



Warning



- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

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

Cautions on product corrosion

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



PCVMT1551aprv

VRF IV S SERIES



For residential and commercial use

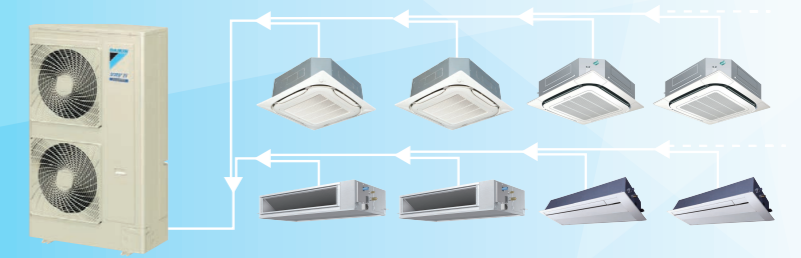
R-410A

Heat Pump 60 Hz

Enjoy Your Choice

First launched in Japan in 1982, the Daikin VRV system has been embraced by world markets for over 30 years. Now, Daikin proudly introduces the new VRV IV S series—the ideal air conditioning system for homes, shops and offices.

VRV IV S SERIES



* VRV is a trademark of Daikin Industries, Ltd.

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- Air Treatment Equipment Lineup P49

OFFICES



SHOPS



HOMES



Main Features

Wide range of choices

Outdoor units

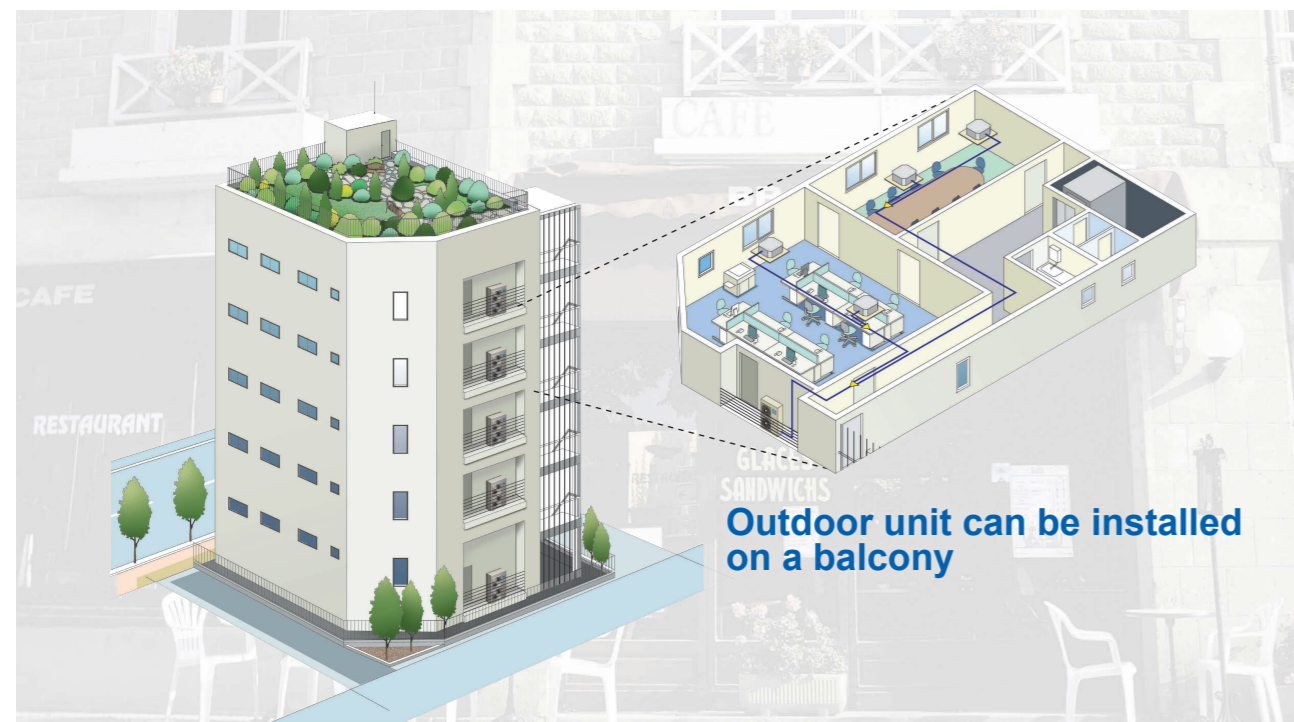
The new VRV IV S series offers 7 models to select from, providing the power that suits your needs.

New VRV IV S SERIES



Outdoor unit lineup

Model Name		RMXYQ3AVL	RMXYQ4AVL	RMXYQ5AVL	RMXYQ6AVL	RMXYQ8AYL	RMXYQ10AYL	RMXYQ12AYL
Power Supply		1 phase, 220V, 60Hz				3 phase, 380V, 60Hz		
Capacity Range	HP	3HP	4HP	5HP	6HP	8HP	10HP	12HP
	kW	8.0kW	11.2kW	14.0kW	15.5kW	22.4kW	28.0kW	33.5kW
Capacity Index		72	100	125	140	200	250	300



Indoor units

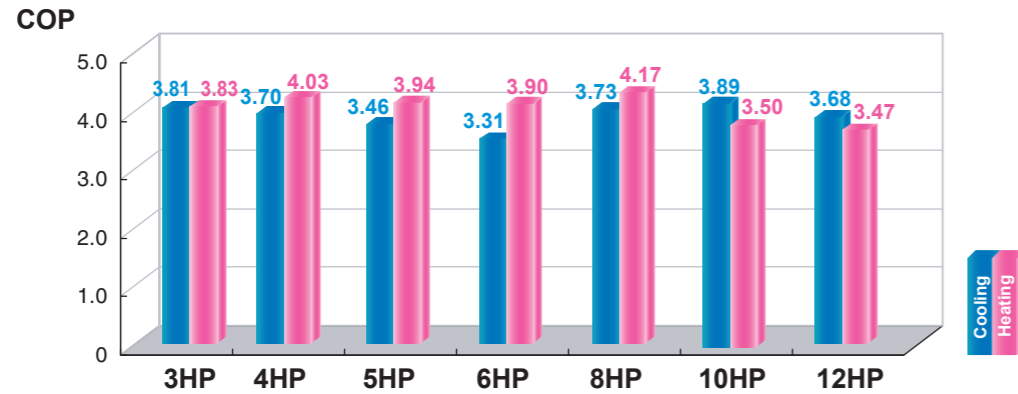
Indoor units can be selected from 14 types and 90 models to match rooms and preferences.

Type	Model Name	Capacity Range (HP)	Capacity Index	20	25	32	36	40	50	56	63	71	80	90	100	112	125	140	200	250
				0.8	1	1.25	1.5	1.6	2	2.3	2.5	3	3.2	3.6	4	4.5	5	6	8	10
				20	25	31.25	35.5	40	50	56	62.5	71	80	90	100	112	125	140	200	250
Ceiling Mounted Cassette (Round Flow with Sensing) New	FXFSQ-AVE			●	●			●	●			●	●	●	●	●	●			
Ceiling Mounted Cassette (Round Flow) New	FXFQ-AVE			●	●			●	●			●	●	●	●	●	●			
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE			●	●	●		●	●											
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE			●	●	●		●	●			●	●					●		
Ceiling Mounted Cassette (Single Flow) New	FXEQ-AVE			●	●	●		●	●			●								
Slim Ceiling Mounted Duct	FXDQ-PBVE (with drain pump)			●	●	●														
	FXDQ-PBVET (without drain pump) (700 mm width type)			●	●	●														
	FXDQ-NBVE (with drain pump)							●	●			●								
	FXDQ-NBVET (without drain pump) (900/1,100 mm width type)							●	●			●								
Ceiling Mounted Duct	New FXMQ-AVE			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	FXMQ-PVE																			●
	FXMQ-MAVE																			●
4-Way Flow Ceiling Suspended	FXUQ-AVEB											●		●						
Ceiling Suspended	FXHQ-MAVE				●							●		●						
Wall Mounted	FXAQ-PVE			●	●	●		●	●		●									
Floor Standing	FXLQ-MAVE			●	●	●		●	●		●									
Concealed Floor Standing	FXNQ-MAVE			●	●	●		●	●		●									

Main Features

High COPs

It has become essential for air conditioning manufacturers to develop systems that provide high energy savings. We at Daikin have made great efforts in this field, and the VRV IV S series delivers highly efficient performance, contributing to high energy savings.

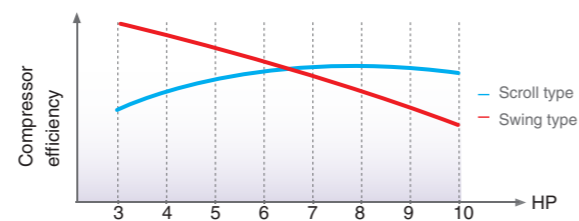


• Cooling operating conditions: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB.
 • Heating operating conditions: Indoor temp. of 20°CDB and outdoor temp. of 7°CDB, 6°CWB.

2 types of high efficiency compressors

Under different operating conditions and capacities, the scroll compressor and swing compressor differ in performance due to their structural difference. Depending on actual operating conditions, different compressors are adopted in Daikin air conditioning system, thus ensuring comfort and energy efficiency.

Comparison diagram between scroll compressor and swing compressor under 50% load



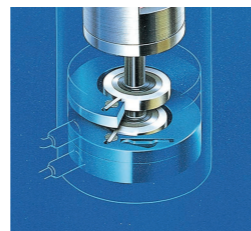
Note: The above is experimental values from our company.

DC inverter swing compressor*



Daikin swing compressor has integrated the rotor with the blade, completely solving the refrigerant leakage and the wear problem caused by the mechanical friction between the rotor and the blade, which enhances the compressor efficiency and makes the compressor more quiet and durable.

*Only available for 3-6 HP outdoor units



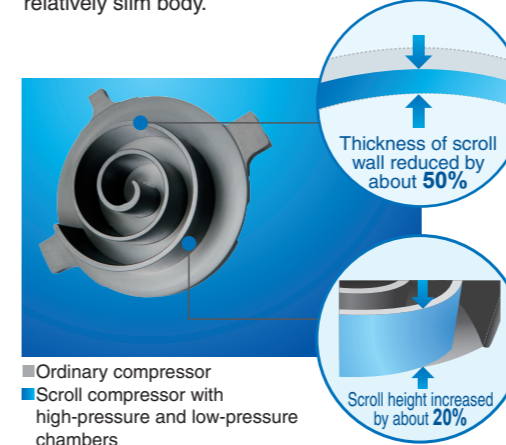
DC inverter scroll compressor*

High-efficiency DC inverter hermetic scroll compressor with high-pressure and low-pressure chambers can dramatically enhance compression efficiency by making full use of the compression chamber area in compressor.

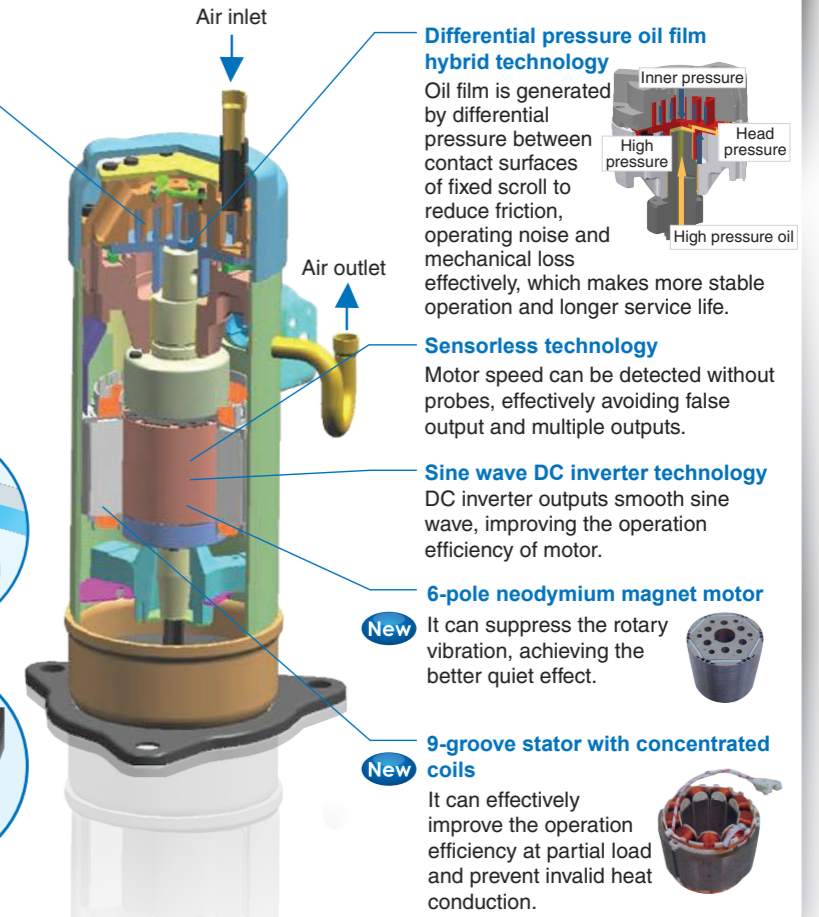
New Superior metal scroll

Daikin has developed the superior metal scroll, whose pressure resistance is enhanced to 2.4 times of that of previous one, with the same processing technology used to the V-type engine in F1 racing car.

The chamber volume is increased to 1.5 times of that of previous one through increasing scroll height by about 20% and effectively reducing the thickness of scroll wall, which can significantly enhance the compression amount of refrigerant and form an improved compressor structure with large capacity in a relatively slim body.



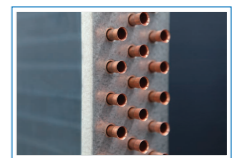
*Only available for 8, 10 HP outdoor units



3-row heat exchanger*

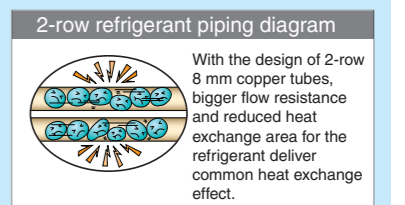
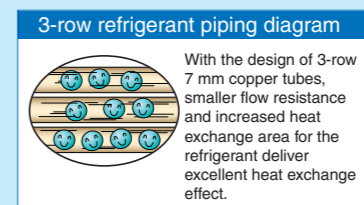
Heat exchanger with 3-row fin structure* enhances the heat exchange efficiency. Daikin adopts the new high-efficiency heat exchanger with 3-row fin structure whose contact area with the air is significantly increased, contributing to the improvement of system heat exchange efficiency.

*Only available for 8, 12 HP outdoor units



Small diameter copper tube

Daikin has adopted multi-row copper tubes with small diameter (7 mm) in the new refrigerant piping, and the optimal design increases the effective heat exchange area, significantly enhancing the heat exchange efficiency and reducing the refrigerant charge for the system.



Main Features

Design flexibility

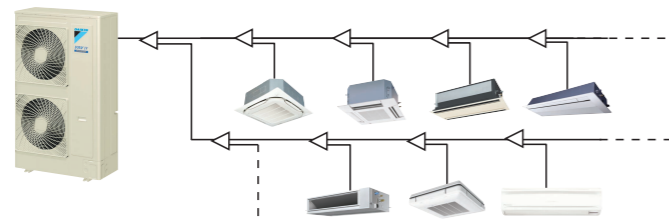
VRV IV S series offers broad design flexibility with long refrigerant piping lengths and multiple indoor unit combinations, which provides generous freedom for home, office and shop design both inside and out.

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

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

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

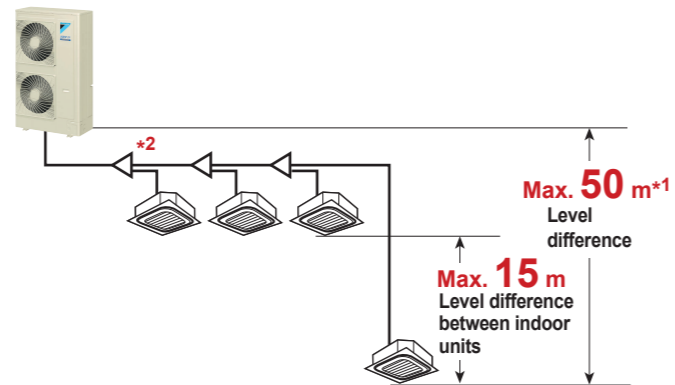
Max. **19** indoor units



*Refer to page 30 for the maximum number of connectable indoor unit.

Long piping design possible

The VRV IV S series provides the long piping length possibility of 120 m, with a total piping length of 300 m. If the outdoor unit is installed above indoor units the level difference can be up to a maximum of 50 m. These generous allowances facilitate an extensive variety of system designs.



Actual piping length
Max. **120 m**

Total piping length
Max. **300 m**

Notes: *1. 40 m when the outdoor unit is installed below indoor units.
*2. Maximum piping length between the indoor unit and the first branch is 40 m.
*3. Please refer to page 30 for the piping length of each outdoor unit.

With the long refrigerant piping configuration, the installation location of the outdoor units can be selected properly according to the actual needs of the construction.

Placed on the balcony



Placed on the roof

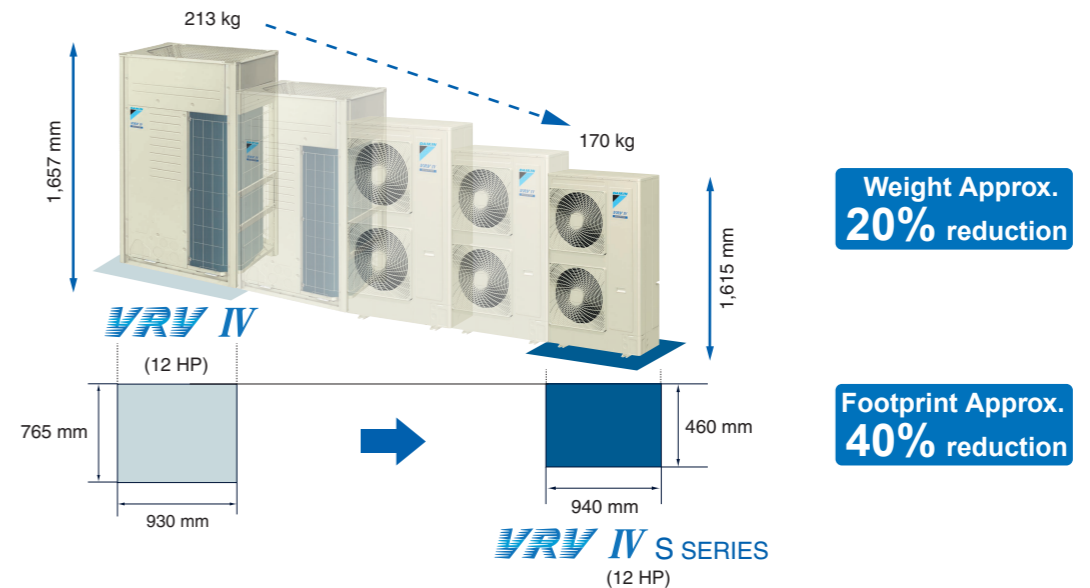


Easy installation

A variety of functions are provided that make installation easier.

Compact and lightweight

The VRV IV S series is slimmer and more compact, resulting in significant savings in installation space.



Weight Approx. **20%** reduction

Footprint Approx. **40%** reduction

Automatic test operation

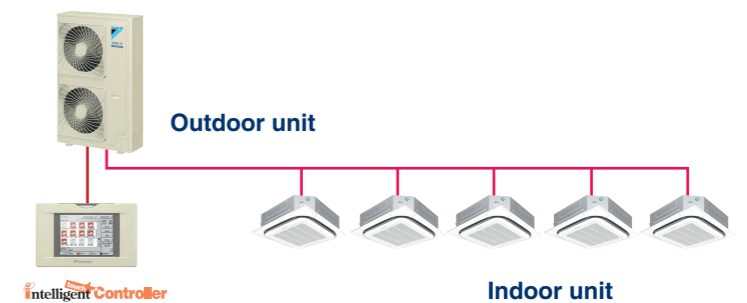
Simply press the test operation button and the unit performs an automatic system check, including wiring, stop valves, piping, and refrigerant charging amount. The results are returned automatically after the check finishes.

Simple wiring and piping connection

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

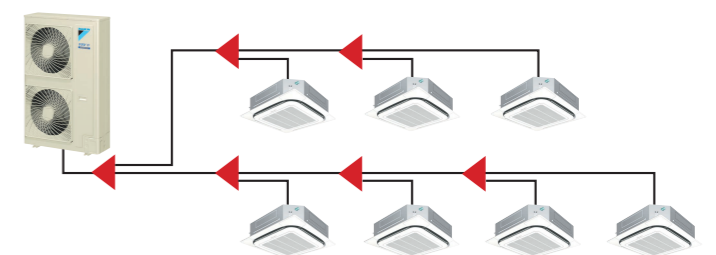
>> Super wiring system

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



>> REFNET piping system

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



Indoor Unit Lineup



Daikin offers a wide range of indoor units includes 14 types responding to variety of needs of our customers that require air-conditioning solutions.

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

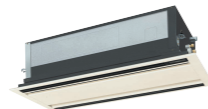
New



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



Ceiling Mounted Cassette (Double Flow) Type FXCQ-MVE



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



Ceiling Mounted Cassette (Round Flow) Type FXFQ-AVE

New



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



Ceiling Mounted Cassette (Single Flow) Type FXEQ-AVE

New



Slim design for flexible installation



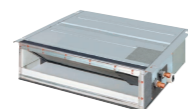
Ceiling Mounted Cassette (Compact Multi Flow) Type FXZQ-MVE



Quiet, compact, and designed for user comfort



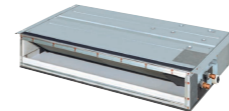
Slim Ceiling Mounted Duct Type (700mm width type) FXDQ-PBVE (with drain pump) FXDQ-PBVET (without drain pump)



Slim design, quietness and static pressure switching



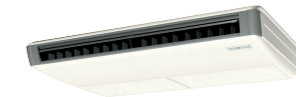
Slim Ceiling Mounted Duct Type (900/1,100 width type) FXDQ-NBVE (with drain pump) FXDQ-NBVET (without drain pump)



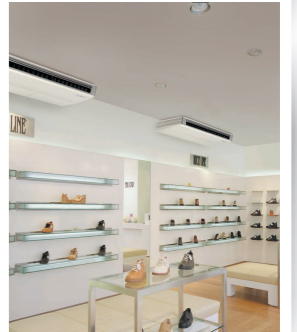
Slim design, quietness and static pressure switching



Ceiling Suspended Type FXHQ-MAVE



Slim body with quiet and wide airflow



Ceiling Mounted Duct Type FXMQ-AVE FXMQ-PVE

New



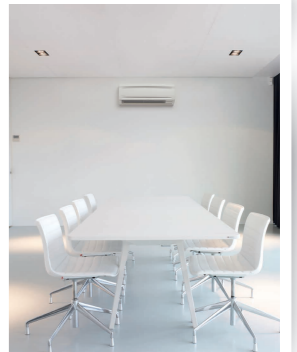
High external static pressure allows flexible installations



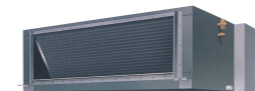
Wall Mounted Type FXAQ-PVE



Stylish flat panel design harmonised with your interior décor



Ceiling Mounted Duct Type FXMQ-MAVE



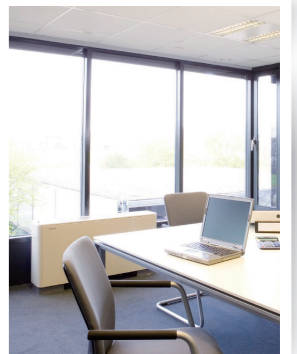
High external static pressure allows flexible installations



Floor Standing Type FXLQ-MAVE



Suitable for perimeter zone air conditioning



4-Way Flow Ceiling Suspended Type FXUQ-AVEB



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



Concealed Floor Standing Type FXNQ-MAVE



Designed to be concealed in the perimeter skirting-wall



Indoor Unit Lineup

Ceiling Mounted Cassette (Round Flow with Sensing) Type

New
 FXFSQ25A/FXFSQ32A/FXFSQ40A
 FXFSQ50A/FXFSQ63A/FXFSQ71A
 FXFSQ80A/FXFSQ90A/FXFSQ100A
 FXFSQ112A/FXFSQ125A

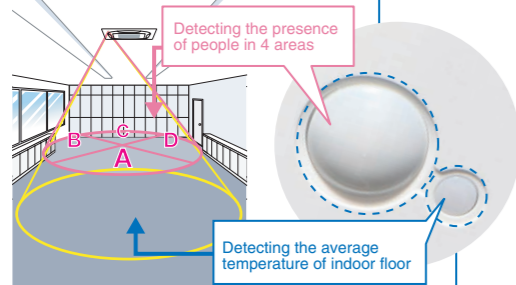


Presence of people and floor temperature can be detected to provide comfort and energy savings

- Dual sensors detect the presence of people and floor temperature to provide comfortable air-conditioning and energy savings.

Infrared presence sensor

The sensor detects the human location and automatically adjusts the airflow direction to prevent direct drafts.



Infrared floor sensor

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



- DC motor is adopted both in the fan and drain pump of the indoor unit, not only enhancing the energy saving performance, but also reducing the operating sound and the vibration incurred to the unit.

- The slim body makes the height of suspended ceiling decreased.

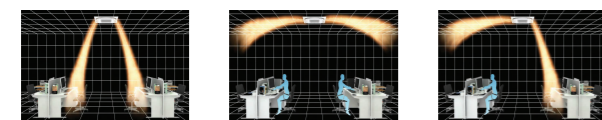
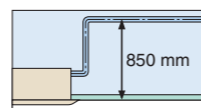
FXFSQ-A	25/32/40	50/63/71/80/90/100/112/125
Body height	204mm	288mm

- Low operation sound level (dB(A))

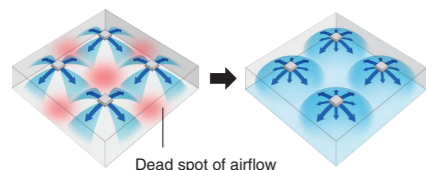
FXFSQ-A	25/32	40	50/63/71/80/90/100/112/125
Sound level (H/M/L)	30/28/25	32/29/25	44/39/34

- The airflow rate can be controlled from 3-step control. Auto airflow rate control can be selected with wired remote controller BRC1E62.

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



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



Ceiling Mounted Cassette (Round Flow) Type

New
 FXFQ25A/FXFQ32A/FXFQ40A
 FXFQ50A/FXFQ63A/FXFQ71A
 FXFQ80A/FXFQ90A/FXFQ100A
 FXFQ112A/FXFQ125A

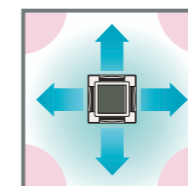


360° airflow improves temperature distribution and offers a comfortable living environment.

- The Round Flow Ceiling Mounted Cassette type indoor unit creates a comfortable air conditioning environment with its 360° airflow.

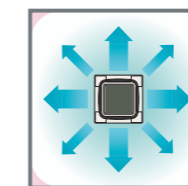


4-way flow



There are areas of uneven temperature.

Round Flow



There are much fewer areas of uneven temperature.

- The slim body makes the height of suspended ceiling decreased.

FXFQ-A	25/32/40/50/63	71/80/90/100	112/125
Body height	204mm	246mm	288mm

- Low operation sound level (dB(A))

FXFQ-A	25/32	40	50	63	71/80	90/100	112/125
Sound level (H/M/L)	30/28/25	32/29/25	33/30/27	34/31/28	38/34/29	41/37/33	44/39/34

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



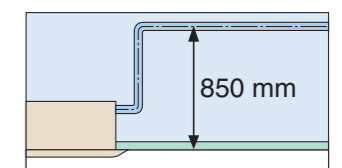
- Energy-saving operation

- DC fan motor is used to realize energy-saving operation.
- The high-efficiency heat exchanger is used to improve heat exchange efficiency.
- The dead spot* of airflow is eliminated.

* With dead spots eliminated, the comfort level in the whole space is still achieved by properly increasing the set temperature (e.g. in cooling mode), thus effectively reducing energy consumption.

- 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.

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



Indoor Unit Lineup

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.

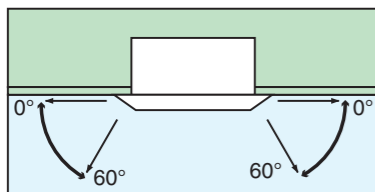
- Low operation sound level

FXZQ-M	20/25	32	40	50	(dB(A))
Sound level (H/L)	32/29	33/29	36/30	41/34	

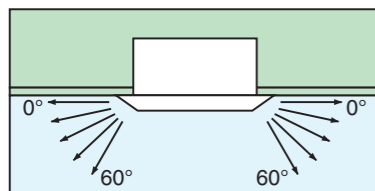
- Comfortable airflow

- 1 Wide discharge angle: 0° to 60°

- Auto swing

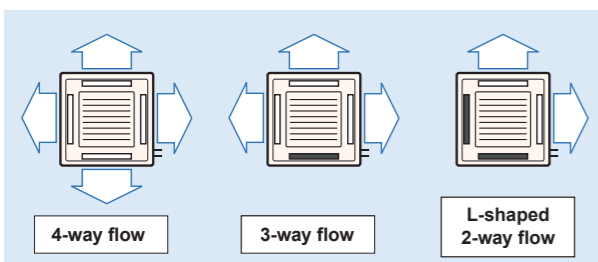


- Fixed angles: 5 levels



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

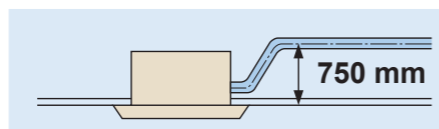
- 2 2-, 3-, and 4-way airflow patterns are available, enabling installation in the corner of a room.



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



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



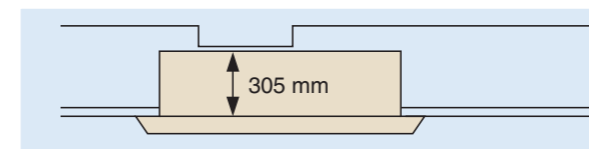
Ceiling Mounted Cassette (Double Flow) Type

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



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

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



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

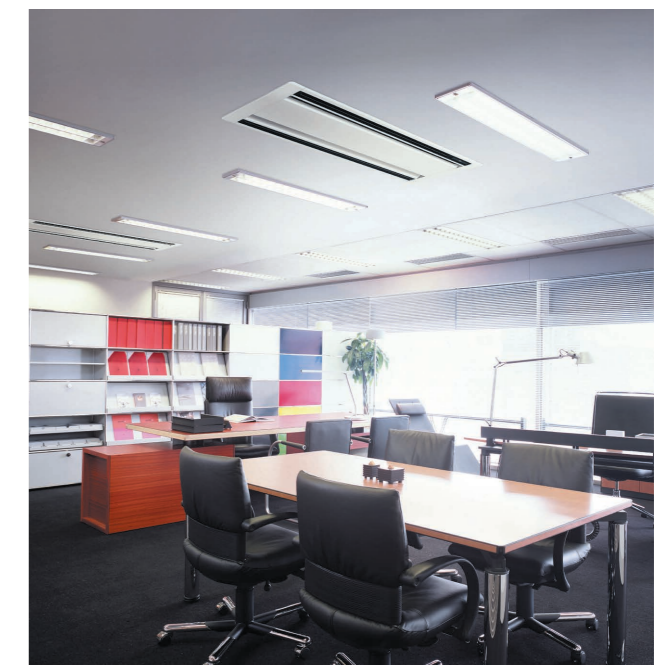
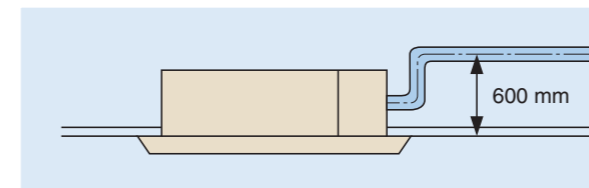
- Low operation sound level

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

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

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

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



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

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

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

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

Indoor Unit Lineup

Ceiling Mounted Cassette (Single Flow) Type

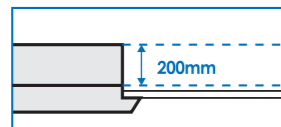
New

FXEQ20A/FXEQ25A/FXEQ32A
FXEQ40A/FXEQ50A/FXEQ63A

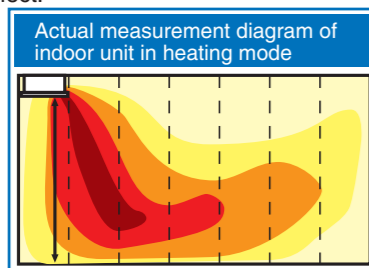


Slim design for flexible installation

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

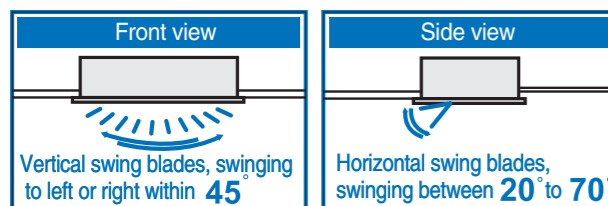


- The unique air discharge mode brings airflow all the way to the floor during heating operation, thus making the better heating effect.



Note: The actual values measured by our company.

- The swinging of horizontal and vertical swing blades can be adjusted freely with the remote controller BRC1F61, providing 3D airflow to every corner of the room.



- DC motor is adopted both in the fan and drain pump of the indoor unit, not only enhancing the energy saving performance, but also reducing the operating sound and the vibration incurred to the unit.

- Control of airflow rate can be selected from 5-step control with the remote controller BRC1F61, which provides comfortable airflow.

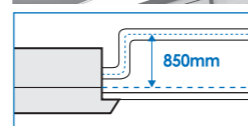
- While creating a cozy indoor environment, the unit can prevent the suspended ceiling from being soiled by adjusting its louvre angle.



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

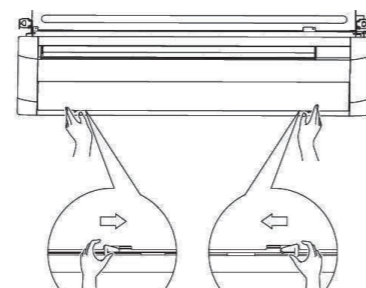


- Drain pump is equipped as standard accessory with 850 mm lift.



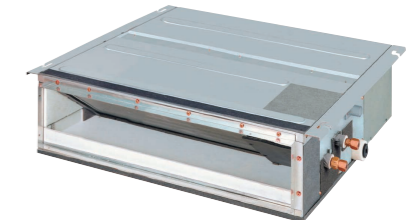
- The mould proof operation function can effectively suppress the propagation of mould in the heat exchanger of the indoor unit even in coast areas with high humidity.

- No service port is required during installation, and servicing of common parts such as the control box etc. can be performed easily only with the suction panel removed.



Slim Ceiling Mounted Duct Type

Slim design, quietness and static pressure switching

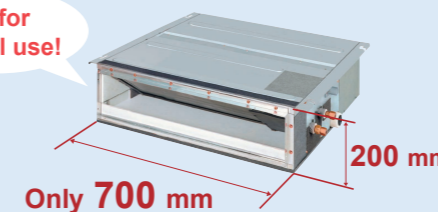


Suited to use in drop-ceilings!

FXDQ20PB/FXDQ25PB/FXDQ32PB

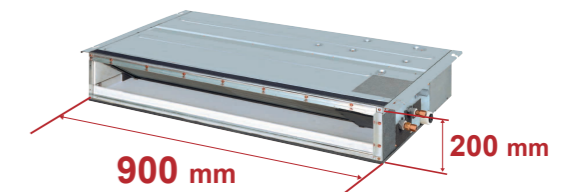
- Only 700 mm in width and 23 kg in weight, this model is suitable to install in limited spaces like drop-ceilings in hotels.

Great for hotel use!

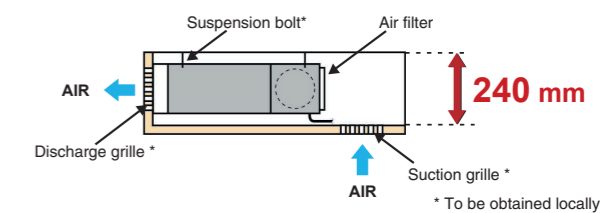


FXDQ40NB/FXDQ50NB/FXDQ63NB

- 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.

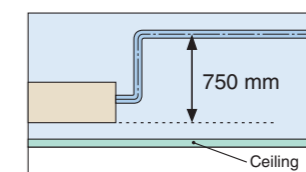


- External static pressure selectable by remote controller switching make this indoor unit a very comfortable and flexible model.

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



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

● Low operation sound level (dB(A))

	20/25	32	40	50	63
Sound level (HH/H/L)	28/26/23	28/26/24	30/28/26	33/30/27	33/31/29

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

Indoor Unit Lineup

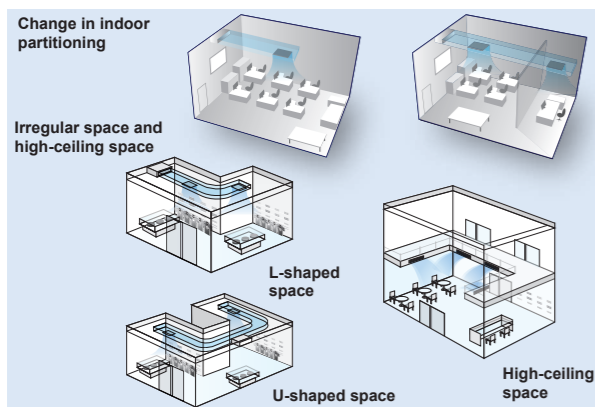
Ceiling Mounted Duct Type

- New FXMQ20A/FXMQ25A/FXMQ32A
- New FXMQ36A/FXMQ40A/FXMQ50A
- New FXMQ56A/FXMQ63A/FXMQ80A
- New FXMQ100A/FXMQ125A
FXMQ140P



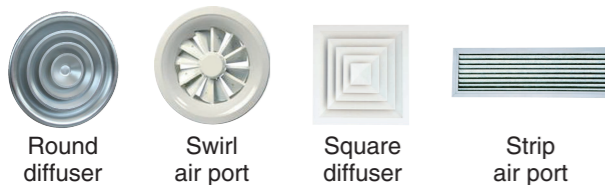
High external static pressure allows flexible installations

- The external static pressure is up to 200 Pa, corresponding flexibly to various indoor space.



- Up to 14 levels of external static pressure can be set and adjusted directly with the remote controller, thus making the unit cope with different static pressure requirements with ease.
- A selection of air ports can be utilized to harmony with different decoration styles.

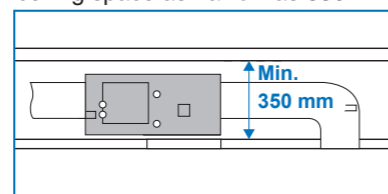
Examples



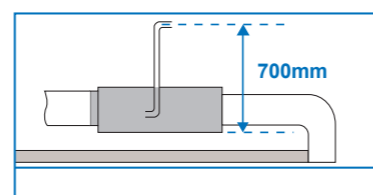
Note: The above air ports need to be purchased on site.

- The energy consumption of the indoor unit is significantly decreased by adaption of DC fan motor, with the efficiency enhanced significantly especially during low speed operation.

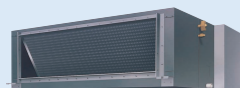
- Only 300mm in height, the thin unit can be installed in a ceiling space as narrow as 350mm.



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

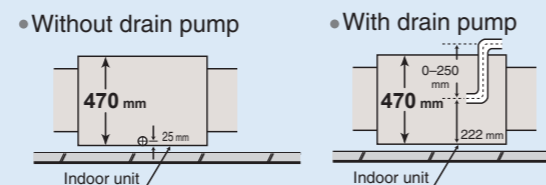


FXMQ200MA/FXMQ250MA



- 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.



4-Way Flow Ceiling Suspended Type

FXUQ71A / FXUQ100A



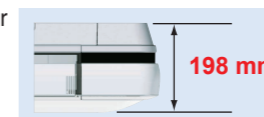
This slim and stylish indoor unit achieves optimum air distribution, and can be installed without the need for ceiling cavity.

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



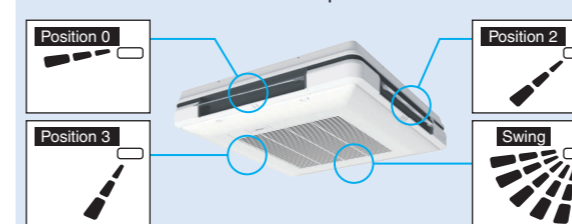
- Flaps close automatically when the unit stops, which gives a simple appearance.

- Unified slim height of 198 mm for all models that gives the unified impression even when models with different capacities are installed in the same area.



- With adoption of the individual flap control, airflow direction adjustment can be individually set for each air outlet. 5 directions of airflow and auto-swing can be selected with wired remote controller BRC1E62, which realises the optimum air distribution.

Individual airflow direction example case



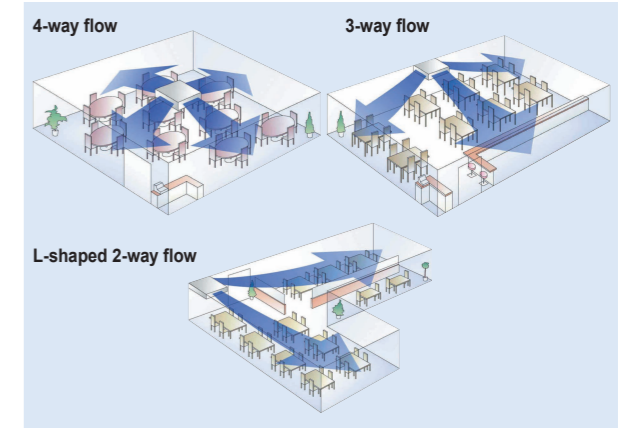
- The airflow rate can be controlled from 3-step control. Auto airflow rate control can be selected with wired remote controller BRC1E62.



- Energy efficiency has been improved thanks to the adoption of a new heat exchanger with smaller tubes, DC fan motor and DC drain pump motor.

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

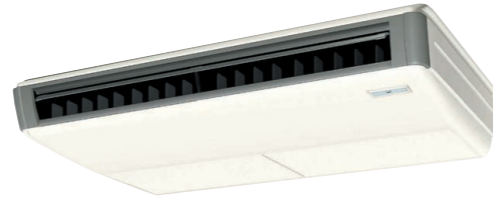
- Depending on installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.



Indoor Unit Lineup

Ceiling Suspended Type

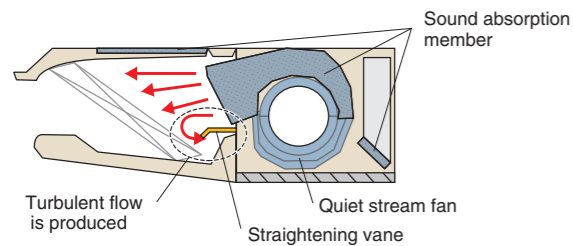
FXHQ32MA/FXHQ63MA
FXHQ100MA



Slim body with quiet and wide airflow

●Adoption of QUIET STREAM FAN

Uses the quiet stream fan and many more advanced technologies.

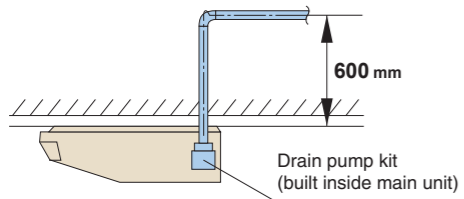


●Low operation sound level

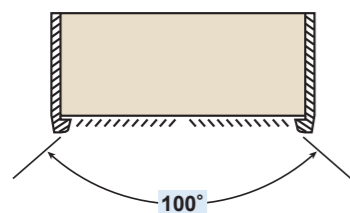
	(dB(A))		
FXHQ-MA	32	63	100
Sound level (H/L)	36/31	39/34	45/37

●Installation is easy

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

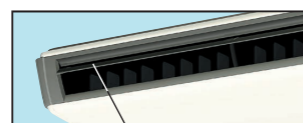


●Wide air discharge openings produce a spreading 100° airflow.



●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/m³

Wall Mounted Type

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.

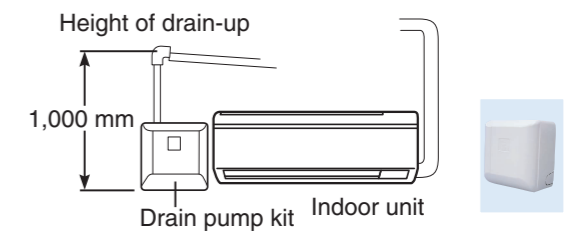
- Discharge angle is automatically set at the same angle as the previous operation when restarting. (Initial setting: 10° for cooling and 70° for heating)

●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.



Indoor Unit Lineup

Specifications

Floor Standing Type

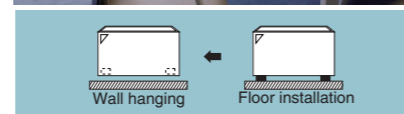
FXLQ20MA / FXLQ25MA
FXLQ32MA / FXLQ40MA
FXLQ50MA / FXLQ63MA



Suitable for perimeter zone air conditioning

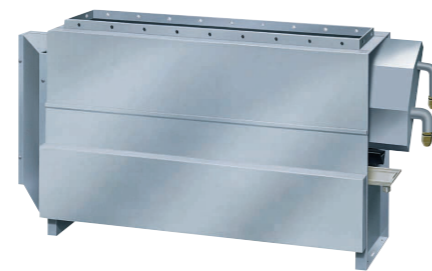
- Floor Standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.
- The adoption of a fibre-less discharge grille featuring an original design to prevent 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/m³



Concealed Floor Standing Type

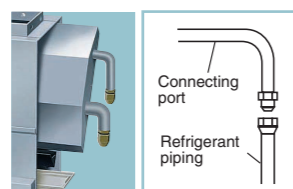
FXNQ20MA / FXNQ25MA
FXNQ32MA / FXNQ40MA
FXNQ50MA / FXNQ63MA



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.

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



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



Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type



MODEL		FXFSQ25AVE	FXFSQ32AVE	FXFSQ40AVE	FXFSQ50AVE	FXFSQ63AVE	FXFSQ71AVE
Power supply		1-phase, 60 Hz, 220 V					
Cooling capacity	kcal/h	2,400	3,100	3,900	4,800	6,100	6,900
	Btu/h	9,600	12,300	15,400	19,100	24,200	27,300
	kW	2.8	3.6	4.5	5.6	7.1	8.0
Heating capacity	kcal/h	2,800	3,400	4,300	5,400	6,900	7,700
	Btu/h	10,900	13,600	17,100	21,500	27,300	30,700
	kW	3.2	4.0	5.0	6.3	8.0	9.0
Power consumption	Cooling	0.049		0.059	0.214		
	Heating	0.045		0.055	0.210		
Casing		Galvanised steel plate					
Airflow rate (H/M/L)	m ³ /min	12.5/10.8/9.0		13.5/11.4/9.0	30/25/20		
	cfm	441/381/318		476/402/318	1,059/883/706		
Sound level (H/M/L)	dB(A)	30/28/25		32/29/25	44/39/34		
Dimensions (HxWxD)	mm	204x840x840			288x840x840		
Machine weight	kg	20				26	
Piping connections	Liquid (Flare)	φ6.4				φ9.5	
	Gas (Flare)	φ12.7				φ15.9	
	Drain	VP25 (External Dia, 32/Internal Dia, 25)					
Panel (Option)	Model	BYCSP125BW1					
	Colour	Fresh white					
	Dimensions(HxWxD)	mm		50x950x950			
	Weight	kg		5.5			

MODEL		FXFSQ80AVE	FXFSQ90AVE	FXFSQ100AVE	FXFSQ112AVE	FXFSQ125AVE
Power supply		1-phase, 60 Hz, 220 V				
Cooling capacity	kcal/h	7,700	8,600	9,600	10,800	12,000
	Btu/h	30,700	34,100	38,200	42,700	47,800
	kW	9.0	10.0	11.2	12.5	14.0
Heating capacity	kcal/h	9,000	9,600	10,800	12,000	13,800
	Btu/h	34,100	38,200	42,700	47,800	54,600
	kW	10.0	11.2	12.5	14.0	16.0
Power consumption	Cooling	0.214				
	Heating	0.210				
Casing		Galvanised steel plate				
Airflow rate (H/M/L)	m ³ /min	30/25/20				
	cfm	1,059/883/706				
Sound level (H/M/L)	dB(A)	44/39/34				
Dimensions (HxWxD)	mm	288x840x840				
Machine weight	kg	26				
Piping connections	Liquid (Flare)	φ9.5				
	Gas (Flare)	φ15.9				
	Drain	VP25 (External Dia, 32/Internal Dia, 25)				
Panel (Option)	Model	BYCSP125BW1				
	Colour	Fresh white				
	Dimensions(HxWxD)	mm		50x950x950		
	Weight	kg		5.5		

Note: Specifications are based on the following conditions:
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 • Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, 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

Indoor Units

Ceiling Mounted Cassette (Round Flow) Type



MODEL		FXFQ25AVE	FXFQ32AVE	FXFQ40AVE	FXFQ50AVE	FXFQ63AVE	FXFQ71AVE
Power supply		1-phase, 60 Hz, 220 V					
Cooling capacity	kcal/h	2,400	3,100	3,900	4,800	6,100	6,900
	Btu/h	9,600	12,300	15,400	19,100	24,200	27,300
	kW	2.8	3.6	4.5	5.6	7.1	8.0
Heating capacity	kcal/h	2,800	3,400	4,300	5,400	6,900	7,700
	Btu/h	10,900	13,600	17,100	21,500	27,300	30,700
	kW	3.2	4.0	5.0	6.3	8.0	9.0
Power consumption	Cooling	0.053		0.063	0.074	0.086	0.111
	Heating	0.045		0.055	0.069	0.080	0.100
Casing		Galvanised steel plate					
Airflow rate (H/M/L)	m ³ /min	12.5/10.8/9.0		13.5/11.3/9.0	15.4/12.8/10.2	16.1/13.6/11	23.1/18.8/14.5
	cfm	441/381/318		477/399/318	544/452/360	568/480/388	815/664/512
Sound level (H/M/L)	dB(A)	30/28/25		32/29/25	33/30/27	34/31/28	38/34/29
Dimensions (HxWxD)	mm	204x840x840					246x840x840
Machine weight	kg	20		21		24	
Piping connections	Liquid (Flare)	φ6.4			φ9.5		
	Gas (Flare)	φ12.7			φ15.9		
	Drain	VP25 (External Dia, 32/Internal Dia, 25)					
Panel (Option)	Model	BYCP125K-W1					
	Colour	Fresh white					
	Dimensions(HxWxD)	50x950x950					
	Weight	5.5					

MODEL		FXFQ80AVE	FXFQ90AVE	FXFQ100AVE	FXFQ112AVE	FXFQ125AVE
Power supply		1-phase, 60 Hz, 220 V				
Cooling capacity	kcal/h	7,700	8,600	9,600	10,800	12,000
	Btu/h	30,700	34,100	38,200	42,700	47,800
	kW	9.0	10.0	11.2	12.5	14.0
Heating capacity	kcal/h	9,000	9,600	10,800	12,000	13,800
	Btu/h	34,100	38,200	42,700	47,800	54,600
	kW	10.0	11.2	12.5	14.0	16.0
Power consumption	Cooling	0.111		0.156		0.220
	Heating	0.100		0.142		0.210
Casing		Galvanised steel plate				
Airflow rate (H/M/L)	m ³ /min	23.1/18.8/14.5	25.4/21.1/16.8			30/25/20
	cfm	815/664/512	897/745/593			1,059/883/706
Sound level (H/M/L)	dB(A)	38/34/29	41/37/33			44/39/34
Dimensions (HxWxD)	mm	246x840x840				288x840x840
Machine weight	kg	24			26	
Piping connections	Liquid (Flare)	φ9.5				
	Gas (Flare)	φ15.9				
	Drain	VP25 (External Dia, 32/Internal Dia, 25)				
Panel (Option)	Model	BYCP125K-W1				
	Colour	Fresh white				
	Dimensions(HxWxD)	50x950x950				
	Weight	5.5				

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, 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 (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	1,900	2,400	3,100	3,900	4,800
	Btu/h	7,500	9,600	12,300	15,400	19,100
	kW	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	Cooling	0.075		0.080	0.095	0.128
	Heating	0.069		0.073	0.088	0.122
Casing		Galvanised steel plate				
Airflow rate (H/L)	m ³ /min	9/7		9.5/7.5	11/8	14/10
	cfm	318/247		335/265	388/282	493/353
Sound level (H/L)	dB(A)	32/29		33/29	36/30	41/34
Dimensions (HxWxD)	mm	286x575x575				
Machine weight	kg	18				
Piping connections	Liquid (Flare)	φ6.4				
	Gas (Flare)	φ12.7				
	Drain	VP20 (External Dia, 26/Internal Dia, 20)				
Panel (Option)	Model	BYFQ60B3W1				
	Colour	White (6.5Y9.5/0.5)				
	Dimensions(HxWxD)	55x700x700				
	Weight	2.7				

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	1,900	2,400	3,100	3,900	4,800	6,100	7,700	12,000	
	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	47,800	
	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0	
Heating capacity	kcal/h	2,200	2,800	3,400	4,300	5,400	6,900	9,000	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	Cooling	0.081		0.095		0.132		0.157	0.216	
	Heating	0.048		0.062		0.099		0.124	0.183	
Casing		Galvanised steel plate								
Airflow rate (H/L)	m ³ /min	7/5	9/6.5		12/9		16.5/13	26/21	33/25	
	cfm	247/177	318/229		424/318		582/459	918/741	1,165/883	
Sound level (H/L)	dB(A)	32/27	34/28		34/29		37/32	39/34	44/38	
Dimensions (HxWxD)	mm	305x775x600			305x990x600		305x1,175x600	305x1,665x600		
Machine weight	kg	26		31	32	35	47	48		
Piping connections	Liquid (Flare)	φ6.4			φ9.5					
	Gas (Flare)	φ12.7			φ15.9					
	Drain	VP25 (External Dia, 32/Internal Dia, 25)								
Panel (Option)	Model	BYBC32G-W1			BYBC50G-W1		BYBC63G-W1	BYBC125G-W1		
	Colour	White (10Y9/0.5)								
	Dimensions(HxWxD)	53x1,030x680			53x1,245x680		53x1,430x680	53x1,920x680		
	Weight	8.0			8.5		9.5	12.0		

Note: Specifications are based on the following conditions:

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

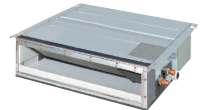
Indoor Units

Ceiling Mounted Cassette (Single Flow) Type



MODEL		FXEQ20AVE	FXEQ25AVE	FXEQ32AVE	FXEQ40AVE	FXEQ50AVE	FXEQ63AVE	
Power supply		1-phase, 60 Hz, 220 V						
Cooling capacity	kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	
	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
	kW	2.2	2.8	3.6	4.5	5.6	7.1	
Heating capacity	kcal/h	2,200	2,800	3,400	4,300	5,400	6,900	
	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	
	kW	2.5	3.2	4.0	5.0	6.3	8.0	
Power consumption	Cooling	0.026	0.027	0.034	0.046	0.048	0.067	
	Heating	0.022	0.023	0.030	0.042	0.044	0.063	
Casing		Galvanised steel plate						
Airflow rate (H/HM/ML/L)	Cooling	m ³ /min	6.0/5.4/4.9/4.4/4.0	6.9/6.4/5.8/5.3/4.8	8.0/7.5/7.0/6.3/5.5	9.8/8.8/7.8/7.0/6.2	12.5/11.4/10.4/9.5/8.7	15.0/13.6/12.2/11.0/9.8
		cfm	212/191/173/155/141	244/226/205/187/169	282/265/247/222/194	346/311/275/247/219	441/402/367/335/307	530/480/431/388/346
	Heating	m ³ /min	6.0/5.6/5.1/4.7/4.2	7.2/6.7/6.1/5.6/5.0	8.6/8.0/7.4/6.7/6.0	10.2/9.3/8.4/7.6/6.8	14.0/12.8/11.6/10.7/9.8	16.9/15.3/13.6/12.3/11.0
		cfm	212/198/180/166/148	254/237/215/198/177	304/282/261/237/212	360/328/297/268/240	494/452/409/378/346	597/540/480/434/388
Sound level (H/HM/ML/L)	Cooling	dB(A)	30/29/28/27/26	32/31/30/29/28	35/34/33/32/30	38/37/35/33/31	38/37/35/33/31	43/41/39/37/35
	Heating	dB(A)	33/31/29/28/26	35/33/31/30/26	38/36/34/33/31	41/39/37/35/33	41/39/37/36/34	45/44/42/40/38
Dimensions (HxWxD)	mm	200x840x470			200x1,240x470			
Machine weight	kg	17			18			
Piping connections	Liquid (Flare)	φ6.4			φ9.5			
	Gas (Flare)	φ12.7			φ15.9			
	Drain	PVC26 (External Dia, 26/Internal Dia, 20)						
Panel (Option)	Model	BYEP40AW1			BYEP63AW1			
	Colour	Fresh white						
	Dimensions(HxWxD)	80x950x550			80x1,350x550			
	Weight	8.0			10.0			

Slim Ceiling Mounted Duct Type (700 mm width type)



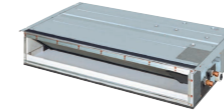
MODEL		with drain pump	FXDQ20PBVE	FXDQ25PBVE	FXDQ32PBVE	
		without drain pump	FXDQ20PBVET	FXDQ25PBVET	FXDQ32PBVET	
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity	kcal/h	1,900	2,400	3,100	3,100	
	Btu/h	7,500	9,600	12,300	12,300	
	kW	2.2	2.8	3.6	3.6	
Heating capacity	kcal/h	2,200	2,800	3,400	3,400	
	Btu/h	8,500	10,900	13,600	13,600	
	kW	2.5	3.2	4.0	4.0	
Power consumption (FXDQ-PBVE)*1	Cooling	kW	0.092	0.095	0.095	
	Heating	kW	0.073	0.076	0.076	
Power consumption (FXDQ-PBVET)*1	Cooling	kW	0.073	0.076	0.076	
	Heating	kW	0.073	0.076	0.076	
Casing		Galvanised steel plate				
Airflow rate (HH/H/L)	m ³ /min	8.0/7.2/6.4				
	cfm	282/254/226				
External static pressure	Pa	30-10**				
Sound level (HH/H/L)*1*3	dB(A)	28/26/23			28/26/24	
Dimensions (HxWxD)	mm	200x700x620				
Machine weight	kg	23				
Piping connections	Liquid (Flare)	φ6.4				
	Gas (Flare)	φ12.7				
	Drain	VP20 (External Dia, 26/Internal Dia, 20)				

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, 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: (FXEQ-A) Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. (FXDQ-PB) Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

*1: Values are based on the following conditions: FXDQ-PB: external static pressure of 10 Pa; FXDQ-NB: external static pressure of 15 Pa.
 *2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ-PB models and 15 Pa for FXDQ-NB models.)
 *3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

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



MODEL		with drain pump	FXDQ40NBVE	FXDQ50NBVE	FXDQ63NBVE	
		without drain pump	FXDQ40NBVET	FXDQ50NBVET	FXDQ63NBVET	
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity	kcal/h	3,900	4,800	6,100	6,100	
	Btu/h	15,400	19,100	24,200	24,200	
	kW	4.5	5.6	7.1	7.1	
Heating capacity	kcal/h	4,300	5,400	6,900	6,900	
	Btu/h	17,100	21,500	27,300	27,300	
	kW	5.0	6.3	8.0	8.0	
Power consumption (FXDQ-NBVE)*1	Cooling	kW	0.182	0.185	0.192	
	Heating	kW	0.168	0.170	0.179	
Power consumption (FXDQ-NBVET)*1	Cooling	kW	0.168	0.170	0.179	
	Heating	kW	0.168	0.170	0.179	
Casing		Galvanised steel plate				
Airflow rate (HH/H/L)	m ³ /min	10.5/9.5/8.5	12.5/11/10	16.5/14.5/13	16.5/14.5/13	
	cfm	371/335/300	441/388/353	582/512/459	582/512/459	
External static pressure	Pa	44-15**				
Sound level (HH/H/L)*1*3	dB(A)	30/28/26	33/30/27	33/31/29	33/31/29	
Dimensions (HxWxD)	mm	200x900x620			200x1,100x620	
Machine weight	kg	27	28	31	31	
Piping connections	Liquid (Flare)	φ6.4			φ9.5	
	Gas (Flare)	φ12.7			φ15.9	
	Drain	VP20 (External Dia, 26/Internal Dia, 20)				

Ceiling Mounted Duct Type



MODEL		FXMQ20AVE	FXMQ25AVE	FXMQ32AVE	FXMQ36AVE	FXMQ40AVE	FXMQ50AVE
Power supply		1-phase, 60 Hz, 220 V					
Cooling capacity	kcal/h	1,900	2,400	3,100	3,400	3,900	4,800
	Btu/h	7,500	9,600	12,300	13,600	15,400	19,100
	kW	2.2	2.8	3.6	4.0	4.5	5.6
Heating capacity	kcal/h	2,200	2,800	3,400	3,900	4,300	5,400
	Btu/h	8,500	10,900	13,600	15,400	17,100	21,500
	kW	2.5	3.2	4.0	4.5	5.0	6.3
Power consumption	Cooling	kW	0.081	0.085	0.194	0.215	0.215
	Heating	kW	0.069	0.073	0.182	0.203	0.203
Casing		Galvanised steel plate					
Airflow rate (HH/H/L)	m ³ /min	9/7.5/6.5	9.5/8/7	16/13/11	18/16.5/15	18/16.5/15	18/16.5/15
	cfm	318/265/229	335/282/247	565/459/388	635/582/530	635/582/530	635/582/530
External static pressure	Pa	30-100**			30-160**		50-200**
Sound level (HH/H/L)	dB(A)	33/31/29	34/32/30	39/37/35	41/39/37	41/39/37	41/39/37
Dimensions (HxWxD)	mm	300x550x700			300x700x700		300x1,000x700
Machine weight	kg	24			27		35
Piping connections	Liquid (Flare)	φ6.4					
	Gas (Flare)	φ12.7					
	Drain	VP25 (External Dia, 32/Internal Dia, 25)					

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

*1: Values are based on the following conditions: FXDQ-PB: external static pressure of 10 Pa; FXDQ-NB: external static pressure of 15 Pa.
 *2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ-PB models and 15 Pa for FXDQ-NB models.)
 *3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).
 *4: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32A), thirteen (FXMQ36/40A), fourteen (FXMQ50-125A) levels of control. These values indicate the lowest and highest possible static pressures. The standard static pressure is 50 Pa for FXMQ20-32A and 100 Pa for FXMQ36-125A.

Specifications

Indoor Units

Ceiling Mounted Duct Type



MODEL		FXMQ56AVE	FXMQ63AVE	FXMQ80AVE	FXMQ100AVE	FXMQ125AVE	FXMQ140PVE	
Power supply		1-phase, 60 Hz, 220 V					1-phase, 220-240 V/220 V, 50/60 Hz	
Cooling capacity	kcal/h	5,400	6,100	7,700	9,600	12,000	13,800	
	Btu/h	21,500	24,200	30,700	38,200	47,800	54,600	
	kW	6.3	7.1	9.0	11.2	14.0	16.0	
Heating capacity	kcal/h	6,100	6,900	9,000	10,800	13,800	15,500	
	Btu/h	24,200	27,300	34,100	42,700	54,600	61,400	
	kW	7.1	8.0	10.0	12.5	16.0	18.0	
Power consumption	Cooling	0.230		0.298	0.376	0.461	0.404* ³	
	Heating	0.218		0.286	0.364	0.449	0.380* ³	
Casing		Galvanised steel plate						
Airflow rate (HH/H/L)	m ³ /min	19.5/17.5/16		25/22.5/20	32/27/23	39/33/28	46/39/32	
	cfm	688/618/565		883/794/706	1,130/953/812	1,377/1,165/988	1,624/1,377/1,130	
External static pressure	Pa	50-200* ¹					50-140* ¹	
Sound level (HH/H/L)	dB(A)	42/40/38		43/41/39		44/42/40	46/45/43	
Dimensions (HxWxD)	mm	300x1,000x700			300x1,400x700			
Machine weight	kg	35			45		47	
Piping connections	Liquid (Flare)	φ9.5						
	Gas (Flare)	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	19,300	24,100
	Btu/h	76,400	95,500
	kW	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	Cooling	1,490	
	Heating	1,684	
Casing		Galvanised steel plate	
Airflow rate (H/L)	m ³ /min	58/50	72/62
	cfm	2,047/1,765	2,542/2,189
External static pressure	Pa	132-270* ²	147-270* ²
Sound level (H/L)	dB(A)	48/45	
Dimensions (HxWxD)	mm	470x1,380x1,100	
Machine weight	kg	137	
Piping connections	Liquid (Flare)	φ9.5	
	Gas (Brazing)	φ19.1	φ22.2
	Drain	PS1B	

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, 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 seven (FXMQ20-32A), thirteen (FXMQ36/40A), fourteen (FXMQ50-125A) or ten (FXMQ140P) levels of control. These values indicate the lowest and highest possible static pressures. The standard static pressure is 50 Pa for FXMQ20-32A and 100 Pa for FXMQ36-125A and FXMQ140P.

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

*3: Power consumption values are based on conditions of rated external pressure.

4-Way Flow Ceiling Suspended Type



MODEL		FXUQ71AVEB	FXUQ100AVEB
Power supply		1-phase, 220-240/220-230 V, 50/60 Hz	
Cooling capacity	kcal/h	6,900	9,600
	Btu/h	27,300	38,200
	kW	8.0	11.2
Heating capacity	kcal/h	7,700	10,800
	Btu/h	30,700	42,700
	kW	9.0	12.5
Power consumption	Cooling	0.090	
	Heating	0.073	
Casing colour		Fresh white	
Airflow rate (H/M/L)	m ³ /min	22.5/19.5/16	
	cfm	794/688/565	
Sound level (H/M/L)	dB(A)	40/38/36	
Dimensions (HxWxD)	mm	198x950x950	
Machine weight	kg	26	27
Piping connections	Liquid (Flare)	φ9.5	
	Gas (Flare)	φ15.9	
	Drain	VP20 (External Dia, 26/Internal Dia, 20)	

Ceiling Suspended Type



MODEL		FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz		
Cooling capacity	kcal/h	3,100	6,100	9,600
	Btu/h	12,300	24,200	38,200
	kW	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	Cooling	0.142		
	Heating	0.145		
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 (HxWxD)	mm	195x960x680	195x1,160x680	195x1,400x680
Machine weight	kg	24	28	33
Piping connections	Liquid (Flare)	φ6.4	φ9.5	
	Gas (Flare)	φ12.7	φ15.9	
	Drain	VP20 (External Dia, 26/Internal Dia, 20)		

Note: Specifications are based on the following conditions;

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

Specifications

Indoor Units

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	1,900	2,400	3,100	3,900	4,800	6,100
	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	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 (HxWxD)	mm	290x795x238			290x1,050x238		
Machine weight	kg	11			14		
Piping connections	Liquid (Flare)	φ6.4			φ9.5		
	Gas (Flare)	φ12.7			φ15.9		
	Drain	VP13 (External Dia, 18/Internal Dia, 13)					

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	1,900	2,400	3,100	3,900	4,800	6,100
	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	0.047	0.079	0.084	0.105	0.108	0.108
	Heating	0.047	0.079	0.084	0.105	0.108	0.108
Casing		FXLQ: Ivory white (5Y7.5/1)/FXNQ: Galvanised steel plate					
Airflow rate (H/L)	m ³ /min	7/6	8/6	11/8.5	14/11	16/12	
	cfm	247/212	282/212	388/300	494/388	565/424	
Sound level (H/L)	dB(A)	35/32		38/33	39/34	40/35	
Dimensions (HxWxD)	FXLQ	600x1,000x222		600x1,140x222		600x1,420x222	
	FXNQ	610x930x220		610x1,070x220		610x1,350x220	
Machine weight	FXLQ	25		30		36	
	FXNQ	19		23		27	
Piping connections	Liquid (Flare)	φ6.4			φ9.5		
	Gas (Flare)	φ12.7			φ15.9		
	Drain	φ21 O.D (Vinyl chloride)					

Note: Specifications are based on the following conditions:
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 • Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, 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: (FXAQ-P) Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
 (FXLQ-MA, FXNQ-MA) Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Outdoor Units

VRV IV S SERIES

Heat Pump



MODEL		RMXYQ3AVL	RMXYQ4AVL	RMXYQ5AVL	RMXYQ6AVL	RMXYQ8AYL	RMXYQ10AYL	RMXYQ12AYL	
Power supply		1 phase, 220 V, 60 Hz				3-phase, 380 V, 60 Hz			
Cooling capacity	kcal/h	6,880	9,630	12,000	13,300	19,300	24,100	28,800	
	Btu/h	27,300	38,200	47,800	52,900	76,400	95,500	114,000	
	kW	8.0	11.2	14.0	15.5	22.4	28.0	33.5	
Heating capacity	kcal/h	7,740	10,800	13,800	15,500	21,500	27,100	32,300	
	Btu/h	30,700	42,700	54,600	61,400	85,300	107,000	128,000	
	kW	9.0	12.5	16.0	18.0	25.0	31.5	37.5	
Power consumption	Cooling	2.10	3.03	4.05	4.68	6.00	7.20	9.10	
	Heating	2.35	3.10	4.06	4.62	6.00	9.00	10.8	
Capacity control	%	20-100		14-100		20-100		16-100	
Casing colour		Ivory white (5Y7.5/1)							
Compressor	Type	Hermetically sealed swing type			Hermetically sealed scroll type				
	Motor output	kW		1.92x1	3.0x1	3.5x1	4.7x1	5.7x1	6.9x1
Airflow rate	m ³ /min	53	76		106	140	182		
Dimensions (HxWxD)	mm	990x940x320			1,345x900x320	1,430x940x320	1,615x940x460		
Machine weight	kg	78		85	108	144	164	170	
Sound level	dB(A)	54	55		58	59	60		
Operation range	Cooling	°CDB						-5 to 43	
	Heating	°CWB						-20 to 15.5	
Refrigerant	Type	R-410A							
	Charge	kg		2.7	2.9	3.4	3.6	5.5	7.0
Piping connections	Liquid	mm	φ9.5 (Flare)				φ9.5 (Brazing)		φ12.7 (Brazing)
			φ15.9 (Flare)		φ19.1 (Brazing)		φ19.1 (Flare)	φ22.2 (Brazing)	φ25.4 (Brazing)
	Gas								

Note: Specifications are based on the following conditions:
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 • Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Allowable length of refrigerant piping

MODEL	Maximum allowable piping length (m)			Maximum allowable level difference (m)		
	Refrigerant piping length	Total piping length	Between the first indoor branch and the farthest indoor unit	Between the indoor units	Between the outdoor units and the indoor units	If the outdoor unit is above.
RMXYQ3AVL/RMXYQ4AVL	50	250	40	10	30	
RMXYQ5AVL	70	300	40	15	30	
RMXYQ6AVL	120	300	40	15	50	40
RMXYQ8AYL	100	300	40	15	50	40
RMXYQ10AYL/RMXYQ12AYL	120	300	40	15	50	40

Outdoor unit combinations

MODEL	kW	HP	Capacity index	Total capacity index of connectable indoor units			Maximum number of connectable indoor units
				Combination (%)			
				50%	100%	130%	
RMXYQ3AVL	8.0	3	72	36	72	93.6	4
RMXYQ4AVL	11.2	4	100	50	100	130	6
RMXYQ5AVL	14.0	5	125	62.5	125	162.5	8
RMXYQ6AVL	15.5	6	140	70	140	182	9
RMXYQ8AYL	22.4	8	200	100	200	260	13
RMXYQ10AYL	28.0	10	250	125	250	325	16
RMXYQ12AYL	33.5	12	300	150	300	390	19

Option List

Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type

No.	Item	Type	FXFSQ25A	FXFSQ32A	FXFSQ40A	FXFSQ50A	FXFSQ63A	FXFSQ71A
1	Decoration panel		BYCSP125BW1					
2	Panel spacer		KDBP55H160FA					
3	Long life replacement filter	Non-woven type	KAFP551K160					

No.	Item	Type	FXFSQ80A	FXFSQ90A	FXFSQ100A	FXFSQ112A	FXFSQ125A
1	Decoration panel		BYCSP125BW1				
2	Panel spacer		KDBP55H160FA				
3	Long life replacement filter	Non-woven type	KAFP551K160				

Ceiling Mounted Cassette (Round Flow) Type

No.	Item	Type	FXFQ25A	FXFQ32A	FXFQ40A	FXFQ50A	FXFQ63A	FXFQ71A
1	Decoration panel		BYCP125K-W1					
2	Panel spacer		KDBP55H160FA					
3	Long life replacement filter	Non-woven type	KAFP551K160					

No.	Item	Type	FXFQ80A	FXFQ90A	FXFQ100A	FXFQ112A	FXFQ125A
1	Decoration panel		BYCP125K-W1				
2	Panel spacer		KDBP55H160FA				
3	Long life replacement filter	Non-woven type	KAFP551K160				

Ceiling Mounted Cassette (Compact Multi Flow) Type

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

Ceiling Mounted Cassette (Double Flow) Type

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

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

Ceiling Mounted Cassette (Single Flow) Type

No.	Item	Type	FXEQ20A	FXEQ25A	FXEQ32A	FXEQ40A	FXEQ50A	FXEQ63A	
1	Decoration panel		BYEP40AW1				BYEP63AW1		

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	FXDQ40PB	FXDQ50PB	FXDQ63PB
1	Insulation kit for high humidity		KDT25N50		KDT25N63

Ceiling Mounted Duct Type

No.	Item	Type	FXMQ20A FXMQ25A FXMQ32A	FXMQ36A FXMQ40A	FXMQ50A FXMQ56A FXMQ63A FXMQ80A	FXMQ100A FXMQ125A 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	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W	—	
		Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F		
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T		
7	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A		

Option List

Indoor Units

4-Way Flow Ceiling Suspended Type

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

Ceiling Suspended Type

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

Wall Mounted Type

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

Floor Standing Type

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

Concealed Floor Standing Type

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

Outdoor Units

No.	Item	Type	RMXYQ3AVL RMXYQ4AVL RMXYQ5AVL RMXYQ6AVL	RMXYQ8AYL	RMXYQ10AYL RMXYQ12AYL
1	Distributive piping	REFNET joint	KHRP26A22T	KHRP26A22T KHRP26A33T	KHRP26A22T KHRP26A33T KHRP26A72T

Option List

Control Systems

Operation Control System Optional Accessories

No.	Item	Type	FXFSQ-A	FXFQ-A	FXZQ-M	FXCQ-M
1	Remote controller	Wireless	—	BRC7F634F	BRC7E530W	BRC7C62
2	Navigation remote controller (Wired remote controller)		Note 7 BRC1E62			
3	Simplified remote controller (Exposed type)		—			
4	Remote controller for hotel use (Concealed type)		—			
5	Adaptor for wiring		—	—	★KRP1BA57	★KRP1B61
6-1	Wiring adaptor for electrical appendices (1)		—	—	★KRP2A62	★KRP2A61
6-2	Wiring adaptor for electrical appendices (2)		—	—	★KRP4AA53	★KRP4AA51
7	Remote sensor (for indoor temperature)		KRCS01-4B		KRCS01-1B	
8	Installation box for adaptor PCB☆		—	—	Note 4, 6 KRP1BA101	Note 2, 3 KRP1B96
9	External control adaptor for outdoor unit		—	—	★DTA104A62	★DTA104A61
10	Adaptor for multi tenant		—	—	—	

No.	Item	Type	FXEQ-A	FXDQ-PB FXDQ-NB	FXMQ-A FXMQ-P	FXMQ-MA
1	Remote controller	Wireless	—	BRC4C65		BRC4C62
2	Navigation remote controller (Wired remote controller)		BRC1F61	Note 7 BRC1E62		
3	Simplified remote controller (Exposed type)		—	BRC2C51		
4	Remote controller for hotel use (Concealed type)		—	BRC3A61		
5	Adaptor for wiring		—	★KRP1B56	★KRP1C64	KRP1B61
6-1	Wiring adaptor for electrical appendices (1)		—	★KRP2A53	★KRP2A61	KRP2A61
6-2	Wiring adaptor for electrical appendices (2)		—	★KRP4A54	★KRP4AA51	KRP4AA51
7	Remote sensor (for indoor temperature)		KRCS01-4B	KRCS01-1B	KRCS01-4B	KRCS01-1B
8	Installation box for adaptor PCB☆		—	Note 4, 6 KRP1BA101	Note 2, 3 KRP4A96	—
9	External control adaptor for outdoor unit		—	★DTA104A53	★DTA104A61	DTA104A61
10	Adaptor for multi tenant		—	—	★DTA114A61	—

No.	Item	Type	FXUQ-A	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA
1	Remote controller	Wireless	BRC7CB58	BRC7EA63W	BRC7EA618	BRC4C62
2	Navigation remote controller (Wired remote controller)		Note 7 BRC1E62			
3	Simplified remote controller (Exposed type)		—	—	—	BRC2C51
4	Remote controller for hotel use (Concealed type)		—	—	—	BRC3A61
5	Adaptor for wiring		—	KRP1BA54	—	KRP1B61
6-1	Wiring adaptor for electrical appendices (1)		—	★KRP2A62	★KRP2A61	KRP2A61
6-2	Wiring adaptor for electrical appendices (2)		★KRP4AA53	★KRP4AA52	★KRP4AA51	KRP4AA51
7	Remote sensor (for indoor temperature)		KRCS01-4B		KRCS01-1B	
8	Installation box for adaptor PCB☆		KRP1BA97	Note 3 KRP1CA93	Note 2, 3 KRP4AA93	—
9	External control adaptor for outdoor unit		—	★DTA104A62	★DTA104A61	DTA104A61
10	Adaptor for multi tenant		—	—	★DTA114A61	—

- 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. Individual airflow direction, auto airflow rate and sensing sensor control can be set only via wired remote controller BRC1E62. Cannot be set via other remote controllers. Available functions depend on the type of indoor unit.

System Configuratio

No.	Item	Model No.	Function
1	Residential central remote controller	Note 2 DCS303A51	• Up to 16 groups of indoor units (128 units) can be easily controlled using the large LCD panel. ON/OFF, temperature settings and scheduling can be controlled individually for indoor units.
2	Central remote controller	DCS302CA61	• Up to 64 groups of indoor units(128 units) can be connected, and ON/OFF, temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to 2 controllers in one system.
2-1	Electrical box with earth terminal (3 blocks)	KJB311AA	• Up to 16 groups of indoor units(128 units) can be turned, ON/OFF individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers.
3	Unified ON/OFF controller	DCS301BA61	
3-1	Electrical box with earth terminal (2 blocks)	KJB212AA	
3-2	Noise filter (for electromagnetic interface use only)	KEK26-1A	• 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	Schedule timer	DST301BA61	
5	Interface adaptor for SkyAir-series	Note 3 ★DTA112BA51	• 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.
6	Central control adaptor kit For UAT(Y)-K(A), FD-K	★DTA107A55	* To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
7	Wiring adaptor for other air-conditioner	★DTA103A51	
8	DIII-NET Expander Adaptor	DTA109A51	• Up to 1024 units can be centrally controlled in 64 different groups. • Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor.
8-1	Mounting plate	KRP4A92	• Fixing plate for DTA109A51

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

Building Management System

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

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

Control Systems

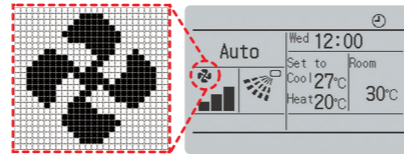
Individual Control Systems

Navigation remote controller (Wired remote controller) (Option)

Clear display

•Dot matrix display

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



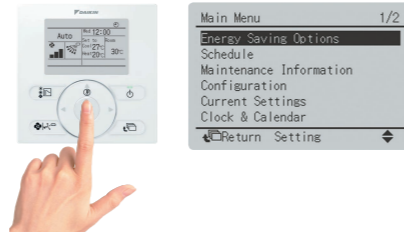
•Backlight display

- Backlight display helps operating in dark rooms.

Simple operation

•Large buttons and arrow keys

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



•Guide on display

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



BRC1E62

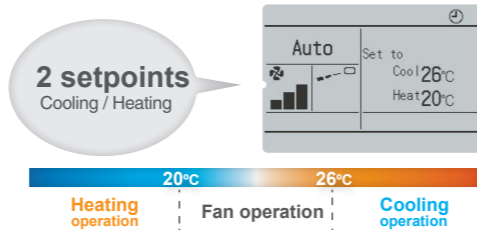


BRC1F61
(only for FXEQ series)

Energy saving

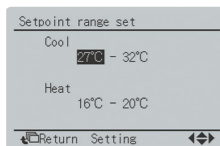
•Auto operation mode

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



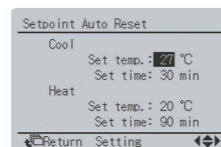
•Setpoint range set

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

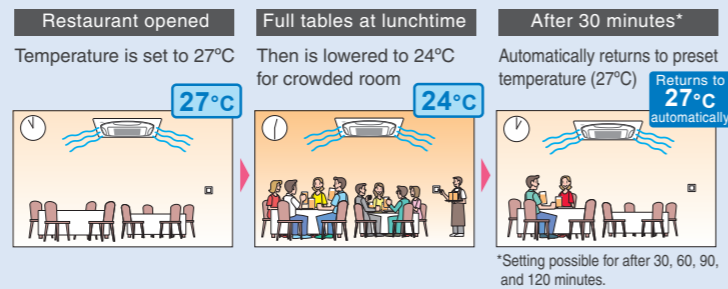


•Setpoint auto reset

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



Restaurant sample



•Off timer

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

Convenience

•Setback (default:OFF) (*1)

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

	Setback temperature	Recovery differential
Cooling	33 — 37°C	-2 — -8°C
Heating	10 — 15°C	+2 — +8°C

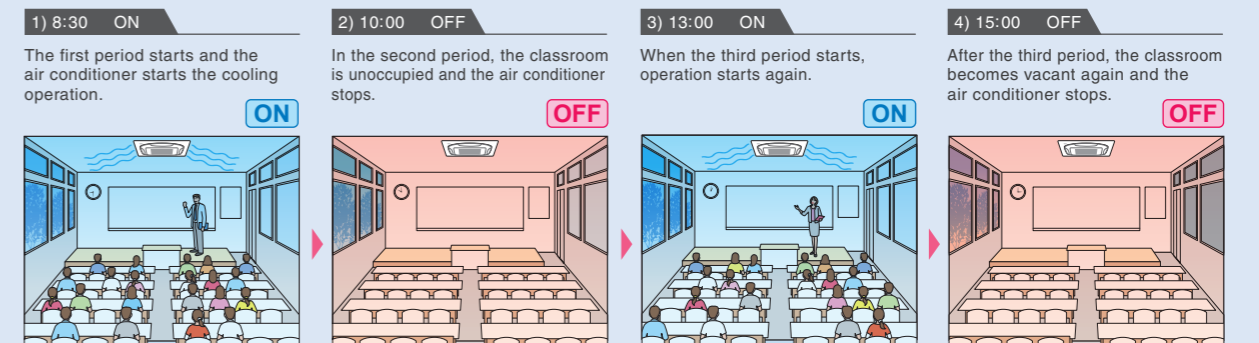
Ex) Setback temperature Cooling : 35°C Recovery differential Cooling : -2°C
When the room temperature goes above 35°C, the air conditioner starts operating in Cooling automatically. When room temperature reaches 33°C, the air conditioner returns OFF.

*1 Setback is not available for BRC1F61.

•Weekly schedule

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

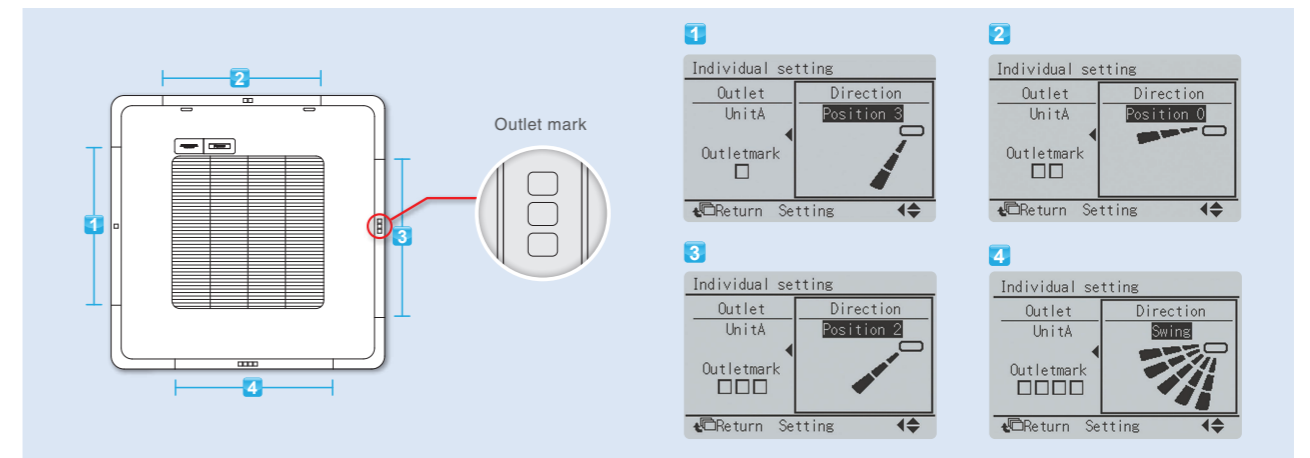
College classroom sample (a summer Monday case)



Comfort

•Individual airflow direction (*2)

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



•Auto airflow rate (*2)

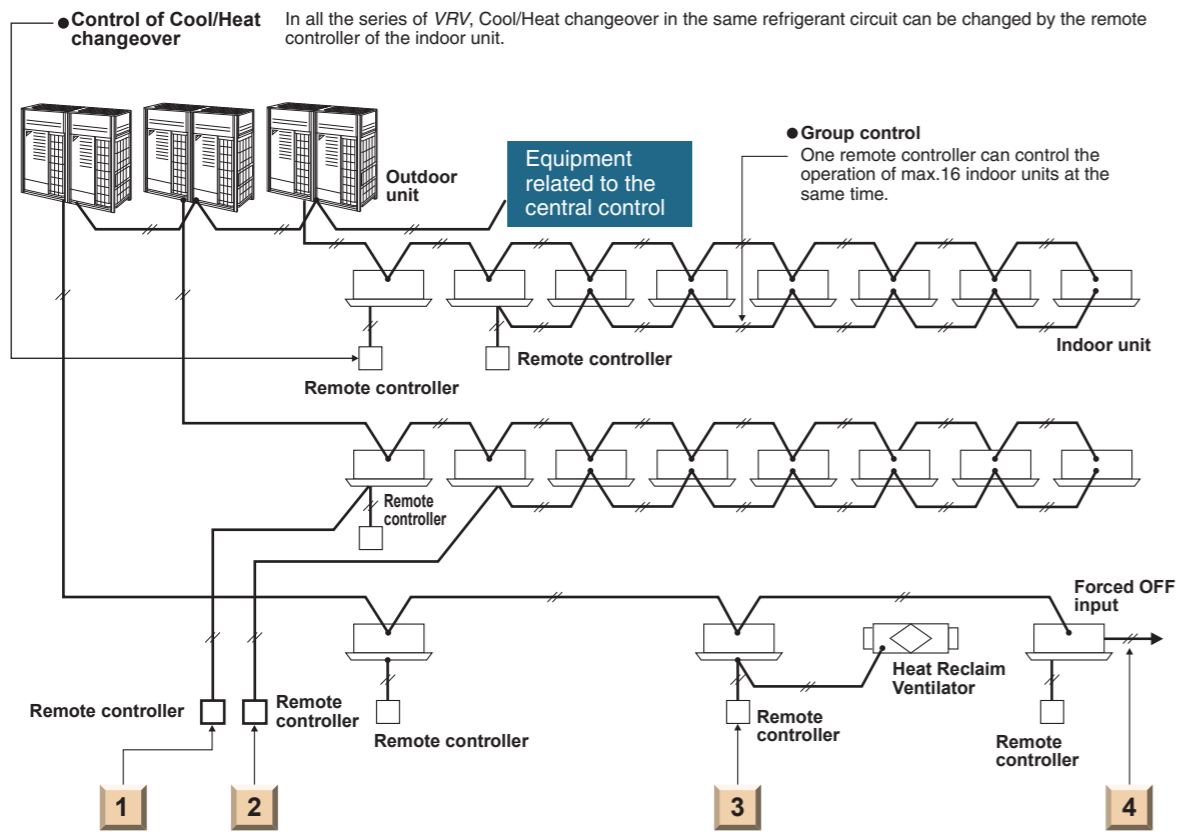
- Airflow rate is automatically controlled in accordance with the difference between room temperature and set temperature.

*2 Only available for V/RV 4-Way Flow Ceiling Suspended type FXUQ series and Ceiling Mounted Cassette (Round Flow with Sensing) type FXFSQ series.

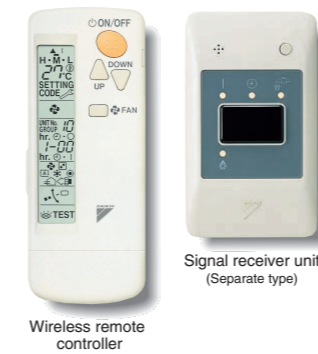
Control Systems

Individual Control Systems

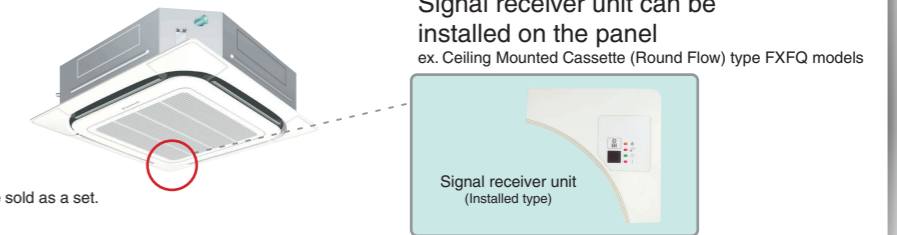
The wired remote controller supports a wide range of control functions



Wireless remote controller (Option)

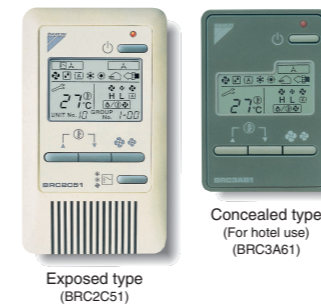


- The same operation modes and settings as with wired remote controllers are possible.
- * Individual airflow direction, auto airflow rate and sensing sensor control can be set only via wired remote controller BRC1E62. Cannot be set via other remote controllers.
- A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.
- A signal receiver unit (installed type) for a Ceiling Mounted Cassette (Round Flow FXFQ models, 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 35 for the name of each model.

Simplified remote controller (Option)



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



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

	FXFSQ	FXFQ	FXZQ	FXCQ	FXEQ	FXDQ	FXMQ	FXUQ	FXHQ	FXAQ	FXL(N)Q
Navigation remote controller (Wired remote controller) (BRC1E62)	●	●	●	●		●	●	●	●	●	●
Navigation remote controller (Wired remote controller) (BRC1F61)					●						
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)						●	●				●

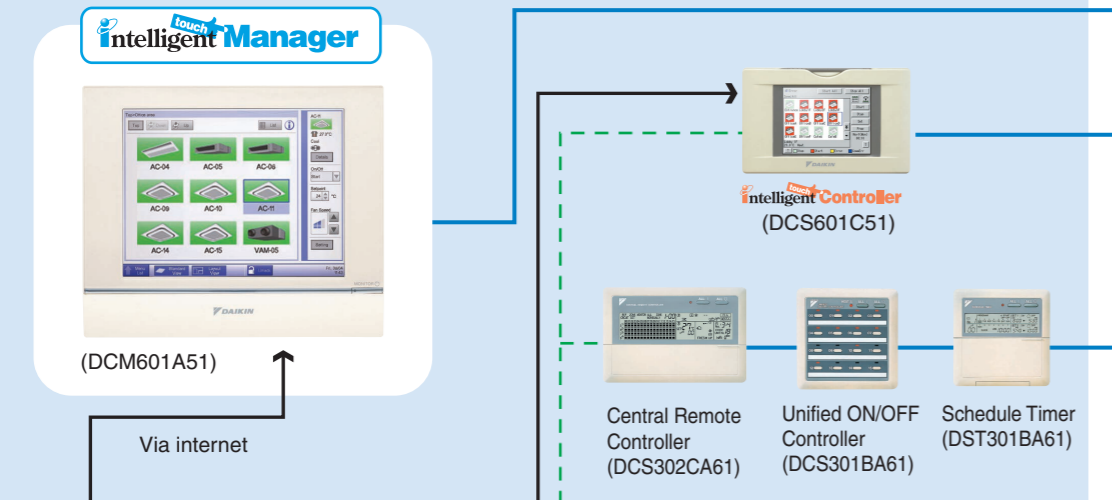
* Refer to page 35 for the name of each model.

Control Systems

Integrated Building Monitoring System

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

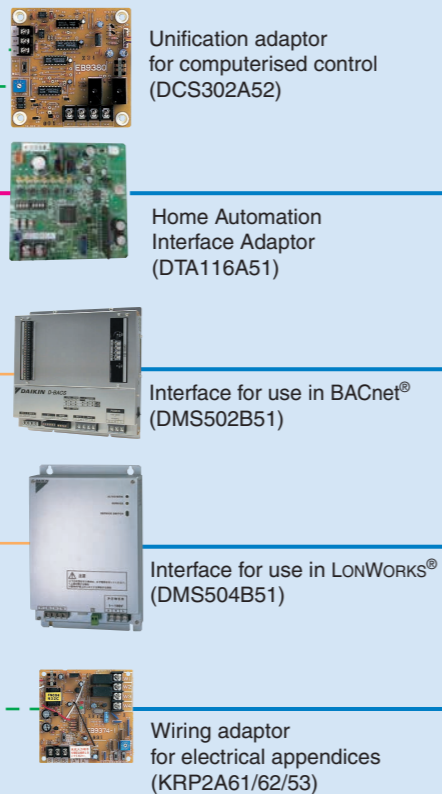
Controllers for Centralised Control



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

Home Automation Master Controller

Control /Connection Interface



BMS
(Obtain locally)



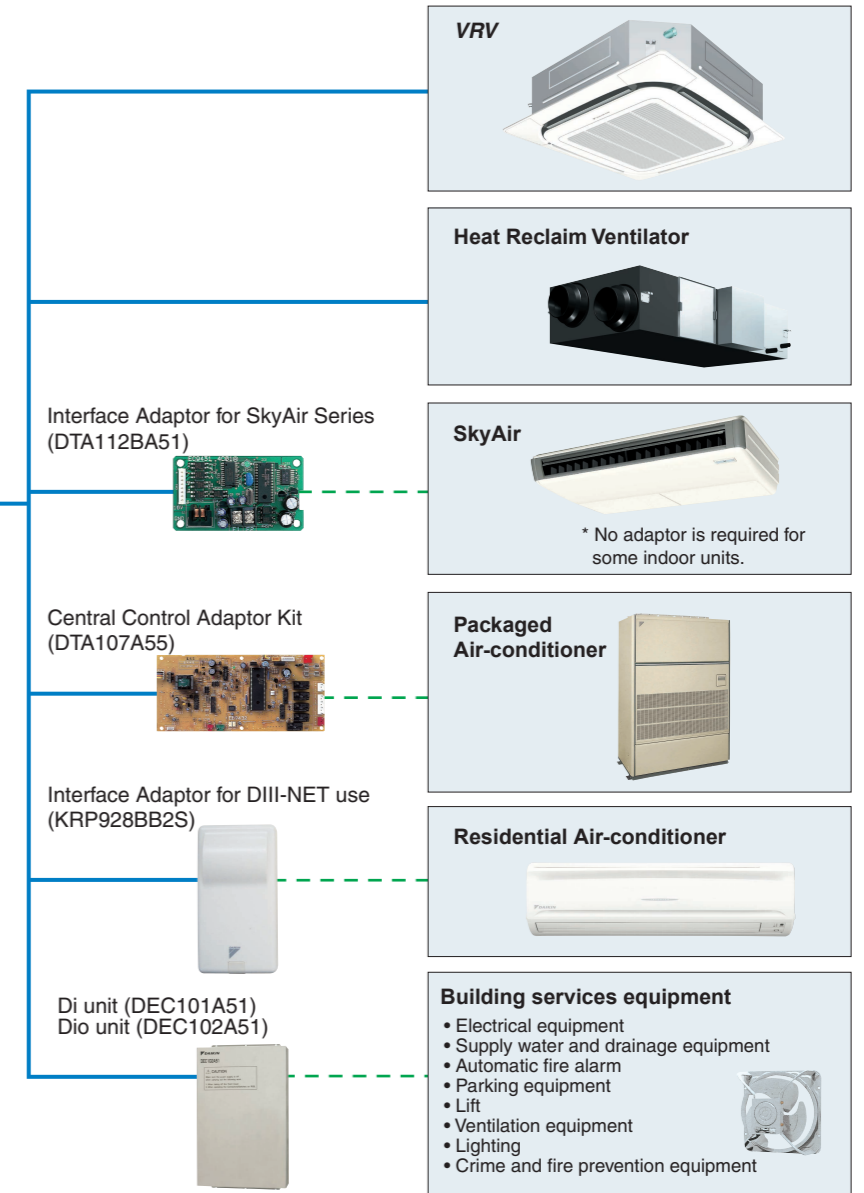
- DIII-NET Line
- BACnet®/Ethernet or LonWorks® Network Communication Line
- - - Contact Signal Line
- RS485 Modbus Line

DIII-NET
(High Speed Multiple Transmission)

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

The DIII-NET system provides for:

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



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

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

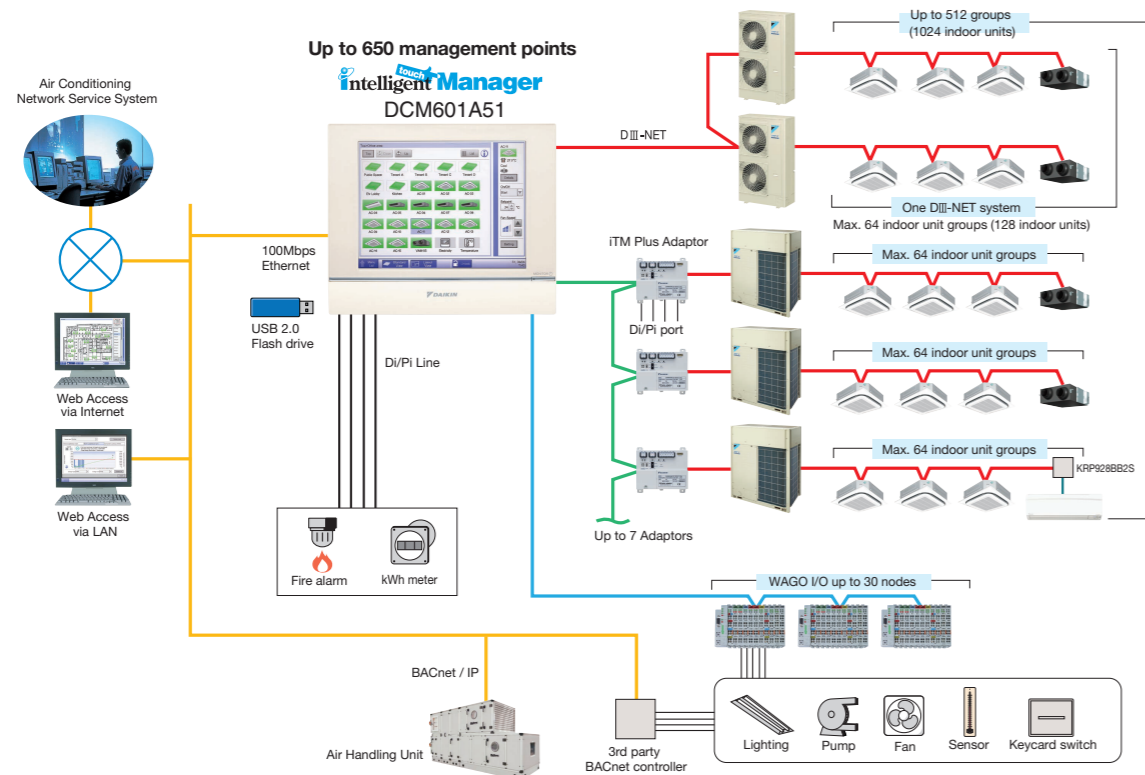
Control Systems

Advanced Control Systems

Intelligent Touch Manager

intelligent Touch Manager maximises the advantages of VRV features

intelligent Touch Manager System Overview



Central control

- Handy area settings simplify detailed management of VRV system.
- 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

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

Energy management

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

Troubleshooting

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

Scalability

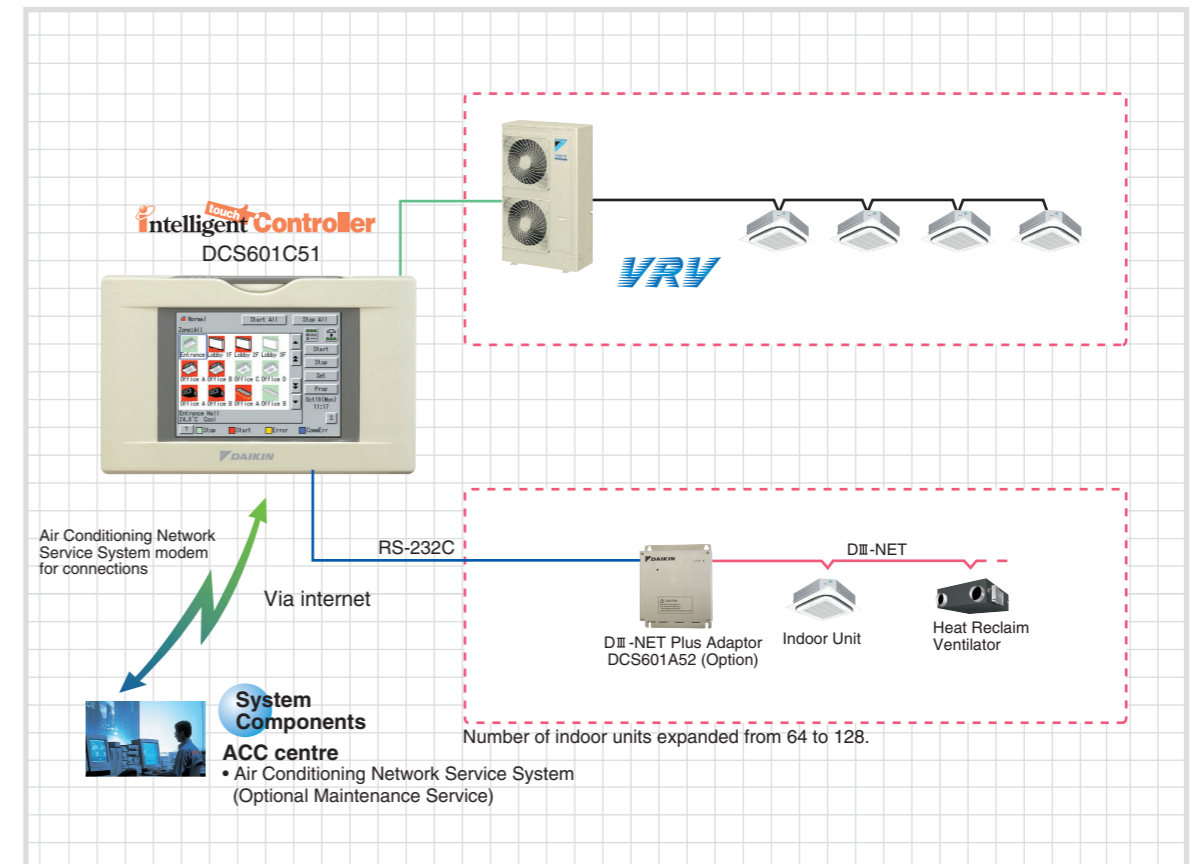
- A single intelligent Touch Manager can manage a small building or be expanded to handle medium- to large-sized buildings.

Connectivity

- BACnet connection with a wide range of building equipment.
- WAGO Ao and Pi are newly supported and connectable WAGO modules are added.

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)



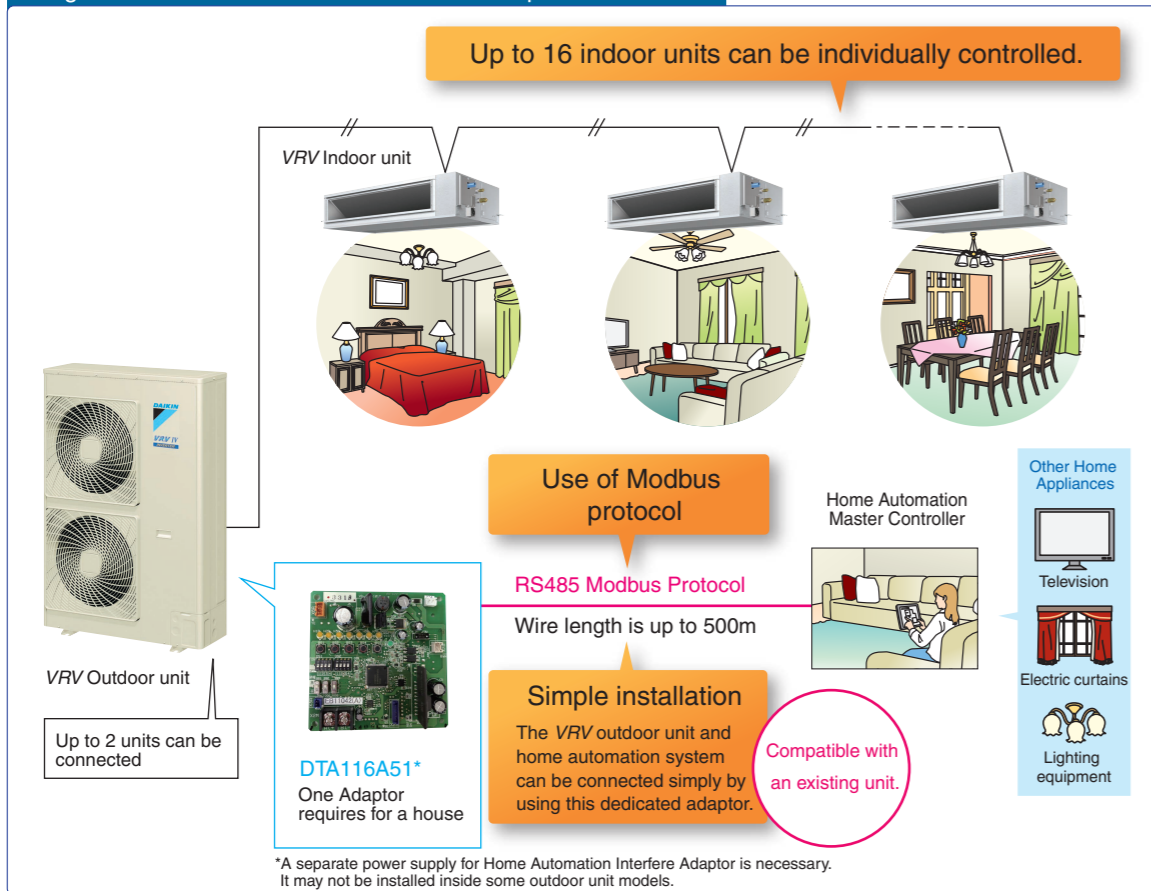
Control Systems

Advanced Control Systems

Home Automation Interface Adaptor

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

Image to use Home Automation Interface Adaptor DTA116A51



Functions

Monitor

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

Control

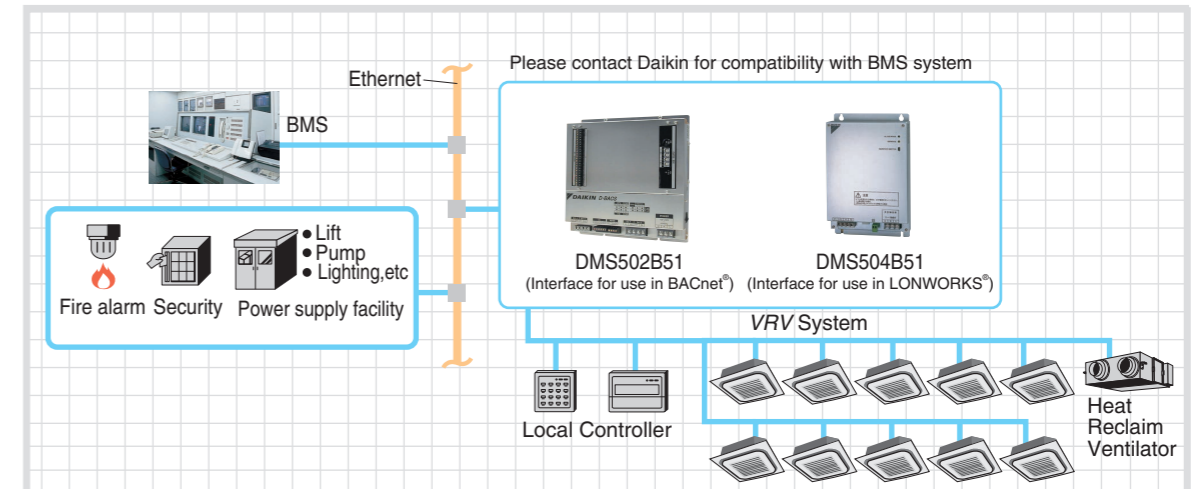
On/Off	On/Off control of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Cooling/Heating setpoint
Fan direction	Swing, Stop, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Filter sign reset	Reset filter sign of indoor units

Retrieve system information

Connected indoor units	DIII-NET address of connected indoor units can be retrieved.
Indoor unit capabilities	Indoor unit capabilities such as operation mode, fan control, setpoint HV can be retrieved.

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®

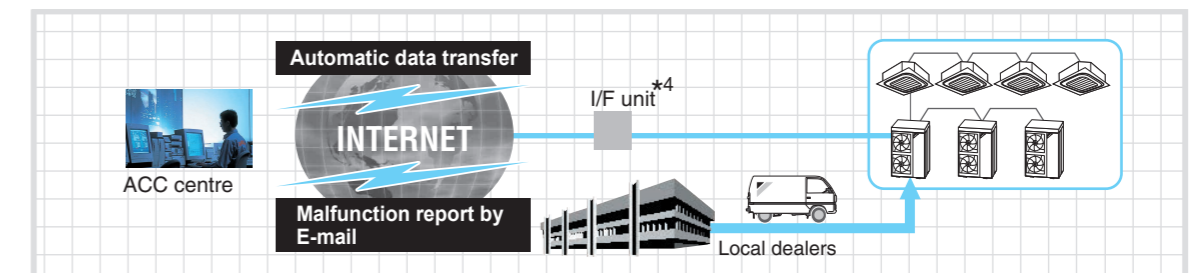
- Support for Heat Reclaim Ventilator VAM series
- Selectable temperature unit
- BTL Certification
- PPD data (Optional Di board is required.)
- ISO 16484-5 (Does not support IEEE 802.3 protocol for BACnet®)
- Up to 40 outdoor units and 256 indoor unit groups on one gateway (optional adaptor)

DMS504B51 Interface for use in LONWORKS®

- XIF file for confirming of specifications of the units.
- Connectable up to 10 outdoor 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 shortest lead time

*1. Model name varies upon the system size.

*2. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

*3. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.

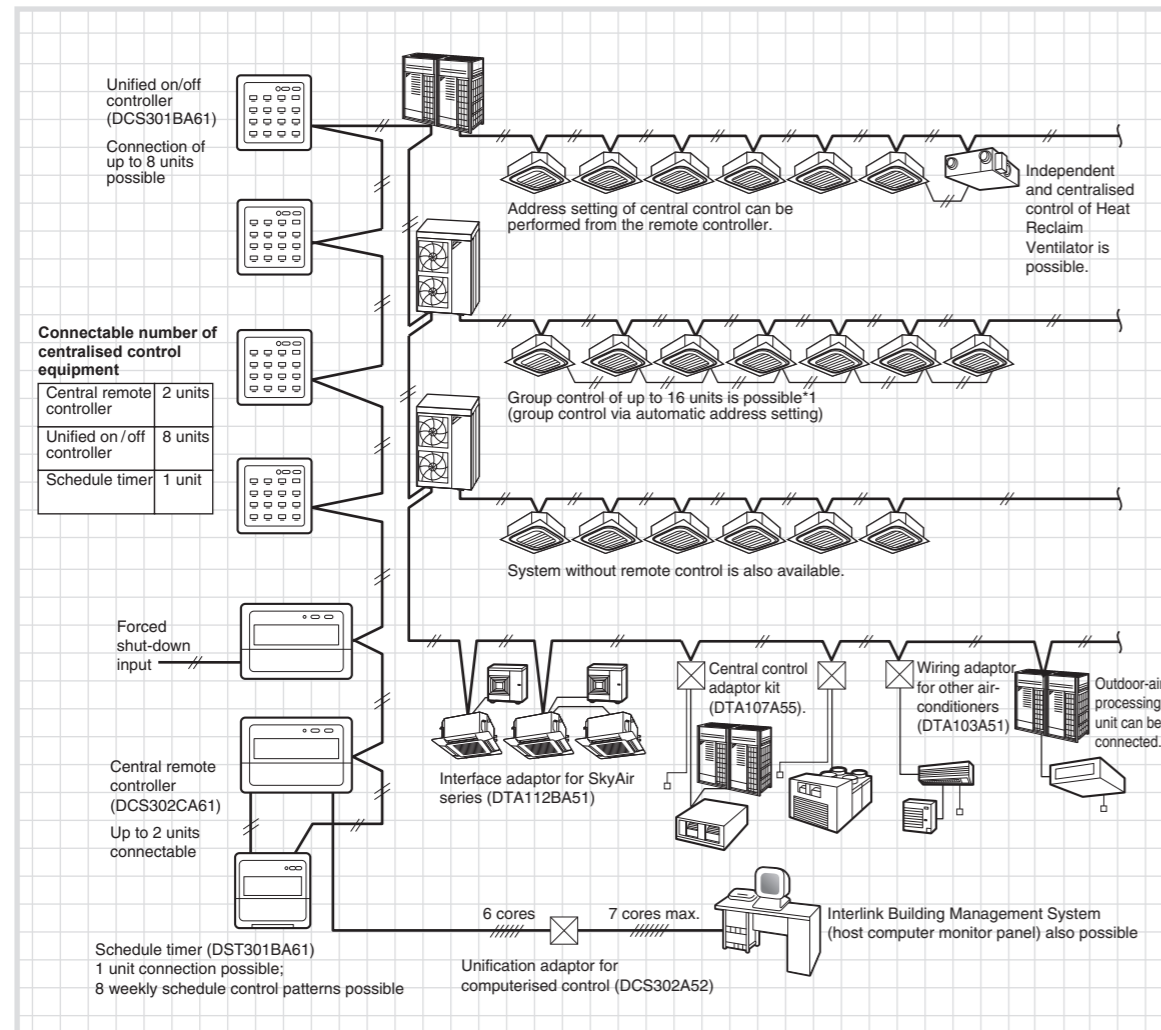
*4. For an I/F unit, one of the following can be selected: **Local Controller**, intelligent Touch Controller, or intelligent Touch Manager.

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

Control Systems

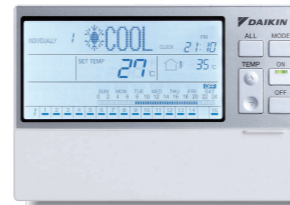
Centralised Control Systems

- 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.



- ★ 1. Refer to page 30 for the total number of indoor units that can be connected to the outdoor unit.
- Certain indoor units limit the functions of some control systems. For more details, please refer to the Engineering Data.

Residential central remote controller* (Option)



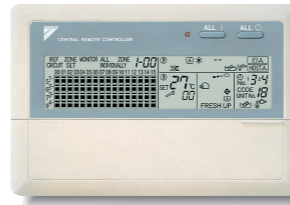
DCS303A51

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

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

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

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

Air Treatment Equipment Lineup

Heat Reclaim Ventilator — VAM series

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

Model Names

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

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

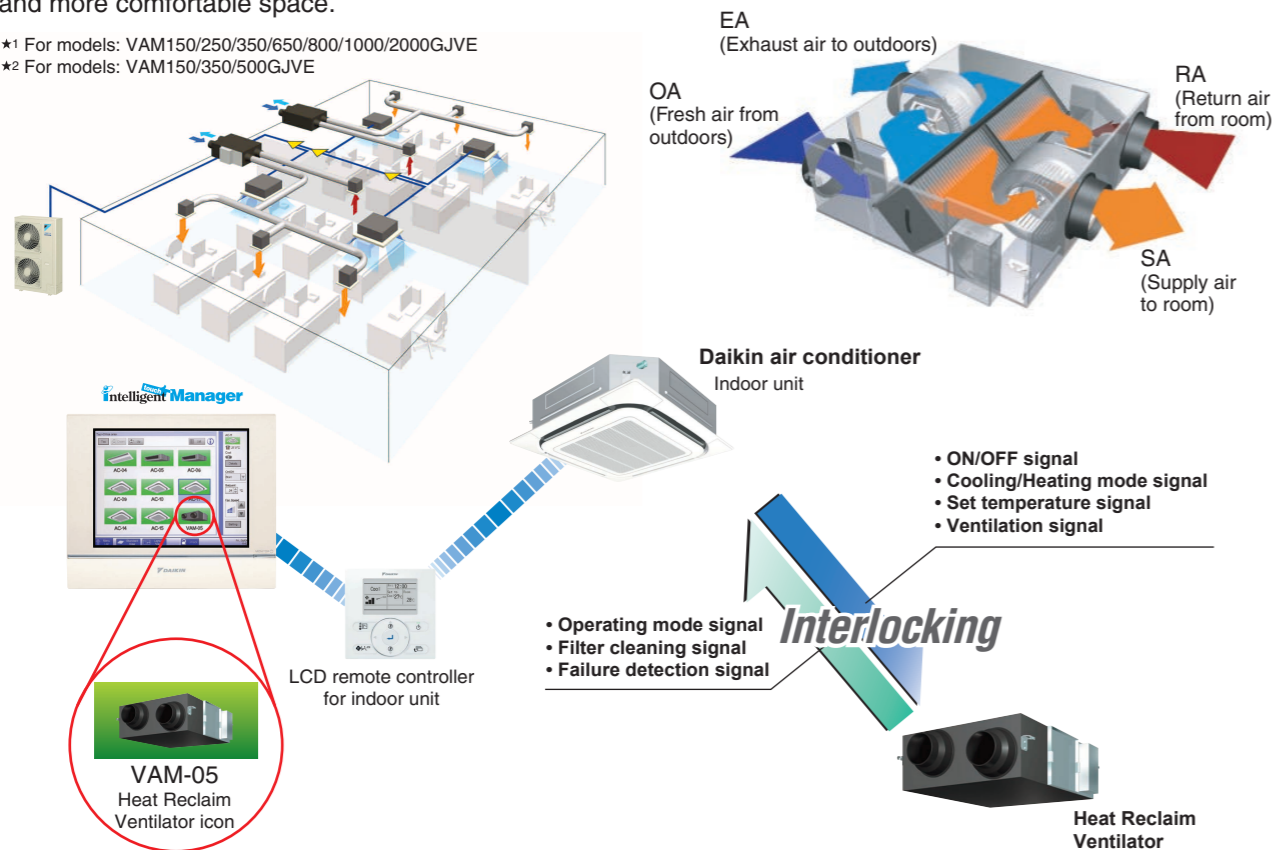


Heat Reclaim Ventilator remote controller* BRC301B61 (Option)

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

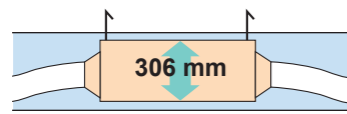
This VAM series provides higher enthalpy efficiency*¹, due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure*² offers more flexibility for installation. Along with these three outstanding improvements, the nighttime free cooling operation contributes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



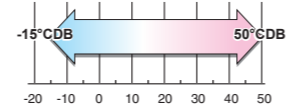
* For VAM500GJVE

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

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.

23%

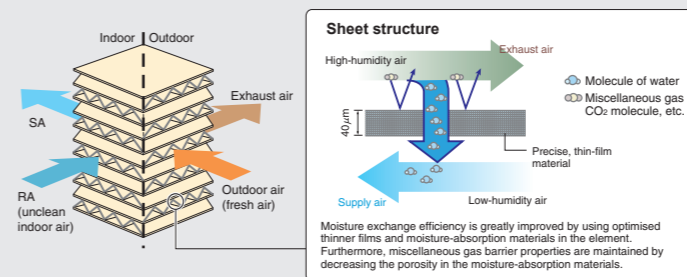
Enthalpy efficiency drastically improved by employing thin film element! (VAM-GJ model)

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.

Thickness of the partition sheet
40 μm

Moisture absorption increased by approx. 10%!



Auto-ventilation Mode Changeover Switching

6%

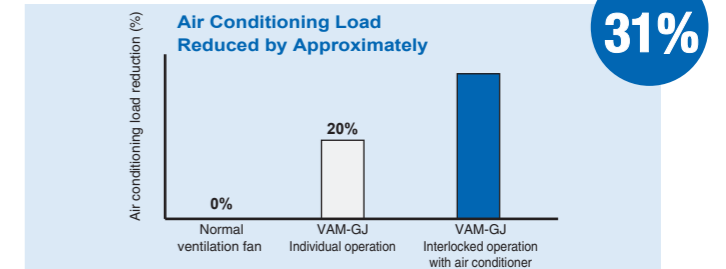
Automatically switches the ventilation mode (Total Heat Exchange Mode/Bypass Mode) according to the operating status of the air conditioner.

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.

- The air conditioning load reduction values may vary according to weather and other environmental conditions at the location of the machine's installation.
- The air conditioning load reduction values are based on the following conditions:
 Application: Tokyo office building
 Building form: 6 floors above ground, 2 floors underground, floor area 2,100 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.



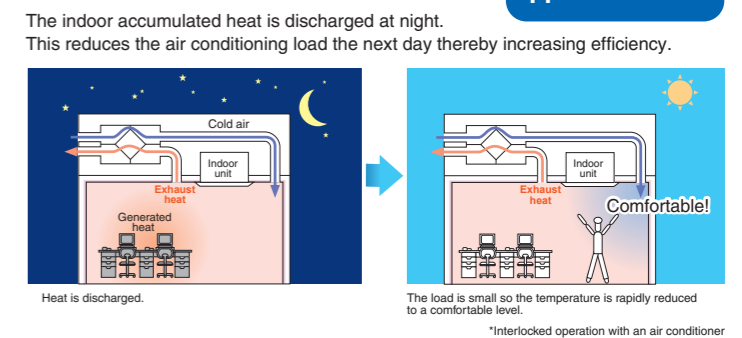
Nighttime free cooling operation*¹

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.

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

- Nighttime free cooling operation only works to cool and if connected to Building Multi or VRF 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).



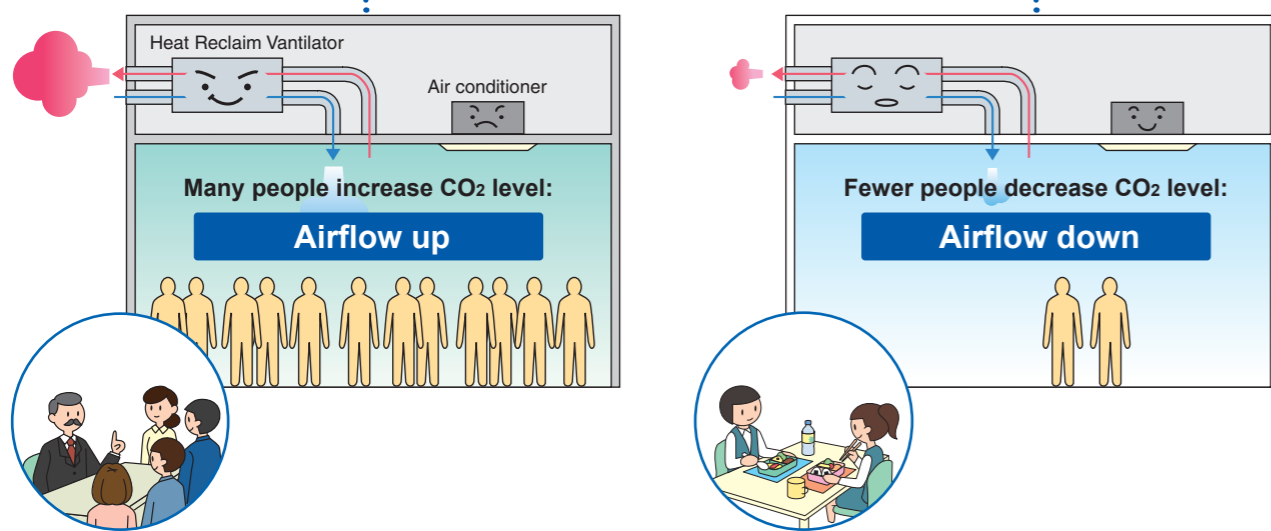
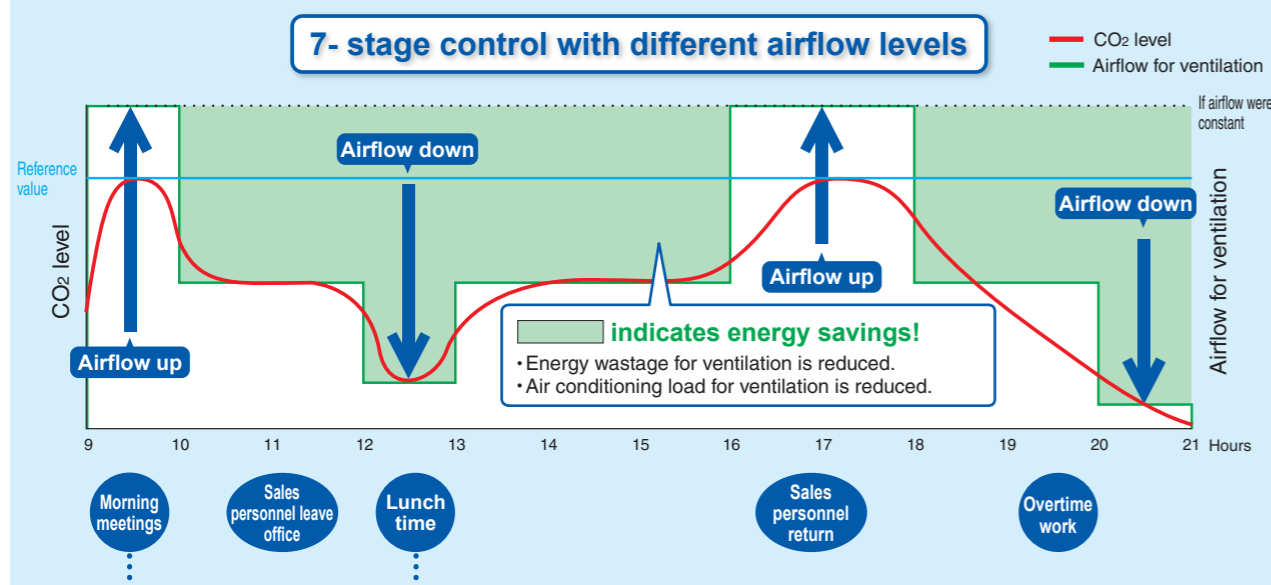
Air Treatment Equipment Lineup

Heat Reclaim Ventilator — VAM series

CO₂ Sensor Optional Kit Connection

The CO₂ sensor controls airflow so that it best matches the changes in CO₂ level. This prevents energy losses from over-ventilation while maintaining indoor air quality with optional CO₂ sensor.

Example of CO₂ sensor operation in an office room:



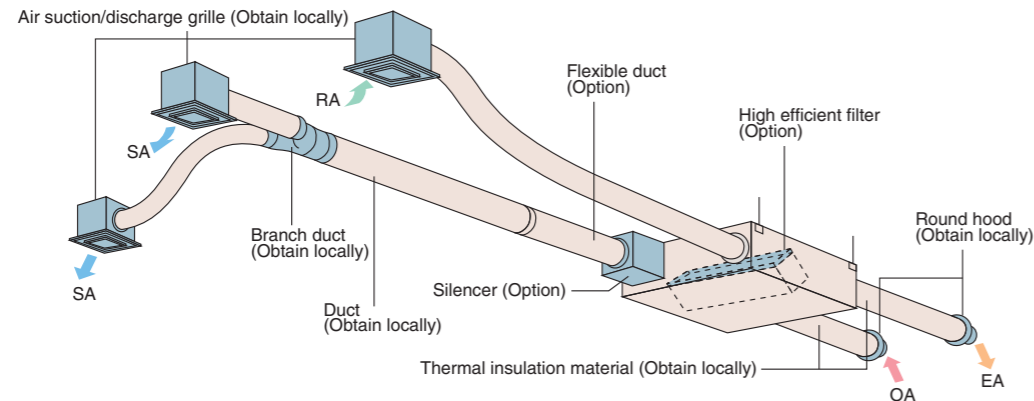
Specifications

Models		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 (%)	Ultra-High	79	75	79	74	75	72	78	72	77	
	High	79	75	79	74	75	72	78	72	77	
	Low	85	79	82	80.5	77.5	74.5	81	76	81	
Enthalpy Exchange Efficiency (%)	For Heating	Ultra-High	72	71	70	67	67.5	65	70	65	72
		High	72	71	70	67	67.5	65	70	65	72
		Low	76.5	74	77	74.5	72	68	73	67.5	76
	For Cooling	Ultra-High	66	63	66	55	61	61	64	61	62
		High	66	63	66	55	61	61	64	61	62
		Low	70.5	66	70	59.5	64.5	64.5	69	64.5	67
Power Consumption	Heat Exchange Mode	Ultra-High	134	141	226	270	398	680	760	1,300	1,542
		High	117	125	211	217	332	597	648	1,144	1,315
		Low	58	59	120	136	207	483	512	927	1,039
	Bypass Mode	Ultra-High	134	141	226	270	398	680	760	1,300	1,542
		High	117	125	211	217	332	597	648	1,144	1,315
		Low	58	59	120	136	207	483	512	927	1,039
Sound Level dB(A)	Heat Exchange Mode	Ultra-High	28.5	29	33	34	36	39.5	39.5	41.5	42
		High	27.5	28	30	32	34	37.5	37.5	39.5	40
		Low	21	21	23	24	28	34	34.5	36	39
	Bypass Mode	Ultra-High	29.5	30.5	34.5	35.5	37.5	41	40.5	42.5	44
		High	28.5	29.5	31.5	33.5	35.5	39	38.5	41.5	42
		Low	22	22.5	24.5	25.5	29.5	35.5	35.5	37.5	41
Casing		Galvanised steel plate									
Insulation Material		Self-extinguishable polyurethane foam									
Dimensions (HxWxD)	mm	278x810x551	306x879x800	338x973x832	387x1,111x832	387x1,111x1,214	785x1,619x832	785x1,619x1,214			
Machine Weight	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 (m ³ /h)	Ultra-High	150	250	350	500	650	800	1,000	1,500	2,000
		High	150	250	350	500	650	800	1,000	1,500	2,000
		Low	95	155	230	295	470	670	840	1,260	1,580
	External Static Pressure (Pa)	Ultra-High	154	96	222	150	125	170	192	150	140
		High	131	65	145	52	67	85	86	72	32
Low		60	20	30	18	38	61	60	50	45	
Motor Output	kW	0.030x2		0.090x2		0.140x2		0.280x2		0.280x4	
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 m³/h) to approximately 11 dB(A) (models with the airflow rate of 650 m³/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 m³/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.)

Air Treatment Equipment Lineup

Options



Option List

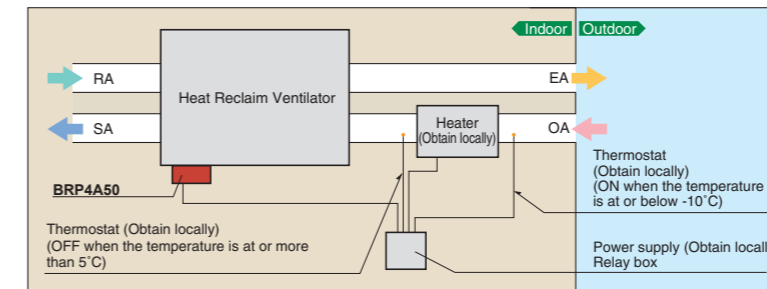
Item	Applicable model	VAM150 · 250 · 350 · 500 · 650 · 800 · 1000 · 1500 · 2000GJVE												
Controlling device	Heat Reclaim Ventilator remote controller	BRC301B61												
	Centralised controlling device	Residential central remote controller	DCS303A51 *1											
		Central remote controller	DCS302CA61											
		Unified ON/OFF controller	DCS301BA61											
		Schedule timer	DST301BA61											
PC Board A 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												
For wiring	Type (indoor unit of VRV)	FXFSQ-A	FXFQ-A	FXZQ-M	FXCQ-M	FXEQ-A	FXDQ-PB FXDQ-NB	FXMQ-A FXMQ-P	FXMQ-MA	FXUQ-A	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	
	Installation box for adaptor PCB☆	—	—	KRP1BA57 * KRP1BA101	KRP1B61 * KRP1B96	—	KRP1B56 * KRP1BA101	KRP1C64 * KRP4A96	KRP1B61	—	KRP1BA54 KRP1CA93	—	KRP1B61 KRP4AA93	

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 For residential use only. When connected with a Heat Reclaim Ventilator (VAM), you can only switch the power ON/OFF. Cannot be used with other centralised control equipment.

Item	Type	VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Additional function	Silencer	—			KDDM24B50	KDDM24B100			KDDM24B100X2	
	Nominal pipe diameter	—			φ 200	φ 250			φ 250	
	High efficiency filter	KAF242H25M		KAF242H50M	KAF242H65M	KAF242H80M	KAF242H100M	KAF242H60MX2	KAF242H100MX2	
Air filter for replacement	KAF241G25M		KAF241G50M	KAF241G65M	KAF241G80M	KAF241G100M	KAF241G80MX2	KAF241G100MX2		
Flexible duct (1 m)	K-FDS101D	K-FDS151D	K-FDS201D		K-FDS251D					
Flexible duct (2 m)	K-FDS102D	K-FDS152D	K-FDS202D		K-FDS252D					
Duct adaptor	Nominal pipe diameter	—			—		YDFA25A1			
	mm	—			—		φ 250			
CO ₂ sensor	—	BRYMA65			BRYMA100		BRYMA65		BRYMA100	

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 the Heat Reclaim Ventilator for safety.
- For the Heat Reclaim Ventilator, use a different power supply from that of the electric heater and install a circuit breaker for each.