Warning

- Daikin products are manufactured for export to numerous countries throughout the world. Prior to purchase, please confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

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

JMI-0107

Organization:
DAIKIN INDUSTRIES, LTD.
AIR CONDITIONING MANUFACTURING DIVISION

Scope of Registration:
THE DESIGN/DEVELOPMENT AND MANUFACTURE OF COMMERCIAL AIR CONDITIONING, HEATING, COOLING, REFRIGERATING EQUIPMENT, HEATING EQUIPMENT, RESIDENTIAL AIR CONDITIONING EQUIPMENT, HEAT RECLAIM VENTILATION, AIR CLEANING EQUIPMENT, COMPRESSORS AND VALVES.

JQA-1452

Organization:
DAIKIN INDUSTRIES (THAILAND) LTD.

Scope of Registration:
THE DESIGN/DEVELOPMENT AND MANUFACTURE OF AIR CONDITIONERS AND THE COMPONENTS INCLUDING COMPRESSORS USED FOR THEM

EC99J2044

All of the Daikin Group's business facilities and subsidiaries in Japan are certified under the ISO 14001 international standard for environment management.

Dealer

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08/12 Y.K.

●Specifications, designs and other content appearing in this brochure are current as of August 2012 but subject to change without notice.

PCV1009A

DAIKIN

Shaping air to your needs

VRV-WIII

THE INTELLIGENT AIR CONDITIONING SYSTEM

WATER COOLED INVERTER SERIES

HEAT PUMP 50 Hz/60 Hz
HEAT RECOVERY 50 Hz/60 Hz

R-410A

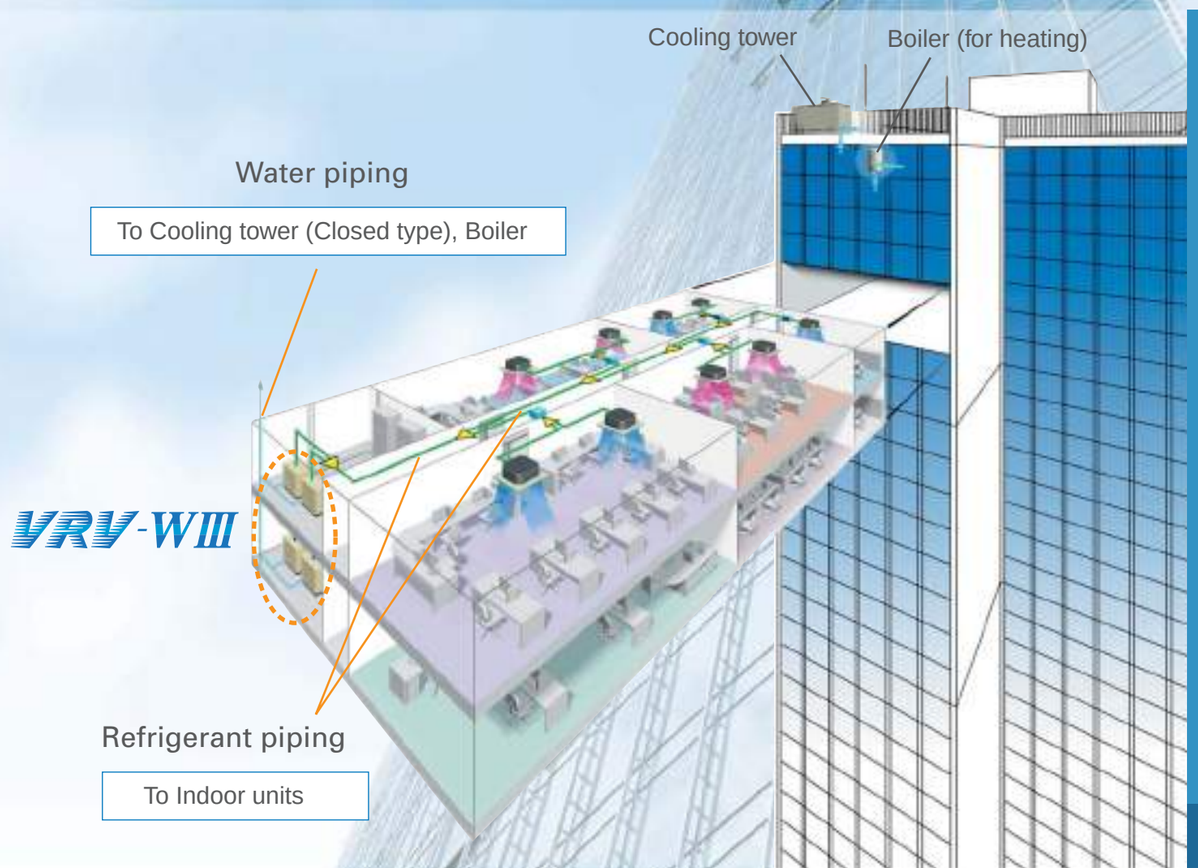
A water cooled intelligent individual air conditioning system suitable for tall multi-storeyed build ings.

This unique system can perform as heat pump or heat recovery to any suitable application.

What is water cooled VRVIII?

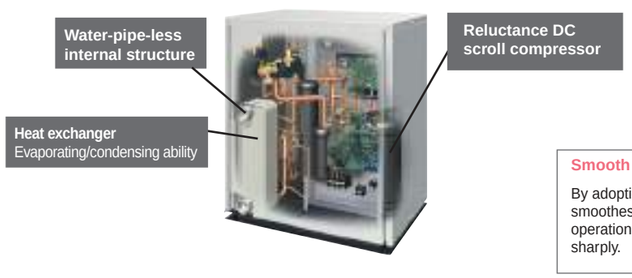
Water cooled VRVIII is an individual air conditioning system that utilises water as a heat source. In this unique system, water is piped from a cooling tower or boiler to the VRV-WIII (which is the equivalent of the outdoor unit of an air cooled conditioning system) and after heat exchange, refrigerant is piped from the VRV-WIII to each indoor unit.

What are its advantages?



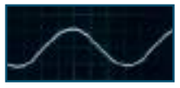
Cutting-edge technologies

The compact unit is packed with the latest technologies.



Smooth sine wave DC Inverter

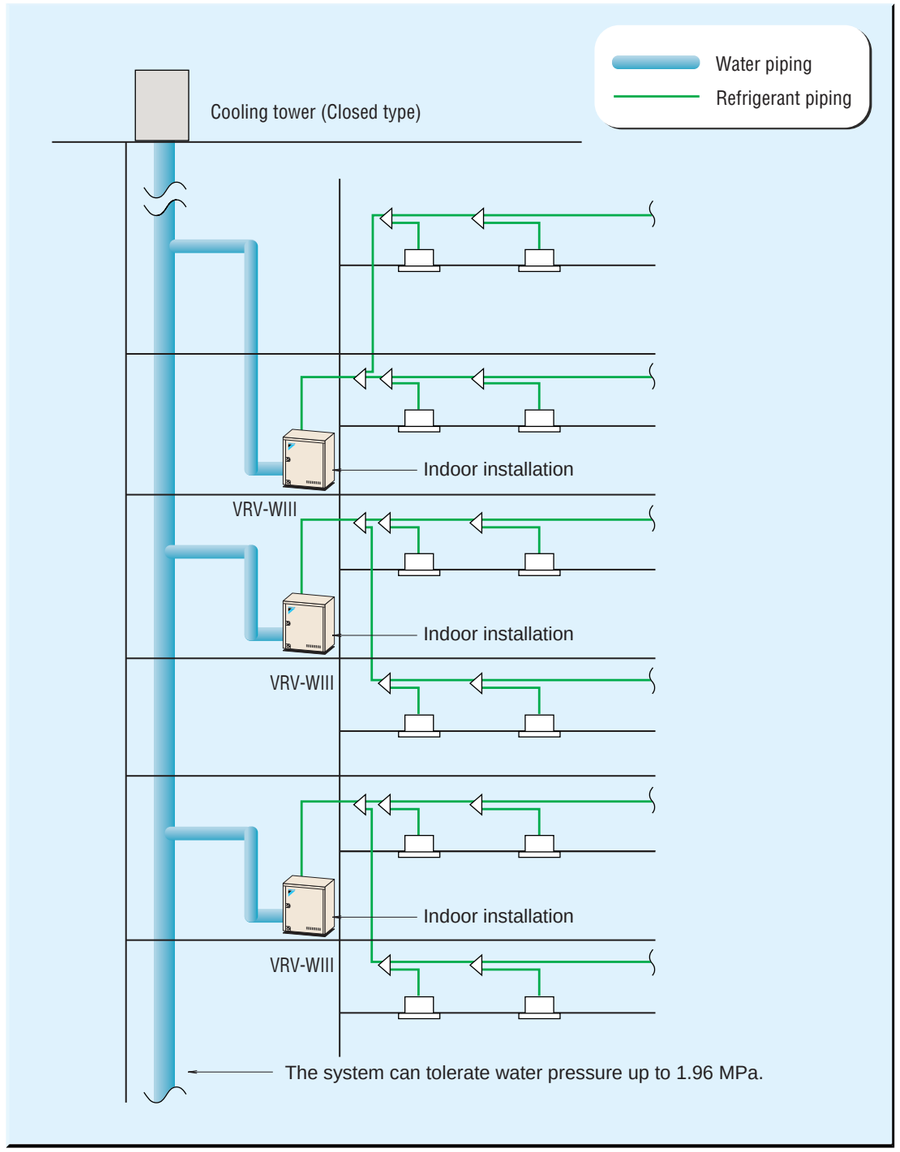
By adoption of the Sine Wave which smoothes the rotation of the motor, operation efficiency is improved sharply.



Design flexibility

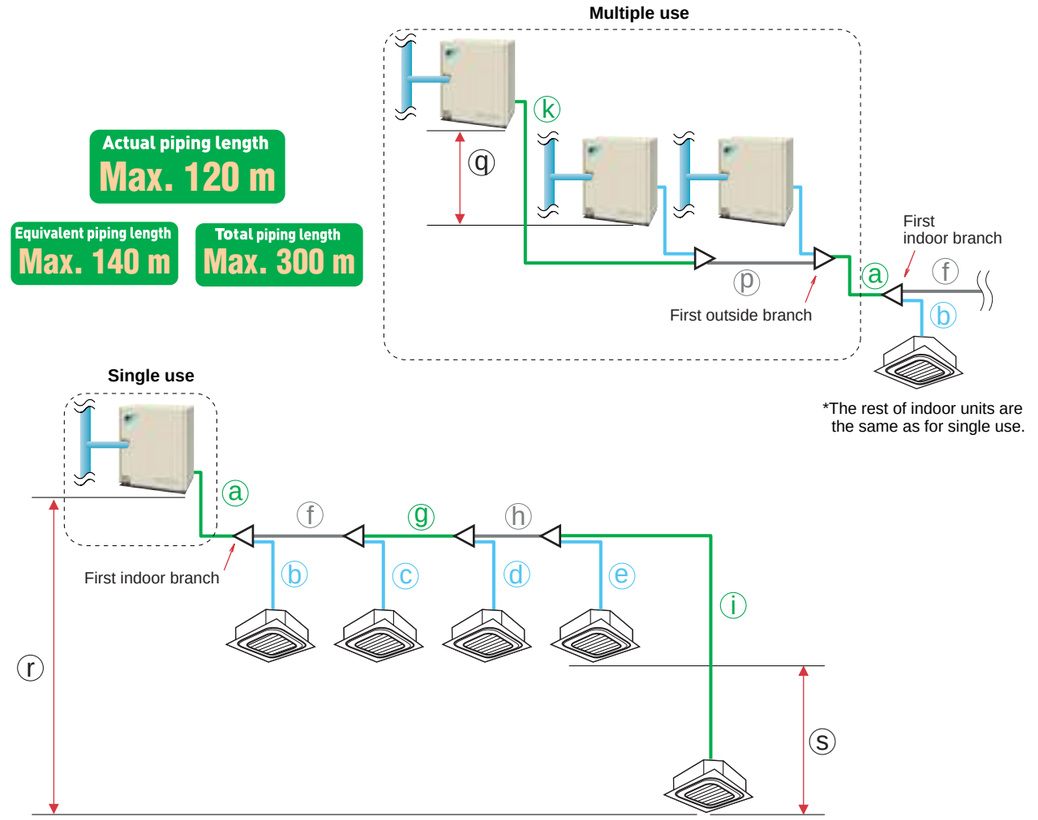
Enhanced design flexibility

Water cooled VRVIII uses water as its heat source, so it is optimal for large buildings, including tall, multi-storey buildings, because the system can tolerate water pressure of up to 1.96 MPa. Furthermore, if the currently installed heat source's water temperature is between 10°C and 45°C, it may be possible to use the existing water pipe work and heat source. This alone makes it an ideal system solution for building refurbishment projects. Because the system is water cooled, outdoor air temperature does not affect its heating capacity. In addition, water cooling means no defrost operation is required, and the resultant rapid start-up time assures quick and comfortable heating, even in cold environments.



Long refrigerant piping length

Within the refrigerant piping system, a maximum of 120 m of actual piping length and 50 m of level difference between the VRV-WIII and indoor units are possible. Water piping does not enter occupied spaces, so there is little chance of water leaking.



* Colours in the diagram above are merely for identifying pipes referenced with symbols such as ⓐ.

			Actual piping length	Example	Equivalent piping length
Maximum allowable piping length	Refrigerant piping length		120 m	a+f+g+h+i	140 m
	Total piping length		300 m	a+b+c+d+e+f+g+h+i	—
	Between the first indoor branch and the farthest indoor unit		90 m*1	f+g+h+i	—
	Between the first outside branch and the last outside unit		10 m	k+p	13 m
Maximum allowable level difference	Between the outside units (multiple use)		2 m	q	—
	Between the indoor units		15 m	s	—
	Between the outside units and the indoor units	If the outside unit is above.	50 m	r	—
		If the outside unit is below.	40 m	r	—

*1 No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. Various conditions and requirements have to be met to allow utilisation of 90 m piping length. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.

features

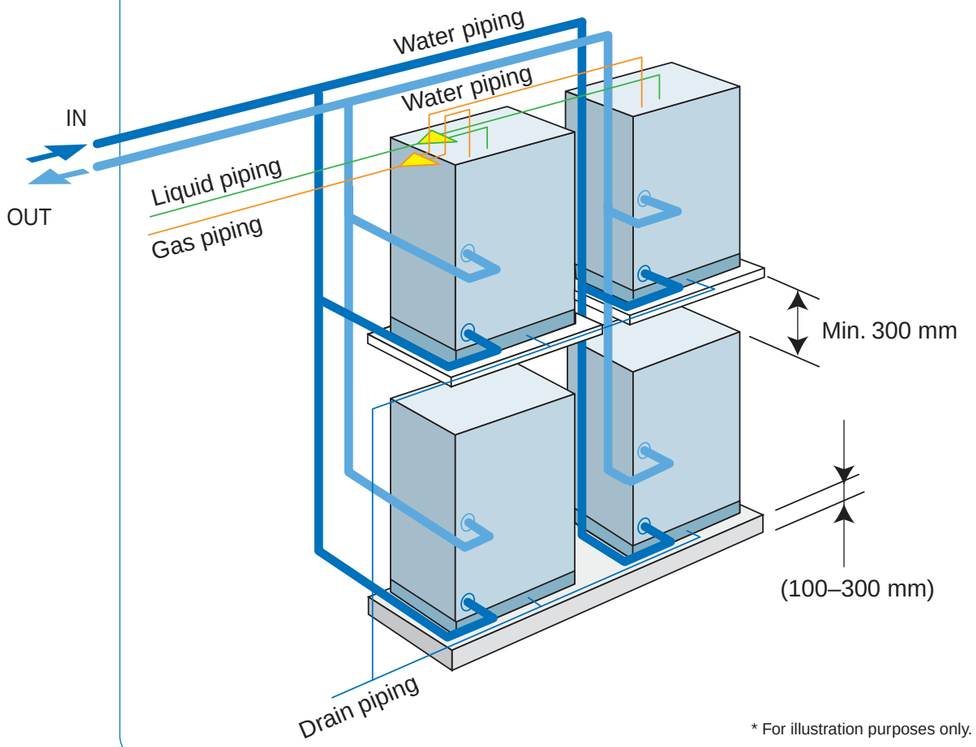
Easy installation

Compact and lightweight

Adoption of a water heat exchanger and optimisation of the refrigerant control circuit has resulted compact and lightweight equipment. A weight of 149 kg and height of 1,000 mm make installation possible in buildings with limited space, or where no space is available for outdoor units. This makes the system ideal for places that have no area outside—such as underground malls. Stacked configuration is also possible, further contributing to space savings.

* The unit is designed for indoor installation only.

Stacked-configuration in indoor installation is possible.



* For illustration purposes only.

features

Energy saving

Heat recovery

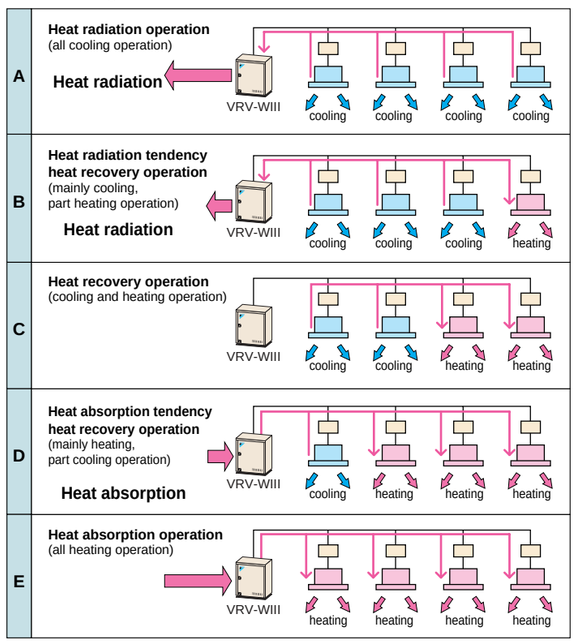
Daikin offers 2-stage heat recovery operation.
The first stage of heat recovery operation is within the refrigerant system. By controlling the BS unit that switches cooling and heating, simultaneous cooling and heating operation is made possible, with heat recovery performed between indoor units.
The second stage of heat recovery operation is within the water loop, where heat recovery is performed between the VRV-WIII systems.
This 2-stage heat recovery operation substantially improves energy efficiency and makes the system the ideal solution to the requirements of modern office buildings, where some areas may require cooling even in winter, depending on the amount of sunshine received and the number of people in the room.

Stage 1

Simultaneous heating and cooling operation within the refrigerant system.

In mainly cooling, partly heating mode, the system recycles heat exhausted from the cooling operation to use for heating. In mainly heating, partly cooling mode, the system uses cooled post-heating operation refrigerant for cooling. Efficiency improves the more simultaneous operation is performed.

The first stage: Between indoor units

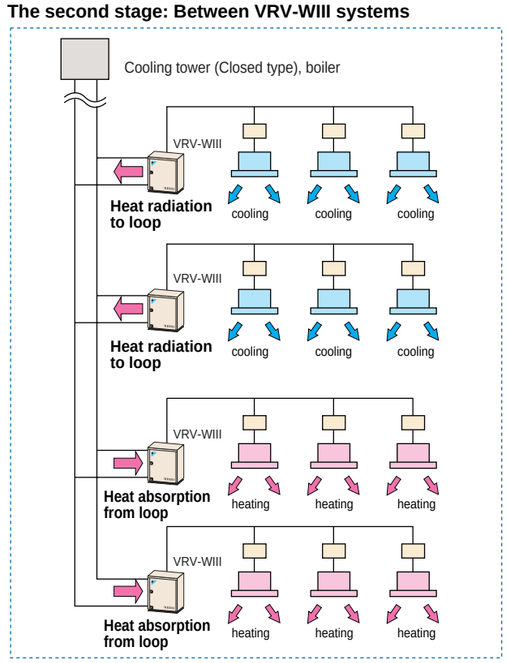


Stage 2

Heat recovery operation between the VRV-WIII systems.

Heat recovery operation is also available between systems connected to the same water loop, with systems exchanging heat via water. This increases energy efficiency.

The second stage: Between VRV-WIII systems



Note: • Above system configurations are for illustration purposes only.

features

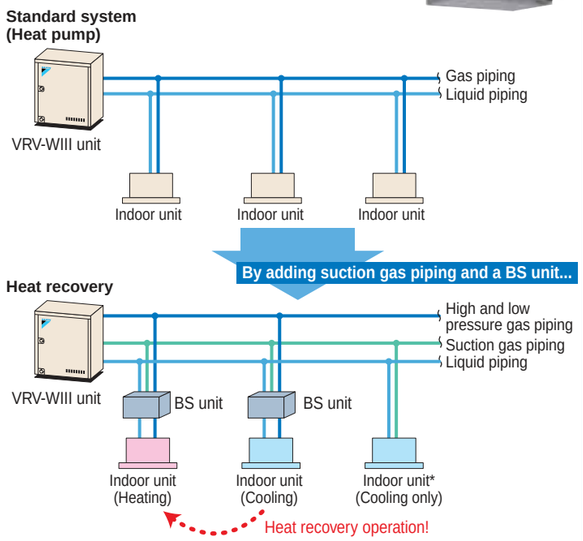
Enhanced usability

A variety of functions that realise easy installation and improve reliability

- Features a pump interlock function that controls the pump of the heat source simultaneously with the starting of the VRV-WIII unit. This significantly simplifies operation and management.
- Employs DIII-NET to enable the shared use of the wiring between the indoor units, the VRV-WIII unit and the central control wiring.
- Provides an auto address setting function and check function that detects connection errors in wiring and piping for easier installation.
- Water piping goes only to the VRV-WIII unit, with refrigerant piping run in occupied spaces, so there is little chance of water leakage or corrosion.

Easily responds to simultaneous heating and cooling needs.

By adding suction gas piping and a BS unit (sold separately), simultaneous heating and cooling operation can be provided by a single system.

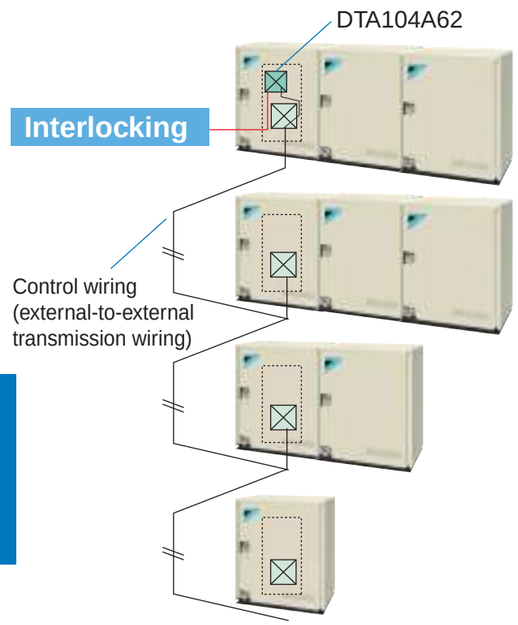


* For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outside units.

Centralised interlocking function

Centralised interlocking input is possible using an external control adaptor (DTA104A62).

By using one external control adaptor circuit board, centralised interlocking input to multiple units within the same water system is possible.



2 types of BS units for heat recovery can improve design flexibility.

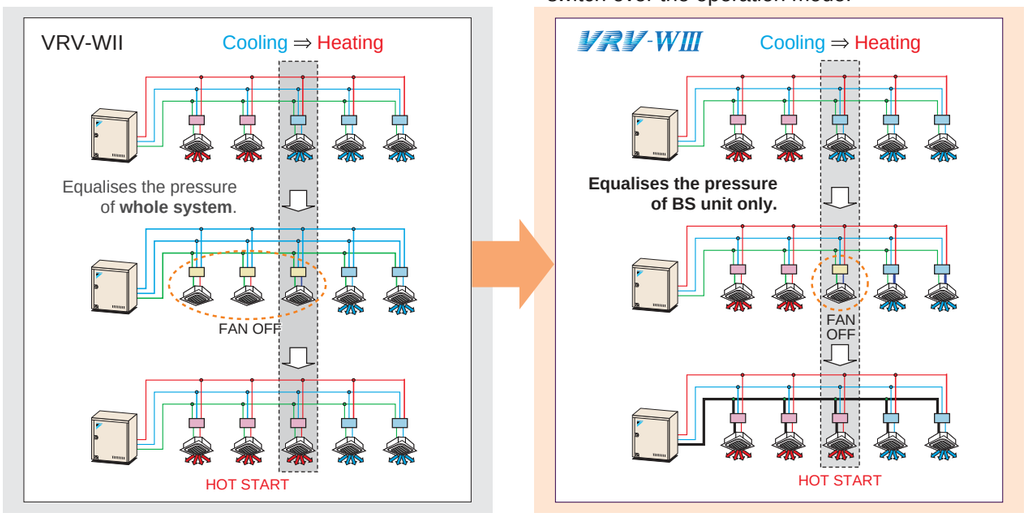
A BS unit can switch between cooling and heating operations itself, successfully reducing the effect on other indoor units (compared to the VRV-WII system).

BS unit

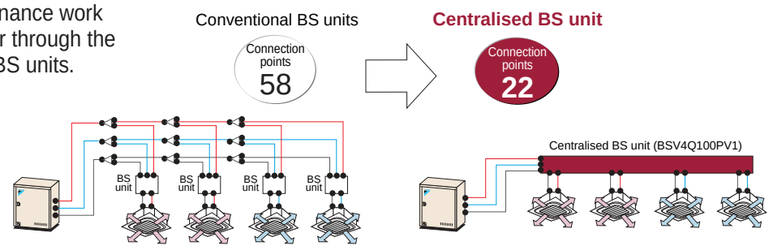
Centralised BS unit (50 Hz only)

■ BS unit for heat recovery can improve comfortability by switching between cooling and heating operations independently.

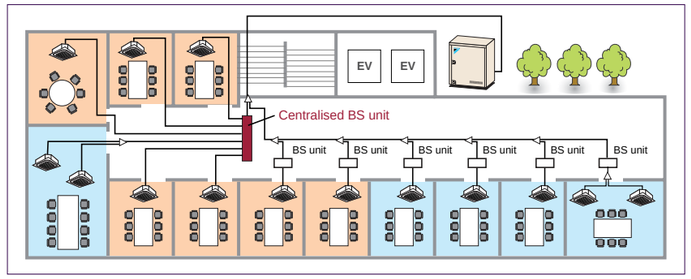
Equalising the pressure of only the BS unit can switch over the operation mode.



■ Installation and maintenance work have been made easier through the integration of multiple BS units.



■ Combined use of a new centralised BS unit and conventional BS units meets the needs of many design plans.



Outside unit lineup

A lineup of 8 to 30 HP models meets wide-ranging office space requirements. The modular design imparts a simple and smart appearance and makes units easy to install.

Series Lineup

	8, 10 HP	16, 18, 20 HP	24, 26, 28, 30 HP
(50 Hz)	10 HP	20 HP	30 HP

(50 Hz)	RWEYQ8PY1 RWEYQ10PY1	RWEYQ16PY1 RWEYQ18PY1 RWEYQ20PY1	RWEYQ24PY1 RWEYQ26PY1 RWEYQ28PY1 RWEYQ30PY1	
(60 Hz)	RWEYQ10PYL/TL	RWEYQ20PYL/TL	RWEYQ30PYL/TL	

Series		Capacity range								
		8 HP	10 HP	16 HP	18 HP	20 HP	24 HP	26 HP	28 HP	30 HP
Heat pump	50 Hz	●	●	●	●	●	●	●	●	●
	60 Hz	—	●	—	—	●	—	—	—	●
Heat recovery	50 Hz	●	●	●	●	●	●	●	●	●
	60 Hz	—	●	—	—	●	—	—	—	●

Outside unit combinations

HP	Capacity index	Model	Combination	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units
8	200	RWEYQ8P	RWEYQ8P × 1	100 to 260	13
10	250	RWEYQ10P	RWEYQ10P × 1	125 to 325	16
16	400	RWEYQ16P*1	RWEYQ8P × 2	200 to 520	26
18	450	RWEYQ18P*1	RWEYQ8P + RWEYQ10P	225 to 585	29
20	500	RWEYQ20P*1	RWEYQ10P × 2	250 to 650	32
24	600	RWEYQ24P*1	RWEYQ8P × 3	300 to 780	36
26	650	RWEYQ26P*1	RWEYQ8P × 2 + RWEYQ10P	325 to 845	
28	700	RWEYQ28P*1	RWEYQ8P + RWEYQ10P × 2	350 to 910	
30	750	RWEYQ30P*1	RWEYQ10P × 3	375 to 975	

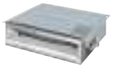
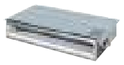
*1 An outside unit multi connection piping kit (option) is necessary for multiple connections of 16 HP systems and above.
*2 Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outside units. For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outside units.

Example piping layout (Heat pump system) 24–30 HP

* For illustration purposes only.

* Strainer kit is equipped as a standard accessory with 60Hz models.

Indoor unit lineup

Type	Model Name	Capacity Range	20	25	32	40	50	63	80	100	125	140	200	250
		Capacity Index	0.8 HP / 20	1 HP / 25	1.25 HP / 31.25	1.6 HP / 40	2 HP / 50	2.5 HP / 62.5	3.2 HP / 80	4 HP / 100	5 HP / 125	6 HP / 140	8 HP / 200	10 HP / 250
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			●	●	●	●	●	●	●	●			
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE		●	●	●	●	●							
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		●	●	●	●	●	●	●		●			
Ceiling Mounted Cassette Corner	FXKQ-MAVE			●	●	●		●						
Slim Ceiling Mounted Duct	FXDQ-PBVE (with drain pump)	 (700 mm width type)	●	●	●									
	FXDQ-PBVET (without drain pump)		●	●	●									
	FXDQ-NBVE (with drain pump)	 (900/1,100 mm width type)				●	●	●						
	FXDQ-NBVET (without drain pump)					●	●	●						
Ceiling Mounted Duct	FXMQ-PVE		●	●	●	●	●	●	●	●	●	●		
	FXMQ-MAVE												●	●
Ceiling Suspended	FXHQ-MAVE				●			●		●				
Wall Mounted	New FXAQ-PVE		New	New	New	New	New	New						
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●						
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●						

Note: R-410A VRV system indoor units are not compatible with the R-22 VRV system.

Connection unit series indoor units (50 Hz only)

Type	Model Name		20	25	32	40	50	71	100	125
		Capacity Range	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	3 HP	4 HP	5 HP
		Capacity Index	20	25	31.25	40	50	71	100	125
		Connection Unit	—					BEVQ71MAVE	BEVQ100MAVE	BEVQ125MAVE
Ceiling Suspended Cassette	FXUQ-MAV1							●	●	●

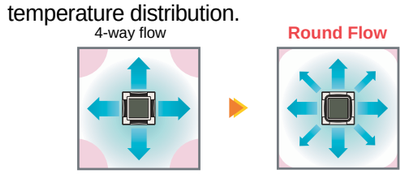
Note: BEV units are necessary for Connection unit series indoor units. Refer to the Engineering Data Book for details.

Ceiling Mounted Cassette (Round Flow) Type

FXFQ25P/FXFQ32P/FXFQ40P
FXFQ50P/FXFQ63P/FXFQ80P
FXFQ100P/FXFQ125P

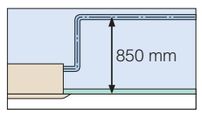
360° airflow improves temperature distribution and offers a comfortable living environment.

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



*As of April 2004, the release date for Japan.

- All models are lighter than the conventional ones. Ex: Models FXFQ25P-50P are 4.5 kg lighter (reduced from 24 kg to 19.5 kg).
- Drain pump is equipped as standard accessory, and the lift height has been improved from 750 mm to 850 mm.



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

• Condition after exposure to the smoke of 600 cigarettes in 1 m^3 enclosed space.

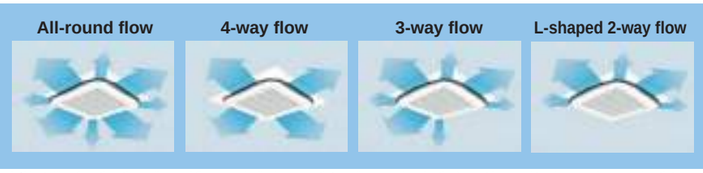
- Control of the airflow rate has been improved from 2-step to 3-step control.
- Low operation sound level

(dB(A))

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

- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.
- The horizontal louvres prevent dew condensation. Their non-flocking surfaces, which repel dirt, are easy to clean.
- The air filter has an anti-mould and antibacterial treatment that prevents the growth of mould generated from dust or moisture that may adhere to the filter.

- Example of airflow patterns:
  360° airflow is available, as well as 2- to 4-way flows, so you can choose the most suitable airflow pattern depending on location or room layout.



Note: Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing member (option) must be used to close each unused outlet.

Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ20M/FXZQ25M
FXZQ32M/FXZQ40M
FXZQ50M

Quiet, compact, and designed for user comfort

- Dimensions correspond with 600 mm × 600 mm architectural module ceiling design specifications.
- Low operation sound level

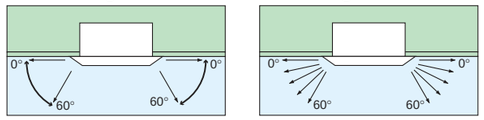
(dB(A))

FXZQ-M		20/25	32	40	50
Sound level (H/L)	230 V	30/25	32/26	36/28	41/33
	240 V	32/26	34/28	37/29	42/35

- Comfortable airflow

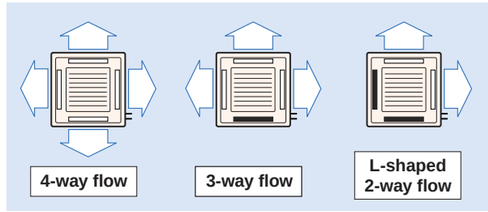
1. Wide discharge angle: 0° to 60°

- Auto swing
- Fixed angles: 5 levels



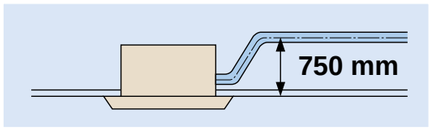
*Angles can be also set on site to prevent drafts (0°-35°) or soiling of the ceiling (25°-60°), other than standard setting (0°-60°).

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.

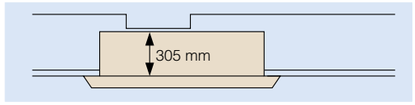


Ceiling Mounted Cassette (Double Flow) Type

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

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

●The low profile unit (only 305 mm high) can be installed in a ceiling space as shallow as 350 mm. All models feature a compact design with a depth of only 600 mm.



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

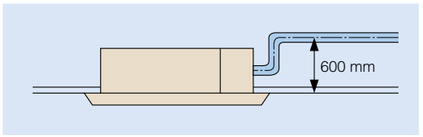
●Low operation sound level (dB(A))

FXCQ-M		20	25/32	40/50	63	80	125
Sound level (H/L)	220 V	32/27	34/28	34/29	37/32	39/34	44/38
	240 V	34/29	36/30	37/32	39/34	41/36	46/40

●Designed with higher airflow suitable for high ceiling application up to 3 metres.

●Providing 2 different settings of standard and ceiling soiling prevention, the auto swing mechanism achieves even distribution of airflow and room temperature.

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



●Two types of optional high-efficiency filter are available (65% and 95%, colourimetric method).

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

* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m^3

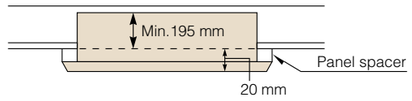
●Major maintenance work can be performed by removing the panel. A flat-type suction grille and a detachable blade make cleaning easy.

Ceiling Mounted Cassette Corner Type

FXKQ25MA/FXKQ32MA
FXKQ40MA/FXKQ63MA

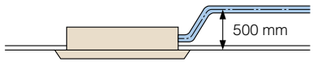
Slim design for flexible installation

●Slim body needs only 220 mm space above the ceiling. If you use a panel spacer (option), the unit can be installed in the minimum space of 195 mm.

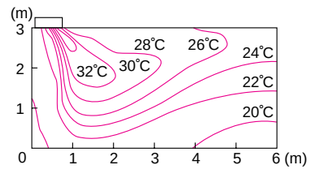


●Single-flow type allows effective air discharge from corner or from drop-ceiling.

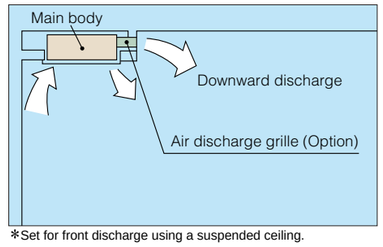
●Drain pump is equipped as standard accessory with 500 mm lift.



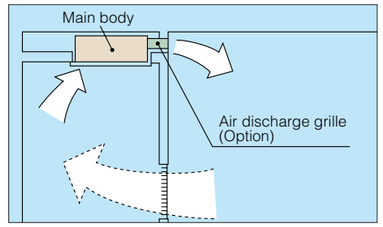
●Providing 3 different settings of standard, draft prevention and ceiling soiling prevention, the auto swing mechanism achieves even distribution of airflow and room temperature.



●Front discharge is possible with an air discharge unit (option), which allows the installation in the drop-ceiling or sagging wall.



✻Set for front discharge using a suspended ceiling.



✻Downward discharge is shut off and air is blown straight out (front discharge).

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

* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m^3

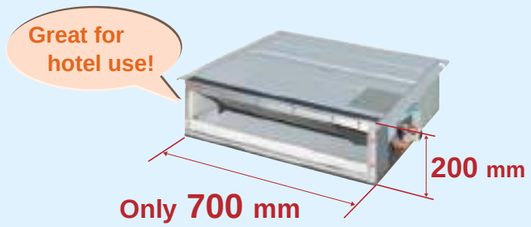
Slim Ceiling Mounted Duct Type

Slim design, quietness and static pressure switching

Suited to use in drop-ceilings!

FXDQ20PB/FXDQ25PB/FXDQ32PB

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



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

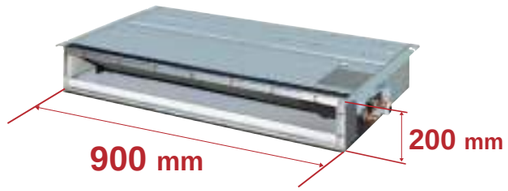
(dB(A))

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

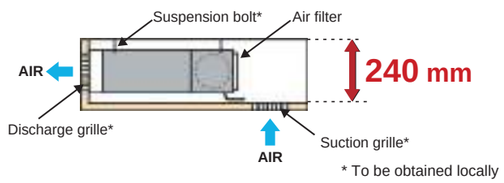
*The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).
*Values are based on the following conditions: FXDQ-PB: external static pressure of 10 Pa; FXDQ-NB: external static pressure of 15 Pa.

FXDQ40NB/FXDQ50NB/FXDQ63NB

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



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



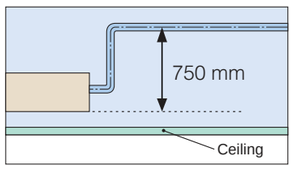
* To be obtained locally

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

10 Pa-30 Pa/factory set: 10 Pa for FXDQ-PB models.
15 Pa-44 Pa/factory set: 15 Pa for FXDQ-NB models.

- FXDQ-PB and FXDQ-NB models are available in two types to suit different installation conditions.

FXDQ-PB/NBVE: with a drain pump (750 mm lift) as a standard accessory
FXDQ-PB/NBVET: without a drain pump

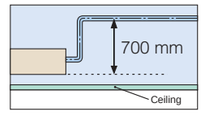


Ceiling Mounted Duct Type

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

Middle and 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	63	80/100	125	140
Sound level (HH/H/L)	33/31/29	34/32/30	39/37/35	41/39/37	42/40/38	43/41/39	44/42/40	46/45/43

- Energy-efficient
  - The adopted DC fan motor is much more efficient than the conventional AC motor, yielding an approximate 20% decrease in energy consumption (FXMQ125P).

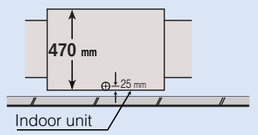
- Improved ease of installation
  - Airflow rate can be controlled using a remote controller during test operation. With the conventional model, the airflow rate was controlled from the PC board. It is automatically adjusted to the range between approximately ±10% of the rated HH tap airflow for FXMQ20P–125P.
- Improved ease of maintenance
  - The drain pan can be detached for easy cleaning. An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.

FXMQ200MA/FXMQ250MA

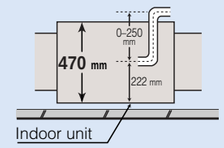
- Simplified Static Pressure Control
  External static pressure can be easily adjusted using a change-over switch inside the electrical box to meet the resistance in the duct system.

- Built-in Drain Pump (Option)
  Housing the drain pump inside the unit reduces the space required for installation.

- Without drain pump



- With drain pump



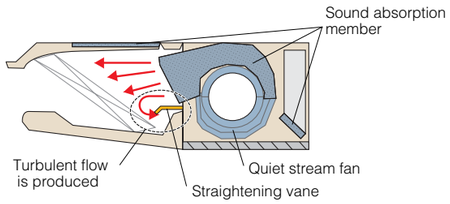
Ceiling Suspended Type

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.

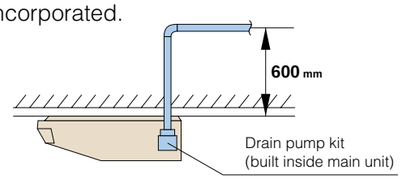


●Low operation sound level (dB(A))

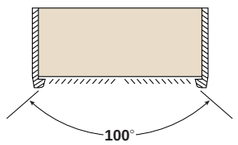
FXHQ-MA	32	63	100
Sound level (H/L)	36/31	39/34	45/37

●Installation is easy

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



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



●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 (maintenance free up to one year*) is equipped as standard accessory.

* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m^3

Wall Mounted Type

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

Stylish flat panel design harmonised with your interior décor

●Stylish flat panel design creates a graceful harmony that enhances any interior space.

●Flat panel can be cleaned with only the single pass of a cloth across their smooth surface. Flat panel can also be easily removed and washed for more thorough cleaning.

●Low operation sound level (dB(A))

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

●Drain pan and air filter can be kept clean by mould-proof polystyrene.

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

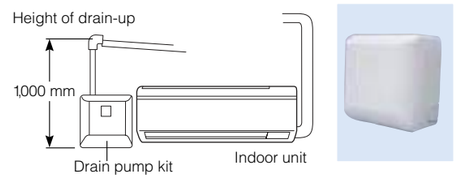
●5 steps of discharge angle can be set by remote controller.

●Discharge angle is automatically set at the same angle as the previous operation when restarting. (Initial setting: 10˚ for cooling and 70˚ for heating)

●Flexible installation

- Drain pipe can be fitted to from either left or right sides.

●Drain pump kit is available as optional accessory, which lifts the drain 1,000 mm from the bottom of the unit.



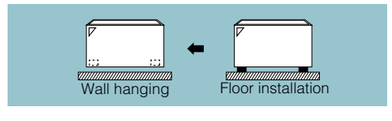
Floor Standing Type

FXLQ20MA / FXLQ25MA / FXLQ32MA
FXLQ40MA / 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 (maintenance free up to one year*) is equipped as standard accessory.

* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m^3

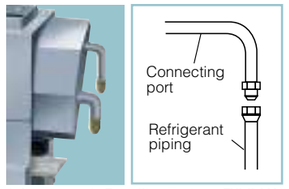


Concealed Floor Standing Type

FXNQ20MA / FXNQ25MA
FXNQ32MA / FXNQ40MA
FXNQ50MA / FXNQ63MA

Designed to be concealed in the perimeter skirting-wall

- The unit is concealed in skirting-wall of perimeter, that enables to create high class interior design.
- The connecting port faces downward, greatly facilitating on-site piping work.
- A long-life filter (maintenance free up to one year*) is equipped as standard accessory.



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

* 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m^3

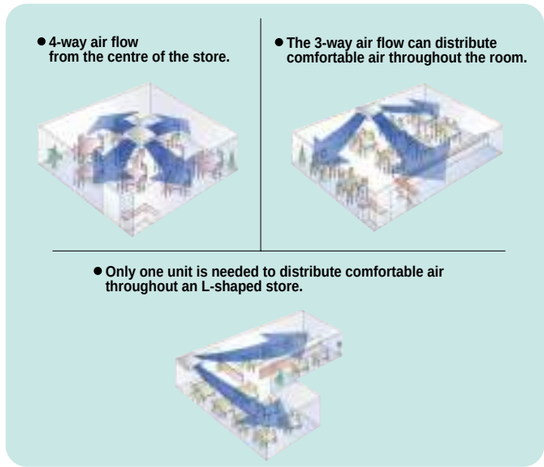
Connection unit series indoor units

Ceiling Suspended Cassette Type
(50 Hz only)

FXUQ71MA/FXUQ100MA/
FXUQ125MA

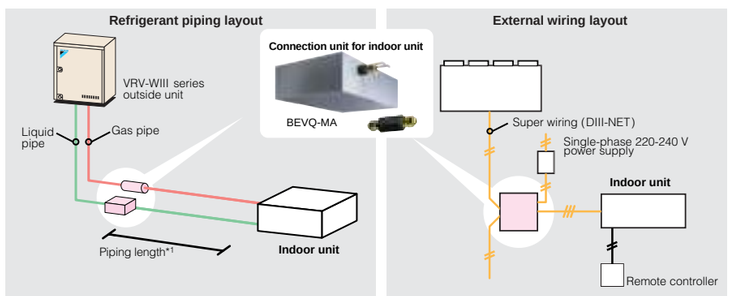
This thin indoor unit achieves optimum air distribution, and can be installed without the need for ceiling cavity.

- Depending on installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.



Connection unit Connection unit is the device for connecting above indoor unit to VRV-WIII.

BEVQ71MA/BEVQ100MA/BEVQ125MA



*1

Model	Maximum piping length between the BEV unit and the indoor unit.
FXUQ-MA	5 m

Notes:
- When connecting centralised-control device, it is necessary to install an interface adaptor for an indoor unit (DTA102A52).
- Connection unit BEVQ-MA is necessary for each indoor unit.
- The refrigerant piping height difference between the indoor units and the BEV unit must be within 4 m.
- The BEV unit must be installed within a maximum height difference between indoor units of 15 m.
- Branching of the refrigerant piping is not possible downstream of the BEV unit.

Specifications

Ceiling Mounted Cassette (Round Flow) Type

MODEL				FXFQ25PVE	FXFQ32PVE	FXFQ40PVE	FXFQ50PVE	FXFQ63PVE	FXFQ80PVE	FXFQ100PVE	FXFQ125PVE
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling capacity			kcal/h (*1)	2,500	3,200	4,000	5,000	6,300	8,000	10,000	12,500
			Btu/h (*1)	9,900	12,600	16,000	19,800	24,900	31,700	39,600	49,500
		kW	(*1)	2.9	3.7	4.7	5.8	7.3	9.3	11.6	14.5
			(*2)	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
Heating capacity			kcal/h	2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800
			Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600
			kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Power consumption (50 Hz/60 Hz)	Cooling	kW		0.033/0.032	0.033/0.032	0.047/0.042	0.052/0.050	0.066/0.063	0.093/0.092	0.187/0.186	0.209/0.208
	Heating			0.027/0.027	0.027/0.027	0.034/0.034	0.038/0.038	0.053/0.053	0.075/0.075	0.174/0.174	0.200/0.200
Casing				Galvanised steel plate							
Airflow rate (HH/H/L)			m^3/min	13/11.5/10	13/11.5/10	15/13/11	16/13.5/11	19/16.5/13.5	21/18/15	32/26/20	33/28/22.5
			cfm	459/406/353	459/406/353	530/459/388	565/477/388	671/583/477	742/636/530	1,130/918/706	1,165/989/794
Sound level (HH/H/L)			dB(A)	30/28.5/27	30/28.5/27	31/29/27	32/29.5/27	34/31/28	36/33.5/31	43/37.5/32	44/39/34
Dimensions (H×W×D)			mm	246×840×840	246×840×840	246×840×840	246×840×840	246×840×840	246×840×840	288×840×840	288×840×840
Machine weight			kg	19.5	19.5	19.5	19.5	22	22	25	25
Piping connections	Liquid (Flare)	mm		ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ9.5	ϕ9.5	ϕ9.5	ϕ9.5
	Gas (Flare)			ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9	ϕ15.9	ϕ15.9	ϕ15.9
	Drain			VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model			BYCP125K-W1							
	Colour			Fresh white							
	Dimensions (H×W×D)	mm		50×950×950	50×950×950	50×950×950	50×950×950	50×950×950	50×950×950	50×950×950	50×950×950
	Weight	kg		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

Ceiling Mounted Cassette (Compact Multi Flow) Type

MODEL				FXZQ20MVE	FXZQ25MVE	FXZQ32MVE	FXZQ40MVE	FXZQ50MVE
Power supply				1-phase, 220-240 V/220 V, 50 Hz/60 Hz				
Cooling capacity			kcal/h (*1)	2,000	2,500	3,200	4,000	5,000
			Btu/h (*1)	7,800	9,900	12,600	16,000	19,800
		kW	(*1)	2.3	2.9	3.7	4.7	5.8
			(*2)	2.2	2.8	3.6	4.5	5.6
Heating capacity			kcal/h	2,200	2,800	3,400	4,300	5,400
			Btu/h	8,500	10,900	13,600	17,100	21,500
			kW	2.5	3.2	4.0	5.0	6.3
Power consumption (50 Hz/60 Hz)	Cooling	kW		0.073/0.075	0.073/0.075	0.076/0.080	0.089/0.095	0.115/0.128
	Heating			0.064/0.069	0.064/0.069	0.068/0.073	0.080/0.088	0.107/0.122
Casing				Galvanised steel plate				
Airflow rate (H/L)			m^3/min	9/7	9/7	9.5/7.5	11/8	14/10
			cfm	318/247	318/247	335/265	388/282	493/353
Sound level (H/L)	230 V, 50 Hz-240 V, 50 Hz-220 V, 60 Hz	dB(A)		30/25-32/26-32/29	30/25-32/26-32/29	32/26-34/28-33/29	36/28-37/29-36/30	41/33-42/35-41/34
Dimensions (H×W×D)			mm	286×575×575				
Machine weight			kg	18				
Piping connections	Liquid (Flare)	mm		ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4
	Gas (Flare)			ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7
	Drain			VP20 (External Dia, 26/Internal Dia, 20)				
Panel (Option)	Model			BYFQ60B8W1				
	Colour			White (6.5Y9.5/0.5)				
	Dimensions (H×W×D)	mm		55×700×700	55×700×700	55×700×700	55×700×700	55×700×700
	Weight	kg		2.7	2.7	2.7	2.7	2.7

Note: Specifications are based on the following conditions;
- •Cooling: (*1) Indoor temp.: 27°CDB, 19.5°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
  (*2) Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB/inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Ceiling Mounted Cassette (Double Flow) Type

MODEL				FXCQ20MVE	FXCQ25MVE	FXCQ32MVE	FXCQ40MVE	FXCQ50MVE	FXCQ63MVE	FXCQ80MVE	FXCQ125MVE
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling capacity			kcal/h (*1)	2,000	2,500	3,200	4,000	5,000	6,300	8,000	12,500
			Btu/h (*1)	7,800	9,900	12,600	16,000	19,800	24,900	31,700	49,500
		kW	(*1)	2.3	2.9	3.7	4.7	5.8	7.3	9.3	14.5
			(*2)	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity			kcal/h	2,200	2,800	3,400	4,300	5,400	6,900	8,600	13,800
			Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100	54,600
			kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power consumption (50 Hz/60 Hz)	Cooling	kW		0.077/0.081	0.092/0.095	0.092/0.095	0.130/0.132	0.130/0.132	0.161/0.157	0.209/0.216	0.256/0.278
	Heating			0.044/0.048	0.059/0.062	0.059/0.062	0.097/0.099	0.097/0.099	0.126/0.124	0.176/0.183	0.223/0.245
Casing				Galvanised steel plate							
Airflow rate (H/L)			m^3/min	7/5	9/6.5	9/6.5	12/9	12/9	16.5/13	26/21	33/25
			cfm	247/177	318/230	318/230	424/318	424/318	582/459	918/741	1165/883
Sound level (H/L)	220 V	dB(A)		32/27	34/28	34/28	34/29	34/29	37/32	39/34	44/38
	240 V			34/29	36/30	36/30	37/32	37/32	39/34	41/36	46/40
Dimensions (H×W×D)			mm	305×775×600	305×775×600	305×775×600	305×990×600	305×990×600	305×1,175×600	305×1,665×600	305×1,665×600
Machine weight			kg	26	26	26	31	32	35	47	48
Piping connections	Liquid (Flare)	mm		ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ9.5	ϕ9.5	ϕ9.5
	Gas (Flare)			ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9	ϕ15.9	ϕ15.9
	Drain			VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model			BYBC32G-W1			BYBC50G-W1		BYBC63G-W1	BYBC125G-W1	
	Colour			White (10Y9/0.5)							
	Dimensions (H×W×D)	mm		53×1,030×680	53×1,030×680	53×1,030×680	53×1,245×680	53×1,245×680	53×1,430×680	53×1,920×680	53×1,920×680
	Weight	kg		8.0	8.0	8.0	8.5	8.5	9.5	12.0	12.0

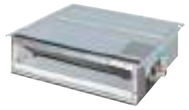
Ceiling Mounted Cassette Corner Type

MODEL				FXKQ25MAVE	FXKQ32MAVE	FXKQ40MAVE	FXKQ63MAVE
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz			
Cooling capacity			kcal/h (*1)	2,500	3,200	4,000	6,300
			Btu/h (*1)	9,900	12,600	16,000	24,900
		kW	(*1)	2.9	3.7	4.7	7.3
			(*2)	2.8	3.6	4.5	7.1
Heating capacity			kcal/h	2,800	3,400	4,300	6,900
			Btu/h	10,900	13,600	17,100	27,300
			kW	3.2	4.0	5.0	8.0
Power consumption (50 Hz/60 Hz)	Cooling	kW		0.066/0.069	0.066/0.069	0.076/0.092	0.105/0.120
	Heating			0.046/0.049	0.046/0.049	0.056/0.072	0.085/0.100
Casing				Galvanised steel plate			
Airflow rate (H/L)	50 Hz		m^3/min	11/9	11/9	13/10	18/15
			cfm	388/318	388/318	459/353	635/530
	60 Hz		m^3/min	11/8.5	11/8.5	13/10	18/13
			cfm	388/300	388/300	459/353	635/459
Sound level (H/L)	220 V	dB(A)		38/33	38/33	40/34	42/37
	240 V			40/35	40/35	42/36	44/39
Dimensions (H×W×D)			mm	215×1,110×710	215×1,110×710	215×1,110×710	215×1,310×710
Machine weight			kg	31	31	31	34
Piping connections	Liquid (Flare)	mm		ϕ6.4	ϕ6.4	ϕ6.4	ϕ9.5
	Gas (Flare)			ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9
	Drain			VP25 (External Dia, 32/Internal Dia, 25)			
Panel (Option)	Model			BYK45FJW1			BYK71FJW1
	Colour			White (10Y9/0.5)			
	Dimensions (H×W×D)	mm		70×1,240×800	70×1,240×800	70×1,240×800	70×1,440×800
	Weight	kg		8.5	8.5	8.5	9.5

Note: Specifications are based on the following conditions;
- •Cooling: (*1) Indoor temp.: 27°CDB, 19.5°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
  (*2) Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB/inlet water temp.: 20°C, 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: **(FXCQ-M)** Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  (FXKQ-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.

Specifications

Slim Ceiling Mounted Duct Type



(700 mm width type)

(900/1,100 mm width type)

MODEL	with drain pump	FXDQ20PBVE	FXDQ25PBVE	FXDQ32PBVE	FXDQ40NBVE	FXDQ50NBVE	FXDQ63NBVE
	without drain pump	FXDQ20PBVET	FXDQ25PBVET	FXDQ32PBVET	FXDQ40NBVET	FXDQ50NBVET	FXDQ63NBVET
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity	kcal/h (*1)	2,000	2,500	3,200	4,000	5,000	6,300
	Btu/h (*1)	7,800	9,900	12,600	16,000	19,800	24,900
	kW (*1)	2.3	2.9	3.7	4.7	5.8	7.3
	kW (*2)	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption (FXDQ-PBVE: 50 Hz/60 Hz)	Cooling	0.086/0.092	0.086/0.092	0.089/0.095	0.160/0.182	0.165/0.185	0.181/0.192
	Heating	0.067/0.073	0.067/0.073	0.070/0.076	0.147/0.168	0.152/0.170	0.168/0.179
Power consumption (FXDQ-PBVET: 50 Hz/60 Hz)	Cooling	0.067/0.073	0.067/0.073	0.070/0.076	0.147/0.168	0.152/0.170	0.168/0.179
	Heating	0.067/0.073	0.067/0.073	0.070/0.076	0.147/0.168	0.152/0.170	0.168/0.179
Casing		Galvanised steel plate					
Airflow rate (HH/H/L)	m³/min	8.0/7.2/6.4	8.0/7.2/6.4	8.0/7.2/6.4	10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
	cfm	282/254/226	282/254/226	282/254/226	371/335/300	441/388/353	583/512/459
External static pressure	Pa	30-10 ★1			44-15 ★1		
Sound level (HH/H/L) ★2★3	dB(A)	33/31/29	33/31/29	33/31/29	34/32/30	35/33/31	36/34/32
Dimensions (H×W×D)	mm	200×700×620	200×700×620	200×700×620	200×900×620	200×900×620	200×1,100×620
Machine weight	kg	23	23	23	27	28	31
Piping connections	Liquid (Flare)	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ9.5
	Gas (Flare)	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9
	Drain	VP20 (External Dia, 26/Internal Dia, 20)					

Ceiling Mounted Duct Type

MODEL		FXMQ20PVE	FXMQ25PVE	FXMQ32PVE	FXMQ40PVE	FXMQ50PVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity	kcal/h (*1)	2,000	2,500	3,200	4,000	5,000
	Btu/h (*1)	7,800	9,900	12,600	16,000	19,800
	kW (*1)	2.3	2.9	3.7	4.7	5.8
	kW (*2)	2.2	2.8	3.6	4.5	5.6
Heating capacity	kcal/h	2,200	2,800	3,400	4,300	5,400
	Btu/h	8,500	10,900	13,600	17,100	21,500
	kW	2.5	3.2	4.0	5.0	6.3
Power consumption (50 Hz/60 Hz)	Cooling	0.081/0.080	0.081/0.080	0.085/0.084	0.194/0.193	0.215/0.214
	Heating	0.069/0.069	0.069/0.069	0.073/0.073	0.182/0.182	0.203/0.203
Casing		Galvanised steel plate				
Airflow rate (HH/H/L)	m³/min	9/7.5/6.5	9/7.5/6.5	9.5/8/7	16/13/11	18/16.5/15
	cfm	318/265/230	318/265/230	335/282/247	565/459/388	635/582/530
External static pressure	Pa	30-100 ★4	30-100 ★4	30-100 ★4	30-160 ★4	50-200 ★4
Sound level (HH/H/L)	dB(A)	33/31/29	33/31/29	34/32/30	39/37/35	41/39/37
Dimensions (H×W×D)	mm	300×550×700	300×550×700	300×550×700	300×700×700	300×1,000×700
Machine weight	kg	25	25	25	28	36
Piping connections	Liquid (Flare)	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4
	Gas (Flare)	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7
	Drain	VP25 (External Dia, 32/Internal Dia, 25)				

Note: Specifications are based on the following conditions;
- •Cooling: (*1) Indoor temp.: 27°CDB, 19.5°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
  (*2) Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB/inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
  (See Engineering Data Book for details.)
- •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- ★1: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ20-32PB, 15 Pa for FXDQ40-63NB)
- ★2: 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).
- ★3: Values are based on the following conditions: external static pressure of 10 Pa for FXDQ20-32PB, 15 Pa for FXDQ40-63NB.
- ★4: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32P), thirteen (FXMQ40P), fourteen (FXMQ50P) 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 FXMQ40-50P.

Ceiling Mounted Duct Type

MODEL		FXMQ63PVE	FXMQ80PVE	FXMQ100PVE	FXMQ125PVE	FXMQ140PVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity	kcal/h (*1)	6,300	8,000	10,000	12,500	14,300
	Btu/h (*1)	24,900	31,700	39,600	49,500	57,000
	kW (*1)	7.3	9.3	11.6	14.5	16.7
	kW (*2)	7.1	9.0	11.2	14.0	16.0
Heating capacity	kcal/h	6,900	8,600	10,800	13,800	15,500
	Btu/h	27,300	34,100	42,700	54,600	61,400
	kW	8.0	10.0	12.5	16.0	18.0
Power consumption (50 Hz/60 Hz)	Cooling	0.230/0.229	0.298/0.297	0.376/0.375	0.461/0.460	0.461/0.460
	Heating	0.218/0.218	0.286/0.286	0.364/0.364	0.449/0.449	0.449/0.449
Casing		Galvanised steel plate				
Airflow rate (HH/H/L)	m³/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 ★1	50-200 ★1	50-200 ★1	50-200 ★1	50-140 ★1
Sound level (HH/H/L)	dB(A)	42/40/38	43/41/39	43/41/39	44/42/40	46/45/43
Dimensions (H×W×D)	mm	300×1,000×700	300×1,000×700	300×1,400×700	300×1,400×700	300×1,400×700
Machine weight	kg	36	36	46	46	47
Piping connections	Liquid (Flare)	ϕ9.5	ϕ9.5	ϕ9.5	ϕ9.5	ϕ9.5
	Gas (Flare)	ϕ15.9	ϕ15.9	ϕ15.9	ϕ15.9	ϕ15.9
	Drain	VP25 (External Dia, 32/Internal Dia, 25)				

Ceiling Mounted Duct Type

MODEL		FXMQ200MAVE	FXMQ250MAVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz	
Cooling capacity	kcal/h (*1)	19,800	24,800
	Btu/h (*1)	78,500	98,300
	kW (*1)	23.0	28.8
	kW (*2)	22.4	28.0
Heating capacity	kcal/h	21,500	27,100
	Btu/h	85,300	107,500
	kW	25.0	31.5
Power consumption (50 Hz/60 Hz)	Cooling	1.294/1.490	1.465/1.684
	Heating	1.294/1.490	1.465/1.684
Casing		Galvanised steel plate	
Airflow rate (H/L)	m³/min	58/50	72/62
	cfm	2,047/1,765	2,542/2,189
External static pressure	50 Hz	132-221 ★2	191-270 ★2
	60 Hz	132-270 ★2	147-270 ★2
Sound level (H/L)	220 V	48/45	48/45
	240 V	49/46	49/46
Dimensions (H×W×D)	mm	470×1,380×1,100	470×1,380×1,100
Machine weight	kg	137	137
Piping connections	Liquid (Flare)	ϕ9.5	ϕ9.5
	Gas (Brazing)	ϕ19.1	ϕ22.2
	Drain	PS1B	

Note: Specifications are based on the following conditions;
- •Cooling: (*1) Indoor temp.: 27°CDB, 19.5°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
  (*2) Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB/inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
  (See Engineering Data Book for details.)
- •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- ★1: External static pressure can be modified using a remote controller that offers fourteen (FXMQ63-125P) or ten (FXMQ140P) levels of control. These values indicate the lowest and highest possible static pressures. The standard static pressure is 100 Pa.
- ★2: External static pressure is changeable to change over the connectors inside electrical box, this pressure means "Standard-High static pressure".

Specifications

Ceiling Suspended Type

MODEL				FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz		
Cooling capacity			kcal/h (*1)	3,200	6,300	10,000
			Btu/h (*1)	12,600	24,900	39,600
		kW	(*1)	3.7	7.3	11.6
			(*2)	3.6	7.1	11.2
Heating capacity			kcal/h	3,400	6,900	10,800
			Btu/h	13,600	27,300	42,700
			kW	4.0	8.0	12.5
Power consumption (50 Hz/60 Hz)	Cooling	kW		0.111/0.142	0.115/0.145	0.135/0.199
	Heating			0.111/0.142	0.115/0.145	0.135/0.199
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)			dB(A)	36/31	39/34	45/37
Dimensions (H×W×D)			mm	195×960×680	195×1,160×680	195×1,400×680
Machine weight			kg	24	28	33
Piping connections	Liquid (Flare)	mm		ϕ6.4	ϕ9.5	ϕ9.5
	Gas (Flare)			ϕ12.7	ϕ15.9	ϕ15.9
	Drain			VP20 (External Dia, 26/Internal Dia, 20)		

Wall Mounted Type

MODEL				FXAQ20PVE	FXAQ25PVE	FXAQ32PVE	FXAQ40PVE	FXAQ50PVE	FXAQ63PVE
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity			kcal/h (*1)	2,000	2,500	3,200	4,000	5,000	6,300
			Btu/h (*1)	7,800	9,900	12,600	16,000	19,800	24,900
		kW	(*1)	2.3	2.9	3.7	4.7	5.8	7.3
			(*2)	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity			kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
			Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
			kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW		0.019	0.028	0.030	0.020	0.033	0.050
	Heating			0.029	0.034	0.035	0.020	0.039	0.060
Casing				White (3.0Y8.5/0.5)					
Airflow rate (H/L)			m^3/min	7.5/4.5	8/5	8.5/5.5	12/9	15/12	19/14
			cfm	265/159	282/177	300/194	424/318	530/424	671/494
Sound level (H/L)			dB(A)	35/31	36/31	38/31	39/34	42/37	47/41
Dimensions (H×W×D)			mm	290×795×238	290×795×238	290×795×238	290×1,050×238	290×1,050×238	290×1,050×238
Machine weight			kg	11	11	11	14	14	14
Piping connections	Liquid (Flare)	mm		ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ9.5
	Gas (Flare)			ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9
	Drain			VP13 (External Dia, 18/Internal Dia, 13)					

Note: Specifications are based on the following conditions;
- •Cooling: (*1) Indoor temp.: 27°CDB, 19.5°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
  (*2) Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB/inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
  (See Engineering Data Book for details.)
- •Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Floor Standing Type/Concealed Floor Standing Type

FXLQ

FXNQ

MODEL				FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE
				FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity			kcal/h (*1)	2,000	2,500	3,200	4,000	5,000	6,300
			Btu/h (*1)	7,800	9,900	12,600	16,000	19,800	24,900
		kW	(*1)	2.3	2.9	3.7	4.7	5.8	7.3
			(*2)	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity			kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
			Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
			kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption (50 Hz/60 Hz)	Cooling	kW		0.049/0.047	0.049/0.047	0.090/0.079	0.090/0.084	0.110/0.105	0.110/0.108
	Heating			0.049/0.047	0.049/0.047	0.090/0.079	0.090/0.084	0.110/0.105	0.110/0.108
Casing				FXLQ: Ivory white (5Y7.5/1)/FXNQ: Galvanised steel plate					
Airflow rate (H/L)			m^3/min	7/6	7/6	8/6	11/8.5	14/11	16/12
			cfm	247/212	247/212	282/212	388/300	494/388	565/424
Sound level (H/L)	220 V	dB(A)		35/32	35/32	35/32	38/33	39/34	40/35
	240 V			37/34	37/34	37/34	40/35	41/36	42/37
Dimensions (H×W×D)	FXLQ	mm		600×1,000×222	600×1,000×222	600×1,140×222	600×1,140×222	600×1,420×222	600×1,420×222
	FXNQ			610×930×220	610×930×220	610×1,070×220	610×1,070×220	610×1,350×220	610×1,350×220
Machine weight	FXLQ	kg		25	25	30	30	36	36
	FXNQ			19	19	23	23	27	27
Piping connections	Liquid (Flare)	mm		ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ9.5
	Gas (Flare)			ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9
	Drain			21O.D.					

Note: Specifications are based on the following conditions;
- •Cooling: (*1) Indoor temp.: 27°CDB, 19.5°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
  (*2) Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB/inlet water temp.: 20°C, 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.

Specifications

Connection unit series indoor units (50 Hz only)

* A type of BEV unit is necessary for each Connection unit series indoor unit. Refer to the Engineering Data for details.
* If indoor units from the Connection unit series are connected within a single refrigerant system to indoor units from any other series, cooling/heating switchover will not be possible using the remote controller of the Connection unit series indoor units. However, if the remote controller of an indoor unit from the other series is set as a master remote controller, cooling/heating switchover will be possible.
* If all indoor units are from the Connection unit series, an outside unit Cool/Heat selector will be needed to enable cooling/heating switchover.
* If connecting to the BS unit within a Heat Recovery system, switching between cooling and heating is possible from remote controller (only for FXUQ-MA).
* Group control between Connection Unit series equipment within one system is possible. However, group control with the other VRV indoor units is not possible.

Ceiling Suspended Cassette Type

Model				FXUQ71MAV1	FXUQ100MAV1	FXUQ125MAV1
Model		Indoor unit		FXUQ71MAV1	FXUQ100MAV1	FXUQ125MAV1
		Connection unit		BEVQ71MAVE	BEVQ100MAVE	BEVQ125MAVE
Power supply				1-phase, 220-240 V, 50 Hz		
Cooling capacity			Kcal/h(*1)	7,100	10,000	12,500
			Btu/h(*1)	28,300	39,600	49,500
		kW	(*1)	8.3	11.6	14.5
			(*2)	8.0	11.2	14.0
Heating capacity (Max.)			Kcal/h	7,700	10,800	12,000
			Btu/h	30,700	42,700	47,800
			kW	9.0	12.5	14.0
Power consumption	Cooling		kW	0.189	0.298	0.298
	Heating			0.169	0.278	0.278
Indoor unit	Casing			White(10Y9/0.5)		
	Airflow rate (H/L)		m^3/min	19/14	29/21	32/23
			cfm	671/494	1,024/741	1,130/812
	Sound level	230 V	dB (A)	40/35	43/38	44/39
	Dimensions (H×W×D)		mm	165×895×895	230×895×895	230×895×895
	Machine weight		kg	25	31	31
Piping connections	Liquid		mm	ϕ 9.5 (Flare)		
	Gas			ϕ15.9 (Flare)		
	Drain			VP 20 (External Dia. 26/Internal Dia. 20)		

Note: Specifications are based on the following conditions ;
- •Cooling: (*1) Indoor temp.: 27°CDB, 19.5°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
  (*2) Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB/inlet water temp.: 20°C, 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 below the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

OUTSIDE UNITS

Heat Pump/Heat Recovery

MODEL			50 Hz	RWEYQ8PY1	RWEYQ10PY1	RWEYQ16PY1	RWEYQ18PY1	RWEYQ20PY1
			60 Hz	—	RWEYQ10PYL	—	—	RWEYQ20PYL
				—	RWEYQ10PTL	—	—	RWEYQ20PTL
	Combination units (50 Hz)			—	—	RWEYQ8PY1	RWEYQ8PY1	RWEYQ10PY1
				—	—	RWEYQ8PY1	RWEYQ10PY1	RWEYQ10PY1
				—	—	—	—	—
	Combination units (60 Hz)			—	—	—	—	RWEYQ10PYL/TL
				—	—	—	—	RWEYQ10PYL/TL
				—	—	—	—	—
Power supply				Y1: 3-phase 4-wire system, 380–415 V, 50 Hz YL: 3-phase 4-wire system, 380 V, 60 Hz TL: 3-phase 3-wire system, 220 V, 60 Hz				
Cooling capacity (*1)(*2)			kcal/h(*1)	19,500	23,200	39,000	42,700	46,400
			Btu/h(*1)	77,500	92,100	155,000	170,000	184,000
		kW	(*1)	22.7	27.0	45.4	49.7	54.0
			(*2)	22.4	26.7	44.8	49.1	53.4
Heating capacity			kcal/h	21,500	27,100	43,000	48,600	54,200
			Btu/h	85,300	107,000	171,000	193,000	215,000
			kW	25.0	31.5	50.0	56.5	63.0
Power consumption	Cooling (*2)		kW	4.54	6.03	9.09	10.6	12.1
	Heating			4.24	6.05	8.49	10.3	12.1
Casing colour				Ivory white (5Y7.5/1)				
Dimensions (H × W × D)			mm	1,000 × 780 × 550		(1,000 × 780 × 550) × 2		
Compressor	Type			Hermetically sealed scroll type				
	Motor output		kW	4.0	4.2	4.0 x 2	4.0 + 4.2	4.2 x 2
Refrigerant piping connections	Liquid		mm	ø9.5 (Flare)		ø12.7 (Flare)	ø15.9 (Flare)	
	Suction gas★1			ø19.1 (Brazing)	ø22.2 (Brazing)	ø28.6 (Brazing)		
	High and low pressure gas			ø15.9 ★2, ø19.1 ★3 (Brazing)	ø19.1 ★2, ø22.2 ★3 (Brazing)	ø22.2 ★2, ø28.6 ★3 (Brazing)		
Water piping connections	Water inlet			PT1 1/4B internal thread		(PT1 1/4B) x 2 internal thread		
	Water outlet			PT1 1/4B internal thread		(PT1 1/4B) x 2 internal thread		
	Drain outlet			PS1/2B internal thread		(PS1/2B) x 2 internal thread		
Machine weight (Operating weight)			kg	149 (151)	150 (152)	149 + 149 (151 + 151)	149 + 150 (151 + 152)	150 + 150 (152 + 152)
Sound level			dB(A)	50	51	53	54	
Operation range (Inlet water temp.)			°C	10 to 45				
Capacity control			%	23–100		11–100		
Refrigerant	Type			R-410A				
	Charge		kg	3.5	4.2	3.5 + 3.5	3.5 + 4.2	4.2 + 4.2

MODEL			50 Hz	RWEYQ24PY1	RWEYQ26PY1	RWEYQ28PY1	RWEYQ30PY1
			60 Hz	—	—	—	RWEYQ30PYL
				—	—	—	RWEYQ30PTL
	Combination units (50 Hz)			RWEYQ8PY1	RWEYQ8PY1	RWEYQ8PY1	RWEYQ10PY1
				RWEYQ8PY1	RWEYQ8PY1	RWEYQ10PY1	RWEYQ10PY1
				RWEYQ8PY1	RWEYQ10PY1	RWEYQ10PY1	RWEYQ10PY1
	Combination units (60 Hz)			—	—	—	RWEYQ10PYL/TL
				—	—	—	RWEYQ10PYL/TL
				—	—	—	RWEYQ10PYL/TL
Power supply				Y1: 3-phase 4-wire system, 380–415 V, 50 Hz YL: 3-phase 4-wire system, 380 V, 60 Hz TL: 3-phase 3-wire system, 220 V, 60 Hz			
Cooling capacity (*1)(*2)			kcal/h(*1)	58,600	62,300	66,000	69,700
			Btu/h(*1)	232,000	247,000	262,000	276,000
		kW	(*1)	68.1	72.4	76.7	81.0
			(*2)	67.2	71.5	75.8	80.1
Heating capacity			kcal/h	64,500	70,100	75,700	81,300
			Btu/h	256,000	278,000	300,000	322,000
			kW	75.0	81.5	88.0	94.5
Power consumption	Cooling (*2)		kW	13.6	15.1	16.6	18.1
	Heating			12.7	14.5	16.3	18.2
Casing colour				Ivory white (5Y7.5/1)			
Dimensions (H × W × D)			mm	(1,000 x 780 x 550) × 3			
Compressor	Type			Hermetically sealed scroll type			
	Motor output		kW	4.0 x 3	4.0 x 2 + 4.2	4.0 + 4.2 x 2	4.2 x 3
Refrigerant piping connections	Liquid		mm	ø15.9 (Flare)	ø19.1 (Flare)		
	Suction gas★1			ø34.9 (Brazing)			
	High and low pressure gas			ø28.6 ★2, ø34.9 ★3 (Brazing)			
Water piping connections	Water inlet			(PT1 1/4B) x 3 internal thread			
	Water outlet			(PT1 1/4B) x 3 internal thread			
	Drain outlet			(PS1/2B) x 3 internal thread			
Machine weight (Operating weight)			kg	149 + 149 + 149 (151 + 151 + 151)	149 + 149 + 150 (151 + 151 + 152)	149 + 150 + 150 (151 + 152 + 152)	150 + 150 + 150 (152 + 152 + 152)
Sound level			dB(A)	55			56
Operation range (Inlet water temp.)			°C	10 to 45			
Capacity control			%	8–100			
Refrigerant	Type			R-410A			
	Charge		kg	3.5 + 3.5 + 3.5	3.5 + 3.5 + 4.2	3.5 + 4.2 + 4.2	4.2 + 4.2 + 4.2

Note: 1. Specifications are based on the following conditions ;
- •Cooling: (*1) Indoor temp.: 27°CDB, 19.5°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
  (*2) Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB/inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.

2. ★1. In the case of heat pump system, suction gas pipe is not used.
   ★2. In the case of heat recovery system.
   ★3. In the case of heat pump system.
3. This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).
4. Hold ambient temperature at 0–40°C and humidity at 80%RH or less. Heat rejection from the casing: 0.64 kW/8 HP, 0.71 kW/10 HP.
5. Connectable to closed type cooling tower only.

•Be sure to refer to the Engineering Data Book for facility design.

Specifications

BS UNITS FOR HEAT RECOVERY

BS Unit

MODEL			50 Hz	BSVQ100PV1	BSVQ160PV1	BSVQ250PV1
			60 Hz	BSVQ36PVJU	BSVQ60PVJU	BSVQ96PVJU
Power supply				V1: 1-phase, 220-240 V, 50 Hz, VJU: 1-phase, 208-230 V, 60 Hz		
No. of branches				1		
Total capacity index of connectable indoor units				20 to 100	More than 100 but 160 or less	More than 160 but 250 or less
No. of connectable indoor units				Max. 5	Max. 8	Max. 8
Casing				Galvanised steel plate		
Dimensions (H×W×D)			mm	207×388×326		
Refrigerant piping connections	Indoor unit	Liquid	mm	ϕ 9.5 (Brazing)★1	ϕ 9.5 (Brazing)	ϕ 9.5 (Brazing)
		Gas		ϕ15.9 (Brazing)★1	ϕ15.9 (Brazing)★2	ϕ22.2 (Brazing)★3
	Outside unit	Liquid	mm	ϕ 9.5 (Brazing)	ϕ 9.5 (Brazing)	ϕ 9.5 (Brazing)
		Suction gas		ϕ15.9 (Brazing)	ϕ15.9 (Brazing)★2	ϕ22.2 (Brazing)★3
		High and low pressure gas		ϕ 12.7 (Brazing)	ϕ12.7 (Brazing)★2	ϕ19.1 (Brazing)★3
Machine weight			kg	12	12	15
Sound level			dB(A)	42 (32)★4	43 (32)★4	44 (34)★4

Notes: ★1 When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)
★2 When connecting with indoor units with total capacity indexes between 150 and 160, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)
★3 When connecting with indoor units with a capacity index of 200, or with total capacity indexes between 160 and 200, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)
★4 Figures in brackets ( ) indicate sound levels when the all indoor units connected to the BS unit are not operating but other indoor units within the same system are operating.

Centralised BS Unit (50 Hz only)

MODEL				BSV4Q100PV1	BSV6Q100PV1
Power supply				1-phase, 220-240 V, 50 Hz	
No. of branches				4	6
Capacity index of connectable indoor units per branch				Max. 100	
No. of connectable indoor units per branch				Max. 5	
Casing				Galvanised steel plate	
Dimensions (H×W×D)			mm	209 × 1,053 × 635	209 × 1,577 × 635
Refrigerant piping connections	Indoor unit	Liquid	mm	ϕ 9.5 (Brazing)★1	ϕ 9.5 (Brazing)★1
		Gas		ϕ15.9 (Brazing)★1	ϕ15.9 (Brazing)★1
	Outside unit	Liquid	mm	ϕ 12.7 (Brazing)★2	ϕ15.9 (Brazing)★2
		Suction gas		ϕ 28.6 (Brazing)★2	ϕ 28.6 (Brazing)★2
		High and low pressure gas		ϕ19.1 (Brazing)★2	ϕ 28.6 (Brazing)★2
Machine weight			kg	60	89
Sound level			dB(A)	48 (38)★3	50 (40)★3

Notes: ★1 When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe. (Braze connection between the attached and field pipe.)
★2 Reducer may be required (obtain locally) if joint diameter does not fit on the triple piping side. Insulators are necessary (obtain locally) for piping connections on the outside unit side.
★3 Figures in brackets ( ) indicate sound levels when the all indoor units connected to the BS unit are not operating but other indoor units within the same system are operating.
• Must be installed in locations where the noise generated by the BS unit does not cause any problem.
• Make sure to connect the closed pipe kit (KHFP26A100C) to branch not connected for the indoor unit. Closed pipe kit (option) can be used for only one branch in each unit, and up to two branches in one refrigerant circuit.

Option List

INDOOR UNITS

Ceiling Mounted Cassette (Round Flow) Type

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

Ceiling Mounted Cassette (Compact Multi Flow) Type

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

Ceiling Mounted Cassette (Double Flow) Type

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

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

Ceiling Mounted Cassette Corner Type

No.	Item \ Type		FXKQ25MA	FXKQ32MA	FXKQ40MA	FXKQ63MA
1	Panel related	Decoration panel	BYK45FJW1			BYK71FJW1
		Panel spacer	KPBJ52F56W			KPBJ52F80W
2	Air inlet and air discharge outlet related	Long life replacement filter	KAFJ521F56			KAFJ521F80
		Air discharge grille	K-HV7AW			K-HV9AW
		Air discharge blind panel	KDBJ52F56W			KDBJ52F80W
		Flexible duct (with shutter)	KFDJ52FA56			KFDJ52FA80

Slim Ceiling Mounted Duct Type (700 mm width type)

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

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

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

Option List

INDOOR UNITS

Ceiling Mounted Duct Type

No.	Item \ Type		FXMQ20P FXMQ25P FXMQ32P	FXMQ40P	FXMQ50P FXMQ63P FXMQ80P	FXMQ100P FXMQ125P FXMQ140P	FXMQ200MA FXMQ250MA
1	Drain pump kit		—				KDU30L250VE
2	High efficiency filter	65%	KAF372AA36	KAF372AA56	KAF372AA80	KAF372AA160	KAFJ372L280
		90%	KAF373AA36	KAF373AA56	KAF373AA80	KAF373AA160	KAFJ373L280
3	Filter chamber		KDDF37AA36	KDDF37AA56	KDDF37AA80	KDDF37AA160	KDJ3705L280
4	Long life replacement filter		KAF371AA36	KAF371AA56	KAF371AA80	KAF371AA160	KAFJ371L280
5	Long life filter chamber kit		KAF375AA36	KAF375AA56	KAF375AA80	KAF375AA160	—
6	Service panel	White	KTBJ25K36W	KTB25KA56W	KTB25KA80W	KTB25KA160W	
		Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T	
7	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A	

Ceiling Suspended Type

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

Wall Mounted Type

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

Floor Standing Type

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

Concealed Floor Standing Type

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

Ceiling Suspended Cassette Type

No.	Item \ Type	FXUQ71MA	FXUQ100MA	FXUQ125MA
1	Replacement long-life filter	KAF495FA140		
2	Sealing member of air discharge outlet (*1)	KDBH49FA80	KDBH49FA140	
3	Decoration panel for air discharge	KDBT49FA80	KDBT49FA140	
4	Vertical flap kit	KDGJ49FA80	KDGJ49FA140	
5	L-shape piping kit	KHFP49MA140		

Note: (*1): This option is necessary for setting up 2-way (opposing directional) airflow when the air conditioner is installed.

OUTSIDE UNITS

No.	Item \ Type		RWEYQ8P RWEYQ10P	RWEYQ16P RWEYQ18P RWEYQ20P	RWEYQ24P RWEYQ26P RWEYQ28P RWEYQ30P
1	Cool/heat selector		KRC19-26A		
1-1	Fixing box		KJB111A		
2	Distributive piping	REFNET header	KHRP25M33H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP25M73H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch)
		REFNET joint	KHRP25A22T, KHRP25A33T, KHRP26A22T, KHRP26A33T	KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP26A22T, KHRP26A33T, KHRP26A72T	KHRP25A22T,KHRP25A33T, KHRP25A72T, KHRP25A73T, KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T
3	Outside unit multi connection piping kit	For heat pump	—	BHFP22MA56	BHFP22MA84
		For heat recovery	—	BHFP26MA56	BHFP26MA84
4	External control adaptor		DTA104A62		
5	Strainer kit		BWU26A15, BWU26A20 (Applies to RWEYQ-PY1 only)		

Note: ★1 In the case of heat recovery system, cool/heat selector cannot be connected.
★2 Strainer kit is equipped as a standard accessory with 60Hz models. This option is necessary for replacement use for 60Hz models.

Strainer kit specifications (50 Hz only)

Model		BWU26A15	BWU26A20
Pressure resistance	MPa	1.47	1.96
Mesh size		50	50
Connection diameter		PT1 1/4B internal thread	PT1 1/4B internal thread

Note: Strainer kit is equipped as a standard accessory with 60 Hz models.

BS UNITS FOR HEAT RECOVERY

Centralised BS Unit (50 Hz only)

No.	Item \ Type	BSV4Q100P	BSV6Q100P
1	Cool/heat selector	KRC19-26A	
2	Closed pipe kit	KHFP26A100C	

Individual Control Systems

Navigation remote controller (Wired remote controller) (Option)

BRC1E61

- Large buttons and arrow keys for easy operation.
- Guide on display gives an explanation of each setting.
- Backlight and dot matrix LCD display for easy viewing.
- Weekly schedule timer can be set up easily.
- 10 display languages are available.
  (English, German, French, Spanish, Italian, Portuguese, Greek, Dutch, Russian and Turkish)

Wired remote controller (Option)

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

BRC1C62

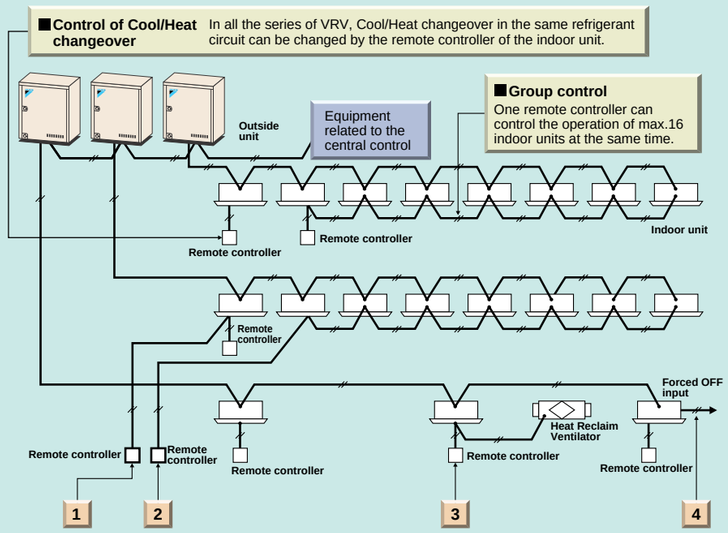
Wired remote controller with weekly schedule timer (Option)

Adds weekly schedule timer function.

BRC1D61

Notes: 1. Standard remote controllers (BRC1C62) not required.
2. If the BRC1D61 is connected to the centralised remote controllers (DCS302CA61, DCS301BA61, DST301BA61), the schedule function is not available.

The wired remote controller supports a wide range of control functions



1 Control by two remote controller

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

2 Remote control

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

3 Control for the combined operation

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

4 Expansion of system control

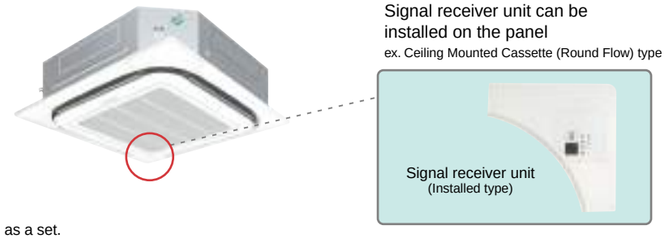
The system can be expanded to add several controllers, such as BMS, Forced OFF input and etc.

Wireless remote controller (Option)

Wireless remote controller

Signal receiver unit
(Separate type)

- The same operation modes and settings as with wired remote controllers are possible.
- A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.
  - A signal receiver unit (installed type) for a Ceiling Mounted Cassette (Round Flow, Compact Multi Flow, Double Flow) type, Ceiling Suspended type and Wall Mounted type is mounted into the indoor unit.



*Wireless remote controller and signal receiver unit are sold as a set.
*Refer to page 39 for the name of each model.

Simplified remote controller (Option)

Exposed type
(BRC2C51)

Concealed type
(For hotel use)
(BRC3A61)

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

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

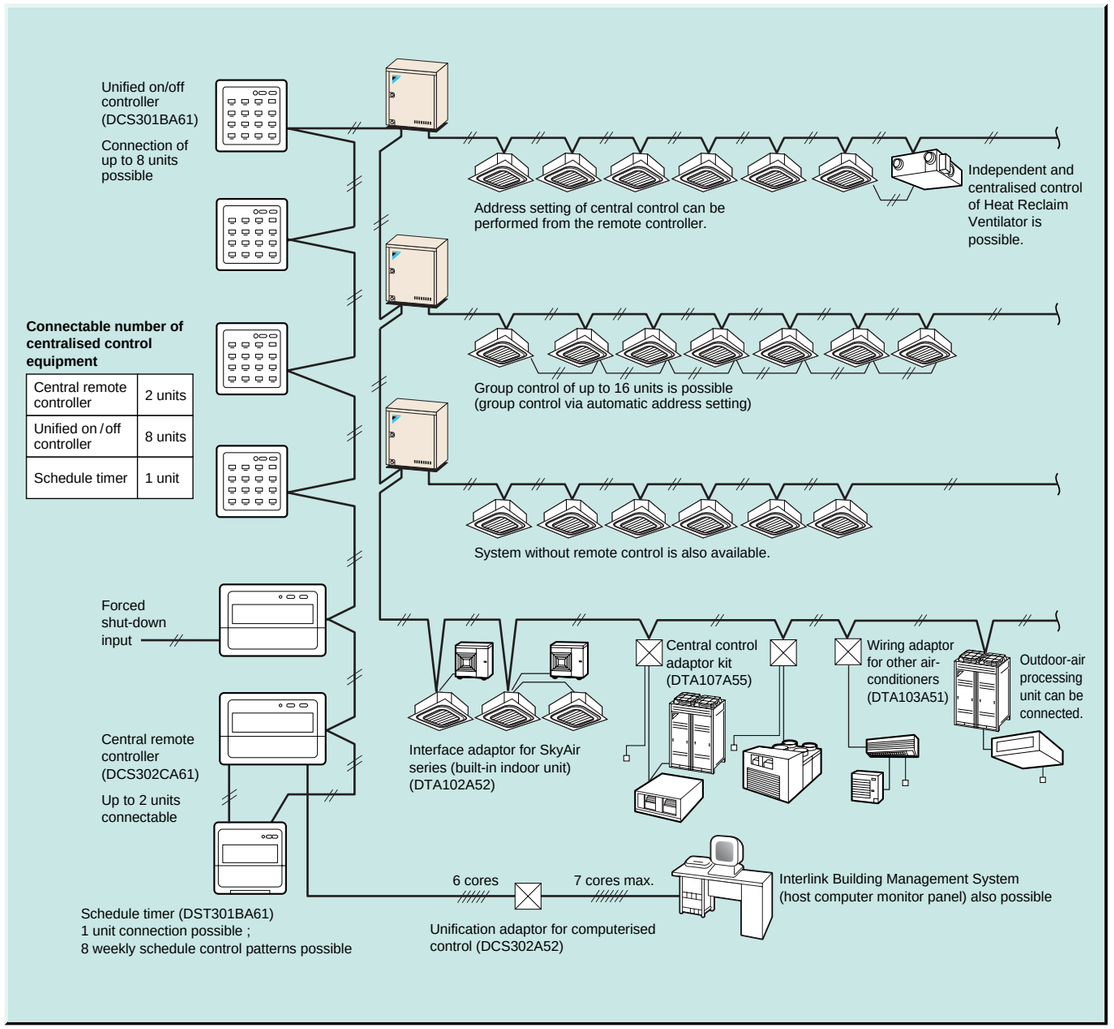
Wide variation of remote controllers for indoor units

	FXFQ	FXZQ	FXCQ	FXKQ	FXDQ	FXMQ	FXHQ	FXAQ	FXL(N)Q	FXUQ
Navigation remote controller (Wired remote controller) (BRC1E61)	●	●	●	●	●	●	●	●	●	●
Wired remote controller (BRC1C62)	●	●	●	●	●	●	●	●	●	●
Wired remote controller with weekly schedule timer (BRC1D61)	●	●	●	●	●	●	●	●	●	●
Wireless remote controller* (Installed type signal receiver unit)	●	●	●				●	●		●
Wireless remote controller* (Separate type signal receiver unit)				●	●	●			●	
Simplified remote controller (Exposed type) (BRC2C51)					●	●			●	
Simplified remote controller (Concealed type: for Hotel use) (BRC3A61)					●	●			●	

*Refer to page 39 for the name of each model.

Centralised Control Systems

- 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 integration with various air-conditioning peripheral equipment such as Heat Reclaim Ventilator is easy.
- Wiring can be run up to a total length of 2 km, and adapts easily to large-scale system expansion.



•Certain indoor units limit the functions of some control systems.
For more details, please refer to the Engineering Data Book.

Central remote controller (Option)

DCS302CA61

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

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

Unified ON/OFF controller (Option)

DCS301BA61

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

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

Schedule timer (Option)

DST301BA61

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

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

Interface adaptors (Option)

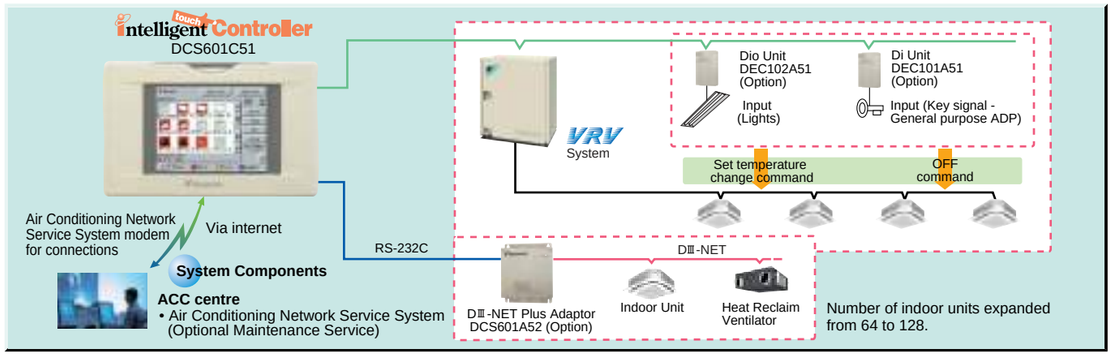
Part name	Model No.	Function
Unification adaptor for computerised control	★ DCS302A52	Interface between the central monitoring board and central control units. Combined with the central remote controller, this adaptor enables the central monitoring board to centralise such functions as the on/off control, operation status monitoring, and normal/malfunction monitoring.(*1)
Interface adaptor for SkyAir series	★ DTA102A52 For SkyAir, FD(Y)M-FA, FDYB-KA, FDY-KA, FVY(P)J-A, FXUQ-MA	Adaptors required to connect products other than those of the VRV System to the high-speed DIII-NET communication system adopted for the VRV System. * To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
Central control adaptor kit	★ DTA107A55 For UAT(Y)-K(A), FD-K	
Wiring adaptor for other air-conditioner	★ DTA103A51 For air conditioners other than mentioned above.	

Note: Installation box for ★ adaptor must be obtained locally.

Control systems

Advanced control systems

intelligent touch Controller

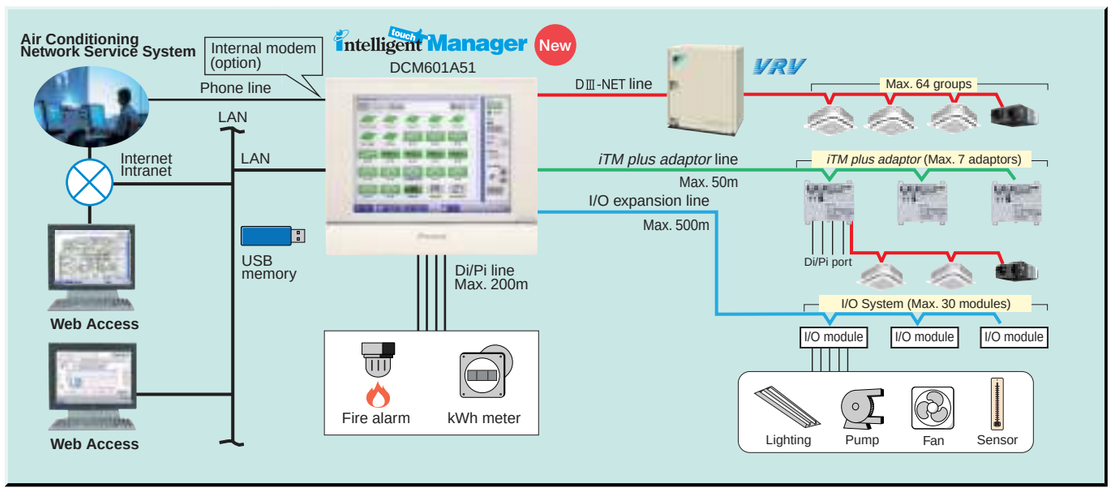


Communication functions in the user-friendly icon-based multilingual controller simplify centralised control of the VRV system.

Features

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

intelligent touch Manager New



One touch selection to total air comfort

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

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

Features

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

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

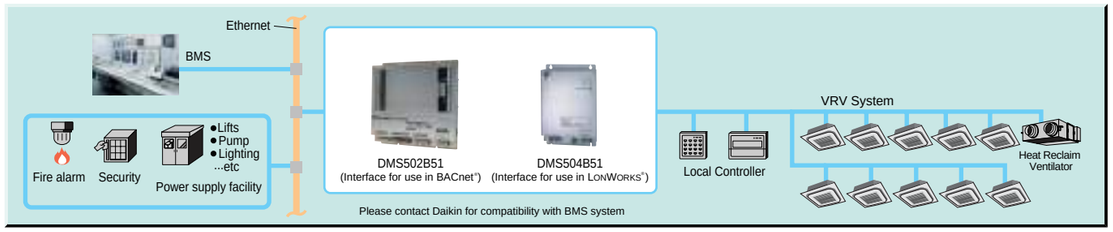
■ Automatic control
- VRVs are controlled automatically throughout the year by the schedule function.
- Interlocking VRVs and other equipment enables easy automation of building facilities operation.
- Setback adjusts temperature settings even when rooms are unoccupied.

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

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

■ Scalability
- A single *intelligent Touch Manager* can manage a small building or be expanded to handle medium- to large-sized buildings.
- Large building properties can also take advantage of the *iTM integrator* to link up and expand system up to 5 *intelligent Touch Managers* for integrated control.

Interface for BACnet® and LONWORKS®



Integrated control systems that recognise the trend of open control systems

■ Compatibility with BMS enhanced by utilising the international communication standards, BACnet® or LONWORKS®.

DMS502B51 Interface for use in BACnet®

- BTL Certification
- PPD data (Optional Di board is required.)
- ISO 16484-5 (Does not support IEEE 802.3 protocol for BACnet®)
- Conformance class 3 (ASHRAE 135–1995)
- Standard BACnet® Device B-ASC (ASHRAE 135–2001)
- Up to 40 outside units and 256 indoor unit groups on one gateway (Optional adaptor)

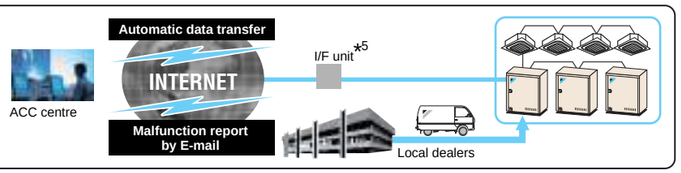
DMS504B51 Interface for use in LONWORKS®

- XIF file for confirming of specifications of the units.
- Connectable up to 10 outside units and 64 indoor unit groups.

Air Conditioning Network Service System

Maintenance services that boost profits and customer satisfaction

- 24 hour on-line diagnostic system
- Energy saving and extension of aircon operating life
- Maintenance management via A/C network service system reports
- Reliable service at short lead time



*1. There are restrictions in applicable areas and release times, therefore please consult us separately for details.
*2. Model name varies upon the system size.
*3. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
*4. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.
*5. For an I/F unit, one of the following can be selected: ***Local Controller***, intelligent Touch Controller, or intelligent Touch Manager.
*6. Refer to the Options page for the name of each model.

Control systems

OPTIONS

Operation Control System Optional Accessories

No.	Item / Type		FXFQ-P	FXZQ-M	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB	FXMQ-P	FXMQ-MA	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXUQ-MA	BSV(4,6)Q-P
1	Remote controller	Wireless	BRC7F634F	BRC7E530W	BRC7C62	BRC4C61	BRC4C65	BRC4C65	BRC4C62	BRC7EA63W	BRC7EA618	BRC4C62	BRC7CA528W	—
		Wired	BRC1C62											—
2	Navigation remote controller (Wired remote controller)		BRC1E61											—
3	Wired remote controller with weekly schedule timer		BRC1D61											—
4	Simplified remote controller (Exposed type)		—				BRC2C51		—			BRC2C51	—	—
5	Remote controller for hotel use (Concealed type)		—				BRC3A61		—			BRC3A61	—	—
6	Adaptor for wiring		★KRP1C63	★KRP1BA57	★KRP1B61	KRP1B61	★KRP1B56	★KRP1C64	KRP1B61	KRP1BA54	—	KRP1B61	—	—
7-1	Wiring adaptor for electrical appendices (1)		★KRP2A62	★KRP2A62	★KRP2A61	KRP2A61	★KRP2A53	★KRP2A61	KRP2A61	★KRP2A62	★KRP2A61	KRP2A61	—	—
7-2	Wiring adaptor for electrical appendices (2)		★KRP4AA53	★KRP4AA53	★KRP4AA51	KRP4AA51	★KRP4A54	★KRP4AA51	KRP4AA51	★KRP4AA52	★KRP4AA51	KRP4AA51	★KRP4AA53	—
8	Remote sensor (for indoor temperature)		KRCS01-4B	KRCS01-1B				KRCS01-4B	KRCS01-1B					—
9	Installation box for adaptor PCB☆		Notes 2, 3 KRP1H98	Notes 4, 6 KRP1BA101	Notes 2, 3 KRP1B96	—	Notes 4, 6 KRP1BA101	Notes 2, 3 KRP4A96	—	Notes 3 KRP1CA93	Notes 2, 3 KRP4AA93	—	KRP1BA97	—
10	External control adaptor for outdoor unit		★DTA104A62	★DTA104A62	★DTA104A61	DTA104A61	★DTA104A53	★DTA104A61	DTA104A61	★DTA104A62	★DTA104A61	DTA104A61	—	—
11	Adaptor for multi tenant		★DTA114A61	—				★DTA114A61	—		★DTA114A61	—		DTA114A61

Note: 1. Installation box ☆ is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box ☆ is necessary for second adaptor.
6. Installation box ☆ is necessary for each adaptor.

System Configuration

No.	Item		Model No.	Function
1	Central remote controller		Note 2 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.
1-1	Electrical box with earth terminal (3 blocks)		KJB311AA	
2	Unified ON/OFF controller		Note 2 DCS301BA61	•Up to 16 groups of indoor units(128 units) can be turned, ON/OFF individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers.
2-1	Electrical box with earth terminal (2 blocks)		KJB212AA	
2-2	Noise filter (for electromagnetic interface use only)		KEK26-1A	
3	Schedule timer		Note 2 DST301BA61	•Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day.
4	Interface adaptor for SkyAir-series	For SkyAir, FD(Y)M-FA, FDY-KA, FDYB-KA, FVY(P)J-A, FXUQ-MA	★DTA102A52	•Adaptors required to connect products other than those of the VRV System to the high-speed DIII-NET communication system adopted for the VRV System. * To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
5	Central control adaptor kit	For UAT(Y)-K(A),FD-K	★DTA107A55	
6	Wiring adaptor for other air-conditioner		★DTA103A51	
7	DⅢ-NET Expander Adaptor		DTA109A51	•Up to 1024 units can be centrally controlled in 64 different groups. •Wiring restrictions (max. length : 1,000 m, total wring length : 2,000 m max. number of branches : 16) apply to each adaptor.
7-1	Mounting plate		KRP4A92	•Fixing plate for DTA109A51

Notes: 1. Installation box for★ adaptor must be obtained locally.
2. For FXUQ-MAV1, an interface adaptor (DTA102A52) for the SkyAir series is necessary.

OPTIONS

Building Management System

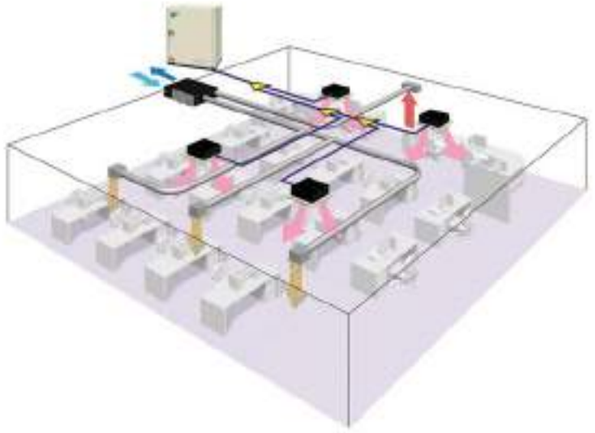
No.	Item				Model No.	Function
1	intelligent Touch Controller	Basic	Hardware	intelligent Touch Controller	DCS601C51	•Air-Conditioning management system that can be controlled by a compact all-in-one unit.
1-1		Option		DIII-NETplus adaptor	DCS601A52	•Additional 64 groups (10 outside units) is possible.
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 outside units) is possible. Max. 7 iTM plus adaptors can be connected to intelligent Touch Manager.
2-2				iTM integrator	DCM601A53	•Max. 5 intelligent Touch Managers can be integrated.
2-3			Software	iTM power proportional distribution	DCM002A51	•Power consumption of indoor units are calculated based on operation status of the indoor unit and outside unit power consumption measured by kWh metre.
2-4				iTM energy navigator	DCM008A51	•Building energy consumption is visualised. Wasted air-conditioning energy can be found out.
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 line	*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	Contact/ analogue signal	Unification adaptor for computerised control			★DCS302A52	•Interface between the central monitoring board and central control units.

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

Heat Reclaim Ventilator

with DX-Coil and Humidifier — VKM series 50 Hz only

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



Efficient outdoor air introduction is possible

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

Line up

With DX Coil & Humidifier Type			
Model Name	VKM50GAMV1	VKM80GAMV1	VKM100GAMV1
Capacity Index	31.25	40	50

With DX Coil Type			
Model Name	VKM50GAV1	VKM80GAV1	VKM100GAV1
Capacity Index	31.25	40	50

Humidifier

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

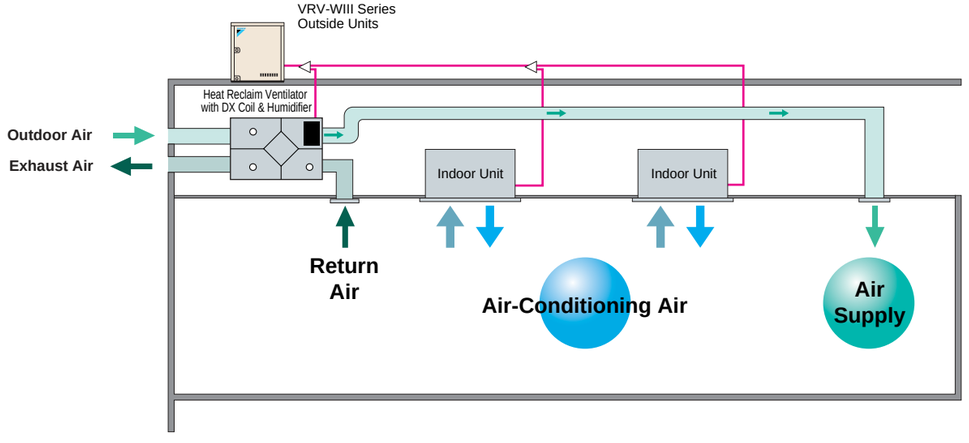
DX-coil

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

High static pressure

High external static pressure means enhanced design flexibility.

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



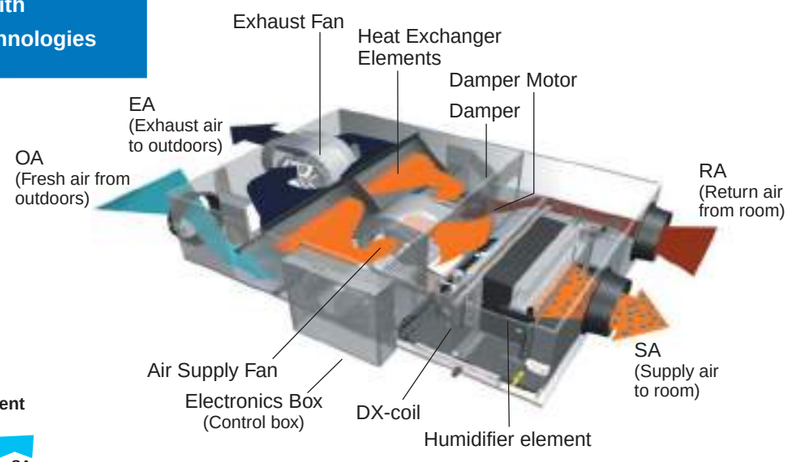
Connection Conditions

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

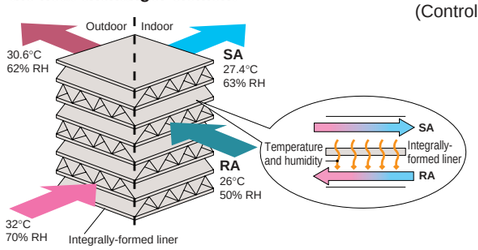
- When Heat Reclaim Ventilator VKM series units are connected, the total connection capacity index must be 50% to 130% of the capacity index of the outside units.

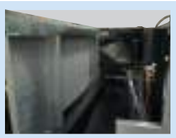
A compact unit packed with Daikin's cutting-edge technologies

HEP Element
(Anti-mould)



Operation of the heat exchanger element

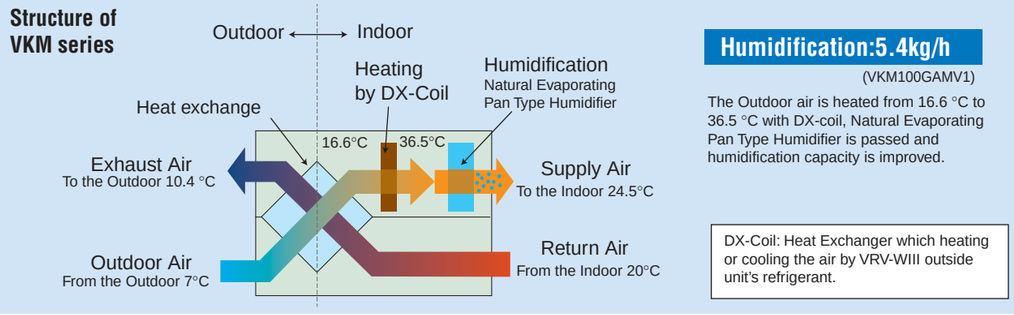




DX-coil
(Direct expansion coil)

Humidifier element

Heating and humidification process



Humidification:5.4kg/h

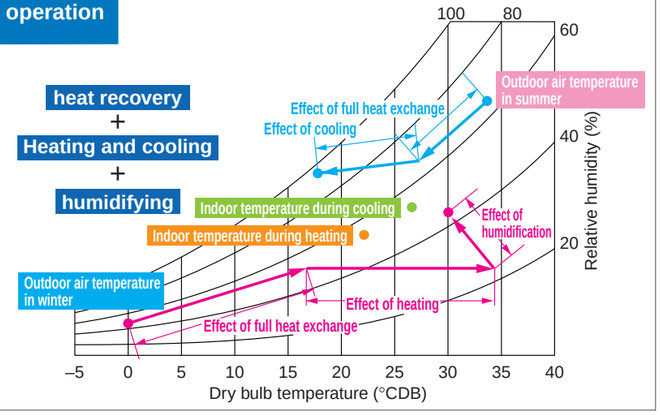
(VKM100GAMV1)

The Outdoor air is heated from 16.6 °C to 36.5 °C with DX-coil, Natural Evaporating Pan Type Humidifier is passed and humidification capacity is improved.

DX-Coil: Heat Exchanger which heating or cooling the air by VRV-WIII outside unit's refrigerant.

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

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



Other features

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

SPECIFICATIONS

MODEL				VKM50GAMV1*	VKM80GAMV1*	VKM100GAMV1*	VKM50GAV1	VKM80GAV1	VKM100GAV1
Refrigerant				R-410A					
Power Supply				1-phase, 220–240 V, 50 Hz					
Airflow Rate & Static Pressure (Note 7)	Ultra-high	Airflow rate	m^3/h	500	750	950	500	750	950
		Static pressure	Pa	160	140	110	180	170	150
	High	Airflow rate	m^3/h	500	750	950	500	750	950
		Static pressure	Pa	120	90	70	150	120	100
	Low	Airflow rate	m^3/h	440	640	820	440	640	820
		Static pressure	Pa	100	70	60	110	80	70
Power Consumption	Heat exchange mode	Ultra-high	W	560	620	670	560	620	670
		High		490	560	570	490	560	570
		Low		420	470	480	420	470	480
	Bypass mode	Ultra-high	W	560	620	670	560	620	670
		High		490	560	570	490	560	570
		Low		420	470	480	420	470	480
Fan Type				Sirocco Fan					
Motor Output			kW	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2
Sound Level (Note 5) (220/230/240 V)	Heat exchange mode	Ultra-high	dB(A)	37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41
		High		35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39
		Low		32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5
	Bypass mode	Ultra-high	dB(A)	37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41
		High		35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39
		Low		32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5
Humidification Capacity (Note 4)			kg/h	2.7	4.0	5.4	—	—	—
Temp. Exchange Efficiency	Ultra-high		%	76	78	74	76	78	74
	High			76	78	74	76	78	74
	Low			77.5	79	76.5	77.5	79	76.5
Enthalpy Exchange Efficiency (Cooling)	Ultra-high		%	64	66	62	64	66	62
	High			64	66	62	64	66	62
	Low			67	68	66	67	68	66
Enthalpy Exchange Efficiency (Heating)	Ultra-high		%	67	71	65	67	71	65
	High			67	71	65	67	71	65
	Low			69	73	69	69	73	69
Casing				Galvanised Steel Plate					
Insulating Material				Self-Extinguishable Urethane Foam					
Heat Exchanging System				Air to Air Cross Flow Tot al Heat (Sensible + Latent Heat) Exchange					
Heat Exchanger Element				Specially Processed Nonflammable Paper					
Air Filter				Multidirectional Fibrous Fleeces					
DX-coil Capacity	Cooling (Note 2)		kW	2.8	4.5	5.6	2.8	4.5	5.6
	Heating (Note 3)			3.2	5.0	6.4	3.2	5.0	6.4
Dimensions	Height		mm	387	387	387	387	387	387
	Width			1,764	1,764	1,764	1,764	1,764	1,764
	Depth			832	1,214	1,214	832	1,214	1,214
Connection Duct Diameter			mm	ø200	ø250		ø200	ø250	
Machine Weight		Net	kg	102	120	125	96	109	114
		Gross (Note 8)		107	129	134	—		
Unit Ambient Condition		Around Unit		0°C–40°C DB, 80%RH or less					
		OA (Note 9)		-15°C–40°C DB, 80%RH or less					
		RA (Note 9)		0°C–40°C DB, 80%RH or less					

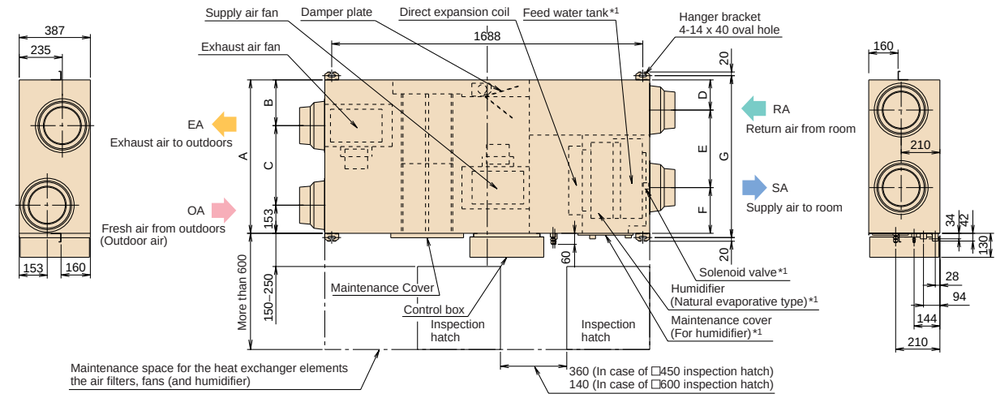
Notes:
1. Cooling and heating capacities are based on the following conditions. Fan is based on High and Ultra-high. When calculating the capacity as indoor units, use the following figures: VKM50GAMV1/GV1: 3.5 kW, VKM80GAMV1/GV1: 5.6 kW, VKM100GAMV1/GV1: 7.0 kW
2. Indoor temperature: 27°C DB, 19°C WB, Outdoor temperature: 35°C DB
3. Indoor temperature: 20°C DB, Outdoor temperature: 7°C DB, 6°C WB
4. Humidifying capacity is based on the following conditions: Indoor temperature: 20°C DB, 15°C WB, Outdoor temperature: 7°C DB, 6°C WB
5. The operating sound measured at the point 1.5 m below the centre of the unit is converted to that measured in an anechoic chambar built in accordance with the JIS C 1502 conditions. The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value. For operation in a quiet room, it is required to take measures to lower the sound. For details, refer to the Engineering Data.
6. The noise level at the air discharge port is about 8–11 dB(A) or higher than the unit's operating sound. For operation in a quiet room, it is required to take measures to lower the sound.
7. Airflow rate can be changed over to Low mode or High mode.
8. In case of holding full water in humidifier.
9. OA: fresh air from outdoor. RA: return air from room.
10. Specifications, design and information here are subject to change without notice.
11. Power consumption and efficiency depend on the above value of airflow rate.
12. Temperature exchange efficiency is the mean value for Cooling and Heating. Efficiency is measured under the following condition: Ratio of rated external static pressure outdoor to indoor is kept constant at 7 to 1.
13. In heating operation, freezing of the outside unit's coil increases. Heating capability decreases and the system goes into defrost operation. During defrost operation, the fans of the unit continues driving (factory setting). The purpose of this is to maintain the amount of ventilation and humidifying.
14. When connecting with a VRV-WIII system heat recovery outside unit and bringing the RA (exhaust gas intake) of this unit directly in from the ceiling, connect to a BS unit identical to the VRV-WIII indoor unit (master unit), and use group-linked operation. (See the Engineering Data for details.)
15. When connecting the indoor unit directly to the duct, always use the same system on the indoor unit as with the outdoor unit, perform group-linked operation, and make the direct duct connection settings from the remote controller. (Mode No. "17 (27)" – First code No. "5" – Second code No. "6".) Also, do not connect to the outlet side of the indoor unit. Depending on the fan strength and static pressure, the unit might back up.

★ Feed clean water (city water, tap water or equivalent). Dirty water may clog the valve or cause dirt deposits in the water container, resulting in poor humidifier performance. (Never use any cooling tower water and heating-purpose water.)
Also, if the supply water is hard water, use a water softener because of short life.

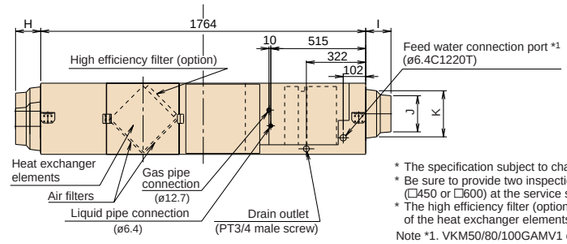
* Life of humidifying element is about 3 years (4,000 hours) under the supply water conditions of hardness: 150 mg/l. (Life of humidifying element is about 1 year (1,500 hours) under the supply water conditions of hardness: 400 mg/l.)
Annual operating hours: 10 hours/day x 26 days/month x 5 months = 1,300 hours

DIMENSIONS

VKM50/80/100GA(M)V1



	VKM50GA(M)V1	VKM80/100GA(M)V1
A	832	1,214
B	248	439
C	431	622
D	164	183
E	420	592
F	248	439
G	878	1,262
H	137	89
I	137	89
J	ø196	ø246
K	ø250	ø263



* The specification subject to change without notice.
* Be sure to provide two inspection hatch. (□450 or □600) at the service side of filters and elements.
* The high efficiency filter (option) can be attached to the SA surface of the heat exchanger elements.

Note *1. VKM50/80/100GAMV1 only.

OPTIONS

Item			Type	VKM50/80/100GA(M)V1										
Controlling device	Remote controller			BRC1E61/BRC1C62/BRC1D61 *1										
	Centralised controlling device	Central remote controller		DCS302CA61										
		Unified ON/OFF controller		DCS301BA61										
		Schedule timer		DST301BA61										
	PC Board Adaptor	Wiring adaptor for electrical appendices		KRP2A61										
		For humidifier running ON signal output		KRP50-2										
		For heater control kit		BRP4A50										
		For wiring	Type (indoor unit of VRV)	FXFQ-P	FXZQ-M	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB	FXMQ-P	FXMQ-MA	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXUQ-MA
				KRP1C63★	KRP1BA57★	KRP1B61★	KRP1B61	KRP1B56★	KRP1C64★	KRP1B61	KRP1BA54	—	KRP1B61	—
		Installation box for adaptor PCB☆		Notes 2, 3 KRP1H98	Note 4, 6 KRP1BA101	Notes 2, 3 KRP1B96	—	Notes 4, 6 KRP1BA101	Notes 2, 3 KRP4A96	—	Note 3 KRP1CA93	Notes 2, 3 KRP4AA93	—	KRP1BA97

Notes:
1. Installation box☆is necessary for each adaptor marked★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box☆is necessary for second adaptor.
6. Installation box☆is necessary for each adaptor.
7. *1 Necessary when operating Heat Reclaim Ventilator (VKM) independently. When operating interlocked with other air conditioners, use the remote controllers of the air conditioners.

Item			Type	VKM50GA(M)V1	VKM80GA(M)V1	VKM100GA(M)V1
Additional function	Silencer			—	KDDM24B100	
		Nominal pipe diameter mm		—	ϕ250 mm	
	Air suction/ Discharge grille	White		K-DGL200B	K-DGL250B	
		Nominal pipe diameter mm		ϕ200	ϕ250	
	High efficiency filter			KAF241G80M	KAF241G100M	
	Air filter for replacement			KAF242G80M	KAF242G100M	
Flexible duct (1 m)				K-FDS201D	K-FDS251D	
Flexible duct (2 m)				K-FDS202D	K-FDS252D	

Heat Reclaim Ventilator

The Heat Reclaim Ventilator Creates a High-Quality Environment by Interlocking with the Air Conditioner

- **Improved Enthalpy Efficiency** ★1
- **Higher External Static Pressure** ★2
- **Enhanced Energy Saving Functions**

Model Names

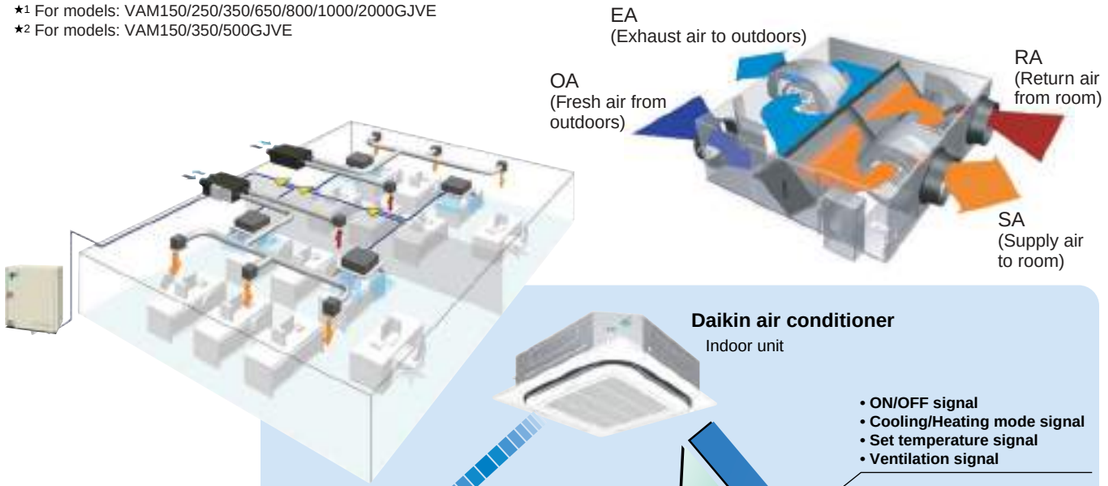
VAM150GJVE, VAM250GJVE, VAM350GJVE, VAM500GJVE, VAM650GJVE, VAM800GJVE, VAM1000GJVE, VAM1500GJVE, VAM2000GJVE

Heat Reclaim Ventilator remote controller*
BRC301B61 (Option)

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

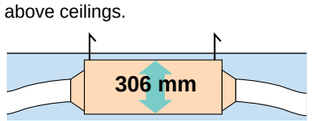
This series provides higher enthalpy efficiency★1, due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure★2 offers more flexibility for installation. Along with these three outstanding improvements, the nighttime free cooling operation contributes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

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



Compact Equipment

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



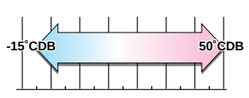
*For VAM500GJVE

Energy Conservation

Air conditioning load reduced by approximately 31%!

Cold Climate Compatible

Standard operation at temperatures down to -15°C.



Air conditioning load reduced by approximately 31%!

Total heat exchange ventilation — 23%

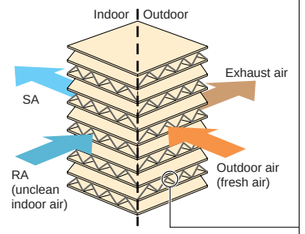
This unit recovers heat energy lost through ventilation and curbs room temperature changes caused by ventilation, thereby conserving energy and reducing the load on the air conditioning system.

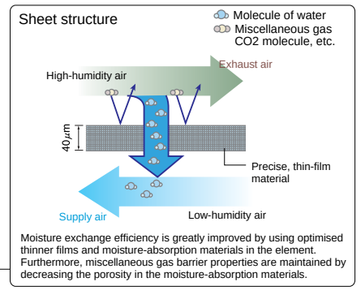
Enthalpy efficiency drastically improved by employing thin film element! (VAM-GJ model)

Due to the thinner film…
- Decreases the moisture resistance of the partition sheets drastically.
- Realises more space for extra layers in the element, resulting in increased effective area that supply and exhaust air can be exposed to.

Moisture absorption increased by approx. 10%!

Thickness of the partition sheet **40 μm**





Moisture exchange efficiency is greatly improved by using optimised thinner films and moisture-absorption materials in the element. Furthermore, miscellaneous gas barrier properties are maintained by decreasing the porosity in the moisture-absorption materials.

\+

Auto-ventilation Mode Changeover Switching — 6%

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

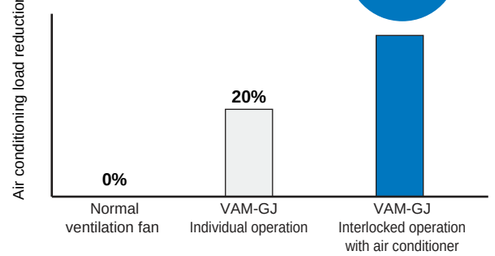
\+

Pre-cool, Pre-heat Control — 2%

Reduces air conditioning load by not running the Heat Reclaim Ventilator while air is still clean soon after the air conditioner is turned ON.

=

Air Conditioning Load Reduced by Approximately 31%



• The air conditioning load reduction values may vary according to weather and other environmental conditions at the location of the machine's installation.

• The air conditioning load reduction values are based on the following conditions;
Application: Tokyo office building
Building form: 2 floors above ground, 6 floors underground, floor area 2,100 m²
Personnel density: 0.25 person/m²
Ventilation volume: 25 m³/h
Indoor air conditioning level: summer 25°C 50% RH, intermediate seasons 24°C 50% RH, winter 22°C 40% RH
Operating time: 2745 hours (9 hours per day, approx. 25 days per month)
Calculation method: simulation based on "MICRO-HASP/1982" of the Japan Building Mechanical and Electrical Engineers Association.

Nighttime free cooling operation*1

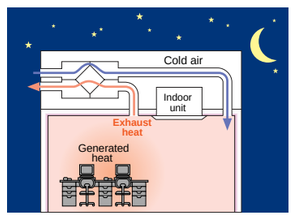
Air conditioning sensible heat load reduced by approx. 5%*2!

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

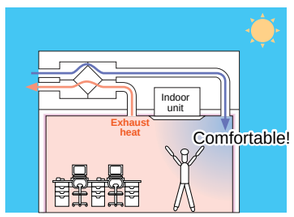
- Nighttime free cooling operation only works to cool and if connected to Building Multi or VRV systems.
- Nighttime free cooling operation is set to "off" in the factory settings, so if you wish to use it, request your dealer to turn it on.

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

The indoor accumulated heat is discharged at night.
This reduces the air conditioning load the next day thereby increasing efficiency.



Heat is discharged.



The load is small so the temperature is rapidly reduced to a comfortable level.

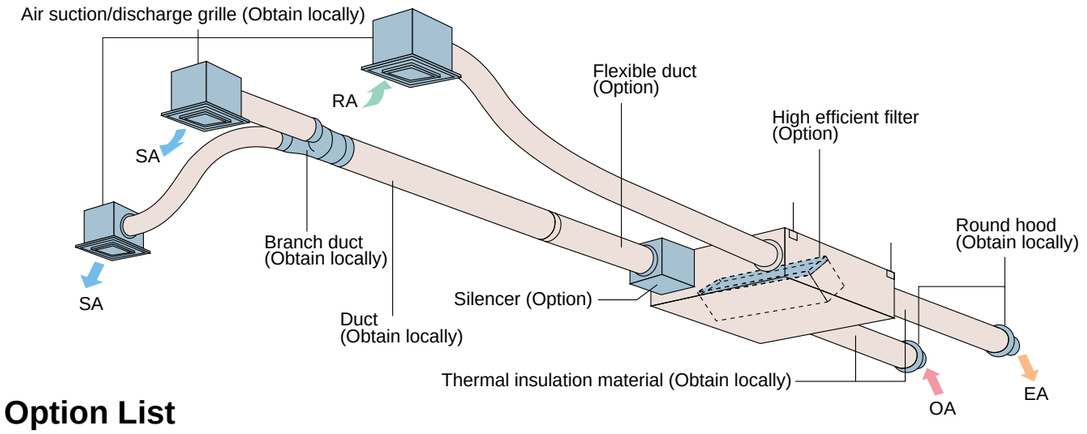
*Interlocked operation with an air conditioner

SPECIFICATIONS

MODEL				VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Power Supply				1-phase, 220-240 V/ 220 V, 50 Hz/ 60 Hz								
Temp. Exchange Efficiency (50 Hz/60 Hz)		Ultra-High	%	79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77
		High	%	79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77
		Low	%	84/85	79/79	82/82	80/80.5	77/77.5	74/74.5	80.5/81	75.5/76	79/81
Enthalpy Exchange Efficiency (50 Hz/60 Hz)	For Heating	Ultra-High	%	72/72	71/71	70/70	67/67	67.5/67.5	65/65	70/70	65/65	72/72
		High	%	72/72	71/71	70/70	67/67	67.5/67.5	65/65	70/70	65/65	72/72
		Low	%	76/76.5	74/74	77/77	74/74.5	71.5/72	67.5/68	72.5/73	67/67.5	75/76
	For Cooling	Ultra-High	%	66/66	63/63	66/66	55/55	61/61	61/61	64/64	61/61	62/62
		High	%	66/66	63/63	66/66	55/55	61/61	61/61	64/64	61/61	62/62
		Low	%	70/70.5	66/66	70/70	59/59.5	64/64.5	64/64.5	68.5/69	64/64.5	66/67
Power Consumption (50 Hz/60 Hz)	Heat Exchange Mode	Ultra-High	W	125/134	137/141	200/226	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542
		High	W	111/117	120/125	182/211	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315
		Low	W	57/58	60/59	122/120	128/136	196/207	435/483	476/512	835/927	966/1,039
	Bypass Mode	Ultra-High	W	125/134	137/141	200/226	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542
		High	W	111/117	120/125	182/211	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315
		Low	W	57/58	60/59	122/120	128/136	196/207	435/483	476/512	835/927	966/1,039
Sound Level (50 Hz/60 Hz)	Heat Exchange Mode	Ultra-High	dB(A)	27-28.5/28.5	27-29/29	31.5-33/33	33-35.5/34	34-36/36	39-40.5/39.5	39.5-41.5/39.5	39.5-41.5/41.5	41.5-43.5/42
		High	dB(A)	26-27.5/27.5	26-27.5/28	30-31.5/30	31.5-34/32	33-34.5/34	37-39.5/37.5	37.5-39.5/37.5	37.5-39.5/39.5	39-43/40
		Low	dB(A)	20.5-21.5/21	21-22/21	23-25/23	25-28.5/24	27.5-29.5/28	35-37.5/34	35-37.5/34.5	35-37.5/36	36-39/39
	Bypass Mode	Ultra-High	dB(A)	28.5-29.5/29.5	28.5-30.5/30.5	33-34.5/34.5	34.5-36/35.5	35-37.5/37.5	40.5-42/41	40.5-42.5/40.5	41-43/42.5	43-45.5/44
		High	dB(A)	27.5-28.5/28.5	27.5-29/29.5	31.5-33/31.5	33-34.5/33.5	33-35.5/35.5	38.5-40/39	38.5-40.5/38.5	39.5-41/41.5	40.5-45/42
		Low	dB(A)	22.5-23.5/22	22.5-23/22.5	24.5-26.5/24.5	25.5-28.5/25.5	27.5-30.5/29.5	36-38.5/35.5	36-38.5/35.5	36.5-38/37.5	37.5-39.5/41
Casing				Galvanised steel plate								
Insulation Material				Self-extinguishable polyurethane foam								
Dimensions (HXWXD)			mm	278×810×551		306×879×800		338×973×832	387×1,111×832	387×1,111×1,214	785×1,619×832	785×1,619×1,214
Machine Weigh			kg	24		32		45	55	67	129	157
Heat Exchange System				Air to air cross flow total heat (Sensible heat + latent heat) exchange								
Heat Exchange Element Material				Specially processed nonflammable paper								
Air Filter				Multidirectional fibrous fleeces								
Fan	Type			Sirocco fan								
	Airflow Rate (50 Hz/60 Hz)	Ultra-High	m^3/h	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000
		High	m^3/h	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000
		Low	m^3/h	100/95	155/155	230/230	320/295	500/470	700/670	860/840	1,320/1,260	1,720/1,580
	External Static Pressure (50 Hz/60 Hz)	Ultra-High	Pa	120/154	70/96	169/222	105/150	85/125	133/170	168/192	112/150	116/140
		High	Pa	106/131	54/65	141/145	66/52	53/67	92/85	110/86	73/72	58/32
		Low	Pa	56/60	24/20	67/30	32/18	35/38	72/61	85/60	56/50	45/45
	Motor Output		kW	0.030×2		0.090×2		0.140×2	0.280×2		0.280×4	
Connection Duct Diameter			mm	ϕ100	ϕ150		ϕ200		ϕ250		ϕ350	
Unit Ambient Condition				-15°C–50°CDB, 80%RH or less								

Notes:
1. Sound level is measured at 1.5 m below the centre of the body.
2. Airflow rate can be changed over to Low mode or High mode.
3. Sound level is measured in an anechoic chamber.
   Sound level generally becomes greater than this value depending on the operating conditions, reflected sound, and peripheral noise.
4. The sound level at the air discharge port is about 8 dB(A) higher than the unit's sound level.
5. The specifications, designs and information given here are subject to change without notice.
6. Temperature Exchange Efficiency is the mean value between cooling and heating.
7. Efficiency is measured under the following conditions:
   Ratio of rated external static pressure has been maintained as follows; outdoor side to indoor side = 7 to 1.
8. In conformance with JIS standards (JIS B 8628), operating sound level is based on the value when one unit is operated, with the value converted for an anechoic chamber. This is transmission sound from the main unit, and does not include sound from the discharge grille. Thus it is normal for the sound to be louder than the indicated value when the unit is actually installed.
9. Sound level from the discharge port causes the value to be approximately 8 dB(A) (models with the airflow rate of less than 150 to 500 m^3/h) to approximately 11 dB(A) (models with the airflow rate of 650 m^3/h or more) greater than the indicated value. Furthermore, fan rotation and noise from the discharge grille may increase depending on the on-site duct resistance conditions. Please consider noise countermeasures when installing the unit.
10. With large models in particular (1500 and 2000 m^3/h models), if the supply air (SA) grille is installed near the main unit, the noise of the main unit may be heard from the discharge grille via the duct, and this will result in a marked increase in noise. In such cases, if peripheral effects are included (such as reverberation of the floor and walls, combination with other equipment, and background noise), sound level may be as much as 15 dB(A) higher than the indicated value. When installing a large model, please provide as much separation as possible between the main unit and the discharge grille. If the equipment and discharge grille are near each other, please consider countermeasures such as the following:
    •Use a sound-muffling box, flexible duct and sound-muffling air supply/discharge grilles
    •Decentralised installation of discharge grilles
11. When installing in a location with particularly low background noise such as a classroom, please consider the following measures to avoid transmission sound from the main unit:
    •Use of ceiling materials with high sound insulating properties (high transmission loss)
    •Methods of blocking sound transmission, for example, by adding sound insulating materials around the bottom of the sound source.
    Alternatively, consider supplementary methods such as installing the equipment in a different location (corridor, etc.)

OPTIONS



Option List

Item \ Type			VAM150 · 250 · 350 · 500 · 650 · 800 · 1000 · 1500 · 2000GJVE
Controlling device	Heat Reclaim Ventilator remote controller		BRC301B61
	Centralised controlling device	Central remote controller	DCS302CA61
		Unified ON/OFF controller	DCS301BA61
		Schedule timer	DST301BA61
	PC Board Adaptor	Wiring adaptor for electrical appendices	KRP2A61
		For humidifier	KRP50-2
		Installation box for adaptor PCB	KRP50-2A90 (Mounted electric component assy of Heat Reclaim Ventilator)
		For heater control kit	BRP4A50

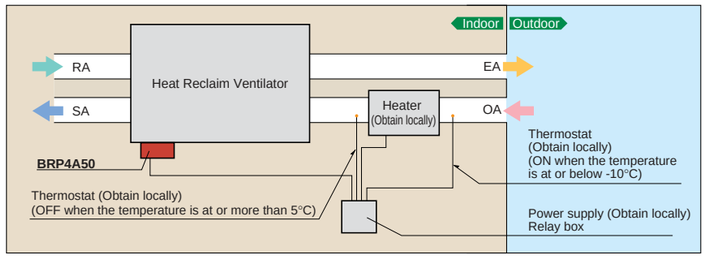
Item \ Type		FXFQ-P	FXZQ-M	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB	FXMQ-P	FXMQ-MA	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXUQ-MA
PC Board Adaptor	For wiring: Type (indoor unit of VRV)	KRP1C63★	KRP1BA57★	KRP1B61★	KRP1B61	KRP1B56★	KRP1C64★	KRP1B61	KRP1BA54	—	KRP1B61	—
	Installation box for adaptor PCB☆	Notes 2, 3 KRP1H98	Note 4, 6 KRP1BA101	Notes 2, 3 KRP1B96	—	Notes 4, 6 KRP1BA101	Notes 2, 3 KRP4A96	—	Note 3 KRP1CA93	Notes 2, 3 KRP4AA93	—	KRP1BA97

Note:
1. Installation box ☆ is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Installation box☆is necessary for second adaptor.
5. Installation box☆is necessary for each adaptor.
6. Up to 2 installation boxes can be installed for each indoor unit.

Item \ Type		VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Additional function	Silencer	—			KDDM24B50	KDDM24B100			KDDM24A100×2	
	Silencer: Nominal pipe diameter mm	—			ϕ200	ϕ250				
	High efficiency filter	KAF242H25M		KAF242H50M		KAF242H65M	KAF242H80M	KAF242H100M	KAF242H80MX2	KAF242H100MX2
	Air filter for replacement	KAF241G25M		KAF241G50M		KAF241G65M	KAF241G80M	KAF241G100M	KAF241G80MX2	KAF241G100MX2
Flexible duct (1m)		K-FDS101D	K-FDS151D		K-FDS201D		K-FDS251D			
Flexible duct (2m)		K-FDS102D	K-FDS152D		K-FDS202D		K-FDS252D			
Duct adaptor		—							YDFA25A1	
Duct adaptor: Nominal pipe diameter mm		—							ϕ250	

PC board adaptor for heater control kit (BRP4A50)

When the installation of an electric heater is required in a cold region, this adaptor with an internal timer function eliminates the complicated timer connecting work that was necessary with conventional heaters.



Notes when installing

- Examine fully an installation place and specification for using the electric heater based on the standard and regulation of each country.
- Supply the electric heater and safety production devices such as a relay and a thermostat, etc of which qualities satisfy the standard and regulation of each country at site.
- Use a non-inflammable connecting duct to the electric heater. Be sure to allow 2 m or more between the electric heater and Heat Reclaim Ventilator for safety.
- For the Heat Reclaim Ventilator units, use a different power supply from that of the electric heater and install a circuit breaker for each.

Memo