

Equipped with Advanced Technology, that results in high energy efficiency. This technological innovation gives end user the advantage of better comfort and work further towards creating a sustainable environment.



DAIKIN The world leader in airconditioning

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

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

Established in 1924 Daikin Industries Ltd., are a diverse multinational company, active in air conditioning, chemicals and oil hydraulics. With headquarters at Osaka, Japan, our Daikin family has more than 67,000 members, working across 80 production base and 208 consolidated subsidiaries worldwide.

As the world's sole manufacturer that develops a long line of products from refrigerants to air conditioners, we advocate comfortable living on the strength of advanced technologies.

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



EUROPE / MIDDLE EAST / AFRICA



Europe N.V.



ionina

Daikir Aircondit



Daikin Airconditioning Central Europe



Airconditioning

Daikin

I IK

Daiki Spair







Daikin Industries Czech Republic

Daikin Chemical France



Hui Zhou Daikin Suns Airconditioning



Daikin Fluorochemicals China



Qing'an Compresso



Daikin Fluor









• ASIA / OCEOANIA 🔸

Daikin Compressor Industries







Daikin Industries

Daikin Industries Head Office Japan (Inside Umeda Center Building)

morter

Airconditioning

Daikin

Singapore





Thailand











NORTH AMERICA/CENTRAL & SOUTH AMERICA







Daikin Holding USA





Exploring new R&D frontiers

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

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

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





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

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

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

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







Technology & Innovation Centre, Japan: Aiming for new value creation as a core base for technology development.



The Solutions Product Development Centre: Integrating Air Conditioners with IT

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





Research & Development Centre, India:

Reiterating to its commitment to Indian market, Daikin India R&D is dedicated to provide customized solutions to its customers.

X' TENSIVE RANGE UP TO 60 HP



World's most advanced VRV X airconditioning system with Innovative VRT technology.

First launched in Japan in 1982, the Daikin VRV system has been embraced by the world markets for over three decades. Now, we at Daikin introduce the next generation VRV X system to reinforce our industry leadership. The system offers an enhanced lineup to meet an ever widening variety of needs, while improving energy savings, comfort and ease of installation.

The VRV X is the most advanced airconditioning system in the world and is ideal for small and large spaces.

Energy saving technology for VRV X System

X' TRA POWER SAVINGS

Next Generation Compressor & VRT Smart Control

VRT-Variable Refrigerant Temperature in Indoor Unit (IDU) and Outdoor Unit (ODU)

The new VRV X system now features VRT technology in IDU & ODU. VRT automatically adjusts refrigerant temperature to individual building load and climate requirement, thus further improving annual energy efficiency and maintaining comfort. With this technology, running costs are reduced.



6 HP-60 HP with 28 models lineup





ineup										
HP	6	8	10	12	14	16	18	20	22	24
Cooling only										

VRV X

X' TRA POWER SAVING

New heights in energy efficiency during actual operation

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

Using data gathered from actual operation, Daikin discovered that air conditioning systems operate at a load factor of 50% or less for 70% of their annual operation period.

This inspired us to develop new technologies to enhance energy efficiency during low loads.

Utilising these technologies, Daikin's new VRV X series raise the standard for energy efficiency.

New Scroll Compressor*

Refrigerant leakage is minimised during low-load operation.

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

Back pressure control mechanism

Conventional mechanism

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



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

Advanced oil temperature control

Standby power consumption is reduced

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







New intermediate pressure mechanism

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



The advanced oil temperature control reduces standby power consumption compared to conventional models. Standby power

needed for preheating refrigerator oil, which consumes substantial standby power, was reduced to save energy when the air



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









Higher efficiency is provided during rated operation.



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

VRT - VARIABLE REFRIGERANT TEMPERATURE

State-of-the-art energy saving technology for VRV system

Customise your VRV system for optimal annual efficiency

The new VRV X system features VRT technology. VRT automatically adjusts refrigerant temperature to individual building and climate requirement, thus further improving annual energy efficiency and maintaining comfort.

With this excellent technology, running costs are reduced.

How is energy reduced?

During cooling, the refrigerant evaporating temperature (Te) is raised to minimise the difference with the condensing temperature. During heating, the condensing temperature (Tc) is lowered to minimise the difference to the evaporating temperature. Compressors work less, and this reduces power comsumption.



Typical changes in evaporating temperature and COP depending on changing indoor load





for either energy efficiency or rapid cooling/heating.



VRT offers quicker cool down



□ Cooling only regions having differences





X' CELLENT TECHNOLOGY

Large capacity all DC inverter compressor in compact casing

Large capacity inverter compressor using high tensile strength material, realise 12 HP compressor using 8 HP casing.

High strength material by adopting Thixocasting technology

Gives 2.4 times tensile strength compared to conventional material

New Material: 600 MPa **Conventional Material : 250 MPa** Increases compression chamber volume by using

thin spiral design.



As a result of having thin wall thickness of the scroll, compression chamber volume increases by 50%

Compact & high efficiency concentrated winding motor



Small size coil end using concentrated winding, reduces copper loss (winding resistance).

Improves motor efficiency in low rpm range (improves intermediate efficiency).

Highly integrated heat exchanger

Improves performance by increasing heat exchanger area while maintaining the same installation space.



Realises highly integrated heat exchanger performance by employing 3 rows & reduced fin pitch coil as well as reduction in airflow resistance by adopting small pipe size design.



3 rows with small pipe design, increase heat transfer efficiency





Various advanced control main PC board

SMT* packaging technology

SMT packing technology adopted by the whole computer control panel improve the anti-clutter performance.

Protects your computer board from adverse effect of sandy and humid weather.

Improved inner design to increase smooth airflow

Downsizes electric component, relocates to dead

space of bell mouth side to decrease airflow resistance.



ADVANCE TECHNOLOGY ACHIEVED

X' TENDED RELIABILITY



Lower operation sound

Improves heat exchanger efficiency, helps reduced operation sound.

Large airflow, high static pressure and quiet technology

Without increasing operation sound, advanced analytic technologies are utilised to optimise fan design, increase airflow rate and external static pressure.





8 HP

Outdoor PCB automatically memorises the time when the

operation mode after 8 h*1, and returns to normal mode

peak outdoor temperature appears. It enables quiet

6 HP

after it keeps this on for 9 h*2.

Quiet night-time operation function

VRV X

Sound level(dB(A))

12 HP

59

10 HP

Notes

- This function is available in field setting. • The operating sound in quiet operation mode is the actual value
- measured by Daikin. The relationship of outdoor temperature (load) and time shown above
- is just an example For 10 HP ODU.

Ease of Maintenance

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



refrigerant to be charged.



whether there is a defective wiring.

Automatically checks whether the stop valve in each outdoor unit is in normal status to ensure the smooth operation of airconditioning system.

Free Phase Technology

Phase reversal occurs in areas where power supply are freequent. At the time of power recovery phase reversal may take place due to AC source, and device may stop for PCB protection. By employing Free Phase technology, continued operation is achieved.



X' TENDED RELIABILITY

MORE FLEXIBLE SYSTEM DESIGN

Simplified commissioning and after-sales service

Displays

operation

informatio

directly

system

7-segment digital display

Н

Conventional LED display

Figures out

information by

reading light

emitting state of different

diodes, which

inefficient and

Simplified

commissioning

Retrieve initia

system settings

system operation

is both

fallible

Function of information display by luminous digital tube

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

VRV configurator

- The VRV configurator is an advanced solution that allows for easy system configuration and commissioning.
- Less time is required on the roof configuring the outdoor unit
- Multiple system at different sites can be managed in exactly the same way, thus offering simplified commissioning for key accounts.
- Initial setting on the outdoor unit can be easily retrieved.

Outdoor unit sequencing technology

Automatic sequencing operation

During start-up, the Daikin VRV X unit sequencing operation will be automatically enabled to ensure balanced operation of each outdoor unit to improve longevity of equipment and stable operation.



Double backup operation functions responding resiliently to various unexpected situations

Double backup operation functions

Daikin VRV X system boasts double backup operation functions, which can secure the use of air conditioners in this area to the greatest extent by emergently enabling double backup operation functions even if failure occurs in a set of airconditioning equipment.

In the event of a failure, emergency operation can be enabled conveniently to allow the remaining system to operate in a limited fashion

Emergency

operation

Malfunction

Compressor Backup Operation Function

If malfunction occurs in a compressor...

Emergency operation can be easily set and enabled by the outdoor unit (for a single outdoor unit system RXQ16-20ARY6 models).

Unit backup operation function

If malfunction occurs in an outdoor unit emergency operation can be conveniently set and enabled by the remote controller for indoor unit (for systems composed of two or more outdoor units).



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

1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. Various conditions and requirements have to be met to allow utilisation of 90 m piping length

2. When level differences are 50 m or more, the diameter of the main liquid piping size must be increased. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required.

Connection ratio







VRV 🗡



Note: The above is just a schematic diagram

Conditions of VRV indoor unit connection capacity

		1 /		
able oor units	FXDQ,	FXMQ-PA,	FXAQ, models	Other VRV indoor unit models*1
loor units		0000	/	200%
door units		200%	0	160%
oor units				130%

*1 For the FXFQ25 and FXVQ models, maximum connection ratio is 130% for the entire range of outdoor units. Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the *Refer to page 54 for outdoor unit combination details.

OUTDOOR UNIT LINEUP



High external static pressure

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





VRV X **Outdoor Units** • Double Outdoor Units 18, 20 HP 22, 24 HP 14, 16 HP 26, 28, 30, 32 HP RXQ14ARY6 RXQ16ARY6 RXQ18ARY6 RXQ20ARY6 RXQ22ARY6 RXQ24ARY6 RXQ26ARY6 RXQ28ARY6 RXQ30ARY6 RXQ32ARY6 • Triple Outdoor Units 42, 44 HP 46, 48, 50, 52, 54, 56, 58, 60 HP RXQ42ARY6 RXQ46ARY6 RXQ44ARY6 RXQ48ARY6 RXQ50ARY6 RXQ52ARY6 RXQ54ARY6 RXQ56ARY6

The outdoor unit capacity is up to 60 HP in increment of 2 HP. • VRV X outdoor unit offers a higher capacity of up to 60 HP, responding to the needs of large-sized buildings. • The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system flexibility to a new level. • With the outdoor unit capacity increased in increment of 2 HP, customers' needs can be precisely met. • Outdoor units with anti-corrosion specifications (-E type on request) are designed specifically for use in areas which are subject to salt damage and atmospheric pollution. 6, 8, 10, 12 HP RXQ6ARY6 RXQ8ARY6 RXQ10ARY6 RXQ12ARY6 • Double Outdoor Units 34, 36, 38, 40 HP RXQ34ARY6 RXQ38ARY6 RXQ36ARY6 RXQ40ARY6

Standard Type









Lineup

HP	6	8	10	12	14	16	18	20	22	24	2
Cooling only	•	•	•	0	•	•	•	•	•	•	(



RXQ58ARY6

RXQ60ARY6

Enhanced Range Of Choices

A variety of VRV indoor units are enabled in one system, opening the door to stylish and quiet indoor units.



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

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type (Optional) FXFQ-SVM



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

Ceiling Mounted Cassette (Round Flow)

FXFQ-AVM

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

Ceiling Mounted Cassette Corner Type

FXEQ-AVE

Slim design for flexible installation



High external static pressure allows flexible installations









VRV Indoor Units

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

FXFQ255 / FXFQ325 / FXFQ405 FXFQ50S / FXFQ63S / FXFQ80S **FXFQ1005 / FXFQ1255**

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 human presence and adjusts the airflow • direction automatically to prevent drafts. Energy saving control can be performed when no people are detected.



Infrared floor sensor

Energy efficiency has been improved. Thanks to • The sensor detects the floor temperature and automatically the adoption of a new heat exchanger with adjusts operation of the indoor unit to reduce the smaller tubes, DC fan motor and DC drain pump temperature difference between the ceiling and the floor. motor

Individual airflow direction control

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











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



- Low operation sound level

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

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

	850 mm

VRV Indoor Units

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

Sensing function

Auto airflow rate mode + Auto airflow direction mode

• Floor temperature is detected and over cooling prevented.



Energy savings

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

Comfortable airflow

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

Sensing sensor mode

Sensing sensor low mode

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



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

Sensing sensor stop mode *1.2

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

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

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

Airflow block function

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



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



• New airflow block function prevents uncomfortable drafts by reducing air velocity.

It can be set using the BRC1E62 remote controller. There is no need for sealing material of air discharge outlet (option).

- This function only works when all-round flow is used. It cannot be used when sealing material is used in the air discharge outlet (option).
- Easy setup with remote controller



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



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

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow) Type

FXFQ25AV / FXFQ32AV / FXFQ40AV FXFQ50AV / FXFQ63AV / FXFQ80AV FXFQ100AV / FXFQ125AV / FXFQ140AV

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





YRY







The illustration shows typical airflow.



Three technologies that achieved circulation airflow

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

Use of new wide flaps (Straight)



maintained to realize a more horizontal airflow angle.





VRV





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



VRV Indoor Units

Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ20M / FXZQ25M / FXZQ32M FXZQ40M / FXZQ50M

Quiet, compact, and designed for user comfort

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

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

Comfortable airflow

 Wide discharge angle: 0° to 60° Auto swing







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

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



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







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



VRV Indoor Units

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

- Designed with higher airflow suitable for high ceiling application up to 3 metres.
- Providing 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 filters are available (65% and 95%, colourimetric method).
- A long-life filter is equipped as a 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.

VRV Indoor Units

Ceiling Mounted Cassette Corner Type

FXEQ20AV / FXEQ25AV FXEQ32AV / FXEQ40AV FXEQ50AV / FXEQ63AV

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





VRV Indoor Units

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 for installation in limited spaces like drop-ceilings in hotels.





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

low operation sound level

Low operation sound	[GD[/ 1]]			
FXDQ-PB/NB	20/25/32	40	50	63
Sound level (HH/H/L)	33/31/29	34/32/30	35/33/31	36/34/32

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



FXDQ40NB / FXDQ50NB / FXDQ63NB

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



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



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 with a drain pump as a standard accessory. FXDQ-PB/NBVE: with a drain pump (750 mm lift) as a standard



accessory

(dR(A))

VRV Indoor Units

Ceiling Mounted Duct Type

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

Middle and high static pressure allows for flexible duct design

• A DC fan motor increases the external static pressure capacity range to include middle to high static pressures, increasing design flexibility.

30 Pa-100 Pa for FXMQ20P-32P 30 Pa-160 Pa for FXMQ40P 50 Pa-200 Pa for FXMQ50P-125P 50 Pa-140 Pa for FXMQ140P

All models are only 300 mm in height, an improvement over the 390 mm height of conventional models. The weight of the FXMQ40P has been reduced from 44 kg to 28 kg.

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



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

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

Energy-efficient

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





YRY



∼Ceilina

dB(A) 140

Improved ease of installation

Airflow rate can be controlled using a remote controller during test operations. With the conventional model, the airflow rate was controlled from the PC board. It is automatically adjusted to the range between approximately ±10% of the rated HH tap airflow for FXMQ20P-125P.

Improved ease of maintenance

• The drain pan can be detached for easy cleaning. An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.

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.

VRV Indoor Units

Ceiling Suspended Type

FXHQ32MA / FXHQ63MA FXHQ100MA



Slim body with quiet and wide airflow



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

Installation is easy

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



• Wide air discharge openings produce a spreading 100° airflow





Maintenance is easy

• Non-dew flap with no implanted bristles Bristle-free flap minimises contamination



Non-dew Flap

• Easy-to-clean flat design

- Maintenance is easier because everything can be performed from below the unit.
- A long-life filter is equipped as standard accessory. * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m3

VRV Indoor Units

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.

I	Low operation s	sound level					
	FXAQ-P	20	25	32	40	50	
	Sound level (H/L)	35/31	36/31	38/31	39/34	42/37	4

- Drain pan and air filter can be kept clean by mould-proof polystyrene.
- Vertical auto-swing realises efficiency of air distribution. The louvre closes automatically when the unit stops.
- 5 steps of discharge angle can be set by remote controller.
- Discharge angle is automatically set at the same angle as the previous operation when restarting. (Initial setting: 10° for cooling)

Flexible installation

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





63 47/41

(dB(A))

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



VRV Indoor Units

Floor Standing Type

FXLQ32MA / FXLQ50MA FXLQ63MA



Suitable for perimeter zone airconditioning

- Floor Standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.
- The adoption of a fibre-less discharge grille, featuring an original design to prevent condensation, also helps prevent staining and makes cleaning easier.
- A long-life filter is equipped as standard accessory. * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m3

Concealed Floor Standing Type

FXNQ32MA / FXNQ50MA FXNQ63MA



Designed to be concealed in the perimeter skirting-wall

(FXLQ-MA)

- The unit is concealed in the skirting-wall of the perimeter, that creates a classy interior design
- The connecting port faces downwards, greatly facilitating on-site piping work.
- A long-life filter is equipped as a standard accessory.
- * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m3



VRV Indoor Units

Floor Standing Duct Type

FXVQ125N / FXVQ200N FXVQ250N / FXVQ400N FXVQ500NY16

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

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

Duct connection airflow type

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

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

Direct airflow type

- The high static pressure type driven by the belt drive system allows for use of air discharge outlets in various shapes as well as long ducts. Highly flexible installation is possible.
- High maintainability design that allows major services and maintenance services to be performed at the front.
- A long-life filter is equipped as a standard accessory. * 8 hr/day, 26 day/month. For dust concentration of 0.15 mg/m3
- A wide range of optional accessories are available such as high-efficiency filters.
- Outdoor air intake mode is useable as an outdoor-air processing airconditioner. *When using the unit as an outdoor-air processing unit, there are some restrictions







4-Way Flow Ceiling Suspended Type

FXUQ71A / FXUQ100A



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

02 .

- Unit body and suction panel adopted round shapes and realized a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bore ceilings.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198 mm for all models that gives the unified impression even when models with different capacities are installed in the same area.
- Built-in electronic expansion valve eliminates the need for a BEV unit, which improves flexibility of installation.



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

Individual airflow direction example case





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









VRV Indoor Units

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



	MODEL		FXFQ25SVM	FXFQ32SVM	FXFQ40SVM	FXFQ50SVM	FXFQ63SVM	FXFQ80SVM	FXFQ100SVM	FXFQ125SVM	
Power supply						1-phase, 220·	240 V, 50 H	z			
Cooling canaci	b.	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	
Cooling capacity		kW	2.8	2.8 3.6 4.5 5.6 7.1 9.0					11.2	14.0	
Casing				Galvanised steel plate							
A:	(44.(1))	m³/min	12.5/11.5/10.0	12.5/11.5/10.0	14.5/13.0/11.0	22.0/17.5/13.5	23.5/18.5/13.5	23.5/19.5/15.0	33.0/26.0/19.0	34.5/27.5/21.0	
Airflow rate (H	/ M(/ L)	cfm	441/406/353	441/406/353	512/459/388	777/618/477	830/653/477	830/688/530	1,165/918/671	1,218/971/741	
Sound level (H/M/L)		dB(A)	30/28.5/27	30/28.5/27	31/29/27	36/32/28	38/33/28	38/35/31	44/38/32	45/40/35	
Dimensions (H>	(WxD)	mm	246×840×840						288×84	40×840	
Machine weigh	t	kg	19			23		2	26		
	Liquid (Flare)		ø 6.4				Ø	Ø 9.5			
Piping connections	Gas (Flare)	mm		Øl	2.7			Ø 15.9			
connections	Drain					I.D. Ø25×0.	D. Ø32(VP25)				
Model						BYCQ12	25B-W1				
Panel Colour						Fresh	white				
(Option)	Option) Dimensions(H×W×D)					50×95	0×950				
	Weight	kg				5	.5				

Ceiling Mounted Cassette (Round Flow) Type

	MODEL		FXFQ25AVM	FXFQ32AVM	FXFQ40AVM	FXFQ50AVM	FXFQ63AVM	FXFQ80AVM	FXFQ100AVM	FXFQ125AVM	FXFQ140AVM
Power supply						1-phase, 220-	240 V/220-23	0 V, 50/60 Hz			
Cooling capacity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
Cooling capacity		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Casing						Ga	lvanised steel p	late			
Airflow rate (HH/H/	A /AA /AAI /I \	m³/min	13/12.5/1	11.5/11/10	15/14/13/12/11	17.5/15/13.5/12.5/11	20/18.5/16.5/15/13.5	22.5/21/19/17/15	32/29/26/23/20	33/30.5/28/25.5/22.5	35.5/32.5/29.5/26.5/23
Alfilow rale (HH/H/	(/////////////////////////////////////	cfm	459/441/4	06/388/353	530/494/459/424/388	618/530/477/441/388	706/653/582/530/477	794/741/671/600/530	1,130/1,024/918/812/706	1,165/1,077/988/900/794	1,253/1,147/1,041/935/812
Sound level (HH/HA	n/m/ml/l)	dB(A)	30/29.5/2	28.5/28/27	31/30/29/28/27	34/31/29.5/28.5/27	34.5/33/31/29.5/28	37/35.5/33.5/31.5/29.5	43/40.5/37.5/35/32	44/41.5/39/36.5/34	46/43.5/40.5/38/35
Dimensions (H×W×I)	mm	256×840×840 298×840					298×840×840)		
Machine weight		kg	19				23 26				
	Liquid (Flare)			Ø	6.4	Ø 9.5					
Piping	Gas (Flare)	mm		Øl	2.7				ø 15.9		
connections Drain						VP25 (Extern	nal Dia, 32/Inte	ernal Dia, 25)			
Model						BYCQ	125EAF(Fresh	White)			
Panel	Dimensions(H×W×D)	mm					50X950X950				
(Option)	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.
 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



	MODE	L		FXZQ20MVE	FXZQ25MVE	FXZQ32MVE	FXZQ40MVE	FXZQ50MVE	
Power supp	ly				1-pha	se, 220-240 V/220 V,	50 Hz		
Casling	a naih i		Btu/h	7,500	9,600	12,300	15,400	19,100	
Cooling capacity Casina			kW	2.2					
Casing						Galvanised steel plate			
Airflow rate (H/L)		m³/min	9,	/7	9.5/7.5	11/8	14/10		
Airtlow rate (H/L)		cfm	318,	/247	335/265	388/282	493/353		
Sound level (H/L) 230 V		230 V	dB(A)	30/25		32/26	36/28	41/33	
Dimensions	(H×W×D)		mm	286×575×575					
Machine we	eight		kg	18					
	Liquid (Flar	e)				Ø 6.4			
Piping connections	Gas (Flare)		mm			ø 12.7			
Drain				VP20 (E)	ternal Dia, 26/Internal	Dia, 20)			
Model					BYFQ60B8W1				
Panel Colour					White (6.5Y9.5/0.5)				
(Option)	Dimensions	(H×W×D)	mm			55×700×700			
	Weight		kg			2.7			

Note: Specification are based on the following conditions;

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







VRV Indoor Units

Ceiling Mounted Cassette (Double Flow) Type



	MODEL		FXCQ20MVE	FXCQ25MVE	FXCQ32MVE	FXCQ40MVE	FXCQ50MVE	FXCQ63MVE	FXCQ80MVE	FXCQ125MVE	
Power supply			1-phase, 220-240 V/220 V, 50 Hz								
<u>c i:</u>		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	47,800	
Cooling capacit	ooling capacity		2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0	
Casing				Galvanised steel plate							
		m³/min	7/5	9/6.5	9/6.5	12/9	12/9	16.5/13	26/21	33/25	
Airflow rate (Ht	H/M/L)	cfm	247/177	318/230	318/230	424/318	424/318	582/459	918/741	1,165/883	
Sound level (H/	'L) 220 V	dB(A)	32/27	34/28	34/28	34/29	34/29	37/32	39/34	44/38	
Dimensions (H×	:WxD)	mm	305×775×600	305×775×600	305×775×600	305×990×600	305×990×600	305×1,175×600	305×1,665×600	305×1,665×600	
Machine weigh	t	kg	26.0	26.0	26.0	31.0	32.0	35.0	47.0	48.0	
	Liquid (Flare)		Ø 6.4	Ø 6.4	Ø 6.4	Ø 6.4	Ø 6.4	Ø 9.5	Ø 9.5	Ø 9.5	
Piping connections	Gas (Flare)	mm	Ø 12.7	Ø 12.7	Ø 12.7	Ø 12.7	Ø 12.7	Ø 15.9	Ø 15.9	Ø 15.9	
connections	Drain	1			VP25	External Dia,	32/Internal D	ia, 25)			
	Model			BYBC32G-W1		BYBC5	0G-W1	BYBC63G-W1	BYBC12	25G-W1	
Panel	Colour					White (1	0Y9/0.5)				
(Option) Dimensions(H×W×D)		mm	53×1,030×680	53×1,030×680	53×1,030×680	53×1,245×680	53×1,245×680	53×1,430×680	53×1,920×680	53×1,920×680	
	Weight	kg	8.0	8.0	8.0	8.5	8.5	9.5	12.0	12.0	

Slim Ceiling Mounted Duct Type (700 mm width type)



MODEL	with dra	in pump	FXDQ20PBVE	FXDQ25PBVE	FXDQ32PBVE		
Power supply				1-phase, 220-240 V/220 V, 50 Hz			
Cooling capa	city	Btu/h	7,500	9,600	12,300		
coomig capa			2.2	2.8	3.6		
Casing	Casing			Galvanised steel plate			
A: []		m³/min	8.0/7.2/6.4	8.0/7.2/6.4	8.0/7.2/6.4		
Airflow rate (HH/H/L)		cfm	282/254/226	282/254/226	282/254/226		
External static	pressure	Pa	30-10*2				
Sound level (H	HH/H/L) ★1★3	dB(A)	33/31/29	33/31/29	33/31/29		
Dimensions (H	H×W×D)	mm	200×700×620	200×700×620	200×700×620		
Machine weig	ght	kg	23.0	23.0	23.0		
Liquid (Flare)			Ø 6.4	Ø 6.4	Ø 6.4		
Piping connections	Gas (Flare)	mm	Ø 12.7	ø 12.7	Ø 12.7		
connections	Drain	1	١	/P20 (External Dia, 26/Internal Dia, 20)			

Ceiling Mounted Cassette Corner Type



MC	DDEL			FXEQ20AV36	FXEQ25AV36	FXEQ32AV36	FXEQ40AV36	FXEQ50AV36	FXEQ63AV36		
Power supply						1-phase, 23	30V, 50 Hz				
Cooling Capa	acit.		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200		
Cooling Cape	ucity		kW	2.2	2.8	3.6	4.5	5.6	7.1		
Casing/Colou	Casing/Colour			Galvanised steel plate							
Dimensions (HxWxD)		mm		200x84	l0x470		200x12	40x470			
Airflow Rate			m³/min	6.0/5.4/4.9/4.4/4.	6.9/6.4/5.8/5.3/4.	8.0/7.5/7.0/6.3/5.	9.8/8.8/7.8/7.0/6.	12.5/11.4/10.4/9.5/8.	15.0/13.6/12.2/11.4/9.8		
(H/HM/M/N	NL/L)	Cooling	cfm	212/191/173/155/14	244/226/205/187/16	282/265/247/222/19	346/311/275/247/21	441/402/367/335/30	530/480/431/388/346		
	Liquid	Pipes	mm	6.4 (Flare Connection)	6.4 (Flare Connection)	6.4 (Flare Connection)	6.4 (Flare Connection)	6.4 (Flare Connection)	9.5 (Flare Connection)		
Piping	Gas Pi	ipes	mm	12.7 (Flare Connection)	12.7 (Flare Connection)	12.7 (Flare Connection)	12.7 (Flare Connection)	12.7 (Flare Connection)	15.9 (Flare Connection)		
connections	Drain	Pipe	mm	PVC 26 (External dia. 26) (Internal dia. 20)							
Mass			Kg	17	17	17	18	23	23		
Sound Pressu (H/HM/M/ML/	re Level /L)	Cooling	dB (A)	30/29/28/27/26	32/31/30/29/28	35/34/33/32/30	38/37/35/33/31	38/37/35/33/31	43/41/39/37/35		
		Model		BYEP40AW16	BYEP40AW16	BYEP40AW16	BYEP40AW16	BYEP63AW16	BYEP63AW16		
Panel Colou		r			Fresh	White					
Decoration Panel Dimensions (Options) Dimensions (HxWxD)		mm		80x95	0x550		80x135	50x550			
		Air Fi l ter				Resin net (with mo	ould resistance)				
		Mass	Kg		8			1	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: Om
 Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
 Sound level: (FXCQ-M) Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 (FXEQ-AV) Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

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

MODEL	with dra	n pump	FXDQ40NBVE	FXDQ50NBVE	FXDQ63NBVE
Power supply	·			1-phase, 220-240 V/220 V, 50 Hz	
Cooling capa	city	Btu/h	15,400	19,100	24,200
Cooling capacity Casing Airflow rate (HH/H/L) External static pressure		kW	4.5	5.6	7.1
				Galvanised steel plate	
		m³/min	10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
		cfm	371/335/300	441/388/353	583/512/459
		Pa		44-15 ^{*2}	
Sound level (H	Sound level (HH/H/L) *1*3		34/32/30	35/33/31	36/34/32
Dimensions (H	l×W×D)	mm	200×900×620	200×900×620	200×1,100×620
Machine weig	jht	kg	27.0	28.0	31.0
	Liquid (Flare)		Ø 6.4	Ø 6.4	Ø 6.4
Piping Connections Gas (Flare)		mm	Ø 12.7	Ø 12.7	Ø 12.7
connocitorio	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.
Copacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
* 1: Values are based on the following conditions: FXDQ-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 aperation and by adding 5 dB(A).



VRV Indoor Units

Ceiling Mounted Duct Type



	MODEL		FXMQ20PVE	FXMQ25PVE	FXMQ32PVE	FXMQ40PVE	FXMQ50PVE			
Power supply	,		1-phase, 220-240 V/220 V, 50 Hz							
Cooling capa	city	Btu/h	7,500	9,600	12,300	15,400	19,100			
coomig capa		kW	2.2	2.8	3.6	4.5	5.6			
Casing					Galvanised steel plate					
A: (I		m³/min	9/7.5/6.5	9/7.5/6.5	9.5/8/7	16/13/11	18/16.5/15			
Airflow rate (HH/H/L)	cfm	318/265/230	318/265/230	335/282/247	565/459/388	635/582/530			
External static	pressure	Pa	30-100 (50) ^{*2}	30-100 (50) *2	30-100 (50) ^{*2}	30-160 (100) ^{*2}	50-200 (100) ^{*2}			
Sound level (H	HH/H/L)	dB(A)	33/31/29	33/31/29	34/32/30	39/37/35	41/39/37			
Dimensions (H	H×W×D)	mm	300X550X700	300X550X700	300X550X700	300X700X700	300X1,000X700			
Machine weig	ght	kg	25	25	25	28	36			
	Liquid (Flare)		Ø 6.4	Ø 6.4	Ø 6.4	Ø 6.4	Ø 6.4			
Piping connections	Gas (Flare)	mm	ø 12.7	Ø 12.7	Ø 12.7	Ø 12.7	Ø 12.7			
connocitoris	Drain			VP25 (Exter	nal Dia, 32/Internal Dia, 25	5)				

Ceiling Mounted Duct Type

мо	DEL		FXMQ170NVE6	FXMQ200NVE6	FXMQ250NVE6
Power supply Cooling capacity Casing Airflow rate (H/L) External static pressure				1-phase, 220, 240 V/220 V, 50 Hz	
Coolina capa	Cooling capacity Casing Airflow rate (H/L) External static pressure		65,800	76,400	95,500
· · ·		kW	19.3	22.4	28
Casing				Galvanised steel plate	
		m³/min	58/50	65/58	80/73
Airflow rate (H/L)		cfm	2,047/1,765	2,295/2,047	2,825/2,578
External static	External static pressure		100-140 ^{*2}	100-200*2	190-270* ²
Sound level (H	I/L) 220V	dB(A)	45/42	47/45	49/47
Dimensions (H	l×W×D)	mm	440x1,190x1,090	440x1,190x1,090	440x1,490x1,090
Machine weig	Machine weight Liquid (Flare)		110	110	130
			ø 9.5	ø 9.5	Ø 9.5
Piping			ø 19.1	ø 19.1	ø 22.2
connections	Drain	1		External Dia 32	

	MODEL		FXMQ63PAVE	FXMQ80PAVE	FXMQ100PAVE	FXMQ125PAVE	FXMQ140PAVE
Power supply				1-p	hase, 220-240 V/220 V, 50	Hz	
Cooling capa	rity	Btu/h	24,200	30,700	38,200	47,800	54,600
coomig capa		kW	7.1	9.0	11.2	14.0	16.0
Casing					Galvanised steel plate		
A: fl . //		m³/min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
Airflow rate (H	HH/H/L)	cfm	688/618/565	883/794/706	1,130/953/812	1,377/1,165/988	1,624/1,377/1,130
External static	pressure	Pa	50-200 (100)* ²	50-200 (100)* ²	50-200 (100)* ²	50-200 (100)* ²	50-140 (100)* ²
Sound level (H	IH/H/L)	dB(A)	42/40/38	43/41/39	43/41/39	44/42/40	46/45/43
Dimensions (H	l×W×D)	mm	300x1,000x700	300x1,000x700	300x1,400x700	300x1,400x700	300x1,400x700
Machine weig	lht	kg	36	36	46	46	47
	Liquid (Flare)		9.5	9.5	9.5	9.5	9.5
Piping connections	Gas (Flare)	mm	15.9	15.9	15.9	15.9	15.9
Connections	Drain			VP25 (External Dia, 32/Internal [Dia, 25)	

Note: Specifications are based on the following conditions

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

* 1: Power consumption values are based on conditions of rated external static pressure.
 * 2: External static pressure con be modified using a remote controller hird offers seven [FXMQ20-32P], thirteen [FXMQ40P], fourteen [FXMQ50-125P) or ten (FXMQ140P) levels of control. These values indicate the lowest and highest possible static pressures. The standard static pressure is 50 Pa for FXMQ20-32P and 100 Pa for FXMQ40-140P

Ceiling Suspended Type



мо	DEL		FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE
Power supply				1-phase, 220-240 V/220 V, 50 H	z
Cooling capacity		Btu/h	12,300	24,200	38,200
eeening eepe		kW	3.6	7.1	11.2
Casing				White (10Y9/0.5)	
A: []		m³/min	12/10	17.5/14	25/19.5
Airflow rate (I	H/L)	cfm	424/353	618/494	883/688
Sound level (H	1/L) 220V	dB(A)	36/31	39/34	45/37
Dimensions (H	H×W×D)	mm	195×960×680	195×1,160×680	195×1,400×680
Machine weig	ght	kg	24.0	28.0	33.0
	Liquid (Flare)		Ø 6.4	Ø 9.5	Ø 9.5
Piping connections	Gas (Flare)	mm	ø 12.7	Ø 15.9	Ø 15.9
	Drain	1	V	P20 (External Dia, 26/Internal Dia,	20)

Note: Specifications are based on the following conditions

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

Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.

Capacity of indoor unit is only for reterence. Actual capacity of indoor unit is based on the total capacity in itex.
 Sound level: [FXMQ-MA] Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 [FXHQ-MA] Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions
 1: Power consumption values are based on conditions of standard external static pressure.
 2: External static pressure is changeable to change over the connectors inside electrical box, this pressure means "Standard-High static pressure".





VRV Indoor Units

4-way Flow Ceiling Suspended Type



MC	DDEL		FXUQ71AVEB	FXUQ100AVEB
Power supply	,		1-phase, 220-240 \	//220-230V, 50 Hz
Cooling cape	icity	Btu/h	27,300	38,200
		kW	8.0	11.2
Casing	Casing		Fresh	white
		m³/min	22.5/19.5/16	31/26/21
Airflow rate (H/L)	cfm	794/688/565	1,094/918/741
Sound level (H	H/M//L)	dB(A)	40/38/36	47/44/40
Dimensions (I	H×W×D)	mm	198×9	50×950
Machine weig	ght	kg	26	27
Liquid (Flare)			ç	2.5
Piping connections	Gas (Flare)	mm	1:	5.9
	Drain	1	VP20 (External Dia,	26/Internal Dia, 20)

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

Wall Mounted Type

	MODEL		FXAQ20PVE	FXAQ25PVE	FXAQ32PVE	FXAQ40PVE	FXAQ50PVE	FXAQ63PVE		
Power s	ıpply				1-phase, 220-240	0 V/220 V, 50 Hz				
Cooling	Cooling capacity		7,500	9,600	12,300	15,400	19,100	24,200		
cooling			2.2	2.8	3.6	4.5	5.6	7.1		
Casing			White (3.0Y8.5/0.5)							
A :	Airflow rate (H/L)		7.5/4.5	8/5	8.5/5.5	12/9	15/12	19/14		
Airtiow	are (H/L)	cfm	265/159	282/177	300/194	424/318	530/424	671/494		
Sound le	vel (H/L)	dB(A)	35/31	36/31	38/31	39/34	42/37	47/41		
Dimensi	ons (H×W×D)	mm	290×795×238	290×795×238	290×795×238	290×1,050×238	290×1,050×238	290×1,050×238		
Machine	weight	kg	11.0	11.0	11.0	14.0	14.0	14.0		
	Liquid (Flare)		Ø 6.4	Ø 6.4	Ø 6.4	Ø 6.4	Ø 6.4	Ø 9.5		
Piping	Piping Connections Gas (Flare)		Ø 12.7	Ø 12.7	Ø 12.7	Ø 12.7	Ø 12.7	Ø 15.9		
connecti	Drain	7			VP13 (External Dia,	18/Internal Dia, 13)	-		

Floor Standing Type/Concealed Floor Standing Type



FXNQ

MOD)EI		FXLQ32MAVE	FXLQ50MAVE	FXLQ63MAVE				
mol			FXNQ32MAVE	FXNQ50MAVE	FXNQ63MAVE				
ower supply			1-phase, 220-240 V/220 V, 50 Hz						
ooling capac	itv	Btu/h	12,300	19,100	24,200				
		kW	3.6	5.6	7.1				
asing			FXLQ: Ivory white (5Y7.5/1)/FXNQ: Galvanised steel plate						
rflow rate (H/L)		m³/min	8/6	14/11	16/12				
artiow rate (H	I/ L)	cfm	282/212	494/388	565/424				
ound level (H,	/L) 220V	dB(A)	35/32 39/34		40/35				
imensions	FXLQ	mm	600×1,140×222	600×1,420×222	600×1,420×222				
H×W×D)	FXNQ		610×1,070×220	610×1,350×220	610×1,350×220				
Nachine weigt	FXLQ	- kg	30.0	36.0	36.0				
iuciiiie weigi	" FXNQ	_ ^y	23.0	27.0	27.0				
	Liquid (Flare)		Ø 6.4	Ø 6.4	ø 9.5				
iping	Gas (Flare)	mm	Ø 12.7	Ø 12.7	Ø 15.9				
onnections	Drain	1		21O.D.					

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

• Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.

• Sound level: (FXAQ-P) Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. (FXIQ-MA, FXIQ-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.

Floor Standing Duct Type

	MODEL		FXVQ125NY1	FXVQ200NY1	FXVQ250NY1	FXVQ400NY1	FXVQ500NY16		
Power supply	,			3-phas	e 4-wire system, 380 -415	V, 50 Hz			
c l'	-11	Btu/h	47,800	76,400	95,500	1,54,000	1,91,000		
Cooling capa	icity	kW	14.0	22.4	28.0	45.0	56.0		
Casing colour	r			lvory white (5Y7.5/1)					
Dimensions (HxWxD) Machine weight Airflow rate		mm	1670×750×510	1670×950×510	1670×1170×510	1900×1170×720	1900×1470×720		
		kg	118	144	169	236	306		
		m³/min	43	69	86	134	172		
Alfilow rule		cfm	1,518	2,436	3,036	4,730	6,072		
External static	Pressure*2	Pa	152	217	281	420	390		
Drive system					Belt drive system				
Air Filter	Туре			Long	-life filter (anti-mould resi	n net)			
Sound level *	1	dB(A)	52	56	60	65	66		
	Liquid (Flare)			9.5 (Brazing)		12.7 (Brazing)	15.9 (Brazing)		
Piping connections Gas (Flare)		mm	15.9 (Brazing)	19.1 (Brazing)	22.2 (Brazing)	28.6 (Br	azing)		
	Drain	1 [Rp1 (PS 1B internal thread	i)			

Notes: Specifications are based on the following conditions;

• Cooling : Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. * 1 Sound level : measured when the air discharge outlet due (2 m) is attached (anechoic chamber conversion value). It increases by approximately 5 dB(A) when the plenum chamber is installed to deliver direct airflow.
*2 The value is the external static pressure with standard pulley.



Outdoor Units

VRV X

	MODEL		RXQ6ARY6	RXQ8ARY6	RXQ10ARY6	RXQ12ARY6	RXQ14ARY6	RXQ16ARY6	
Combination u	nits		_	_	_				
Power supply					3-phase, 380-	415 V, 50 Hz	1	1	
		Btu/h	54,600	76,400	95,500	1,14,000	1,36,000	1,54,000	
Cooling capac	ity	kW	16.0	22.4	28.0	33.5	40.0	45.0	
Capacity contro	ol	%	25~100	20~100	13~100	12~100	11~100	10~100	
Casing colour					lvory white	(5Y7.5/1)	1	1	
	Туре				Hermetically Sec	aled Scroll Type			
Compressor	No. of compressor		1	1	1	1	1	2	
Airflow rate		m ³ /min	119	12	78	191	2	57	
Dimensions (H	×W×D)	mm		1,657X9	930X765		1,657X1,240X765		
Machine weigh	nt	kg	16	55	17	75	220	260	
Sound level		dB(A)	56	56	57	59	60	60	
Operation range Cooling °CDB		°CDB			10 ~	- 49	1	1	
Pofrigorent	Туре				R4	10A			
Refrigerant	Charge	kg	5.	9	6.7	6.8	7.4	8.2	
Piping	Liquid	mm		ø 9.5			ø 12.7		
connections	Gas	mm	ØĨ	9.1	ø 22.2		Ø 28.6		

Cooling Only

VRV X

MODEL			RXQ18ARY6	RXQ20ARY6	RXQ22ARY6	RXQ24ARY6	
			_	_	RXQ10ARY6	RXQ12ARY6	
Combination u	nits		_	_	RXQ12ARY6	RXQ12ARY6	
				—			
Power supply				3-phase, 380-	415 V, 50 Hz		
Cooling capac	ity	Btu/h	1,71,000	1,91,000	2,10,000	2,29,000	
cooling copue	,	kW	50.0	56.0	61.5	67.0	
Capacity control %		%	10~100	7~100	6~	100	
Casing colour				lvory white	(5Y7.5/1)		
	Туре			Hermetically Sea	led Scroll Type		
Compressor	No. of compressor		2	2	1+1	1+1	
Airflow rate		m³/min	257	297	178+191	191+191	
Dimensions (H	«W×D)	mm	1,657X1,240X765		(1,657X930X765)+(1,657X930X765)		
Machine weigh	nt	kg	260	285	175+	175	
Sound level		dB(A)	61	65	61	62	
Operation range Cooling °CDB		°CDB		10 ~	49		
D ()	Туре			R41	0A		
Refrigerant	Charge	kg	8.4	11.8	6.7+6.8	6.8+6.8	
Piping	Liquid	mm		øl	5.9		
connections	Gas	mm		ø 28.6		ø 34.9	

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
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.

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



Outdoor Units

VRV X

MODEL			RXQ26ARY6	RXQ28ARY6	RXQ30ARY6	RXQ32ARY6	RXQ34ARY6	RXQ36ARY6
			RXQ12ARY6	RXQ12ARY6	RXQ12ARY6	RXQ14ARY6	RXQ16ARY6	RXQ18ARY6
Combination u	nits		RXQ14ARY6	RXQ16ARY6	RXQ18ARY6	RXQ18ARY6	RXQ18ARY6	RXQ18ARY6
								_
Power supply			3-phase, 380–415 V, 50 Hz					
Cooling capacity		Btu/h	2,47,000	2,68,000	2,85,000	3,05,000	3,24,000	3,41,000
		kW	73.5	78.5	83.5	90	95.0	100
		%	6~100	5~100	5~100	5~100	4~100	5~100
Casing colour					lvory white	(5Y7.5/1)		
	Туре							
Compressor	No. of compressor		1+1	1+2	1+2	1+2	2+2	2+2
Airflow rate	I	m³/min	191+257	191+257	191+257	257+257	257+257	257+257
Dimensions (H>	:WxD)	mm	(1,657X93	0X765)+(1,657X1,	240X765)	(1,657X1,2	240X765)+(1,657X	1,240X765)
Machine weigh	t	kg	175+220	175+	260	220+260	260+2	260
Sound level		dB(A)		63			64	
Operation range	Cooling	°CDB			10 ~	- 49		
D ()	Туре				R41	10A		
Refrigerant	Charge	kg	6.8+7.4	6.8+8.2	6.8+8.4	7.4+8.4	8.2+8.4	8.4+8.4
Piping	Liquid	mm	Ø 19.1	ø 19.1	ø 19.1	ø 19.1	ø 19.1	Ø 19.1
connections	Gas	mm	Ø 34.9	ø 34.9	Ø 34.9	Ø 34.9	Ø 34.9	ø 41.3

Cooling Only

VRV X

RXQ38ARY6	RXQ40ARY6	RXQ42ARY6	RXQ44ARY6	RXQ46ARY6	RXQ48ARY6	RXQ50ARY6
RXQ18ARY6	RXQ20ARY6	RXQ12ARY6	RXQ12ARY6	RXQ14ARY6	RXQ14ARY6	RXQ14ARY6
RXQ20ARY6	RXQ20ARY6	RXQ12ARY6	RXQ12ARY6	RXQ14ARY6	RXQ16ARY6	RXQ18ARY6
	_	RXQ18ARY6	RXQ20ARY6	RXQ18ARY6	RXQ18ARY6	RXQ18ARY6
		3-	phase, 380–415 V, 50	Hz		
3,62,000	3,82,000	3,99,000	4,20,000	4,40,000	4,57,000	4,78,000
106	112	117	123	129	134	140
4~100	4~100	4~100	3~100	4~100	3~100	3~100
			lvory white (5Y7.5/1)			
		Hen	metically Sealed Scroll	Гуре	ſ	
2+2	2+2	1+1+2	1+1+2	1+1+2	1+1+2	1+2+2
257+297	297+297	191+191+257	191+191+297	257+25	7+257	257+257+257
(1,657X1,24 (1,657X1,2		(1,657X930X765)+ (1,657X930X765)+ (1,657X1,240X765)			(1,657X1,240X765)- (1,657X1,240X765)- (1,657X1,240X765)	F
260+285	285+285	175+175+260	175+175+285	220+220+260	220+260+260	220+260+260
66	68	65	67	65	65	65
			10 ~ 49			
			R410A			
8.4+11.8	11.8+11.8	6.8+6.8+8.4	6.8+6.8+11.8	7.4+7.4+11.8	7.4+8.2+8.4	7.4+8.4+8.4
Ø 19.1	Ø 19.1	Ø 19.1	Ø 19.1	Ø 19.1	Ø 19.1	Ø 19.1
Ø 41.3	Ø 41.3	Ø 41.3	Ø 41.3	Ø 41.3	Ø 41.3	Ø 41.3

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



Outdoor Units

VRV X

MODEL			RXQ52ARY6	RXQ54ARY6	RXQ56ARY6	RXQ58ARY6	RXQ60ARY6	
			RXQ16ARY6	RXQ18ARY6	RXQ18ARY6	RXQ18ARY6	RXQ20ARY6	
Combination (units		RXQ18ARY6	RXQ18ARY6	RXQ18ARY6	RXQ20ARY6	RXQ20ARY6	
			RXQ18ARY6	RXQ18ARY6	RXQ20ARY6	RXQ20ARY6	RXQ20ARY6	
Power supply				3-phas	se, 380–415 V, 50 Hz			
Cooling capa	city	Btu/h	4,95,000	5,12,000	5,32,000	5,53,000	5,73,000	
0 1	,	kW	145	150	156	162	168	
Capacity control		%	3~100	3~100	3~100	3~100	2~100	
Casing colour				lvory	white (5Y7.5/1))		
	Туре			Hermetico	ally Sealed Scroll	Туре		
Compressor	No. of compressor		2+2+2	2+2+2	2+2+2	2+2+2	2+2+2	
Airflow rate		m³/min	257+2	57+257	257+297+297			
Dimensions (H	×W×D)	mm	(1,657)	(1,240X765 + 1	,657X1,240X76	5 + 1,657X1,24	0X765)	
Machine weig	ht	kg	260+20	60+260	260+260+285	260+285+285	285+285+285	
Sound level		dB(A)	65	66	68	69	70	
Operation range	Cooling	°CDB			10 ~ 49			
	Туре	1			R410A			
Refrigerant	Charge	kg	8.2+8.4+8.4	8.4+8.4+8.4	8.4+8.4+11.8	8.4+11.8+11.8	11.8+11.8+11.8	
Piping	Liquid	mm	Ø 19.1	Ø 19.1	Ø 19.1	Ø 19.1	Ø 19.1	
connections	Gas	mm	Ø 41.3	Ø 41.3	Ø 41.3	Ø 41.3	Ø 41.3	

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







OUTDOOR UNIT COMBINATIONS

VRV X

HP	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit *1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
6	150	RXQ6A	RXQ6A	_	75 to 195 (300)	9 (15)
8	200	RXQ8A	RXQ8A	_	100 to 260 (400)	13 (20)
10	250	RXQ10A	RXQ10A	_	125 to 325 (500)	16 (25)
12	300	RXQ12A	RXQ12A	_	150 to 390 (600)	19 (30)
14	350	RXQ14A	RXQ14A	_	175 to 455 (700)	22 (35)
16	400	RXQ16A	RXQ16A	—	200 to 520 (800)	26 (40)
18	450	RXQ18A	RXQ18A	_	225 to 585 (900)	29 (45)
20	500	RXQ20A	RXQ20A	—	250 to 650 (1,000)	32 (50)
22	550	RXQ22A	RXQ10A + RXQ12A		275 to 715 (880)	35 (44)
24	600	RXQ24A	RXQ12A x 2		300 to 780 (960)	39 (48)
26	650	RXQ26A	RXQ8A + RXQ18A		325 to 845 (1,040)	42 (52)
28	700	RXQ28A	RXQ12A + RXQ16A		350 to 910 (1,120)	45 (56)
30	750	RXQ30A	RXQ12A + RXQ18A	BHFP22P100	375 to 975 (1,200)	48 (60)
32	800	RXQ32A	RXQ12A + RXQ20A	БПГР22Р100	400 to 1,040 (1,280)	52 (64)
34	850	RXQ34A	RXQ16A + RXQ18A		425 to 1,105 (1,360)	55 (64)
36	900	RXQ36A	RXQ18A x 2		450 to 1,170 (1,440)	58 (64)
38	950	RXQ38A	RXQ18A + RXQ20A		475 to 1,235 (1,520)	61 (64)
40	1,000	RXQ40A	RXQ20A x 2		500 to 1,300 (1,600)	
42	1,050	RXQ42A	RXQ12A x 2 + RXQ18A		525 to 1,365 (1,365)	
44	1,100	RXQ44A	RXQ12A x 2 + RXQ20A		550 to 1,430 (1,430)	
46	1,150	RXQ46A	RXQ12A + RXQ16A + RXQ18A		575 to 1,495 (1,495)	
48	1,200	RXQ48A	RXQ12A+ RXQ18A x 2		600 to 1,560 (1,560)	
50	1,250	RXQ50A	RXQ14A + RXQ18A + RXQ18A	BHFP22P151	625 to 1,625 (1,625)	64 (64)
52	1,300	RXQ52A	RXQ16A + RXQ18A × 2		650 to 1,690 (1,690)	04 (04)
54	1,350	RXQ54A	RXQ18A × 3		675 to 1,755 (1,755)	
56	1,400	RXQ56A	RXQ18A × 2 + RXQ20A		700 to 1,820 (1,820)	
58	1,450	RXQ58A	RXQ18A + RXQ20A × 2		725 to 1,885 (1,885)	
60	1,500	RXQ60A	RXQ20A × 3		750 to 1,950 (1,950)	

Note: *1 For multiple connection of 22 HP systems and above, the outdoor unit multi connection piping kit (separately sold) is required. *2 Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 17 for notes on connection capacity of indoor units.

Option List

Ceiling Mounted Cassette (Round Flow With Sensing) Type (Optional)

No.	Item		Туре	FXFQ25S	FXFQ32S	FXFQ40S	FXFQ50S	FXFQ63S	FXFQ80S	FXFQ100S	FXFQ125S
1	Decoration panel			BYCQ125B-W1							
2	Sealing material of air	discharge outlet					KDBHQ5	5B140			
3	Panel spacer						KDBP55H	1160FA			
		High efficiency fil	KAFP556B80					KAFP55	5B160		
		High efficiency filter unit 90%				KAFP55	7B80			KAFP55	7B160
			efficiency filter 65%	KAFP552B80					KAFP552B160		
4	Filter related	Replacement high	efficiency filter 90%			KAFP55	3B80			KAFP55	3B160
		Filter chamber					KDDFP55	B160			
		Long life replacen	nent filter	KAFP551K160							
		Ultra long-life filte	r	KAFP55B160							
		Replacement ultra	long-life filter				KAFP55H	160H			
		Chamber type	Without T joint-pipe and fan				KDDQ55	B140			-
5	Fresh air intake kit	Fresh air intake kit With T joint-pipe without fan					KDDP55B	160K			
		Direct installation type			KDDP55X160						
6	Branch duct chamber			KDJP55B80					KDJP55E	160	
7	Insulation kit for high h	umidity		KDTP55K80 KDTP55K160					<160		

Ceiling Mounted Cassette (Round Flow) Type

				Туре		Round Flow Type		
lo.	ltem				FXFQ25AVM FXFQ32AVM FXFQ40AVM	FXFQ50AVM FXFQ63AVM FXFQ80AVM	FXFQ100AVM FXFQ125AVM FXFQ140AVM	
1	Decoration panel	Standard panel	Fresh whit	e	BYCQ125EAF *			
2	Soaling mator	ial of air discharge outlet 4	1 Outlet			KDBH551C160		
2	Sealing maler	iai oi ali aischarge oollei	2 Outlet			KDBH552C160		
3	Panel spacer					KDBP55H160FA		
			Chamber	Without T-duct joint	KDDP55B160 (Cor	nponents: KDDP55C160-1	, KDDP55B160-2) 8	
4	Fresh air intak	ie kit	type 5,6	With T-duct joint	KDDP55B160K (Co	mponents: KDDP55C160-	1, KDDP55B160K2) 8	
			Direct inst	allation type 7		KDDP55X160A		
5	High-efficienc	y filter unit ⁹	(Colorimet	ric method 65%)	KAFP5	56C80	KAFP556C160	
Э		Including filter chamber)		ric method 90%)	KAFP557C80		KAFP557C160	
,		Replacement high-efficiency filter 9,10		ric method 65%)	KAFP552B80		KAFP552B160	
6	Replacement r	high-efficiency filter 7.10	(Colorimet	ric method 90%)	KAFP5	53B80	KAFP553B160	
7	Filter chamber					KDDFP55C160		
8	Replacement l	ong-life filter				KAFP551K160		
9		ong-life filter (Auto grille pa	ne l)			KAFP551H161		
10	Ultra long-life	filter unit (Including filter ch	amber) ⁹			KAFP55C160		
11	Replacement u	Itra long-life filter 9,10				KAFP55H160H		
12	Branch duct cl	namber 4			KDJP5	5C80	KDJP55C160	
13	Insulation kit f	or high humidity ^{9,11}			KDTP	55K80	KDTP55K160	
			Wireless	Cooling only		BRC4M150W16		
14	Remote contro	ller	type	Receiver		BRC7M632F-6		
			Wired type	e		BRC1E63		
15	Adaptor for w	riring 12				KRP1C11A		
16	Wiring adapte	or for electrical appendices	12			KRP4AA53		
17	Installation bo	x for adaptor PCB				KRP1H98A		
18	Remote sensor	· (for indoor temperature)				KRCS01-5B		

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

temperature sensing.

The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.
 Please order using the names of both components instead of set name.
 This option cannot be installed to designer panel and auto grille panel.
 Filter chamber is required.
 Please use in case temperature/humidity inside celling may get over 30°C, 80% RH.
 Installation box for adaptor PCB(KRP1H98A) is necessary.

YRY

*These panels do not contain the sensing function.

OPTION LIST

VRV Indoor Units

Ceiling Mounted Cassette (Compact Multi Flow) Type

No.	Item Type	FXZQ20M	FXZQ25M	FXZQ32M	FXZQ40M	FXZQ50M	
1	Decoration panel	BYFQ60B8W1					
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	irect installation type KDDQ44XA60					

Ceiling Mounted Cassette (Double Flow) Type

No.	ltem	Туре	FXCQ20M FXCQ25M FXCQ32M	FXCQ40M	FXCQ50M	FXCQ63M	FXCQ80M	FXCQ125M
1	Decoration panel		BYBC32G-W1	BYBC50G-W1		BYBC63G-W1	BYBC125G-W1	
		High efficiency filter 65% ★ 1	KAFJ532G36	KAFJ5	32G56	KAFJ532G80	KAFJ5	32G160
2	Filter related	High efficiency filter 90%★ 1	KAFJ533G36	KAFJ5	33G56	KAFJ533G80	KAFJ5	33G160
2	Fliter related	Filter chamber bottom suction	KDDFJ53G36	KDDFJ53G56		KDDFJ53G80	KDDF.	53G160
		Long life replacement filter	KAFJ531G36	KAFJ5	31G56	KAFJ531G80	KAFJ5	31G160

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

Ceiling Mounted Cassette Corner Type

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

Slim Ceiling Mounted Duct Type (700 mm width type)

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

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

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

Ceiling Mounted Duct Type

No.	ltem	Туре	FXMQ20P FXMQ25P FXMQ32P	FXMQ40P	FXMQ50P FXMQ63P FXMQ80P	FXMQ100P FXMQ125P FXMQ140P	FXMQ200MA FXMQ250MA
1	Drain pump kit						
2	High efficiency filter	65%	KAF372AA36	KAF372AA56	KAF372AA80	KAF372AA160	KAFJ372L280
2	Figh enciency line	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	
		White	KTBJ25K36W	KTB25KA56W	KTB25KA80W	KTB25KA160W	
6	Service panel	Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	1 -
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T]
7	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A	

VRV Indoor Units

Ceiling Suspended Type

No.	Туре Туре	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-KDU	572EVE		-

Floor Standing Type

No.	Item Type	FXLQ32MA	FXLQ50MA	FXLQ63MA
1	Long life replacement filter	KAFJ361K45	KAFJ3	61K71

Concealed Floor Standing Type

No.	Item Type	FXNQ32MA	FXNQ50MA	FXNQ63MA
1	Long life replacement filter	KAFJ361K45	KAFJ	361K71

Floor Standing Duct Type

No.	Iter	n			Туре	FXVQ125N	FXVQ200N	FXVQ250N	FXVQ400N	FXVQ500N
1		Replacement long lif	e fi l ter			KAFJ261L140	KAFJ261L224	KAFJ261L280	KAFJ261M450	KAFJ261M560
2	1	Ultra long-life filter			-		KAFSJ9A400	KAFSJ9A560		
3	1		Filter chambe	er for high	65%	KDDF-92A140	KDDF-92A200	KDDF-92A280	KDDF-92A400	KDDF-92A560
4	1_		efficiency filte	er *1	90%	KDDF-93A140	KDDF-93A200	KDDF-93A280	KDDF-93A400	KDDF-93A560
5	1ē	Front suction filter	Front suction	base flange		KD-9A140	KD-9A200	KD-9A280	KD-9A400	KD-9A560
6	d Su	chamber for High	Suction grille			KDGF-9A140	KDGF-9A200	KDGF-9A280	KDGF-9A400	KDGF-9A560
7	and	efficiency filter	Replacement	Long-life filter *	*3	KAF-91A140	KAF-91A200	KAF-91A280	KAF-91A400	KAF-91A560
8] e		filter *2	High efficiency	65%	KAF-92A140	KAF-92A200	KAF-92A280	KAF-92A400	KAF-92A560
9	1 Ē			filter	90%	KAF-93A140	KAF-93A200	KAF-93A280	KAF-93A400	KAF-93A560
10] ŝ	Plenum chamber *4				KPCJ140A	KPC5J	KPC8J	KPCJ400A	KPC15JA
11	1	Pulley for plenum ch	amber *4			KPP8JA	KPP9JA	KPP10JA	-	_
12	1	Fresh air intake kit					KD106D10		KDFJ90)6A560
13	1	Rear suction kit			KDFJ905A140	KDFJ905A200	KDFJ905A280	KDFJ905A400	KDFJ905A560	
14]	Discharge grille for plenum side			KD101A10		KD10	1A20		
15	Wo	Wood base		KKWJ9A140	KWF1G5P	KWF1G8P	KKWJ9A400	KWF1G15		
16	Vib	Vibration isolating frame			K-ABSG1406A	K-ABSG1407A	K-ABSG1408A	K-ABSG1409A	K-ABSG1410A	

*1 A front suction base flange and suction grille are required (option).
 *2 A filter chamber for high efficiency is required (option).
 *3 Different from the filter attached as standard.
 *4 A filter chamber for high efficiency is required (option).
 *4 Use the plenum chamber and pulley for plenum chamber in combination.

VRV X

OPTION LIST

Outdoor Units

VRV X

Optio	nal Accessories	RXQ6ARY6 RXQ8ARY6 RXQ10ARY6	RXQ12ARY6	RXQ14ARY6 RXQ16ARY6
Distributive piping	REFNET header	KHRP26M22H, (Max. 4 branch) KHRP26M33H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)	
	REFNET joint	KHRP26A22T KHRP26A33T	KHRP26A22T, KHRP2	26A33T, KHRP26A72T

Optio	nal Accessories	RXQ18ARY6 RXQ20ARY6
Disinbutive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)
piping	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T

Optie	onal Accessories	RXQ22ARY6	RXQ24ARY6	RXQ26ARY6 RXQ28ARY6 RXQ30ARY6 RXQ32ARY6	RXQ34ARY6 RXQ36ARY6 RXQ38ARY6 RXQ40ARY6
Disinbutive piping	REFNET header	KHRP26M22H (Max.4 branch), KHRP26M33H (Max.8 branch), KHRP26M72H (Max.8 branch),		H, KHRP26M33H, KHRP26M72H, K) (Max.8 branch) (Max.8 branch) (
	REFNET joint	KHRP26A22T, KHRP26M33T, KHRP26M72T,	KHRP26A2	2T, KHRP26A33T, KHRP26A72T, K	HRP26A73T
Pipe size reduce	r	_		KHRP26M73TP, KHRP26M73HP	
Outdoor unit cor	nnection piping kit		BHFP2	2P100	

Optio	onal Accessories	RXQ42ARY6 RXQ44ARY6	RXQ46ARY6 RXQ48ARY6 RXQ50ARY6 RXQ52ARY6 RXQ54ARY6 RXQ56ARY6 RXQ58ARY6 RXQ58ARY6 RXQ60ARY6
Disinbutive piping	REFNET header		, KHRP26M72H, KHRP26M73H (Max.8 branch) (Max.8 branch)
piping	REFNET joint	KHRP26A22T, KHRP26A33T,	, KHRP26A72T, KHRP26A73T
Pipe size reduce	er -	KHRP26M73TP,	KHRP26M73HP
Outdoor unit co	nnection piping kit	BHFP2	229151





Individual Control Systems for VRV Indoor Units

Navigation remote controller (Wired remote controller) (Optional)

Clear display

• Dot matrix display

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



Backlight display helps operating in dark rooms.

Simple operation

• Backlight display

• Large buttons and arrow keys BRC1F61 (Only for FXEQ Series) Large buttons and arrow keys enable easy operation. Basic setting such as fan speed and temperature can be intuitively operated. For other settings just select the function from

the menu list.

• Guide on display

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

Energy saving

BRC1E62 &

• 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.

• Off timer

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



Individual Control Systems for VRV Indoor Units

Convenience

Setback (default:OFF)

Maintains the room temperature in a specific range during an by temporarily starting airconditioner that was turned OFF.

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

• Weekly schedule

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

College classroom sample (a summer Monday case)

1) 8:30 ON The first period starts and the airconditioner starts the cooling

operation

In the second period, the classroom is unoccupied and the airconditioner

2) 10:00 OFF

stops





Comfort

• Individual airflow direction (*1)

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



• Auto airflow rate (*2)

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





: 27 °C



MAN - 32°C





unoccupied period		Setback temperature	Recovery differential
in Cooling gutomatically	Cooling	33-37°C	-2 — -8°C

	Time	Act	Cool	Heat
Mon	8:30	ON.	25°C	1
	10:00	OFF	-°C	-°C
	13:00	ON	25°C	
	15:00	OFF	-*C	°C
		-		





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

Individual Control Systems for VRV Indoor Units

Wired remote controller (Option)



Individual Control Systems for VRV Indoor Units

Wireless remote controller (Option)



*Refer to page 74 for the name of each model

Simplified remote controller (Option)



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

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

FXFQ-AVM FXFQ-S FXZQ FXCO Navigation remote controller (Wired remote controller) erj (BRC1E62) Wired remote controller (BRC1C62)

Wide variation of remote controller

Wireless remote co	ontroller*		
Simplified remote (Exposed type)	controller (BRC2C51)		
Simplified remote (Concealed type: for	controller HOTEL use) (BRC3A61)		

*Refer to page 74 for the name of each model



• Then same operation mode and setting 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 wall or ceiling is included. • A signal receiver unit (installed type) for a Ceiling Mounted Cassette (Round Flow, Compact Multi Flow, Double Flow) type, ceiling suspended type and wall Mounted type is Mounted

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





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

er fo	or VRV	/ inde	oor u	nit				
FXCQ	FXUQ	FXEQ	FXDQ	FXMQ	FXHQ	FXAQ	FXL(N)Q	FXVQ

Centralised Control Systems for VRV Indoor Units

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



• Certain indoor units limit the functions of some control systems

Centralised Control Systems for VRV Indoor Units

Residential remote controller (Optional)



with the large LCD Panel. • Max. 16 group (128 indoor units) controllable

- Backlight and large LCD panel for easy readability

DCS303A51

• All indoor units can be turned on or off at once with "ALL" button. • Outside temperature display *For residential use only. Cannot be used with other centralized control equipment

Central remote controller (Optional)





DCS302CA61

- operation.

Unified ON/OFF controller (Optional)



simultaneously/individually.

- Centralised control indication
- Max. wiring length 1,000m (Total: 2,000m)
- Compact size casing (Thickness: 16mm) Connectable with Central Remote controller, Schedule timer and BMS system.

Schedule timer (Optional)

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

- - Max. \$8 hours back up power supply. • Max. wiring length 1,000m (Total: 2,000m)
 - Compact size casing (Thickness: 16mm)
- system.

- DCS301BA61





DST301BA61











Max. 16 groups of indoor units can be easily controlled

• ON/OFF, temperature setting and scheduling can be controlled individually for indoor units.

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

• Max. 64 group (128 indoor units) controllable. • Max. 128 group (128 indoor units) are controllable by using 2 central remote controllers, which can be control from 2 different place.

• Malfunction code display

• Max. wiring length 1,000m (Total: 2,000m) • Connectable with Unified ON/Off controller, schedule timer and BMS system. • Airflow volume and direction can be controlled individually for indoor units in each group

• 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.

Max. 16 groups of indoor units can be operated

• Max. 16 group (128 indoor units) controllable. • 2 remote controllers can be used to control 2 different places. • Operating status indication (Normal Operation, Alarm)

• 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.

• Connectable with Central Remote controller, Unified ON/OFF controller and BMS

Advanced Control Systems for VRV Indoor Units

Intelligent Manager

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



Building equipment control

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



Air-conditioning control for large spaces

controlled to ensure comfort.

Air handling units can also be controlled. Large spaces,

such as entrance halls and shopping malls, can be easily



For Energy Saving & Comfort

Intelligent Touch Manager maximises the advantages of VRV features

monitor the Daikin VRV system.

view and list view and menus for system configurations.

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







- Intelligent Touch Manager is an advanced multi-zone controller that provides the most cost-effective way to control and
- The 10.4" LCD touch screen is easy to use with three different screen views to include the floor plan layout view, icon

Advanced Control Systems for VRV Indoor Units

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

Lighting control (Optional) Connection to DALI - compatible lighting control system DALI-compatible Simple wiring (daisy chain) enables management of LED lighting by the Please contact your local sales office for details. intelligent Touch Manager. Various air conditioning and lighting control is enabled through the interlock with occupancy sensors and illuminance sensors. Air conditioning and lighting for which power consumption is high can be efficiently controlled to promote energy conservation and cost reduction! Lighting control achieved by the intelligent Touch Manager Intelligent Manag **VRV** System [Operation] Switch-on/switch-off operation • Illuminance (1–100%) control • Various illuminance patterns can be registered DCM009A51 • Registered pattern can be selected from intelligent (BACnet® Client option Touch Manager WAGO I/O system [Monitoring] DALI BUS BACnet[®] DALI module • Switch-on/switch-off status monitoring controller 753-647 Lighting abnormality monitoring 750-831 DALLIED drive • Illuminance monitoring • DALI occupancy sensor monitoring LED liaht • DALI illuminance sensor monitoring

[Overview of control]

- Up to 5 DALI modules can be connected to a single BACnet[®] controller.
- Up to 64 DALI LED drivers (64 addresses) can be connected to a single DALI module

64 DALI addresses can be freely assigned to up to 16 groups using a single DALI module. (Each group corresponds to a management point of the *intelligent Touch Manager*.)

• Up to 16 scenes can be set to a single DALI

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

Easy maintenance and energy saving by lighting control

Case 1

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



Case 2

Case 3

Occupancy sensors are used to eliminate Lighting abnormalities (e.g. burned-out both wasteful lighting and air bulbs) can be checked on the intelligent Touch Manager screen. When a room is unoccupied,

OF

ń

ŃЛ

Lighting maintenance becomes easier and quicker.



Tenant Management (PPD Option)

Reporting the power consumption of VRV system for each tenant

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

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

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

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

Air conditioning bills can be issued by one click

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

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

[Main functions]

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

conditioning. the air conditioning stops and the lighting is switched off.



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



Advanced Control Systems for VRV Indoor Units

System structure Up to 512 groups (1024 indoor units) intelligent Touch Manager System Overview Air Conditioning Up to 650 Network Service System management points D**Ⅲ-**NET One DII -NET syste 4444 Max. 64 indoor unit groups (128 indoor units) iTM Plus Adapto 🗠 🗠 📾 🖻 🗄 100Mbps Max. 64 indoor unit groups Ethernet : USB Flash drive Di/Piline QQL Web Acces via LAN Up to 7 Adaptors Fire alarm Residentia A/C kWh meter WAGO I/O up to 30 node BACnet® / I B ्र Keycard swite Pump Fan WAGO I / O system BACnet[®] contro**ll**er 750-831 DALI module 753-647 DAL BUS DALLIED driv (occupancy / illur IFD light DAL BUS DALI LED drive y/illum LED light a



928BB25

Air Conditioning Network Service System

Preventive Maintenance

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

Enhanced convenience with link to the Air Conditioning Network Service System

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



Daikin Offers a Variety of Control Systems

Convenient controllers that offers more freedom to administrators



Intelligent Controller Ease of use and expanded control functions

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

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



Dedicated interfaces make Daikin air conditioners freely compatible with open networks

Home Automation Interface Adaptor





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

> BACnet® Seamless connection between VRV system

and BACnet® open network protocol



LONWORKS[®] Facilitating the network integration of VRV system and LONWORKS®

YRY

DMS504B51 (Interface for use in LONWORKS®)

Notes: 1. BACnet[®] is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

2. LONWORKS® is a trademark of Echelon Corporation registered in the United States and other countries

Integrated Building Monitoring System

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



DIII-NET Line

– – – - Contact Signal Line

BACnet[®]/Ethernet or LONWORKS[®]

Network Communication Line

VRV X

Integrated Building Monitoring System

The DIII-NET system provides for:

• Close control and monitoring by integrating a wide variety of airconditioners in the

Option List

Operation Control System Optional Accessories

For VRV indoor unit use

No.	Item		Туре	FXFQ-S	FXFC	Q-AV	FX	ZQ-M	FXUC	Q-A	FXCQ-/	N	FXEQ-A		DQ-PB DQ-NB
			Receiver	BRC7A	4632F-	6	BRC7N	1630W-6			BRC7C62	2-9	BRC7M626	6 BRC	4M61-6
1	Remote controller	Wireless	Handset			C4M15	50W16		BRC70	-828 F			BRC4N	150W1	5
		Wired		BRC1C62	BRC1	E63					BRC1C62	2			
2	Navigation remote contro			BRC1E62	BRC1	E63				В	RC1E62 No	ite 7			
3	Simplified remote co								-	-					C2C51
4	Remote controller for h	otel use (Conc	ealed type)							-				_	C3A61
5	Adaptor for wiring			★ KRP1			★KR	P1BA57		-	★ KRP1B	61	KRP1B61	★ K	RP1B56
6-1	Wiring adaptor for e			★ KRP2				P2A62		-	★ KRP2A		KRP2A61		RP2A53
6-2	Wiring adaptor for			★ KRP4			★ KRF	P4AA53	★KRP4	AA53	★KRP4AA		KRP4AA51	★ KI	RP4A54
7	Remote sensor (for in	ndoor tempe	rature)	KRCSO							KRCS01-1				
8	Installation box for c	adaptor PCB	Å	Note KRP11				te 4, 6 BA101	KRP1B	A97	Note 2, KRP1B9		_		te 4, 6 IBA101
9	External control ada	ptor for outd	oor unit	★DTA10	04A62		* DTA	104A62	_	-	★DTA104	A61	DTA104A6	1 + DTA	104A53
10	Adaptor for multi ter	nant		★DTA1	14A61						_				
No.	Item		Туре	FXMQ-	P	FXMQ	-NVE	FXHQ-	MA	FX	AQ-P		FXLQ-MA XNQ-MA	FXV	Q-N
			Receiver		BRC4M	61-6				BRC7	'M618-6		BRC4M61-6	-	_
1	Remote controller	Wireless –	Handset		BRC4M15	50W16		BRC7EA	63W		BRC4M	150W1	6	-	_
		Wired							BRC1	C62				BRC1C62	Note 8
2	Navigation remote contro	er (Wired rem	ote controller)						BRC1E62	Note	7			BRC1E62	Note 9
3	Wired remote controller	with weekly so	chedule timer						BRC1	D61				-	_
4	Simplified remote co	ontroller (Exp	osed type)	BRC2C5	1	BRC2	2C51		-	-			BRC2C51	-	_
5	Remote controller for h	otel use (Conc	ealed type)	BRC3A6	1	BRC3	A61		-	-			BRC3A61	-	_
6	Adaptor for wiring			★ KRP1C			P1B61	KRP1B/			-		KRP1B61	KRP	1C67
7-1	Wiring adaptor for			★ KRP2A			P2A61	★ KRP2	-		RP2A61		KRP2A61	-	-
7-2	Wiring adaptor for	electrical ap	pendices (2)	★ KRP4AA	\51	KRP4	AA51	★ KRP4	AA52		P4AA52		KRP4AA51	KRP:	2A62
8	Remote sensor (for in	ndoor tempe	rature)	KRCS01-4	4B						:SO1-1B				
9	Installation box for c	adaptor PCB	*	Note 1 KRP4A96	6	-	-	Note KRP1C/			lote 1 4AA93		_	-	
10	External control ada	ptor for outd	oor unit	★ DTA104	A61	DTA10)4A61	★ DTA10	04A62	★DT/	A104A61	I	DTA104A61	DTA1	04A62
11	Adaptor for multi ter	nant		★ DTA114	A61					★DT/	A114A61				
12	External control ada		ng / heating					_						KRF	
13	Remote controller wi	ith key						_						KRC	B37-1

 13
 Kemore controller will key
 MCB3/-1

 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 ☆ is necessary for each installation box.
 3. Only one installation box can be installed for each indoor unit.

 4. Up to 2 installation box ☆ is necessary for second adaptor.
 6. Installation box ☆ is necessary for each 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.

 8. Since the control panel is equipped as standerd, use the option for 2 remote control system.
 9. When using BRC1E62, be sure to remove the control panel and since BRC1E62 cannot be stored inside the indoor unit, please place it separately.

Option List

Sys	stem Config	uration •		
No.	Item	Тур	e Model No.	Function
1	Residential central rem	ote 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 control	ler	DCS302CA61	• Up to 64 groups of indoor units(128 units) can be connected, and ON/OFF,
2-1	Electrical box with ear	th terminal (3 blocks)	KJB311AA	temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to 2 controllers in one system.
3	Unified ON/OFF cont	roller	DCS301BA61	• Up to 16 groups of indoor units(128 units) can be turned, ON/OFF individually or
3-1	Electrical box with ear	th terminal (2 blocks)	KJB212AA	simultaneously, and operation and malfunction can be displayed. Can be used in
3-2	Noise filter (for electromag	netic interface use only)	KEK26-1A	combination with up to 8 controllers.
4	Schedule timer		DST301BA61	 Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day.
5	5-room centralised controller for residential indoor units	For CDXS, FDK(X)S, FTK(X)S	Note 3 KRC72A	• Up to 5 indoor units can be controlled. This is a low cost system which can only control ON/OFF.
	Interface adaptor for residential indoor units	For CDXS, FDK(X)S, FTK(X)S	KRP928BB2S	Adaptors required to connect products other than those of the VRV System to the
	Interface adaptor for SkyAir-series	For FCQ-B, FFQ-B, FHQ-BV, FBQ-B	★DTA112BA51	high-speed DIII-NET communication system adopted for the VRV System.
8	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.
9	Wiring adaptor for oth	ner air-conditioner	★DTA103A51	
10	DIII-NET Expander Adaptor		DTA109A51	 Up to 1024 units can be centrally controlled in 64 different groups. Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor.
10-1	Mounting plate		KRP4A92	Fixing plate for DTA109A51

Note: 1. Installation box for ★ adaptor must be obtained locally.
2. For residential use only. Cannot be used with other centralised control equipment.
3. A wiring adaptor (KRP413AB1S) is also required for each indoor unit.

Building Management System

No.			Item		Model No.	Function
1	intelligent Touch	Basic	Hardware	intelligent Touch Controller	DCS601C51	 Airconditioning management system that can be controlled by a compact all-in-one unit.
1-1	Controller	Option	Hardware	DIII-NET plus adaptor	DCS601A52	• Additional 64 groups (10 outdoor units) is possible.
1-2	Electrical box with	n earth ter	minal (4 bl	ocks)	KJB411A	• Wall embedded switch box.
2		Basic	Hardware	intelligent Touch Manager	DCM601A51	Airconditioning management system that can be controlled by touch screen.
2-1 2-2	intelligent Touch		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.
2-3	Manager	Option	Software	iTM power proportional distribution	DCM002A51	 Power consumption of indoor units are calculated based on operation status of the indoor unit an doutdoor unit power consumption measured by kWh metre.
2-4				iTM energy navigator	DCM008A51	Building energy consumption is visualised. Wasted airconditioning energy can be found out.
2-5	Di unit				DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.
2-6	Dio unit				DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input.
3		*1 Interf	ace for use	in BACnet [®]	DMS502B51	 Interface unit to allow communications between VRV and BMS. Operation and monitoring of airconditioning systems through BACnet [®] communication.
3-1		Optiona	DIII board		DAM411B51	• Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.
3-2	Communication	Optiona	Di board		DAM412B51	 Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.
4	linendce	*2 Interf	ace for use	in LONWORKS®	DMS504B51	 Interface unit to allow communications between VRV and BMS. Operation and monitoring of airconditioning systems through LonWorks® communication.
5		Home A	utomation Ir	iterface Adaptor	DTA116A51	 Use of the Modbus protocol enables the connection of the VRV system with a variety of home automation systems from other manufacturers.

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





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

VRV X AIR TREATMENT EQUIPMENT LINEUP



Our air treatment systems create a higher air quality Components of Indoor Air Quality Ventilation Humidification Air Processing* *Refers to bringing outdoor air to near indoor temperature and delivering to a room.

> ★ 1 For models: VAM 250/650/800/1000/2000GJVE ★ ² For models: VAM 500GJVE

		Outdoor-Air		Heat Reclain	n Ventilator
		Processing Unit	VKM-GAM Type	VKM-GA Type	VAM-GJ Type
		Ventilation Humidification Air Processing*		Humidification Processing*	Ventilation Humidification Air Processing*
			00*		001
	Refrigerant Piping	Connectable	Conne	ctable	Not connectable
Connections	Wiring	Connectable	Conne	ctable	Connectable
with VRV X	After-cool & After-heat Control	Available	Avai	lable	Not available
Heat Exchar	nge Element	_	Energy savin	gs obtained	Energy savings obtained
Humidifier		_	Fitted	_	_
High Efficier	ncy Filter	Option	Op	tion	Option
Ventilation S	System	Air supply only	Air supply &	air exhaust	Air supply & air exhaust
Power Supp	ly	220-240 V, 50 Hz	220-240	V, 50 Hz	220-240 V/220 V, 50 Hz
					250 m³/h
Airflow Rate				m ³ /h	500 m³/h 650 m³/h
		1080 m ³ /h		m³/h) m³/h	800 m ³ /h 1000 m ³ /h 1500 m ³ /h
		1680 m³/h 2100 m³/h			2000 m ³ /h

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

Outdoor-Air Processing Unit For outdoor units of 8 HP and above

Combination of fresh air treatment and airconditioning, supplied from a single system.

Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250



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

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



Connection Conditions

- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
- Outdoor-air processing units can be used without indoor units.

YRY



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

• When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units.

Standard Specifications

Indoor unit

	Туре			Ceiling Mounted Duct Type						
	Model		FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1					
Power	supply		1-phas	e 220-240 V (also required for indoor units), 50 Hz					
		kcal/h	12,000	19,300	24,100					
Cooling	g capacity *1	Btu/h	47,800	76,400	95,500					
		kW	14.0	22.4	28.0					
		kcal/h	7,700	12,000	15,000					
Heating	g capacity *1	Btu/h	30,400	47,400	59,400					
		kW	8.9	13.9	17.4					
Power	consumption	kW	0.359	0.548	0.638					
Casing			Galvanised steel plate							
Dimens	sions (HXWXD)	mm	470X744X1,100	470X1,3	380X1,100					
	Motor output	kW		0.380						
an	Airflow rate	m³/min	18	28	35					
		cfm	635	988	1,236					
	External static pressure 220 V/240 V	Pa	185/225	225/275	205/255					
Air fi l te	er		*2							
	Liquid	mm		φ 9.5 (flare)						
Refrige	rant Gas	mm	Ø 15.9 (flare)	Ø 19.1 (brazing)	Ø 22.2 (brazing)					
piping	Drain	mm		PS1B female thread						
Machir	ne weight	kg	86		123					
Sound	level *3 220 V/240 V	dB(A)	42/43	47	7/48					
Connec	ctable outdoor units *4 *5		8 HP an	d above	10 HP and above					
Operation range		Cooling		19 to 43°C	+					
(Fan mo	(Fan mode operation between 15 and 19°C)			-5 to 15°C						
Range	of the discharge	Cooling		13 to 25°C						
	ature *6	Heating		18 to 30°C						

Notes: *1. Specifications are based on the following conditions;
Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
Equivalent reference piping length: 7.5 m (0 m horizontal)
*2 An intake filter is not supplied, so be sure to install the optional long-life filter or high-efficiency filter. Please mount it in the duct system of the suction side. Select a dust collection efficiency (gravity method) of 50% or more.
*3 Anerbaic conversion with measured at a pair 1.5 m downward from the sure to the sure of the sure to the system of the sure of the sure

cauerine encuercing (gravity memory) or 0.0 or more. *3 Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. These values are normally somewhat higher during actual operation as a result of ambient conditions.

Options

Indoor unit

		Model	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1					
_	Operation remot	e controller	BRC1E62/BRC1C62							
ntro	Central remote a	ontroller		DC\$302CA61						
رد 1/ دە	Unified ON/OF	- controller		DCS301BA61						
Operation/control	Schedule timer			DST301BA61						
Dper	Wiring adaptor	for electrical appendices (1)	KRP2A61							
	Wiring adaptor	for electrical appendices (2)		KRP4AA51a						
	Long-life replace	ment filter	KAFJ371L140	KAFJ371L280						
srs	High-efficiency	Colourimetric method 65%	KAFJ372L140	KAFJ372	L280					
Filters	filter	Colourimetric method 90%	KAFJ373L140	KAFJ373	L280					
	Filter chamber *	1	KDJ3705L140	KDJ3705L280						
Dra	in pump kit		KDU30L250VE							
Add	aptor for wiring		KRP1B61							

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

*4. It is possible to connect to the outdoor unit if the total capacity of the indoor units is 50% to

4. It is possible to connect to the outdoor unit it the total capacity of the indoor units is 20% to 100% of the capacity index of the outdoor units.
*5 It is not possible to connect to the 6 HP outdoor unit.
*6 Local setting mode. Not displayed on the remote controller.
• This equipment cannot be incorporated into the remote group control of the VRV X system.

Some options may not be used in combination.
Operating sound may increase somewhat depending on the options used.

Dimensions

FXMQ125/200/250MFV1





*These diagrams are based on FXMQ200 and FXMQ250MFV1.

FXMQ200/250MFV1







B View (For FXMQ250MFV1)



VRV

Local connection piping size

Model	Gas piping diameter	Liquid piping diameter			
FXMQ125MFV1	Ø 15.9	Ø 9.5			
FXMQ200MFV1	Ø 19.1 attached piping	Ø 9.5			
FXMQ250MFV1	Ø 22.2 attached piping	Ø 9.5			

Table of dimensions

Model	Α	В	с	D
FXMQ125MFV1	744	685	5X100=500	20 -Ø 4.7 ho l e
FXMQ200MFV1	1380	1296	11X100=1100	32 -Ø 4.7 ho l e
FXMQ250MFV1	1380	1296	11X100=1100	32 -Ø 4.7 ho l e

Notes:

- The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (②in the diagram) has a different bore form with FXMQ125MFV1.
- An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side.[Use a filter with dust collection efficiency of at least 50% (gravimetric method). This is available as an option.]
- 3. For outdoor ducts, be sure to provide heat insulation to prevent condensation.
- 1 Liquid pipe connection $\hfill \oslash$ Power supply wiring connection
- ② Gas pipe connection
- (8) Transmission wiring connection
- ③ Drain piping connection
- ④ Electric parts box
- Hanger bracket
 Discharge companion flange
 - Water supply port
- (5) Ground terminal 6 Name plate
- ② Attached piping (Note. 1)

FXMQ125MFV1



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

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



Efficient outdoor air introduction is possible

The Heat Reclaim Ventilator (VKM series) series

introduces fresh outdoor air with minimum heat

customer requirements.

losses, while a wide variety of features respond to

Lineup With DX Coil & Humidifier Type Model Name VKM50GAMV1 VKM80GAMV1 VKM100GAMV1 Capacity Index 31.25 50 62.5 With DX Coil Typ Model Name VKM80GAV1 VKM100GAV1 VKM50GAV1 Capacity Index 31.25 62.5



Humidifier

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

DX-coil

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

High static pressure

High external static pressure means enhanced design flexibility.

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



Heat Reclaim Ventilator with DX-Coil and Humidifier-VKM Series





n of the heat exchanger





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

Indoor unit with outdoor air treatment

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

Other features

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

Connection Conditions

The following restrictions must be observed in order to maintain the indoor units connected to the same system. When the Heat Reclaim Ventilator VKM series units are connected, the total connection capacity index must be 50% to 130% of the capacity index of the outdoor u





Specifications

	MO	DEL			VKM50GAMV1 *	VKM80GAMV1 *	VKM100GAMV1 *	VKM50GAV1	VKM80GAV1	VKM100GAV1		
Refrigerant							R-41	0A				
Power Supply							1-phase, 220–2	40 V, 50 Hz				
		Ultra hinh	Airflow rate	m³/h	500	750	950	500	750	950		
		Ultra-high	Static pressure	Pa	160	140	110	180	170	150		
Airflow Rate & Stat	tic	1.0.1	Airflow rate	m³/h	n 500	750 90 640	950	500	750	950		
Pressure (Note 7)		High	Static pressure	Pa	120		70	150 440	120	100		
			Airflow rate	m³/h	440		820		640	820		
		Low	Static pressure	Pa	100	70	60	110	80	70		
		Heat	Ultra-high		560	620	670	560	620	670		
		exchange	High	w	490	560	570	490	560	570		
		mode	Low	1 1	420	470	480	420	470	480		
Power Consumption	n		Ultra-high		560	620	670	560	620	670		
		Bypass mode	High	w	490	560	570	490	560	570		
		mode	Low	1 1	420	470	480	420	470	480		
Fan Type		I	-		I	Sirocco Fan						
Motor Output				kW	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2		
		Heat	Ultra-high		37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41		
		exchange	High	dB(A)	35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39		
Sound Level (Note :	5)	mode	Low	1 1	32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5		
(220/230/240 V)			Ultra-high		37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41		
		Bypass	High	dB(A)	35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39		
		mode	Low	1 1	32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5		
Humidification Cap	bacity (N	lote 4)	1	kg/h	2.7	4.0	5.4		_			
		Ultra-high	Ultra-high		76	78	74	76	78	74		
Temp. Exchange		High		%	76	78	74	76	78	74		
Efficiency		Low		1 1	77.5	79	76.5	77.5	79	76.5		
		Ultra-high			64	66	62	64	66	62		
Enthalpy Exchange		High Low		% 64		66	62	64	66	62		
Efficiency (Cooling))			1 1	67	68	66	67	68	66		
		Ultra-high			67	71	65	67	71	65		
Enthalpy Exchange		High		8	67	71	65	67	71	65		
Efficiency (Heating))	Low		1 1	69	73	69	69	73	69		
Casing		I		-	67 / 3 67 73 67 Galvanised Steel Plate							
Insulating Material							Self-Extinguishab	le Urethane Foam				
Heat Exchanging S						Air to Air Cro	oss Flow Total Heat	Sensible + Latent He	at) Exchange			
Heat Exchanger Ele	,							Nonflammable Pape	. 0			
Air Filter							Multidirectiona	Fibrous Fleeces				
DX-coil	Cooling	(Note 2)			2.8	4.5	5.6	2.8	4.5	5.6		
		(Note 3)		kW	3.2	5.0	6.4	3.2	5.0	6.4		
		Height			387	387	387	387	387	387		
Dimensions		Width		mm	1,764	1,764	1,764	1,764	1,764	1,764		
		Depth		1 1	832	1,214	1,214	832	1,214	1,214		
Connection Duct Diameter mi					Ø 200	,	250	Ø 200	Ø2	,		
Net				102	120	125	96	109	114			
Machine Weight			Gross (Note 8)	kg	102	129	134		_			
			Around Unit					80%RH or less				
Unit Ambient Condition OA (Note 9) RA (Note 9)								3, 80%RH or less				
								80%RH or less				

Notes: 1. Cooling and heating capacities are based on the following conditions. Fan is based on High and Ultra-high. Cooling and hearing capacities are based on the following containors, fan is based on righ and U When calculating the capacity as indoor units, use the following figures: VKMSOGAMV1/GV1: 3.5 kW, VKM80GAMV1/GV1: 5.6 kW, VKM100GAMV1/GV1: 7.0 kW
 Indoor temperature: 20°C DB, 1°C WB, Outdoor temperature: 3°C DB, 6°C WB
 Humidifying capacity is based on the following conditions:

rrunniunying capacity is based on the rollowing containons: Indoor temperature: 20°C DB, 15°C WB, Outdoor temperature: 7°C DB, 6°C WB
 The operating sound measured at the point 1.5 m below the centre of the unit is converted to that measured in an anechoic chambar built in accordance with the JIS C 1502 conditions. The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value.

For operation in a quiet room, it is required to take measures to lower the sound.

- For details, refer to the Engineering Data. 6. The noise level at the air discharge port is about 8–11 dB(A) or higher than the unit's operating sound. For operation in a quiet room, it is required to take measures to lower the sound. 7. Airflow rate can be changed over to Low mode or High mode. 8. In case of holding full water in humidifier.

- 9. OA: fresh air from outdoor. RA: return air from room.

Specifications, design and information here are subject to change without notice.
 Power consumption and efficiency depend on the above value of airflow rate.
 Temperature exchange efficiency is the mean value for Cooling and Heating. Efficiency is measured under the following condition: Ratio of rated external static pressure outdoor to indoor is kept constant at 7 to 1.
 In heating operation, freezing of the outdoor unit's coil increases. Heating capability decreases and the system goes into defrost operation. During defrost operation, the fans of the unit continues driving (factory setting). The arrange of this is the arrange to constitute the arrange of the unit form.

The initial operation, the 2nd of the outcool of the control of the outcomes driving (Factory setting). The purpose of this is to maintain the amount of ventilation and humidifying.
14. When connecting with a VRV system hear recovery outdoor unit and bringing the RA (exhaust gas intoke) of this unit directly in from the certification, connect to a BS unit identication to the VRV indoor unit and strategies in the direct vertice of the set of

Dimensions

VKM50/80/100GA(M)V1



Options

Item				Туре					Vk	(M50/80/	100GA(M)\	/1				
	Rem	note contro	oller			BRC1E62/BRC1C62 *1										
	C	tralised	Reside	ential central remote controller	DC\$303A51 *2											
		rolling	Centro	al remote controller		DC\$302CA61										
		device Unified ON/OFF controller								DCS30	1BA61					
		[Sched	ule timer						DST30	1BA61					
Controlling device		Wiring a appendie		r for electrical						KRP2	A61					
b g		For humi	difier ı	running ON signal output						KRP	50-2					
ollir	ē	For heate		v ·						BRP4	A50					
Contr	PC Board Adaptor	For wiring		Type (indoor unit of VRV)	FXFQ-S FXFQ-LU	FXZQ-M	FXUQ-A	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB	FXMQ-P	FXMQ-MA	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXVQ-A
	1		-		KRP1C63 ★	KRP1BA57★	KRP1C67	KRP1B61★	KRP1B61	KRP1B56★	KRP1C64★	KRP1B61	KRP1BA54	-	KRP1B61	KRP1C67
		Installatio	on box	c for adaptor PCB 🛛 🛠	Notes 2, 3 KRP1H98	Note 4, 6 KRP1BA101	—	Notes 2, 3 KRP1B96	-	Notes 4, 6 KRP1BA101	Notes 2, 3 KRP4A96	_	Note 3 KRP1CA93	Notes 2, 3 KRP4AA93	-	_
Note	3. 4.	Only one Up to 2 in	install	☆ is necessary for each ad rs can be fixed for each ins lation box can be installed tion boxes can be installed ☆ is necessary for second of	for each ind for each inc	ed ★. 6 ĸ. 7 oor unit. loor unit.	. *1 Neces other o *2 For re	ir condition sidential use	operating a ers, use the only. Whe	Heat Recla remote cor	im Ventilato trollers of t d with a He	or (VKM) inc he air condi at Reclaim \ htrol equipm	itioners. Ventilator (V		-	
ltem				Туре		VKM50G	A(M)V1		VKM80GA(M)V1 VKM100GA(M)V1							
tion	Sile	ncer				_						KDDM2	24B100			
nal function		Nominal pipe diameter mm				-						ø 2	250			
P	Air	suction /		White		K-DGL	200B					K-DGI	250B			

Item		Туре	VKM50GA(M)V1	VKM80GA(M)V1	VKM100GA(M)V1				
.u	Silencer		-	KDDM2	24B100				
function		Nominal pipe diameter mm	-	ø 250					
	Air suction /	White	K-DGL200B	K-DGL250B					
Additional	Discharge grille	Nominal pipe diameter mm	ø 200	ø 200 ø 250					
Ad	High efficiency filter		KAF242H80M	KAF242H100M					
	Air filter for replace	ment	KAF241G80M	KAF241	G100M				
Flex	tible duct (1 m)		K-FDS201D	K-FD\$251D					
Flex	tible duct (2 m)		K-FDS202D	K-FDS202D K-FDS252D					



Heat Reclaim Ventilator - Vam Series

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

Model Name

VAM250GJVE, 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 operated 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 of installation. Along with these three outstanding improvement, the night-time free cooling operation contributes to energy conservation and more comfortable space.



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



Airconditioning load reduced by approximately 31%

Cold Climate Compatible







morning. It also alleviated feeling of discomfort in the

Specifications

	MODEL			VAM250GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE			
Power Supply		ut in t		75/75			20-240 V/ 220 V,		70 /70				
Temp. Exchange	e	U l tra-High		75/75	74/74	75/75	72/72	78/78	72/72	77/77			
Efficiency (50/60 Hz)		High	%	75/75	74/74	75/75	72/72	78/78	72/72	77/77			
(50/ 00 112)		Low		79/79	80/80.5	77/77.5	74/74.5	80.5/81	75.5/76	79/81			
		Ultra-High		71/72	67/67	67.5/67.5	65/65	70/70	65/65	72/72			
Enthalpy	For Heating	High	%	71/71	67/67	67.5/67.5	65/65	70/70	65/65	72/72			
Exchange Efficiency		Low		74/74	74/74.5	71.5/72	67.5/68	72.5/73	67/67.5	76/76			
(50/60 Hz)		Ultra-High		63/63	55/55	61/61	61/61	64/64	61/61	62/62			
	For Cooling	High	%	63/63	55/55	61/61	61/61	64/64	61/61	62/62			
		Low		66/66	59/59.5	64/64.5	64/64.5	68.5/69	64/64.5	66/67			
	Heat	U l tra-High		137/141	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542			
	Exchange	High	w	120/125	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315			
Power	Mode	Low		60/59	128/136	196/207	435/483	476/512	835/927	966/1,039			
Consumption (50/60 Hz)		U l tra-High		137/141	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542			
	Bypass Mode	High	w	120/125	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315			
	mode	Low		60/59	128/136	196/207	435/483	476/512	835/927	966/1,039			
	Heat	U l tra-High		27-29/29	33-35.5/34	34-36/36	39-40.5/39.5	39.5-41.5/39.5	39.5-41.5/41.5	41.5-43.5/42			
	Exchange	High	dB(A)	26-27.5/28	31.5-34/32	33-34.5/34	37-39.5/37.5	37.5-39.5/37.5	37.5-39.5/39.5	39-43/40			
Sound Leve	Mode	Low		21-22/21	25-28.5/24	27.5-29.5/28	35-37.5/34	35-37.5/34.5	35-37.5/36	36-39/39			
(50/60 Hz)		U l tra-High		28.5-30.5/30.5	34.5-36/35.5	35-37.5/37.5	40.5-42/41	40.5-42.5/40.5	41-43/42.5	43-45.5/44			
	Bypass Mode	High	dB(A)	27.5-29/29.5	33-34.5/33.5	33-35.5/35.5	38.5-40/39	38.5-40.5/38.5	39.5-41/41.5	40.5-45/42			
	, mode	Low		22.5-23/22.5	25.5-28.5/25.5	27.5-30.5/29.5	36-38.5/35.5	36-38.5/35.5	36.5-38/37.5	37.5-39.5/41			
Casing	-			Galvanised steel plate									
Insulation Mater	ia			Self-extinguishable polyurethane foam									
Dimensions (HX	WXD)		mm	278X810X551	306X879X800	338X973X832	387X1,111X832	387X1,111X1,214	785X1,619X832	785X1,619X1,214			
Machine Weigh	1		kg	24	32	45	55	67	129	157			
Heat Exchange	System				Air to	ı air cross flow total h	ı eat (Sensible heat+	l latent heat) exchanç	le				
Heat Exchange	Element Material					Specially pro	cessed nonflammab	e paper					
Air Filter							ectional fibrous flee						
Туре							Sirocco fan						
		U l tra-High		250/250	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000			
Airflow		High	m³/h	250/250	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000			
(50/60) Hz)	Low		155/155	320/295	500/470	700/670	860/840	1,320/1,260	1,720/1,580			
Fan		U l tra-High		70/96	105/150	85/125	133/170	168/192	112/150	116/140			
Externo	I Static Pressure	High	Pa	54/65	66/52	53/67	92/85	110/86	73/72	58/32			
(50/60	(50/60 Hz)		ra	24/20	32/18	35/38	72/61	85/60	56/50	45/45			
Motor	Output	Low	kW	0.030X2	0.090X2	0.140X2		00X2		43/43 80X4			
			mm										
Unit ambient co			mm	ø 150	Ø	200	Ø2 50°CDB, 80%RH or	250	Ø	350			

Notes: 1. Sound level is measured at 1.5m 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,

Sound level generally becomes greater than this value depending on the operating conditions, retlected 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.

normal for the sound trom the main unit, and ades not indude sound trom the discharge gritter. Into 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 & dB(A) (models with the airflow rate of less than 150 to 500m3/h) to approximately 11 dB(A) (models with the airflow rate of 650m3/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.

With large models in particular (1500 and 2000m3/h models), if the supply air (SA) grile 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 min 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-mulfing bax, flexible duct and sound-mulfing air supply/discharge grilles

Ose a solit-anima bar, neutra and and solit-mining an supply assisting gives
 Decentralised installation of discharge grilles
 When installing in a location with particularly low background noise such as a classroom, please consider the

Minimum and any the second secon

of the sound source.

Alternatively, consider supplementary methods such as installing the equipment in a different location (corridor, etc.)

Options



Option List

Item				Туре		VAM 250 • 500 • 650 • 800 • 1000 • 1500 • 2000 GJVE										
_	Hea	t Reclaim	Ventil	ator remote controller	BRC301861											
	C	tralised	Resid	ential central remote controller	DC\$303A51 *1											
		trolling	Centr	al remote controller		DCS302CA61										
	devi		Unifie	ed ON/OFF controller						DCS30	1BA61					
e			Schee	dule timer						DST30	1BA61					
j device		Wiring o appendi		or for electrical		KRP2A61										
lling		For humi	difier		KRP50-2											
Controlling	aptoi	Installatio	on box	< for adaptor PCB		KRP50-2A90 (Mounted electric component assy of Heat Reclaim Ventilator)										
Ū	d Ad	For heat	er con	trol kit	BRP4A50											
	PC Board Adaptor	For wiring		Type (indoor unit of VRV)	FXFQ-S FXFQ-LU	FXZQ-M	FXUQ-A	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB	FXMQ-P	FXMQ-MA	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXVQ-M
						KRP1BA57★	KRP1C67	KRP1B61★	KRP1B61	KRP1B56 ★	KRP1C64★	KRP1B61	KRP1BA54	_	KRP1B61	KRP1C67
		Installati	Installation box for adaptor PCB 🕺			Note 4, 6 KRP1BA101	_	Notes 2, 3 KRP1B96	_	Notes 4, 6 KRP1BA101		—	Note 3 KRP1CA93	Notes 2, 3 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.

Item		Туре	VAM250GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
_	Silencer		—	KDDM24B50		KDDM24B100	KDDM24B100X2		
Additional function		Nominal pipe diameter mm	—	Ø	200		ø2	250	
func func	High efficiency	y filter	KAF242H25M	KAF242H50M	KAF242H65M	KAF242H80M	KAF242H100M	KAF242H80MX2	KAF242H100MX2
	Air filter for re	eplacement	KAF241G25M	KAF241G50M	KAF241G65M	KAF241G80M	KAF241G100M	KAF241G80MX2	KAF241G100MX2
Flexible	duct (1 m)		K-FDS151D	K-FDS	201D		K-FDS	\$251D	
Flexible	duct (2 m)		K-FDS152D	K-FDS	202D		K-FDS	6252D	
Duct ad	aptor			YDFA25A1					
		Nominal pipe diameter mm		ø 250					

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.





5. Installation box & is necessary for second adaptor.

- Installation bax + is necessary for each adaptor.
 *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.

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.