under the unit - Easy installation  Applications: Surgery prep rooms, recovery rooms, nurse stations, etc.	Total air conditioning with an emphasis on cleanliness  Applications: Operating theatres, delivery rooms, etc.
	Separate outlet unit model	- Somewhat concentrated air conditioning centered directly under the outlet - Can provide air conditioning in rooms with irregular shapes  Applications: CCU*2, sterile rooms, etc.	- Total air conditioning with an emphasis on cleanliness - Maintenance possible from a different room  Applications: Premature nurseries, newborn nurseries, ICU*3, etc.

*1. Cleanliness class. A scale expressing the cleanliness of air established by NASA (National Aeronautics and Space Administration). Class 10,000 represents a state of less than 10,000 minute particles of diameter under 0.5 μm per cubic foot. For comparison, the cleanliness of a typical office is around class 1,000,000.

*2. CCU (Cardiac Care Unit). A ward dedicated to the admission of patients with myocardial infarctions and other heart diseases.

*3. ICU (Intensive Care Unit). A ward for the careful treatment and nursing of patients with serious illnesses, injuries, or recovering from operations.

Can be easily installed in existing buildings

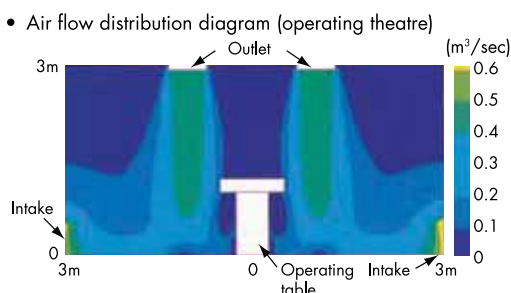
A simple structure makes it easy to realize a highly clean environment with the same installation work as for a typical air conditioner. Can be easily installed in new buildings, existing structures and refurbishments.

INDOOR UNIT LINE-UP

VRV Indoor Units

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

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



*Analysis of the floor-level intake type with the integrated outlet model.

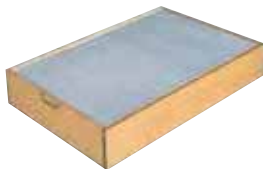
Filtration

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

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

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

• HEPA filter



*It may not be possible to maintain cleanliness in rooms with low air tightness.

FXB(P)Q-P



Installation example (in a medical facility)

Antibacterial

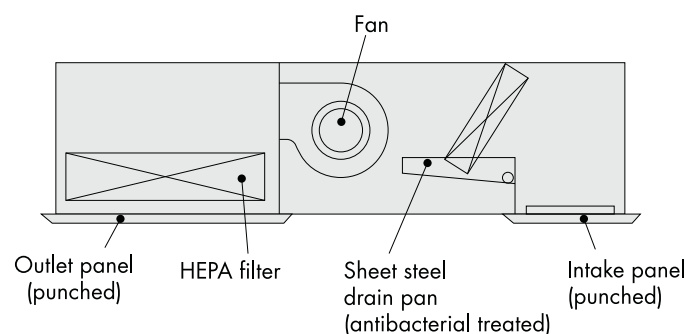
Suppresses the propagation of bacteria in the duct with a proprietary antibacterial coating

The filter implements an antibacterial treatment with a new coating, combining a silver-based inorganic

antibacterial material (an organic antibacterial material that is effective against germs) that prevents mould. This enhances the antibacterial properties of the duct. An antibacterial treatment using a silver-based organic substance reduces mould.

Antibacterial fibre used in the intake filter

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



*Please be aware that antibacterial products suppress the propagation of bacteria but do not have a sterilising effect. Also, mould may grow in places where dust or soot accumulates.

*A material for which the registered safety was verified by Japanese chemicals and dangerous substances regulation law (Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.) is used for the antibacterial material.

*Periodic maintenance is required (such as cleaning the air filter and washing the inside to the unit).

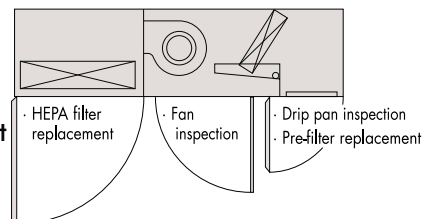
Labour-saving

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

The HEPA filter has an exceptionally long life and does not require maintenance for about five years. Daikin has aimed to reduce maintenance work

from a variety of perspectives, including a service access system that eliminates the necessity for service panels.

*The maintenance period differs significantly according to the cleanliness of the room and hours of air conditioner operation.



Quiet

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

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

*Operating noise may be greater than these values in highly reflective locations.

SPECIFICATIONS

VRV Indoor Units

Ceiling Mounted Cassette Round Flow & Round Flow with Sensing (Optional)

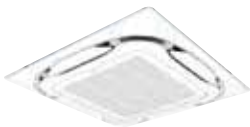


MODEL		FXFSQ25ARV16	FXFSQ32ARV16	FXFSQ40ARV16	FXFSQ50ARV16	FXFSQ63ARV16	FXFSQ80ARV16	FXFSQ100ARV16	FXFSQ125ARV16	FXFSQ140ARV16
Power supply		1-phase, 220 - 240V, 50Hz								
Cooling capacity	Btu/h	9600	12300	15400	19100	24200	30700	38200	47800	54600
	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Heating capacity	Btu/h	10900	13600	17100	21500	27300	34100	42700	54600	54600
	kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	16.0
Casing		Galvanised steel plate								
Airflow rate (H/HM/M/ML/L)	m³/min	13/12.5/ 11.5/11/10		17/13.5/ 12.5/12/11	23/20.5/ 19/14.5/11	23.5/21/ 20/16/13.5	24.5/22/ 20.5/20/15	33.5/30.5/ 27/23.5/21	34.5/31.5/ 28.5/25.5/23	35.5/32.5/ 29.5/26.5/23
	cfm	459/441/406/ 388/353		600/477/441/ 424/388	812/724/ 671/512/388	830/742/ 706/565/477	865/777/ 724/706/530	1,183/1,077/ 954/830/742	1218/1112/ 1006/901/812	1,254/1,148/ 1,042/936/812
Sound level (H/HM/M/ML/L)	dB(A)	30/29.5/ 28.5/28/27		35/29.5/ 29/28/27	38/35/34.5/ 29.5/27	38/36/35.5/ 31.5/28	39/37/36/ 35.5/31	44/41/ 38/35/33	45/42.5/ 39.5/37/35	46/43.5/ 40.5/38/35
Dimensions (H×W×D)		mm	256×840×840					298×840×840		
Machine weight		kg	19			22		25		26
Piping connections	Liquid (Flare)	mm	ø6.4			ø9.5				
	Gas (Flare)		ø12.7			ø15.9				
	Drain		VP25 (External Dia, 32/Internal Dia, 25)							
Standard Panel (Non Sensing) (White)	Model		BYCQ125EAF6 (Fresh White)							
Panel (Non Sensing) (White)	Dimensions (HxWxD)	mm	50x950x950							
	Weight	kg	5.5							
	Model		BYCQ140EEF6 (Fresh White)							
Sensing Panel (White)	Dimensions (HxWxD)	mm	50x950x950							
	Weight	kg	5.5							

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. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Decoration Panel (Option)			Round Flow Type FXFSQ-A	
Standard panel	Model		BYCQ125EAF6 (Fresh White) / BYCQ125EAK (Black)	
	Dimensions (H×W×D)	mm	50×950×950	
	Weight	kg	5.5	
	Model		BYCQ140EEF6 (Fresh White) / BYCQ125EEK	
Sensing panel	Dimensions (H×W×D)	mm	50×950×950	
	Weight	kg	5.5	
	Model		BYCQ125EAPF (Fresh White)	
Designer panel	Dimensions (H×W×D)	mm	97×950×950	
	Weight	kg	6.5	
Auto grille panel	Model		BYCQ125EASF (Fresh White)	
	Dimensions (H×W×D)	mm	105×950×950	
	Weight	kg	8	



Standard panel
BYCQ125EAF6 (Fresh White)



Standard panel
BYCQ125EAK (Black)



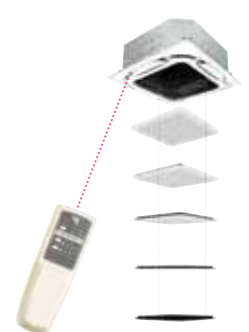
Designer panel
BYCQ125EAPF (Fresh White)



Sensing panel
BYCQ140EEF6 (Fresh White)



Sensing panel
BYCQ125EEK (Black)



Auto grille panel*2
BYCQ125EASF (Fresh White)

Note: When opting Black panel, wireless remote controller model will be BRC7M634K

SPECIFICATIONS

VRV Indoor Units

Ceiling Mounted Cassette (Compact Multi-Flow) Type



MODEL			FXZQ20MVE9	FXZQ25MVE9	FXZQ32MVE9	FXZQ40MVE9	FXZQ50MVE9
Power supply			1-phase, 220-240 V/220 V, 50 Hz				
Cooling capacity		Btu/h	7500	9600	12300	15400	19100
		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		Btu/h	8500	10900	13600	17100	21500
		kW	2.5	3.2	4.0	5.0	6.3
Casing			Galvanised steel plate				
Airflow rate (H/L)		m³/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	dB(A)	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	ø 6.4				
	Gas (Flare)		ø 12.7				
	Drain		VP20 (External Dia, 26/Internal Dia, 20)				
Panel (Option)	Model		BYFQ60B3W1				
	Colour		White (6.5Y9.5/0.5)				
	Dimensions(H×W×D)	mm	55×700×700				
	Weight	kg	2.7				

Note: Specification 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.

SPECIFICATIONS

VRV Indoor Units

Ceiling Mounted Cassette (Double Flow) Type



MODEL			FXCQ25AVM	FXCQ32AVM	FXCQ40AVM	FXCQ50AVM	FXCQ63AVM	FXCQ80AVM	FXCQ125AVM
Power supply			1-phase, 220-240 V/50 Hz						
Cooling capacity		Btu/h	9600	12300	15400	19100	24200	30700	47800
		kW	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity		Btu/h	10900	13600	17100	21500	27300	34100	54600
		kW	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Casing			Galvanised steel plate						
Airflow rate (HH/M/L)		m³/min	11.5/10.5/ 9.5/8.5/8		12/11/ 10.5/9.5/8.5	15/14/ 13/11.5/10.5	16/15/14/ 12.5/11.5	26/24/ 22.5/20.5/18.5	32/29.5/ 27.5/25/22.5
		cfm	406/371/ 335/300/282		424/388/ 371/335/300	530/494/ 459/406/371	565/530/ 494/441/406	918/847/ 794/724/653	1130/1041/ 971/883/794
Sound level (H/L)	220 V	dB(A)	34/33/ 31/30/29	34/33/ 32/31/30	36/35/ 33/32/31	37/36/ 35/33/31	39/38/ 37/35/32	42/40/ 38/36/33	46/44/ 42/40/38
Dimensions (H×W×D)		mm	305x775x620			305x990x620		305x1,445x620	
Machine weight		kg	19			22	25	33	38
Piping connections	Liquid (Flare)		ø6.4				ø9.5		
	Gas (Flare)	mm	ø12.7				ø15.9		
	Drain		VP25 (External Dia, 32/Internal Dia, 25)						
Panel (Option)	Model		BYBCQ40CF			BYBCQ63CF		BYBCQ125CF	
	Colour		Fresh white (6.5Y 9.5/0.5)						
	Dimensions (H×W×D)	mm	55x1,070x700			55x1,285x700		55x1,740x700	
	Weight	kg	10			11		13	

Ceiling Mounted Cassette Corner Type



MODEL			FXEQ20AV36	FXEQ25AV36	FXEQ32AV36	FXEQ40AV36	FXEQ50AV36	FXEQ63AV36
Power supply			1-phase, 230V, 50 Hz					
Cooling Capacity	Btu/h		7500	9600	12300	15400	19100	24200
	kW		2.2	2.8	3.6	4.5	5.6	7.1
Heating Capacity	Btu/h		8500	10900	13600	17100	21500	27300
	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	m³/min	6.0/5.4/ 4.9/4.4/4	6.9/6.4/ 5.8/5.3/4	8.0/7.5/ 7.0/6.3/5	9.8/8.8/ 7.8/7.0/6	12.5/11.4/ 10.4/9.5/8	15.0/13.6/ 12.2/11.4/9.8
		cfm	212/191/ 173/155/14	244/226/ 205/187/16	282/265/ 247/222/19	346/311/ 275/247/21	441/402/ 367/335/30	530/480/ 431/388/346
Piping connections	Liquid Pipes	mm	ø 6.4 (Flare Connection)					ø 9.5 (Flare Connection)
	Gas Pipes	mm	ø 12.7 (Flare Connection)					ø 15.9 (Flare Connection)
	Drain Pipe	mm	PVC 26 (External dia. 26) (Internal dia. 20)					
Mass		Kg	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
	Model		BYEP40AW16				BYEP63AW16	
	Panel Colour		Fresh White					
Decoration Panel (Options)	Dimensions (HxWxD)	mm	80x950x550				80x1350x550	
	Air Filter		Resin net (with mould resistance)					
	Mass	Ka	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: 0m
- 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.

SPECIFICATIONS

VRV Indoor Units

Slim Ceiling Mounted Duct Type (700 mm width type)



MODEL		with drain pump	FXDQ20PDV36	FXDQ25PDV36	FXDQ32PDV36
Power supply			1-phase, 220-240 V/220 V, 50 Hz		
Cooling capacity		Btu/h	7500	9600	12300
		kW	2.2	2.8	3.6
Heating capacity		Btu/h	8500	10900	13600
		kW	2.5	3.2	4.0
Casing			Galvanised steel plate		
Airflow rate (HH/H/L)		m ³ /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	33/31/29	33/31/29
Dimensions (H×W×D)		mm	200×700×620	200×700×620	200×700×620
Machine weight		kg	23.0	23.0	23.0
Piping connections	Liquid (Flare)	mm	ø 6.4	ø 6.4	ø 6.4
	Gas (Flare)		ø 12.7	ø 12.7	ø 12.7
	Drain		VP20 (External Dia, 26/Internal Dia, 20)		

Slim Ceiling Mounted Duct Type (900/1,100 mm width type)



MODEL		with drain pump	FXDQ40NDV36	FXDQ50NDV36	FXDQ63NDV36
Power supply			1-phase, 220-240 V/220 V, 50 Hz		
Cooling capacity		Btu/h	15400	19100	24200
		kW	4.5	5.6	7.1
Heating capacity		Btu/h	17100	21500	27300
		kW	5.0	6.3	8.0
Casing			Galvanised steel plate		
Airflow rate (HH/H/L)		m ³ /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	44-152		
Sound level (HH/H/L) *1*3		dB(A)	34/32/30	35/33/31	36/34/32
Dimensions (H×W×D)		mm	200×900×620	200×900×620	200×1,100×620
Machine weight		kg	27.0	28.0	31.0
Piping connections	Liquid (Flare)	mm	ø 6.4	ø 6.4	ø 9.5
	Gas (Flare)		ø 12.7	ø 12.7	ø 15.9
	Drain		VP20 (External Dia, 26/Internal Dia, 20)		

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- 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: Values are based on the following conditions: FXDQ-P: external static pressure of 10 Pa; FXDQ-N: 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-P models and 15 Pa for FXDQ-N 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

VRV Indoor Units

Mid Static Pressure Ceiling Mounted Duct Type



MODEL		with drain pump	FXMQ40ARV16	FXMQ50ARV16	FXMQ63ARV16	FXMQ80ARV16	FXMQ100ARV16	
Power supply			1-phase, 220-240 V, 50 Hz					
Cooling capacity		Btu/h	15400	19100	24200	30700	38200	
		kW	4.5	5.6	7.1	9.0	11.2	
Heating capacity		Btu/h	17100	21500	27300	34100	42700	
		kW	5.0	6.3	8.0	10.0	12.5	
Casing			Galvanized Steel Plate					
Airflow rate (HH/H/L)		m³/min	15/12	19/16	24/20	30/25	34/29	
		cfm	530/425	671/565	848/706	1060/883	1200/1024	
External static pressure		Pa	30-50					30-60
Sound level (H/L)		dB(A)	39/37	41/39	42/40	43/41	44/42	
Dimensions (H×W×D)		mm	300x700x700			300x1000x700		
Machine weight		kg	27	28		35	36	
Piping connections	Liquid (Flare)	mm	6.4 (Flare Connection)			9.5 (Flare Connection)		
	Gas (Flare)		12.7 (Flare Connection)			15.9 (Flare Connection)		
	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.

SPECIFICATIONS

VRV Indoor Units

Ceiling Mounted Duct Type



MODEL			FXMQ20PVE	FXMQ25PVE	FXMQ32PVE	FXMQ40PBV36	FXMQ50PBV36
Power supply			1-phase, 220-240 V/220 V, 50 Hz				
Cooling capacity	Btu/h		7500	9600	12300	15400	19100
	kW		2.2	2.8	3.6	4.5	5.6
Heating capacity	Btu/h		8500	10900	13600	17100	21500
	kW		2.5	3.2	4.0	5.0	6.3
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)	m ³ /min		9/7.5/6.5		9.5/8/7	16/13/11	18/16.5/15
	cfm		318/265/230		335/282/247	565/459/388	635/582/530
External static pressure	Pa		30-100 (50) *2			30-160 (100) *2	50-200 (100) *2
Sound level (HH/H/L)	dB(A)		33/31/29		34/32/30	39/37/35	41/39/37
Dimensions (H×W×D)	mm		300X550X700			300X700X700	300X1,000X700
Machine weight	kg		25			27	35
Piping connections	Liquid (Flare)	mm	ø 6.4				
	Gas (Flare)		ø 12.7				
	Drain		VP25 (External Dia, 32/Internal Dia, 25)				

MODEL			FXMQ63PBV36	FXMQ80PBV36	FXMQ100PBV36	FXMQ125PBV36	FXMQ140PBV36
Power supply			1-phase, 220-240 V/220 V, 50 Hz				
Cooling capacity	Btu/h		24200	30700	38200	47800	54600
	kW		7.1	9.0	11.2	14.0	16.0
Heating capacity	Btu/h		27300	34100	42700	54600	61400
	kW		8.0	10.0	12.5	16.0	18.0
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)	m ³ /min		19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
	cfm		688/618/565	883/794/706	1,130/953/812	1,377/1,165/988	1,624/1,377/1,130
External static pressure	Pa		50-200 (100) *2			50-200 (100) *2	50-140 (100) *2
Sound level (HH/H/L)	dB(A)		42/40/38	43/41/39	43/41/39	44/42/40	46/45/43
Dimensions (H×W×D)	mm		300x1,000x700			300x1,400x700	
Machine weight	kg		35			45	46
Piping connections	Liquid (Flare)	mm	9.5				
	Gas (Flare)		15.9				
	Drain		VP25 (External Dia, 32/Internal Dia, 25)				

Note: Specifications are based on the following conditions

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

SPECIFICATIONS

VRV Indoor Units

Ceiling Mounted Duct Type



MODEL		FXMQ170NVE6	FXMQ200NVE6	FXMQ250NVE6
Power supply		1-phase, 220, 240 V/220 V, 50 Hz		
Cooling capacity	Btu/h	65800	76400	95500
	kW	19.3	22.4	28.0
Heating capacity	Btu/h	71600	83300	1,07,500
	kW	21.0	25.0	31.5
Casing		Galvanised steel plate		
Airflow rate (H/L)	m ³ /min	58/50	65/58	80/73
	cfm	2,047/1,765	2,295/2,047	2,825/2,578
External static pressure		Pa	100-140 *2	190-270 *2
Sound level (H/L)	220V	dB(A)	45/42	47/45
Dimensions (H×W×D)		mm	440x1,190x1,090	440x1,490x1,090
Machine weight		kg	110	130
Piping connections	Liquid (Flare)	mm	ø 9.5	
	Gas (Flare)		ø 19.1	
	Drain		External Dia 32	

Ceiling Suspended Type



MODEL		FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE
Power supply		1-phase, 220-240 V/220 V, 50 Hz		
Cooling capacity	Btu/h	12300	24200	38200
	kW	3.6	7.1	11.2
Heating capacity	Btu/h	13600	27300	42700
	kW	4.0	8.0	12.5
Casing		White (10Y9/0.5)		
Airflow rate (H/L)	m ³ /min	12/10	17.5/14	25/19.5
	cfm	424/353	618/494	883/688
Sound level (H/L) 220V		dB(A)	36/31	39/34
Dimensions (H×W×D)		mm	195×960×680	195×1,160×680
Machine weight		kg	24.0	28.0
Piping connections	Liquid (Flare)	mm	ø 6.4	ø 9.5
	Gas (Flare)		ø 12.7	ø 15.9
	Drain		VP20 (External Dia, 26/Internal Dia, 20)	

Note: Specifications are based on the following conditions

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

VRV Indoor Units

4-way Flow Ceiling Suspended Type



MODEL		FXUQ71AVEB	FXUQ100AVEB
Power supply		1-phase, 220-240 V/220-230V, 50 Hz	
Cooling capacity	Btu/h	27300	38200
	kW	8	11.2
Heating capacity	Btu/h	30700	42700
	kW	9.0	12.5
Casing		Fresh white	
Airflow rate (H/L)	m³/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)	9.5	
	Gas (Flare)	15.9	
	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.

Wall Mounted Type



MODEL			FXAQ20ARVE6	FXAQ25ARVE6	FXAQ32ARVE6	FXAQ40ARVE6	FXAQ50ARVE6	FXAQ63ARVE6
Power supply			1-phase, 220 V/220 V, 50 Hz					
Cooling capacity	Btu/h		7500	9600	12300	15400	19100	24200
	kW		2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Btu/h		8500	10900	13600	17100	21500	27300
	kW		2.5	3.2	4.0	5.0	6.3	8.0
Casing			White (N9.5)					
Airflow rate (H/L)	m³/min		7.5/4.5	9/5	11/5.5	13/9	15/12	19/14
	cfm		265/159	318/177	388/194	459/318	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		298×929×258					
Machine weight	kg		13.0					
Piping connections	Liquid (Flare)	mm	ø 6.4					ø 9.5
	Gas (Flare)		ø 12.7					ø 15.9
	Drain		VP13 (External Dia, 18/Internal Dia, 13)					

SPECIFICATIONS

VRV Indoor Units

Floor Standing Type/Concealed Floor Standing Type



FXLQ



FXNQ

Heating capacity

MODEL		FXLQ32MAVE	FXLQ50MAVE	FXLQ63MAVE
		FXNQ32MAVE	FXNQ50MAVE	FXNQ63MAVE
Power supply		1-phase, 220-240 V/220 V, 50 Hz		
Cooling capacity	Btu/h	12300	19100	24200
	kW	3.6	5.6	7.1
Heating capacity	Btu/h	13600	21500	27300
	kW	4.0	6.3	8.0
Casing		FXLQ: Ivory white (5Y7.5/1)/FXNQ: Galvanised steel plate		
Airflow rate (H/L)	m ³ /min	8/6	14/11	16/12
	cfm	282/212	494/388	565/424
Sound level (H/L)	220V dB(A)	35/32	39/34	40/35
Dimensions (H×W×D)	FXLQ mm	600×1,140×222	600×1,420×222	600×1,420×222
	FXNQ mm	610×1,070×220	610×1,350×220	610×1,350×220
Machine weight	FXLQ kg	30.0	36.0	36.0
	FXNQ kg	23.0	27.0	27.0
Piping connections	Liquid (Flare) mm	ø 6.4	ø 6.4	ø 9.5
	Gas (Flare) mm	ø 12.7	ø 12.7	ø 15.9
	Drain	21O.D.		

Note: Specifications are based on the following conditions:

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



Clean Room Type Air Conditioner FXB(P)Q-P

Type		Integrated outlet unit model			Separate outlet unit model
MODEL	Indoor unit	FXBQ40PVE	FXBQ50PVE	FXBQ63PVE	FXBPQ63PVE
	Outlet unit	Integrated with the indoor unit			BAFH82A63
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz			
Cooling capacity	Btu/h	15400	19100	24200	24200
	kW	4.5	5.6	7.1	7.1
Power consumption	kW	0.31	0.31	0.45	0.45
Intake filter efficiency *1		70% by gravimetric method			
Outlet HEPA filter efficiency *2		99.97% by DOP method *5			
Indoor unit weight	kg	140 *3	185 *3	120 *6	
	Casing	Galvanised steel plate			
Airflow rate (H/L)	m ³ /min	19.5/17.5		26/22.5	
	cfm	688/618		918/794	
Sound level (H/L) *4		44/42			
Dimensions (H×W×D)		492×1,788×1,000	492×1,788×1,300	492×1,078×1,300	
Outlet unit weight		65 *3			
Piping connections	Liquid (Flare) mm	ø6.4	ø9.5		
	Gas (Flare) mm	ø12.7	ø15.9		
	Drain	PT1B			
Filter(Optional)	HEPA filter	BAFH82A50		BAFH82A63	
Panel (Option)	Ceiling intake type	BYB82A50C		BYB82A63C	BYB82A63CP
	Floor-level intake type	BYB82A50W		BYB82A63W	BYB82A63WP

Note: Specifications are based on the following conditions:

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

(See Engineering Data Book for details.)

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

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

*3: Weight including HEPA filter and panel.

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

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

*6: Weight including panel.

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

SPECIFICATIONS

VRV Outdoor Units

MODEL			RX(Y)Q4ARV16	RX(Y)Q5ARV16	RX(Y)MQ6	RX(Y)MQ8	RX(Y)MQ10 ARY16	RX(Y)MQ12 ARY16
Power Supply			1 Phase, 220-240V, 50Hz			3 Phase, 380-415V, 50Hz		
Cooling Capacity		Btu/h	38,200	47,700	52,900	76,400	95,500	1,14,000
		Kw	11.2	14.0	15.5	22.4	28	33.5
Heating Capacity		Btu/h	38,200	47,700			95,500	1,14,000
		Kw	11.2	14.0			28	33.5
Capacity Control		%	24-100	16-100	24-100	20-100	11-100	
Casing Colour			Ivory White					
Compressor	Type		Hermetically Sealed Swing Type			Hermetically Sealed Scroll Type		
	No. Of compressor		1	1	1	1	1	1
Airflow Rate		m3/min	76		106	140	182	
Dimensions (HXWXD)		mm	990X940X320		1345x900x320	1430x940x320	1,627X940X460	
Machine weight		Kg	72	79	125	132	172	178
Sound level		dB(A)	52	53	53	57	59	60
Operation Range	Cooling	°CDB	0~49		-5~46		0~49	
	Heating	°CDB	0~20		-20~15.5		0~20	
Refrigerant	Type		R410A					
	Charge	Kg			4	5.8		
	Liquid	mm	ø9.5 (Flare)		ø9.5 (Flare)	ø9.5 (Brazing)	ø9.5 (Brazing)	ø12.7 (Brazing)
	Gas	mm	ø15.9 (Flare)		ø19.1 (Brazing)	ø19.1 (Brazing)	ø22.2 (Brazing)	ø25.4 (Brazing)
Combination Ratio		%				50-130%		

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.



VRV S

CONTROL
SYSTEM



CONTROL SYSTEMS

Smart Control for Residential Overview



Access within the premises

Daikin Smart Control SVM Series provides the ability of centralised control for Daikin VRV air conditioners throughout the home with a smartphone. Homeowners can control all of the core control functions in Daikin air conditioning system effortlessly from one room to another.



Access anywhere outside

With Daikin Smart Control SVM Series, the home temperature can be controlled from anywhere, and homeowners can always return from work or vacation to a comfortable cooling home. This also takes the pressure off homeowners on forgetting to switch off the air conditioners when away.



Advanced control

Daikin Smart Control SVM Series communicates with all of Daikin VRV air conditioners, allowing homeowners to access the core control functions on a smartphone, including temperature set points, operation mode, fan speed, airflow direction and error notification.



Monitoring

Homeowners can enjoy the peace of mind and convenience of monitoring air conditioners with Daikin Smart Control SVM Series from a smartphone.

CONTROL SYSTEMS

Smart Control for Residential Overview

For medium size apartments, condominiums and landed properties

- **Connect up to 16 (32*) Indoor Units**
- **Control and monitor VRV system from smartphone**

*Additional modbus adaptor (DTA116A51) is required



System Architecture

- SVM
- VRV Systems
- DTA116A51 (Modbus Card)
- Router
- Smartphone

DAIKIN Supplied Equipments

Model	Items
SVM	Application Controller
DTA116A51	MODBUS Adaptor

Note: wi-fi connection should be in customer scope

Category	Function	Detail
Access security	User login	User name, password
	Device registration	Registered device (Smartphone only) can be accessed through the internet
Main screen	Status monitoring Manual operation	On/Off, Set point, Operation mode, Fan step, Flap, Error code On/Off, Set point, Operation Mode, Fan step, Flap
Automatic control	Off timer	One time off timer on/off
System setting	Language	English
	Password setting	Available
	User administration	Add/Modify/Delete user, Set User name, Password, Accessible points

CONTROL SYSTEMS

Individual Control Systems for VRV Indoor Units

Navigation remote controller (Wired remote controller) (Optional)

BRC1E63 & BRC1F61
(Only for FXEQ Series)



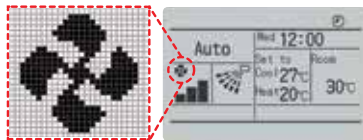
Clear display

• Dot matrix display

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

• Backlight display

Backlight display helps operating in dark rooms.



Simple operation

• Large buttons and arrow keys

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



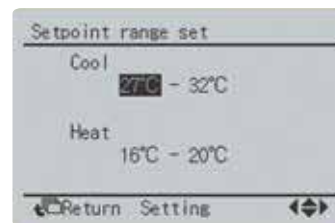
• Guide on display

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

Energy saving

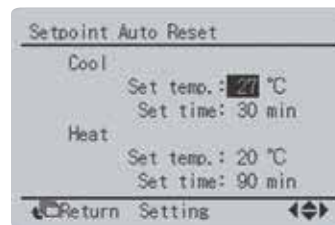
Set point range set

- 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.



Set point auto-reset

- Even if the set temperature is changed, it returns to the preset temperature after a preset period of time.
- Period selectable from 30 min/60 min/90 min/120 min.



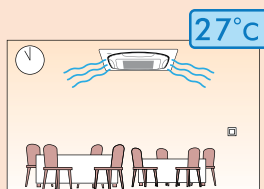
Off timer

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

Restaurant sample

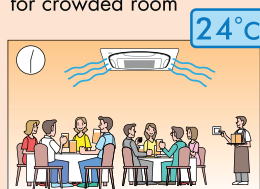
Restaurant opened

Temperature is set to 27°C



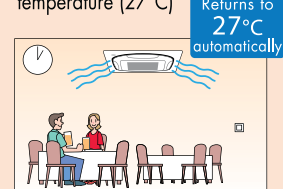
Full tables at lunchtime

Then is lowered to 24°C for crowded room



After 30 minutes*

Automatically returns to preset temperature (27°C)



*Setting possible for after 30, 60, 90, and 120 minutes.

CONTROL SYSTEMS

Individual Control Systems for VRV Indoor Units

Convenience

• Setback (default:OFF)

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

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

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.

Weekly schedule

- Five 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.
- Three independent schedules can be set. (e.g. summer, winter, mid-season)

Schedule nr 1

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

Return Setting

College classroom sample (a summer Monday case)

1) 8:30 ON

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

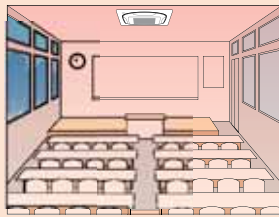
ON



2) 10:00 OFF

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

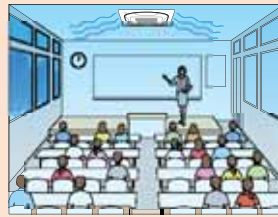
OFF



3) 13:00 ON

When the third period starts, operation starts again.

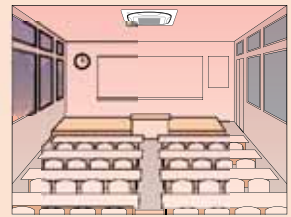
ON



4) 15:00 OFF

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

OFF



Comfort

• Individual airflow direction (*1)

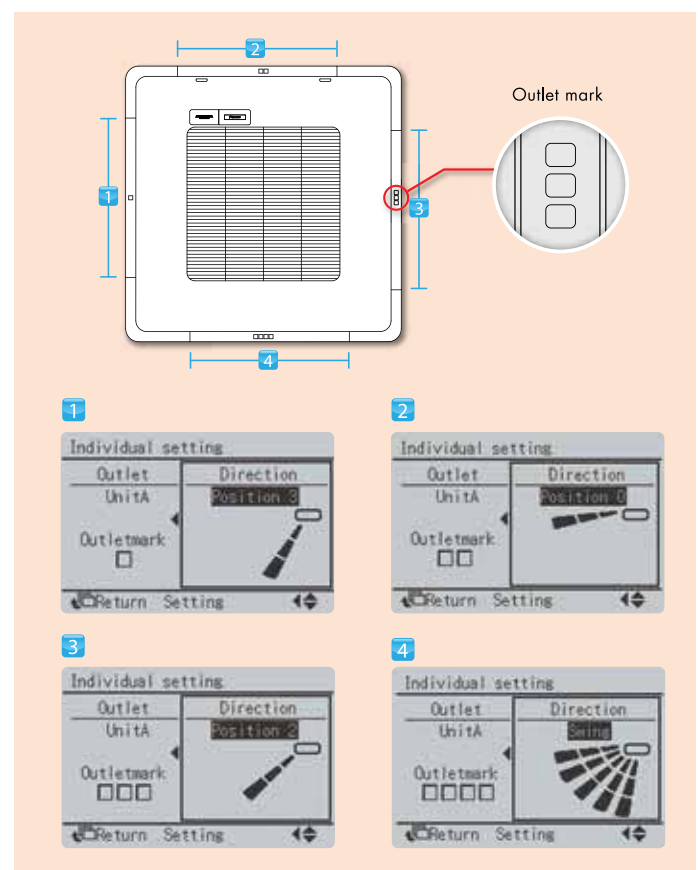
Airflow direction of each of the four air outlets can be controlled individually. (Positions 0 to 4, Swing, and No individual setting are selectable.)

• Auto airflow rate (*2)

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

*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



CONTROL SYSTEMS

Individual Control Systems for VRV Indoor Units

Wired remote controller (Option)

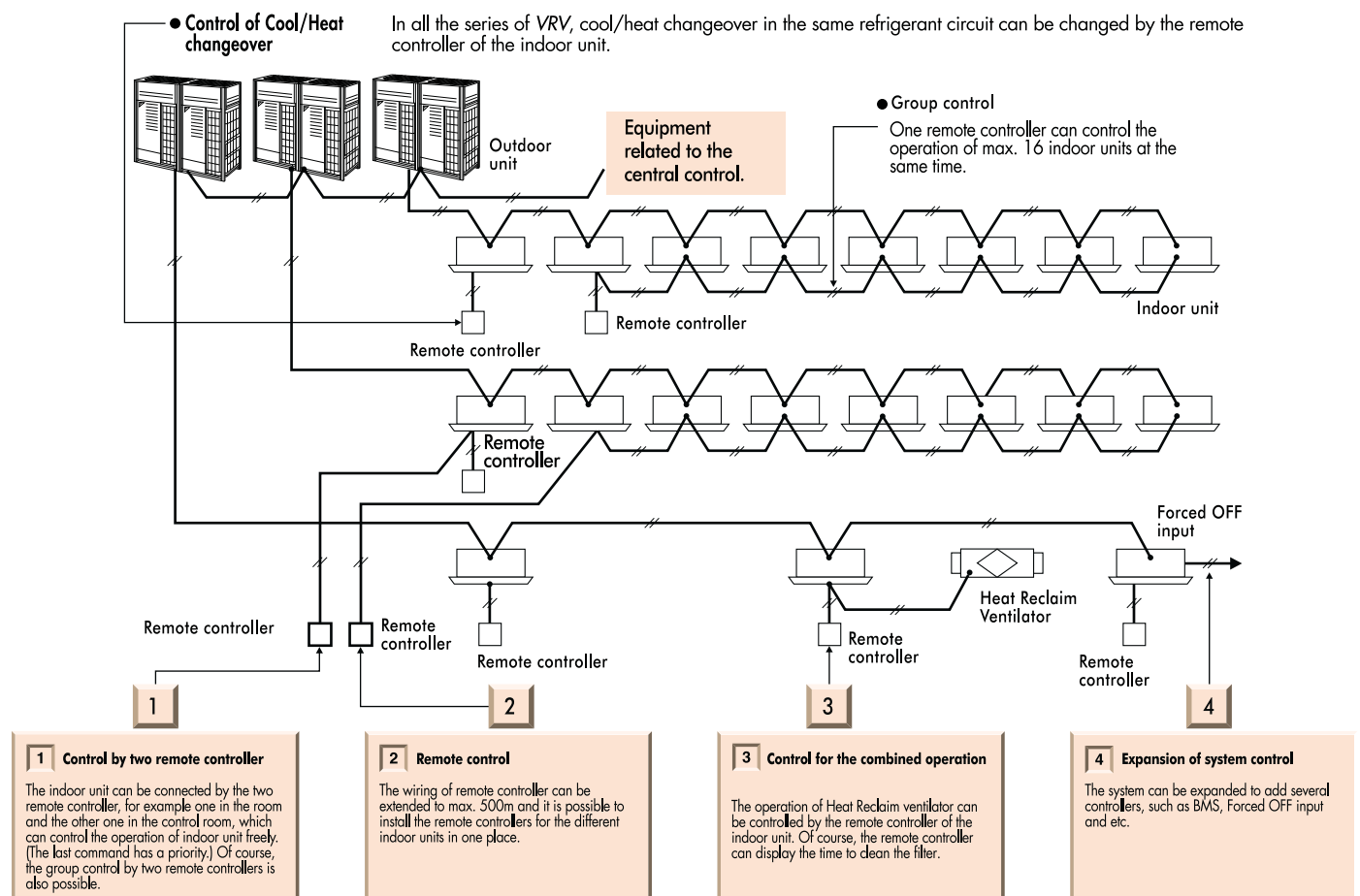
- **Displays current airflow, swing, temperature operating mode and timer settings.**

*Easier to read because LCD screen is larger.



- Digital display lets you set temperature in 1°C 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 monitor malfunctions in the system for a min. of 40 items, and is equipped with a self-diagnosis function that lets you know through message immediately when a malfunction occurs.
- Lets you carry out various field setting 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.



CONTROL SYSTEMS

Individual Control Systems for VRV Indoor Units

Wireless remote controller (Option)

- Then same operation mode and setting as with wired remote controllers are possible.

*Individual airflow direction, auto air-flow 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 wall or ceiling is included.

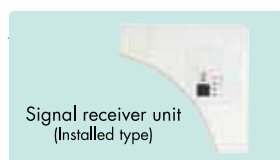
- A signal receiver unit (installed type) for a Ceiling Mounted Cassette (Round Flow, Compact Multi Flow, Double Flow) type, Ceiling Suspended Type and Wall Mounted type is mounted into the Indoor unit.



Signal receiver unit
(Installed type)



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

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



Exposed type
(BRC2C51)



Concealed type
(For hotel use)
(BRC3A61)

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

*Wireless remote controller and signal receiver unit are sold as a set
*Refer to page 90 for the name of each model

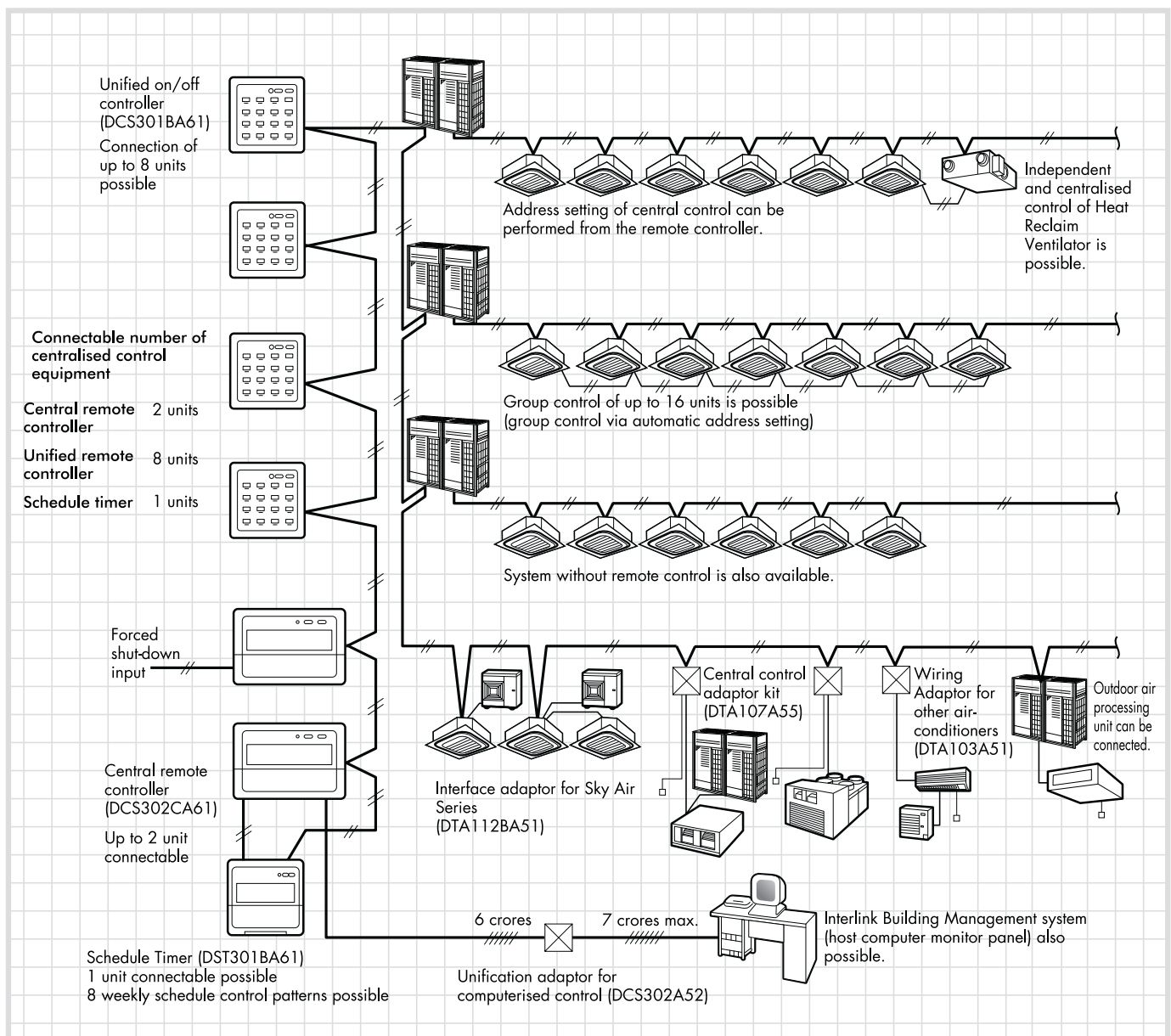
Wide variation of remote controller for VRV indoor unit

	FXFSQ	FXZQ	FXCQ	FXUQ	FXEQ	FXDQ	FXMQ	FXHQ	FXAQ	FXL(N)Q	FXVQ
Navigation remote controller (Wired remote controller) BRC1E63	●	●	●	●	●	●	●	●	●	●	
Wired remote controller (BRC1C62)		●		●		●	●	●	●	●	
Wireless remote controller*	●	●	●	●	●	●	●	●	●	●	
Simplified remote controller (Exposed type) (BRC2C51)						●	●			●	
Simplified remote controller (Concealed type: for HOTEL use) (BRC3A61)						●	●			●	

CONTROL SYSTEMS

Centralised Control Systems for VRV Indoor Units

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



- Certain indoor units limit the functions of some control systems.

CONTROL SYSTEMS

Centralised Control Systems for VRV Indoor Units

Residential remote controller (Optional)

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

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

*For residential use only. Cannot be used with other centralised control equipment.



DCS303A51

Central remote controller (Optional)

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

- Max. 64 group (128 indoor units) controllable.
- Max. 128 group (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 1,000m (Total: 2,000m).
- 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.



DCS302CA61

Unified ON/OFF controller (Optional)

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

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



DCS301BA61

Schedule timer (Optional)

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. 8 hours back-up power supply.
- Max. wiring length 1,000m (Total: 2,000m).
- Compact size casing (Thickness: 16mm).
- Connectable with Central Remote controller, Unified ON/OFF controller and BMS system.



DST301BA61

CONTROL SYSTEMS

Advanced Control Systems for VRV Indoor Units

Intelligent Manager

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

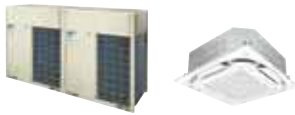


DCM601A51

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

Individual air-conditioning control

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

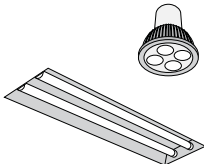


Lighting control

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

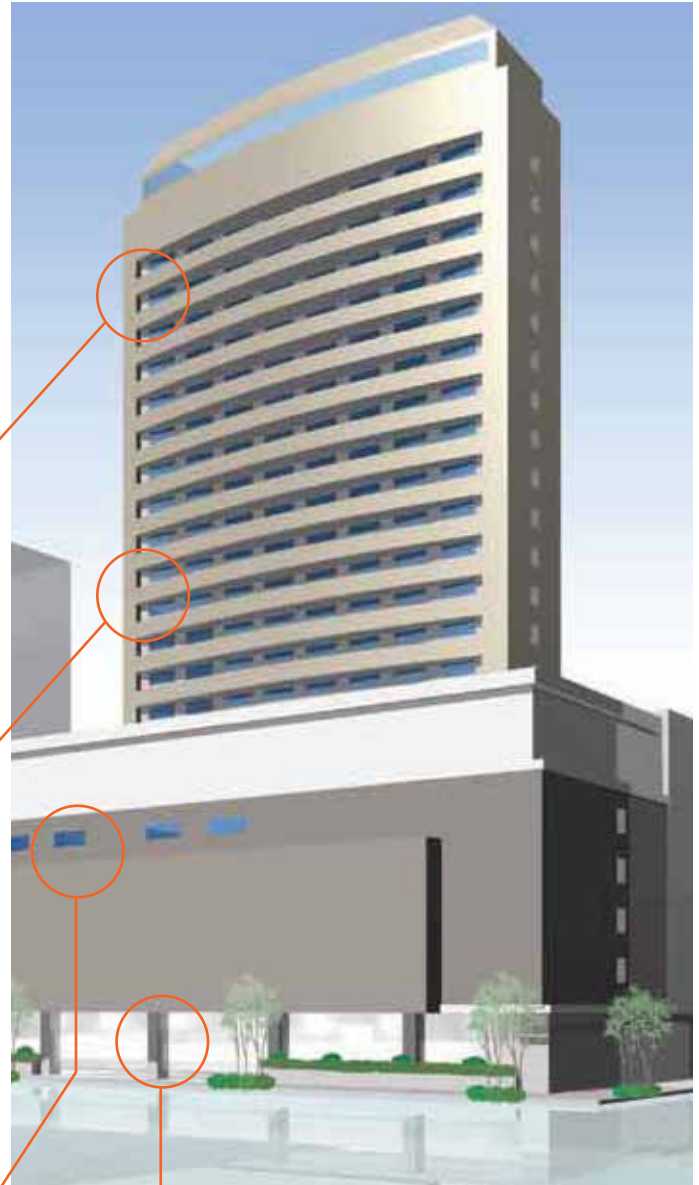


DALI-compatible



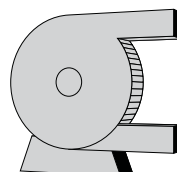
Air conditioning control for large spaces

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

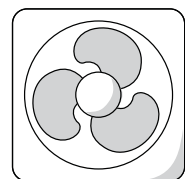


Building equipment control

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



Pump



Fan

CONTROL SYSTEMS

For Energy Saving & Comfort

Intelligent Touch Manager maximises the advantages of VRV features

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

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

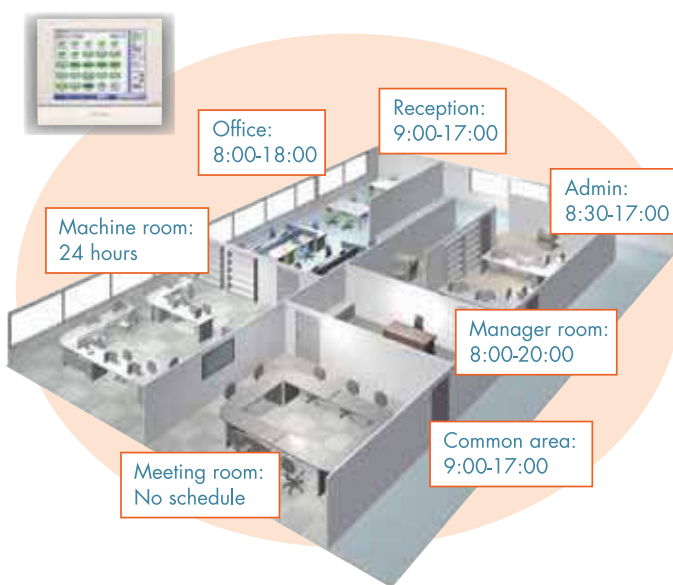
It is also easy to use with standardised remote Web Access from your PC.

It can manage a total of 650 management points consisting of up to 512 Daikin indoor unit groups

(up to 1024 indoor units) along with building equipment control / monitoring with Digital Inputs / Output

(Di/Dio), Analog Inputs / Output (Ai/Ao) and Pulse input (Pi) optional devices.

Schedule the operation time for each application.

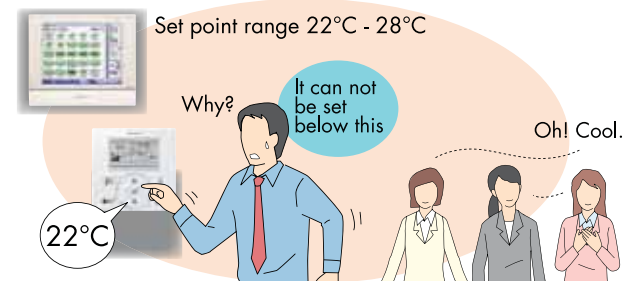


Define the set point range that users can change.

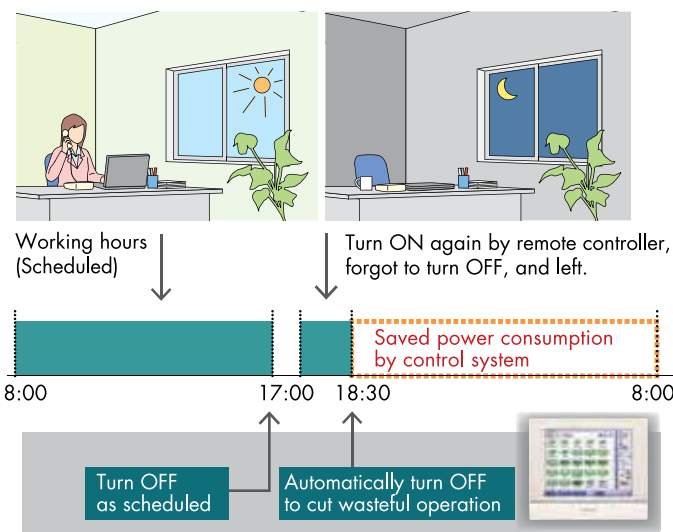
With Remote controller



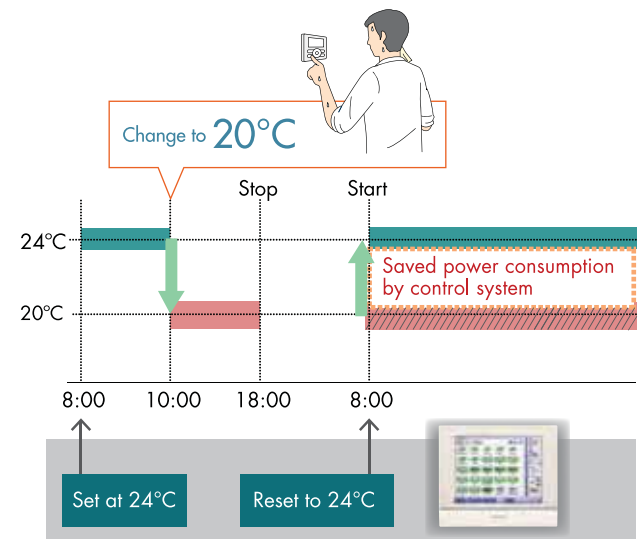
With Control System



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



Reset set point regularly.



CONTROL SYSTEMS

Advanced Control Systems for VRV Indoor Units

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

Lighting control (Optional)

Connection to DALI - compatible lighting control system

DALI-compatible

Please contact your local sales office for details.

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

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

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

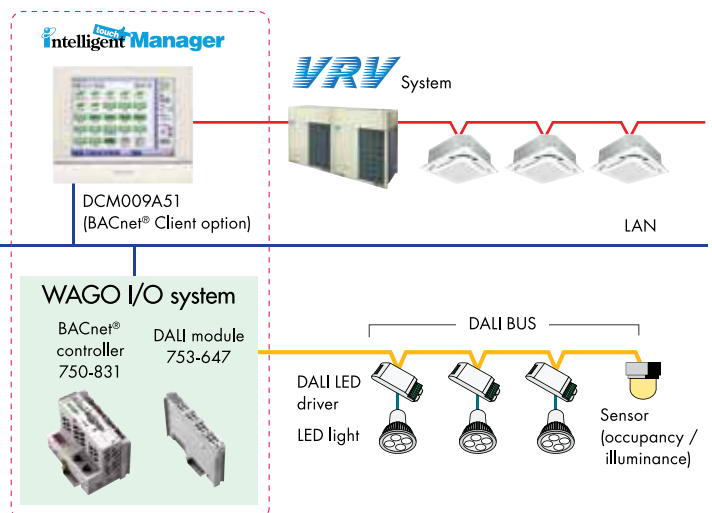
Lighting control achieved by the intelligent Touch Manager

[Operation]

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

[Monitoring]

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



[Overview of control]

- Up to 5 DALI modules can be connected to a single BACnet® controller.
- Up to 64 DALI LED drivers (64 addresses) can be connected to a single DALI module.
- 64 DALI addresses can be freely assigned to up to 16 groups using a single DALI module.

(Each group corresponds to a management point of the intelligent Touch Manager.)

- Up to 16 scenes can be set to a single DALI module.
- Up to 12 sensors (occupancy, illuminance) can be connected to a single DALI module.
- DALI BAS simplifies wiring and setting work by daisy chain wiring and automatic address setting.

Easy maintenance and energy saving by lighting control

Case 1

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



• Optimal illuminance reduces energy.

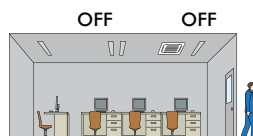


• Failing to switch off lights is prevented.

Case 2

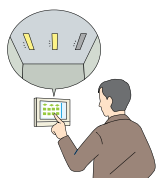
Occupancy sensors are used to eliminate both wasteful lighting and air conditioning.

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



Case 3

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



Lighting maintenance becomes easier and quicker.

The layout screen enables quick identification of specific locations.

CONTROL SYSTEMS

Tenant Management (PPD Option)

Reporting the power consumption of VRV system for each tenant

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

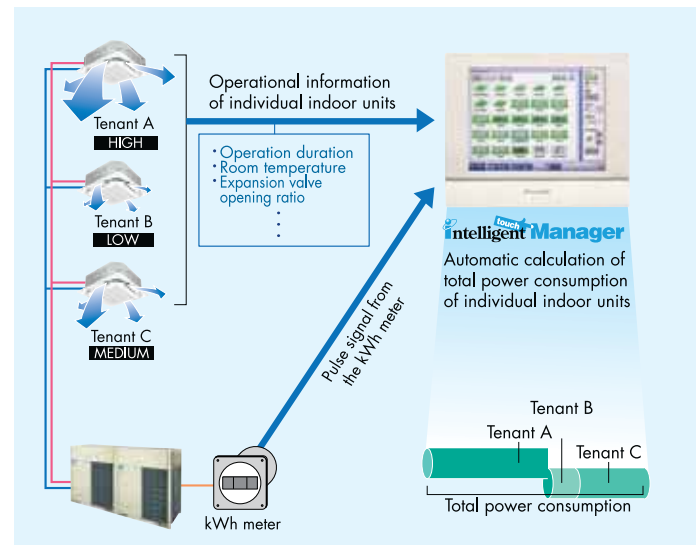
The energy consumption is proportionally calculated for each indoor unit. The data can be used for energy management and calculation of air conditioning usage fees for respective tenants.

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

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

It is easy to output PPD data.

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



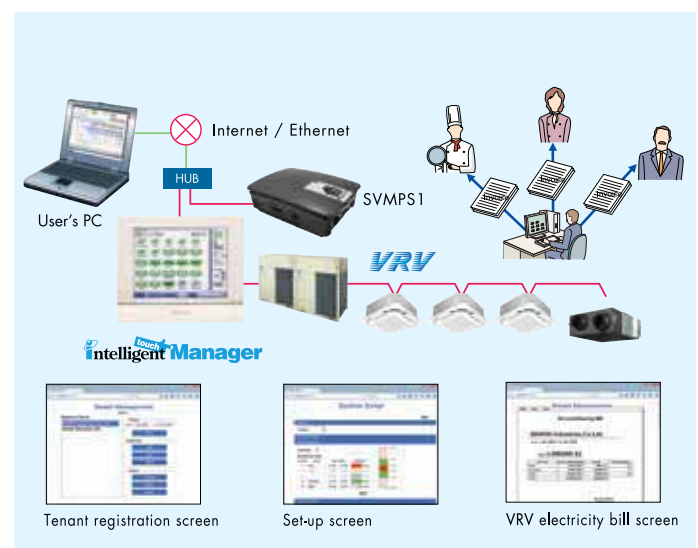
Air conditioning bills can be issued by one click

Electricity bills can be easily calculated for each tenant (Optional)

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

[Main functions]

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

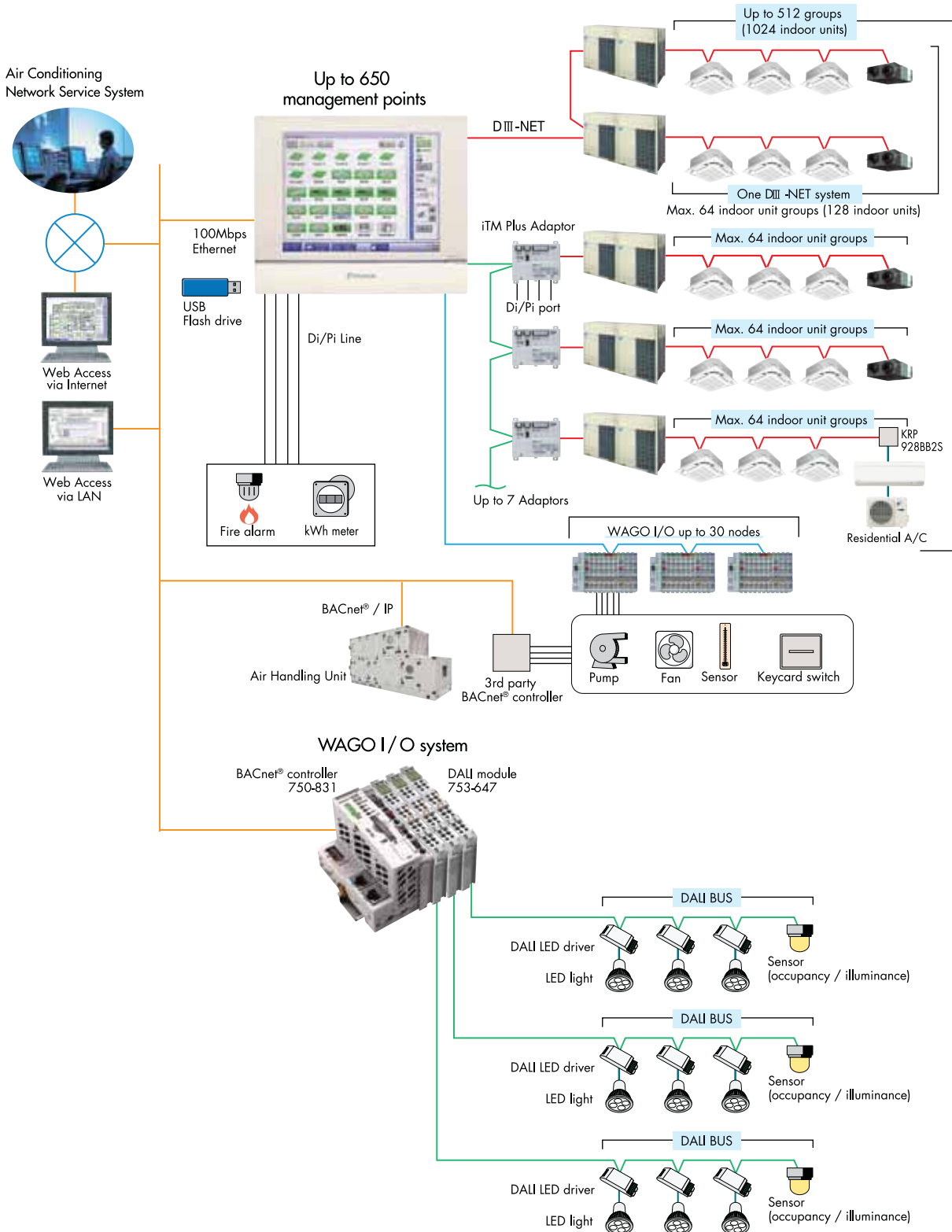


CONTROL SYSTEMS

Advanced Control Systems for VRV Indoor Units

System structure

intelligent Touch Manager System Overview



CONTROL SYSTEMS

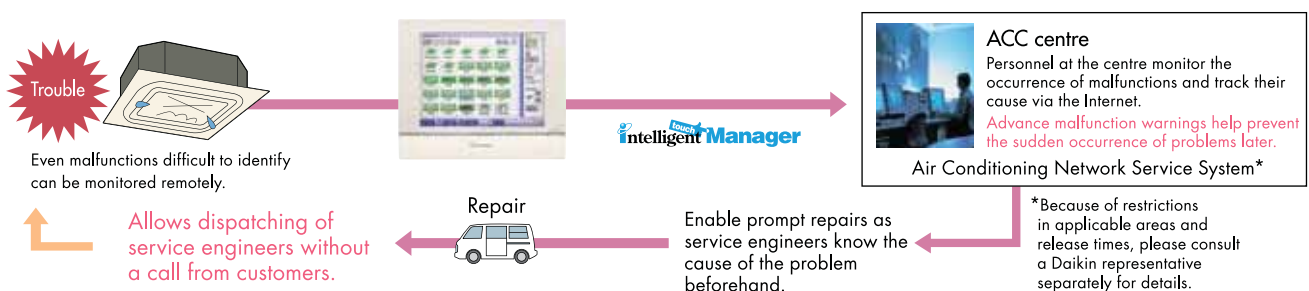
Tenant Management (PPD Option)

Preventive Maintenance

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

Enhanced convenience with link to the Air Conditioning Network Service System

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



Daikin Offers a Variety of Control Systems

Convenient controllers that offer more freedom to administrators

Intelligent Touch Controller

Ease of use and expanded control functions

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



DCS601C51

Connect VRV system to your BMS via BACnet® or LONWORKS®

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



DMS502B51
(Interface for use in BACnet®)

BACnet®

Seamless connection between VRV system and BACnet® open network protocol.



DMS504B51
(Interface for use in LONWORKS®)

LONWORKS®

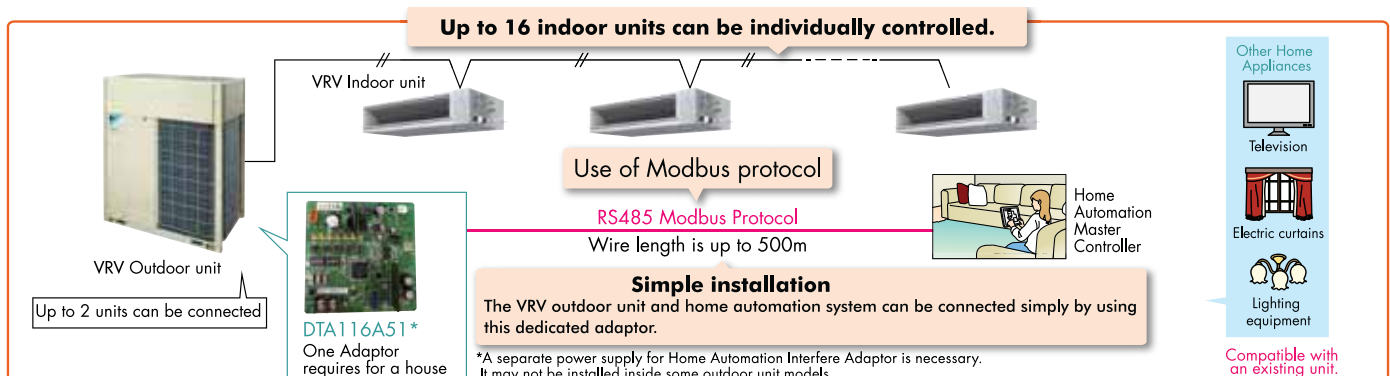
Facilitating the network integration of VRV system and LONWORKS®

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.

Dedicated interfaces make Daikin air conditioners freely compatible with open networks

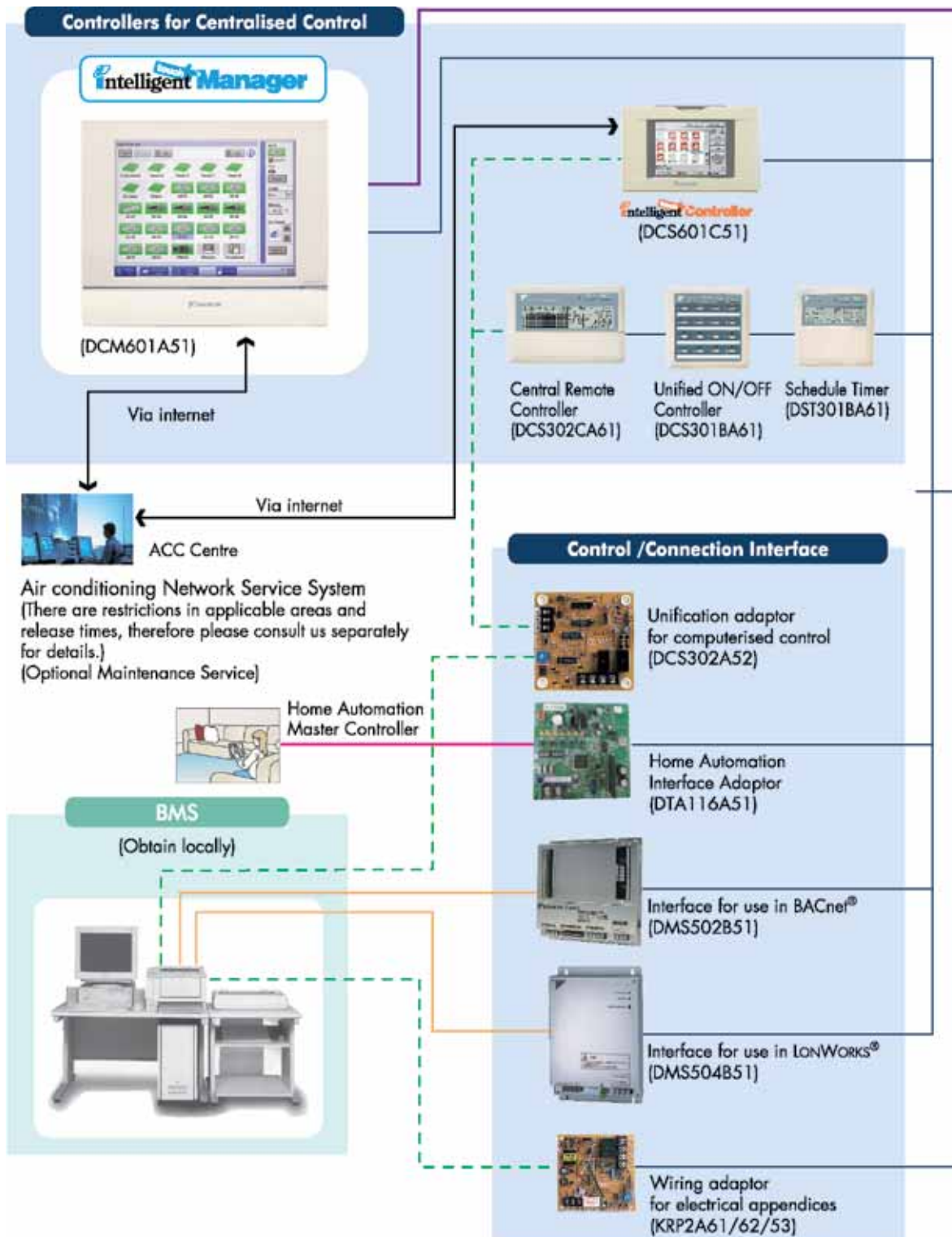
Modbus Interface Adaptor



CONTROL SYSTEMS

Integrated Building Monitoring System

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

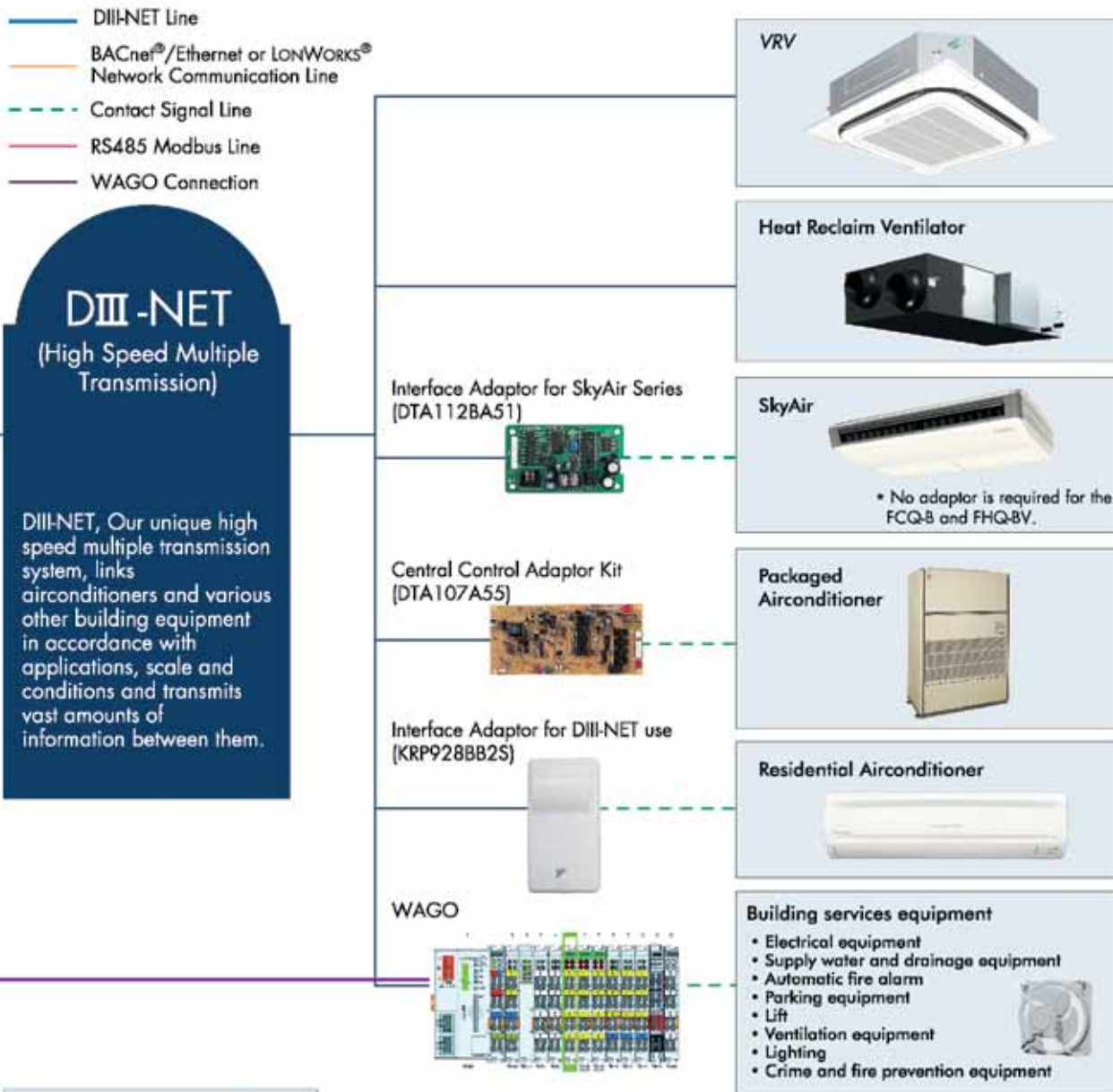


CONTROL SYSTEMS

Integrated Building Monitoring System

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 set-ups 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 all under integral control.



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.

CONTROL SYSTEMS

Option List

For VRV indoor unit use

No.	Item	Type	FXFSQ-A (For Black Panel)	FXFSQ-A	FXZQ-M	FXUQ-A	FXCQ-M	FXEQ-A	FXDQ-PD FXDQ-ND
1	Remote controller	Wireless	Receiver	BRC7M634K	BRC7M632F-6	BRC7M630W-6	BRC7CB58	BRC7M65	BRC7M626-6 BRC4M61-6
		Wired	Handset		BRC4M150W16				BRC4M150W16
2	Navigation remote controller (Wired remote controller)			BRC1E63				BRC1C62	
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	
8	Installation box for adaptor PCB			Note 2, 3 KRP1H98	Note 4, 6 KRP1BA101	KRP1BA97	Note 2, 3 KRP1B96	—	Note 4, 6 KRP1BA101
9	External control adaptor for outdoor unit			★DTA104A62	★DTA104A62	—	★DTA104A61	DTA104A61	★DTA104A53
10	Adaptor for multi tenant			★DTA114A61			—		

No.	Type Item	FXMQ-P/ FXMQ-ARV	FXMQ-NVE	FXHQ-MA	FXAQ-A	FXLQ-MA FXNQ-MA
1	Remote controller	BRC4M61-6	BRC7EA63W	BRC7N618-6	BRC4M61-6	
		BRC4M150W16			BRC4M150W16	
2	Navigation remote controller (Wired remote controller)				BRC1C62	
3	Wired remote controller with weekly schedule timer				BRC1E63 Note 7	
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			—		

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

Note:

1. Installation box èis necessary for each adaptor marked★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box èis necessary for second adaptor.
6. Installation box èis necessary for each adaptor.
7. Individual airflow direction, auto airflow rate and sensing sensor control can be set only via wired remote controller BRC1E62/BRC1E63. 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/ BRC1E63, be sure to remove the control panel and since BRC1E62/ BRC1E63 cannot be stored inside the indoor unit, please place it separately.

CONTROL SYSTEMS

Option List

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. Connectable up to 2 controllers in one system.
2-1	Electrical box with earth terminal (3 blocks)		KJB311AA	
3	Unified ON/OFF controller		DCS301BA61	
3-1	Electrical box with earth terminal (2 blocks)		KJB212AA	
3-2	Noise filter (for electromagnetic interface use only)		KEK26-1A	• 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.
4	Schedule timer		DST301BA61	
5	5-room centralised controller for residential indoor units	For CDXS, FDK(X)S, FTK(X)S	Note 3 KRC72A	• 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.
6	Interface adaptor for residential indoor units	For CDXS, FDK(X)S, FTK(X)S	KRP928BB2S	• Adapter 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 kit 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. • Fixing plate for DTA109A51
10-1	Mounting plate		KRP4A92	

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			Software	iTM power proportional distribution	DCM002A51	• Power consumption of indoor units are calculated based on operation status of the indoor unit andoutdoor unit power consumption measured by kWh metre.
2-3				iTM energy navigator	DCM008A51	• Building energy consumption is visualised.Wasted air conditioning energy can be found out.
2-4						
2-5	Di unit				DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.
2-6	Dio unit				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.

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.

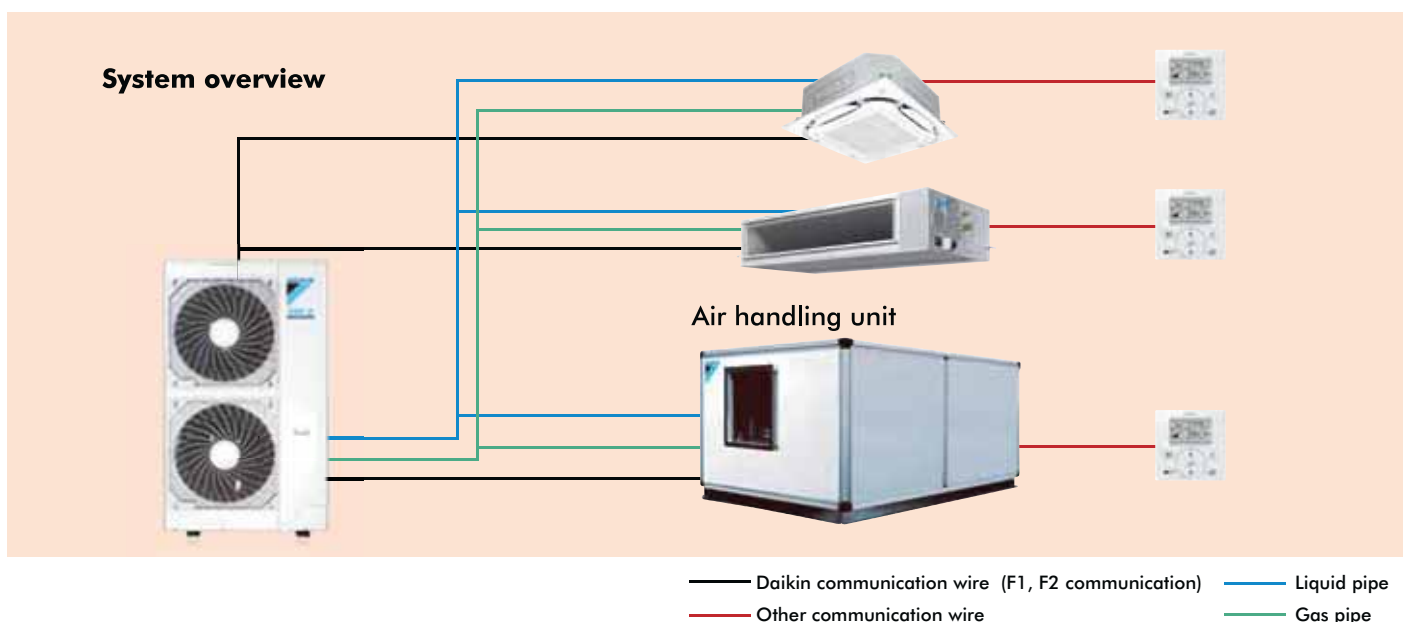
AIR HANDLING UNIT

Integrate your air handling unit for large size spaces such as factories and for fresh air solutions.

Applicable with ODU
Capacity 10HP & 12HP



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



Air handling units can be connected to VRV systems.

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

*Control box and expansion valve kit are necessary for integration of AHU and VRV system.

HEADER PACK

The Innovative Refrigerant Piping of next generation

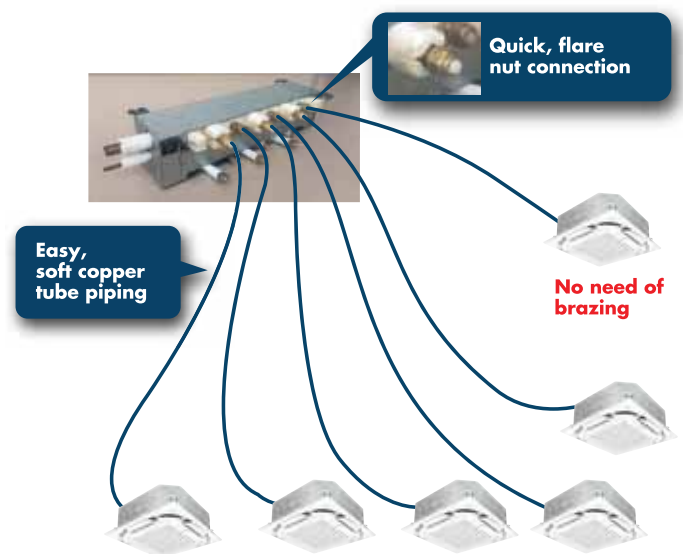
Daikin innovated Next Generation of Quality and Efficiency for VRV Installation. It offers differentiated solutions in installation. It ensures quality installation with reduction of site work.

Advantage

- Installation time saving: Up to 1/3 of conventional method
- Easy to Install: Hanging points available
- Safety: Consists of flaring method, no brazing required*
- Space saving: Head pack to Indoor unit soft drawn pipe, top side of refrigerant pipe doesn't need space for brazing torch movement
- Quality Installation: Elimination of difficult process, enhancing quality Installation



Header Pack



Compact design to fit into narrow attic space

Light weight and the compact body give minimum damage on the building structure.

Header Pack Line-up

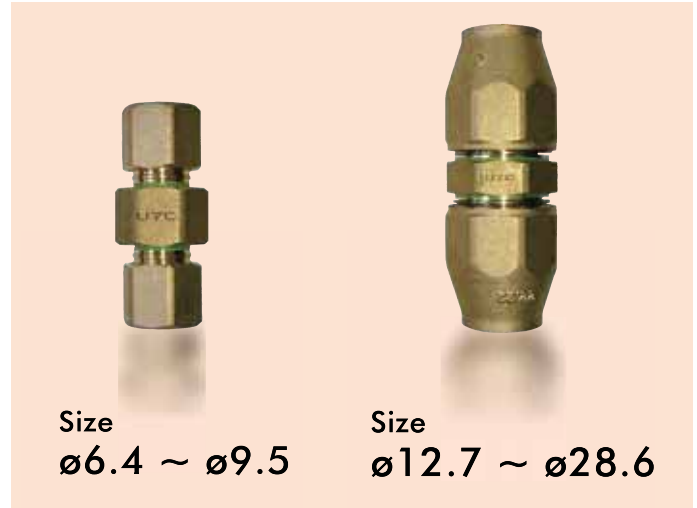
Model Name	HP	Piping connections (Liquid/Gas mm)		Indoor unit total capacity index
		Outdoor unit side	Indoor unit side	
BHF6RHP6	6	ø9.5/ø15.9	(ø9.5/ø15.9)×1 (ø6.4/ø12.7)×3	<150
BHF8RHP6	8	ø9.5/ø19.1	(ø9.5/ø15.9)×3 (ø6.4/ø12.7)×3	150 ≤ X < 200
BHF10RHP6	10	ø9.5/ø22.2		200 ≤ X < 290
BHF16RHP6	16	ø12.7/ø28.6		290 ≤ X < 420

DAIKIN GAS TIGHT JOINT (DGT)

Non-brazed connection for Refrigerant piping

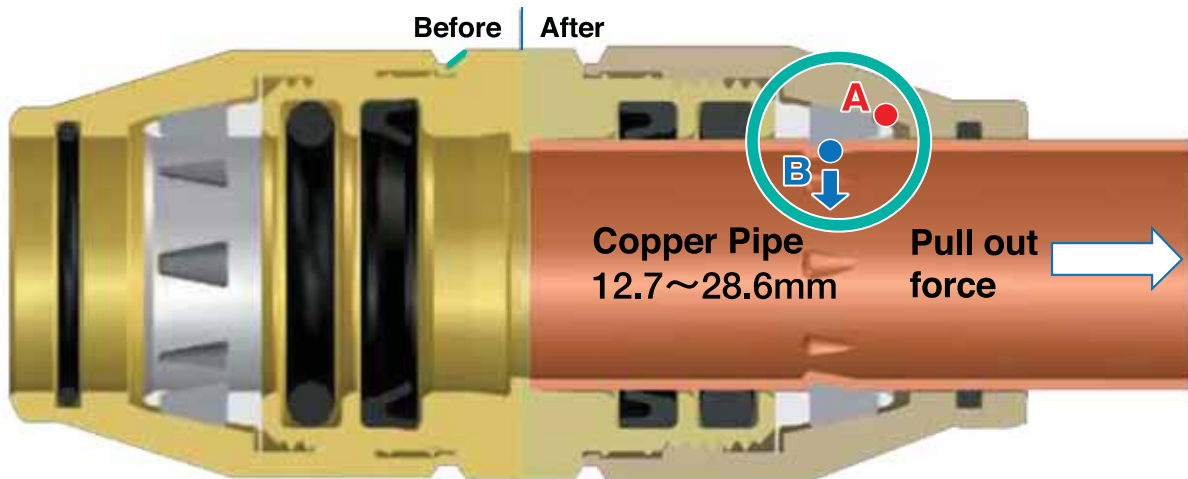
Evolutionally - Advanced Feature

A combination of rubber packing and screwed metal body offers gas-tight and rigid connection without brazing. Patented "Leverage Method" mechanically holds the pipe and prevents it from pull-out.



Mechanism

As the nut turns, the "B" point of leverage corns are compressed and encroached to the surface of the pipe. When the pull-out force increases, the corns are encroached more deeper to prevent pipe pull-out.



DAIKIN GAS TIGHT JOINT (DGT)

Excellent performance

By the unique double sealing method, the sealing performance is secured over a long period even under such severe conditions as pressure of 4.3MPa during temperature of -45 °C through +130 °C.

Durable for high pressure

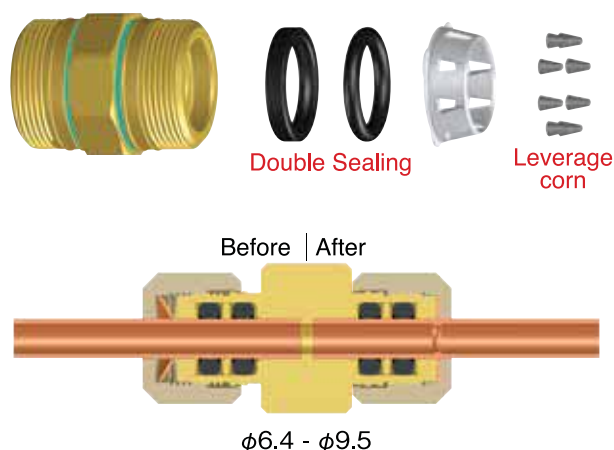
By leverage method, the pull-out resistance is more than 4 times (17.2MPa) of the max. operating pressure.

Easy Installation

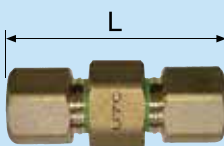
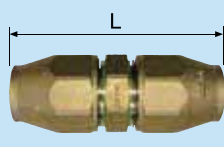
The installation is completed by only one or two turns for a nut with low torque tightening without any special tools (regular wrenches or spanners are used) in the limited small space.

Fire Free Connection

Neither nitrogen gas replacement nor fire prevention cure is required. The time for installation is shorten and the total cost is reduced. The installation quality is much more stable compared with a brazing method.



Daikin Gas Tight Joint Line up

Figure	Model Name	Size (mm)			Weight/PC(gm)
		Inner Diameter	Outer Diameter	Length (L)	
	BDGTA06	Ø6.4	19.0	46.2	106
	BDGTA09	Ø9.5	22.2	51.4	139
	BDGTA12	Ø12.7	23.8	82.3	170
	BDGTA15	Ø15.9	29.7	82.8	236
	BDGTA19	Ø19.1	35.0	85.5	327
	BDGTA22	Ø22.2	38.0	93.5	401
	BDGTA28	Ø28.6	45.0	99.5	546



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- The specifications, designs, and information in this brochure are subject to change without notice.



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