

- Note**
- Ask an authorised Daikin dealer to install Daikin products. Do not try to install the product yourself or get it installed by any unauthorised dealer. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion. Warranty of the product shall be void if not installed by an authorised Daikin dealer.
 - Use only those parts and accessories supplied or specified by Daikin. Ask authorised Daikin dealer for any repairs or components. Warranty of the product / component shall be void if non-specified spares are used or repaired by a non Daikin dealer.
 - Please ensure to install ELCB (Earth Leakage Circuit Breaker) for outdoor units to prevent ground fault effects.
 - Read the User's manual carefully before using the product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

For any inquiries, either call the numbers mentioned below or contact your nearest Daikin dealer.



Cautions on product corrosion

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



JMI-0107



JQA-1452

About ISO 9001

ISO 9001 is a plant certification system defined by the International Organization for Standardization (ISO) relating to quality assurance. ISO 9001 certification covers quality assurance aspects related to the "design, development, manufacture, installation, and supplementary service" of products manufactured at the plant.



EC99J2044

About ISO 14001

ISO 14001 is the standard defined by the International Organization for Standardization (ISO) relating to environmental management systems. Our group has been acknowledged by an internationally accredited compliance organisation as having an appropriate programme of environmental protection procedures and activities to meet the requirements of ISO 14001.

ADVANTAGE

EX TENSIVE
RANGE

EX TRA
POWER SAVINGS

EX CELLENT
TECHNOLOGY

EX TENDED
RELIABILITY

DAIKIN MIDDLE EAST & AFRICA FZE

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Daikin Middle East and Africa



DMEA20-178X

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

DAIPL-2017/18-VRVX-1A

PRESENTING THE NEW



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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.

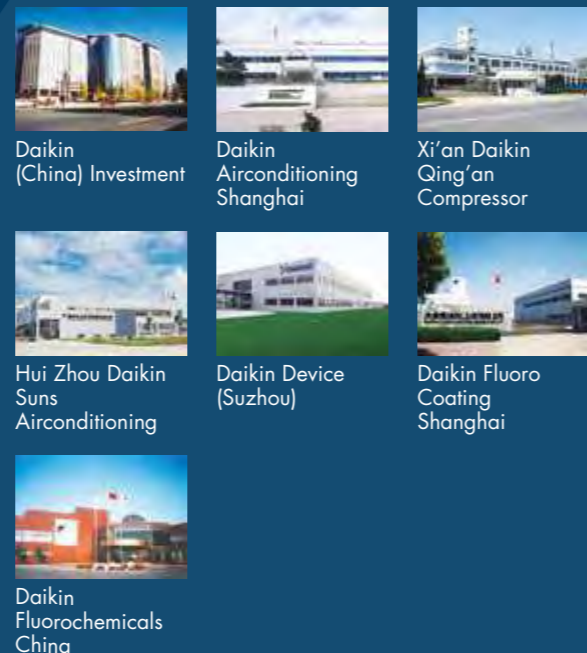
We are present in USA, Europe and Russia, The Middle East, Africa, Asia, Oceania and Middle-South America. We aim to serve our customers in each of these markets by providing optimal air conditioning solutions.



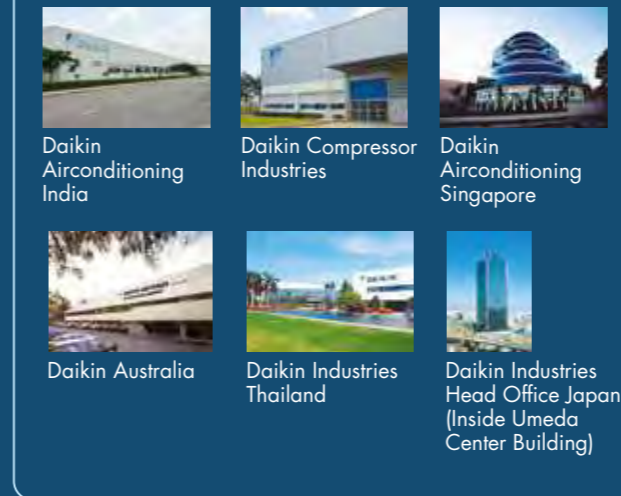
EUROPE / MIDDLE EAST / AFRICA



CHINA



ASIA / OCEANIA



NORTH AMERICA / CENTRAL & SOUTH AMERICA



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.



Environmental Technology Research Laboratory: Intensive Research on Environmentally Conscious, Energy Saving AirConditioning Technology

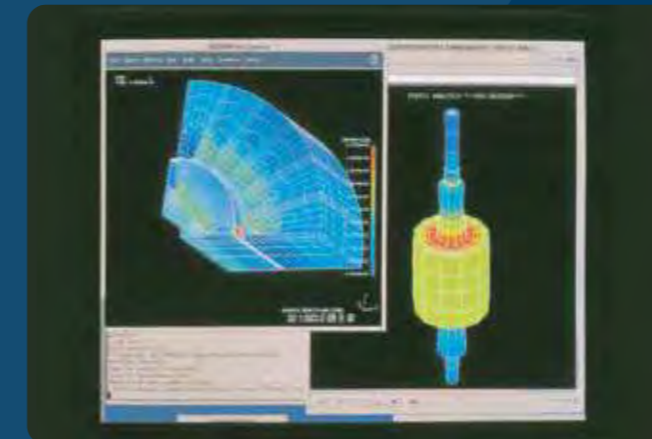
Accelerating globalisation of our airconditioning business and varied needs of customers across geographies are increasing our research challenges. We have established a research laboratory devoted to the two fields of 'airconditioning' and 'the environment'. With our mission to promote energy savings 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.



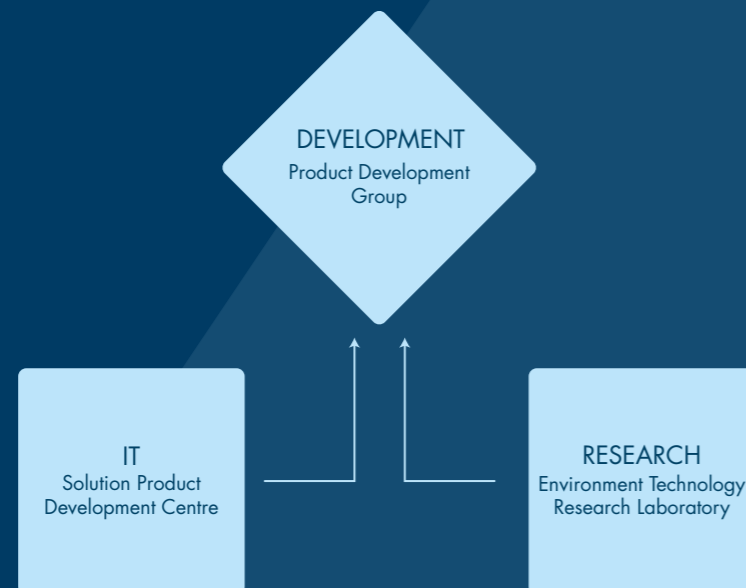
Formation of a three-division system of research, IT, and development to support our superior products.

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.



The Solutions Product Development Centre: Integrating AirConditioners 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.



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



Research & Development Centre, India: Reiterating its commitment to the respective markets it serves, Daikin India R&D is dedicated to providing customized solutions to its customers.



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 System

<p>EXTRA POWER SAVINGS</p> <p>Next Generation Compressor & VRT Smart Control</p>	<p>VRT-Variable Refrigerant Temperature in Indoor Unit (IDU) and Outdoor Unit (ODU)</p> <p>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.</p>
---------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

EXTENSIVE RANGE
Up to 60 HP

EXCELLENT TECHNOLOGY
4D Inverter System

EXTENDED RELIABILITY
Auto Optimization Refrigerant Charging

Standard Type

New series with compact and light weight design
6 HP-60 HP with 28 models lineup



Installation Space	0.95 m ²
Product Weight	285 kg



Lineup

HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	
Cooling only	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

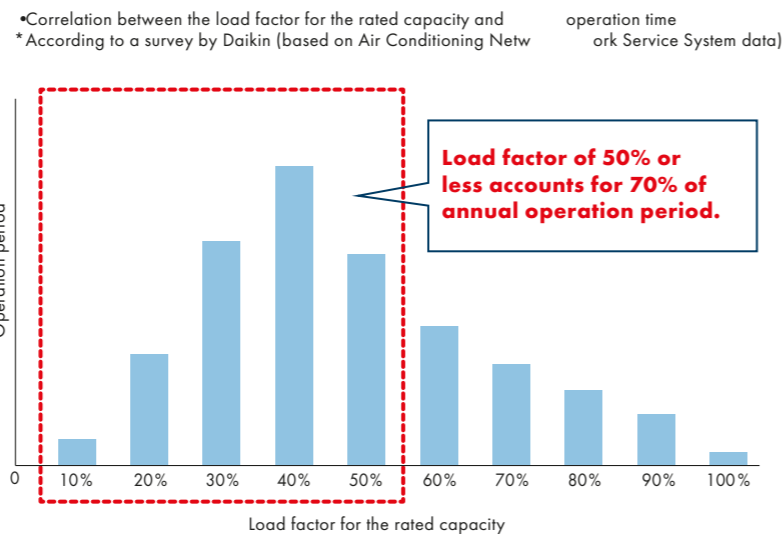
New heights in energy efficiency during actual operation

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.

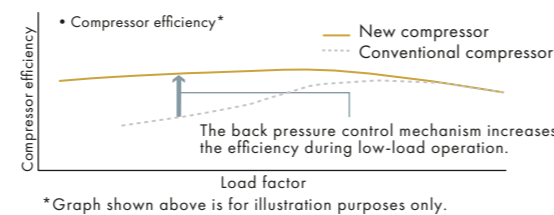


New Scroll Compressor*

Hardware technology

Refrigerant leakage is minimised during low-load operation.

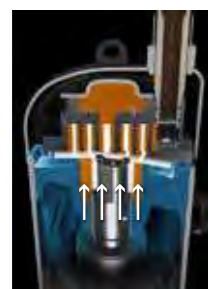
Operation loss due to refrigerant leakage is reduced by the proprietary back pressure control mechanism to ensure stable low-load operation.



Back pressure control mechanism

Conventional mechanism

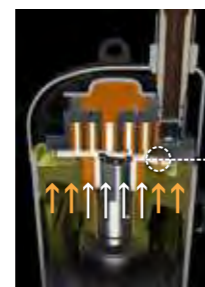
The movable scroll is pressed by the pressure difference between high and low pressures. The force pressing the movable scroll decreases during low-load operation, resulting in compression leakage from movable parts.



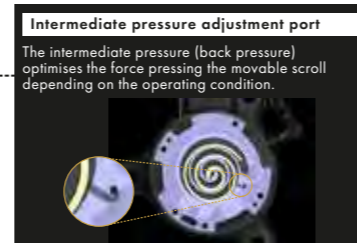
The force pressing the movable scroll decreases during low-load operation.

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



Advanced oil temperature control

Standby power consumption is reduced

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 conditioner is stopped.

Energy saving

VRV+VRT+VAV

Uniting advanced software and hardware technologies for greater energy savings during actual operation.

VRT Smart Control (Fully Automatic Energy-saving Refrigerant Control)

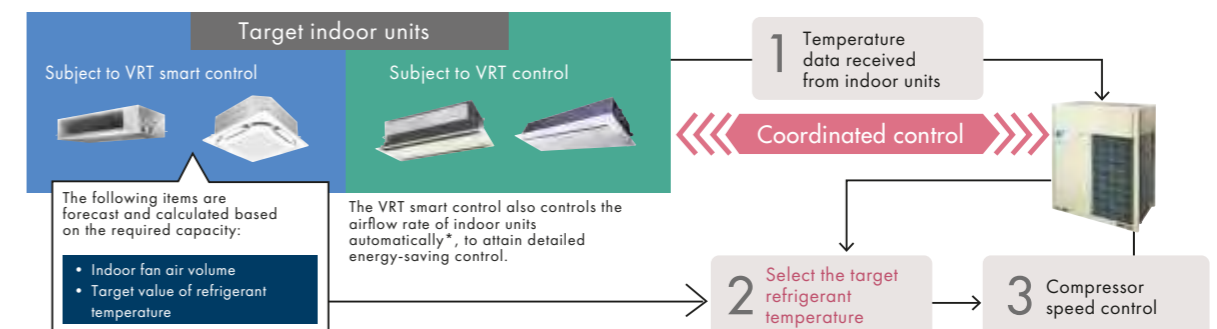
Software technology

Optimally supply only for the needed capacity of indoor units

Daikin developed VRT smart control by combining air volume control (VAV: Variable Air Volume) for indoor units with conventional VRT control, which optimises compressor speed by calculating the required load for the entire system and optimal target refrigerant temperature based on data sent from each indoor unit. Coordination with the air volume control reduces compressor load and minimises operation loss based on detailed control. VRT smart control ensures energy savings and comfortable air conditioning to meet actual operating conditions.

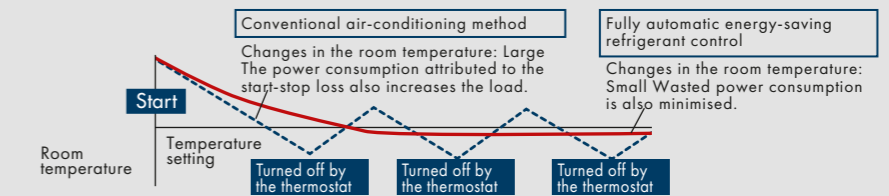
- Overview of the control (system control flow)

Different automatic energy-saving refrigerant control applies depending on the indoor units connected.



The smooth control (which keeps the compressor running) saves energy and ensures comfort during low-load operation.

- Changes in the air-conditioned room temperature during low-load operation*

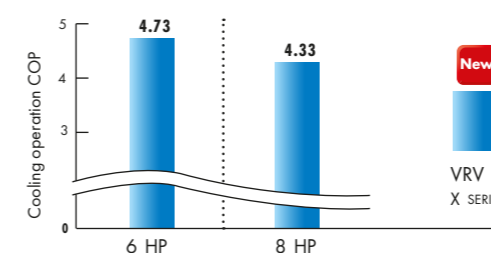


Note:

- For the classification of indoor units (VRT smart control and VRT control), refer to page 20.
- In case system is having both VRT Control and VRT Smart Control types of Indoor units, system will operate under VRT Control.
- If a system has air handling unit or outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

Higher efficiency is provided during rated operation.

COP at 100 % operation load



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

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

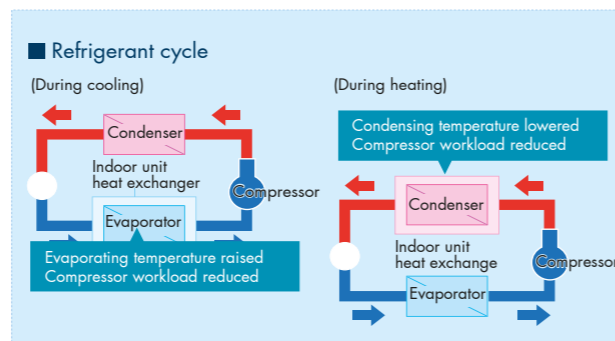
Customise your VRV system for optimal annual efficiency

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.

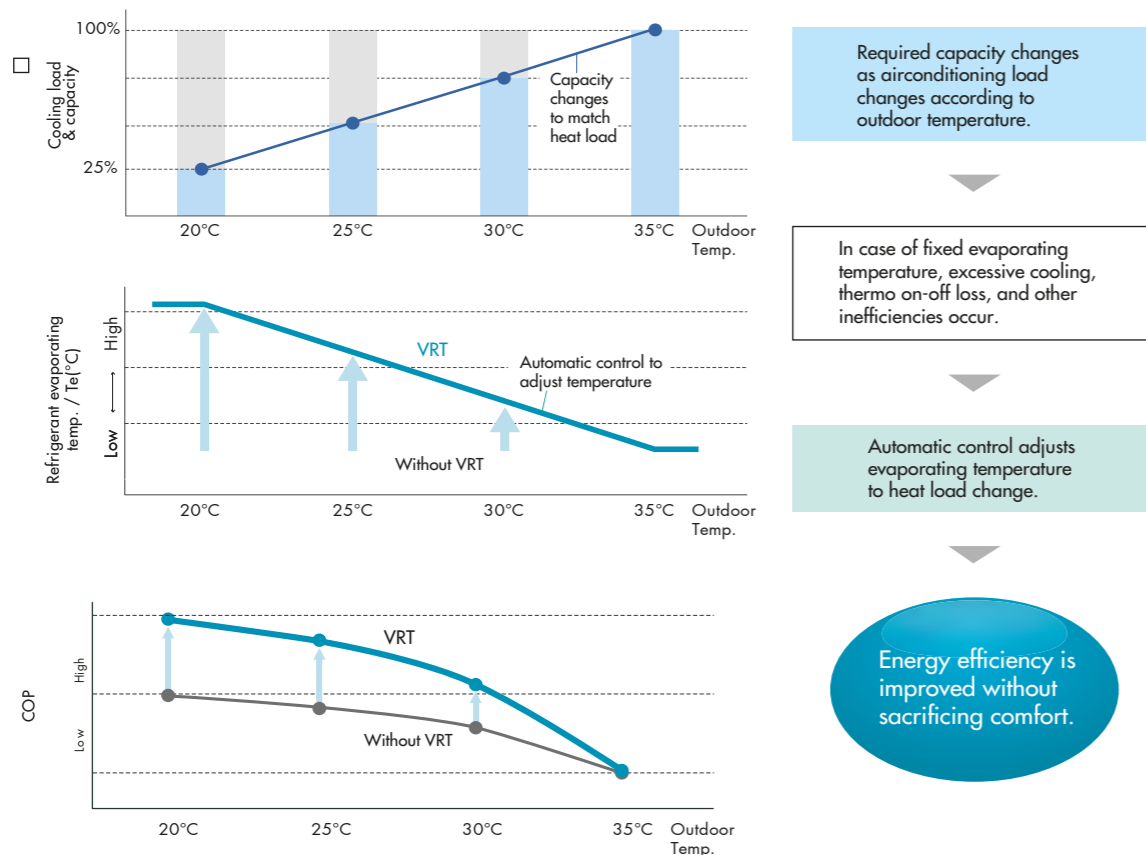
With this excellent technology, running costs are reduced.

How is energy reduced?

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



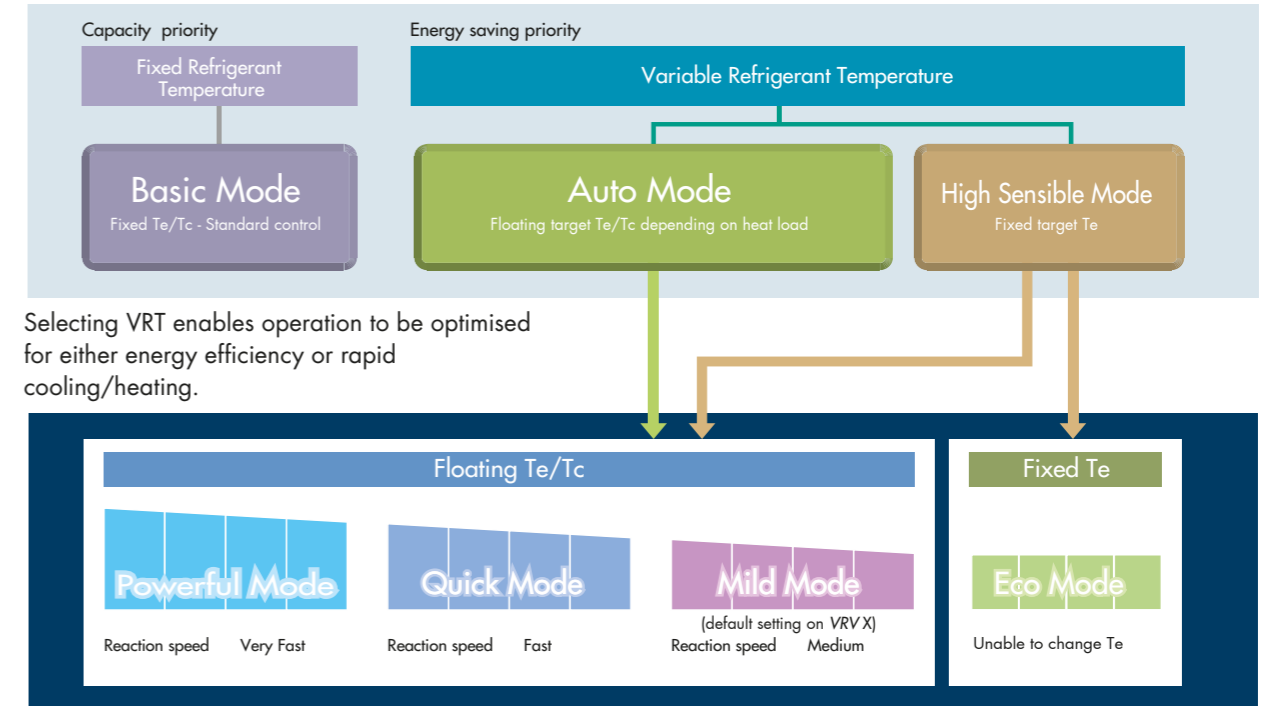
Typical changes in evaporating temperature and COP depending on changing indoor load



Fine control to match user preference available through mode selection

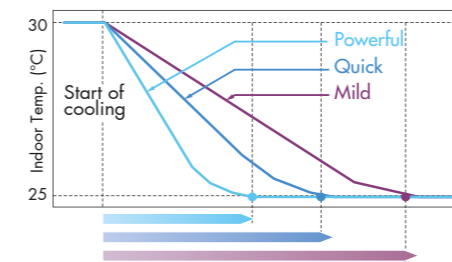
Basic mode is selected to maintain optimal comfort.

VRT is selected to save energy and prevent excessive cooling or heating.



Selecting VRT enables operation to be optimised for either energy efficiency or rapid cooling/heating.

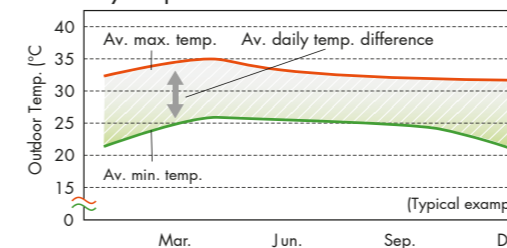
VRT offers quicker cool down to shorten uncomfortable pull down time.



Powerful mode	The refrigerant temperature can go low in cooling (high in heating) than the set minimum (maximum in heating). Gives priority to very fast reaction speed. The refrigerant temperature goes down (or up in heating) fast to keep the room setpoint stable.
Quick mode	Gives priority to fast reaction speed. The refrigerant temperature goes down (or up in heating) fast to keep the room setpoint stable.
Mild mode	Gives priority to efficiency. The refrigerant temperature goes down (or up in heating) gradually giving priority to the efficiency of the system instead of the reaction speed.

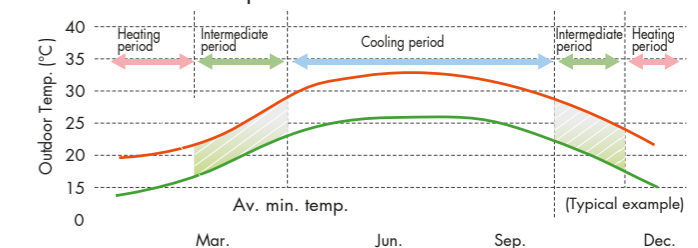
Recommended for use in these situations

Cooling only regions having differences in daily temperature.



VRT is particularly effective at night when temperatures are low.

Cooling/heating regions having periods of mild outdoor temperatures.



VRT is particularly effective during the intermediate periods.

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

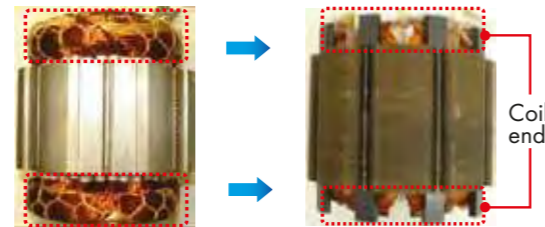
Gives 2.4 times tensile strength compared to conventional material
New Material: 600 MPa
Conventional Material : 250 MPa
 Increases compression chamber volume by using thin spiral design.



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

Compact & high efficiency concentrated winding motor

Distributed winding motor (Current 8 HP compressor) Concentrated winding motor (New 12 HP compressor)



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.

Conventional



Fine Louvre Fin



Waffle Fin

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.



20 HP

3 rows with small pipe design, increase heat transfer efficiency



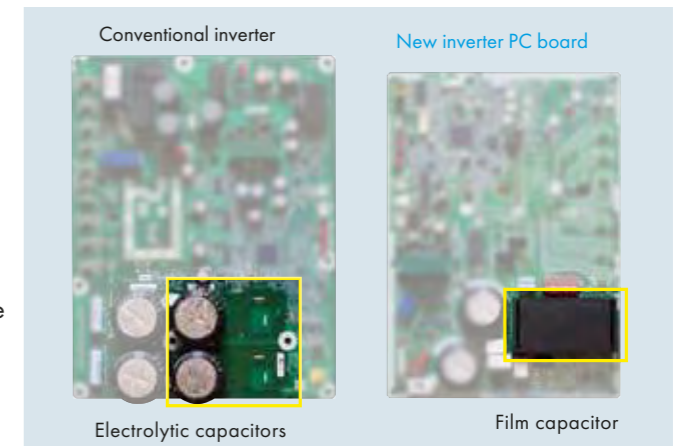
4D Inverter Technology

Improved reliability by introducing Daikin 3-phase capacitor-less 4D Inverter technology

4D means...

- Direct Inverter
- Dynamic
- Drive
- High Energy Density

- Direct conversion circuit which eliminates the electrolytic capacitor and minimize the reactor size
- Dynamic waveform control that suppresses the resonance phenomenon generated by miniaturizing parts
- Drive technology
- High Density integration of parts on small printed circuit board



Excellent Performance

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.

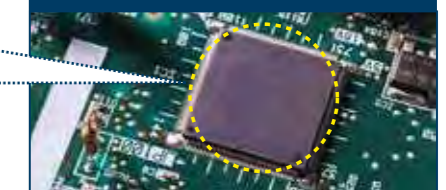
SMT packaging material



Computer control board

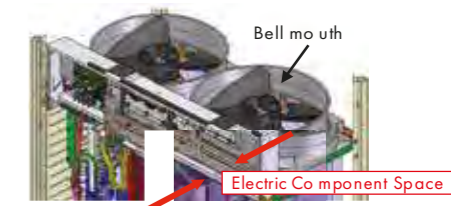
*SMT: Surface mounted technology

Computer control board surface adopting SMT packaging technology



Improved inner design to increase smooth airflow

Downsizes electric component, relocates to dead space of bell mouth side to decrease airflow resistance.



Excellent Performance



Refrigerant cooling technology, ensures stability of PCB temperature
Improves reliability at high ambient temperature
 It is possible to cool the inverter power module stability even at high ambient temperature. This helps to keep airconditioning capacity and also ensures efficient and reliable operation.

Comfort

Lower operation sound

Improves heat exchanger efficiency, helps reduced operation sound.

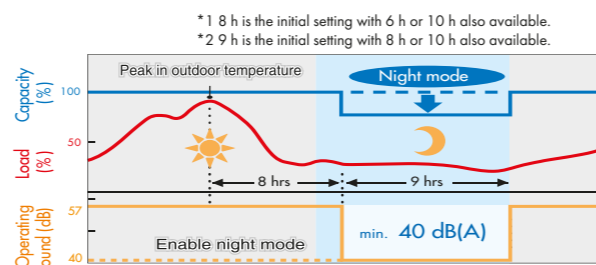
Large airflow, high static pressure and quiet technology

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

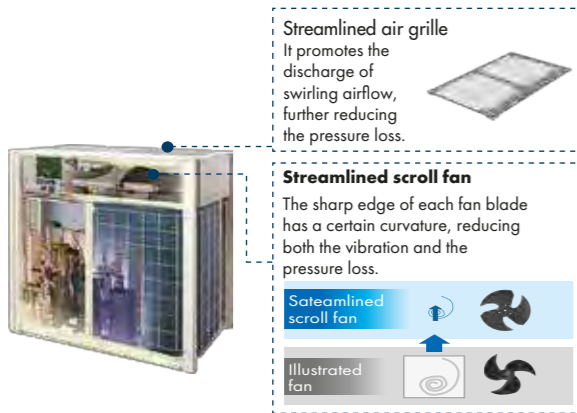
	Sound level(dB(A))			
	6 HP	8 HP	10 HP	12 HP
VRV X	56	56	57	59

Quiet night-time operation function

Outdoor PCB automatically memorises the time when the peak outdoor temperature appears. It enables quiet operation mode after 8 h*1, and returns to normal mode after it keeps this on for 9 h*2.

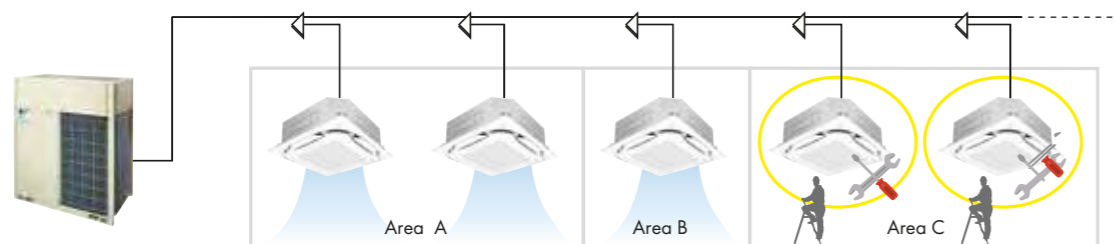


- Notes:
- This function is available in field setting.
 - The operating sound in quiet operation mode is the actual value measured by Daikin.
 - The relationship of outdoor temperature (load) and time shown above is just an example.
 - For 10 HP ODU.



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.



* Field setting is required.
 This feature does not apply to residential indoor unit connection.
 For more information, please contact Daikin sales office.

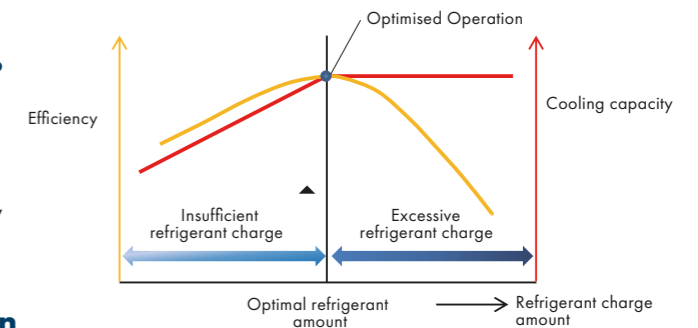
Automatic Refrigerant Charge Function

Contribute to optimised operation efficiency, higher quality and easier installation

Optimised operation efficiency

The automatic refrigerant charge function automatically determines the optimal amount of refrigerant to be charged.

This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



Higher quality and easier installation

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and the closing of shut-off valves with just one press of the switch after pre-charging. Simplified installation eliminates excessive and insufficient refrigerant charge amounts due to calculation mistakes, and this has led to higher installation quality.

Conventional

- 1 Calculate necessary refrigerant amount from design drawing
- 2 Recalculate refrigerant amount from final installation drawing
- 3 Charge refrigerant
- 4 Regularly check refrigerant weight on weighing scale
- 5 Complete by manually closing valves when proper weight is reached

VRV X SERIES

- 1 Calculation of necessary refrigerant amount from design drawing
 - 2 Pre-charge of refrigerant*
 - 3 Start of automatic refrigerant charge operation
- Automatic completion with optimal refrigerant amount
 - Monitoring refrigerant charging is not required
 - No recalculation of charge amounts due to minor design changes at site
- *Pre-charge amount changes according to conditions, and there are cases when pre-charging is unnecessary.

Multiple Advanced Features Ensuring More Accurate Test Operation And Stable System

Efficient automatic test operation

Automatically checks the wirings between outdoor units and indoor units to confirm whether there is a defective wiring.

Confirms and corrects the actual piping length.

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

Automatic check



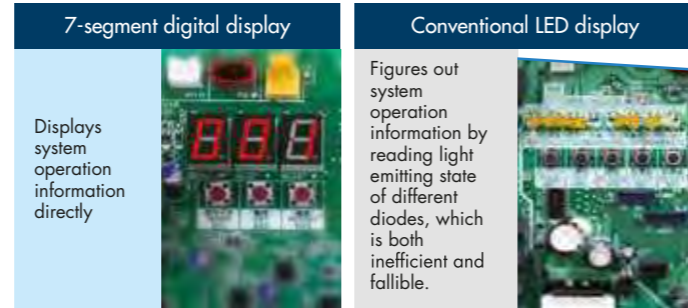
Free Phase Technology

Phase reversal occurs in areas where power supply are frequent. 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.

Simplified commissioning and after-sales service

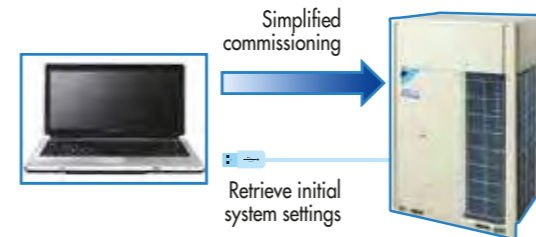
Function of information display by luminous digital tube

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

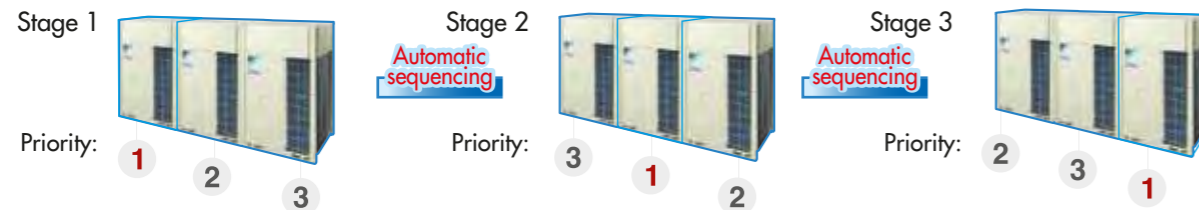
- The VRV configurator is an advanced solution that allows for easy system configuration and commissioning.
- Less time is required on the roof configuring the outdoor unit.
- Multiple system at different sites can be managed in exactly the same way, thus offering simplified commissioning for key accounts.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

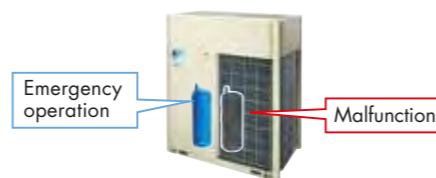
Double backup operation functions

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.

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

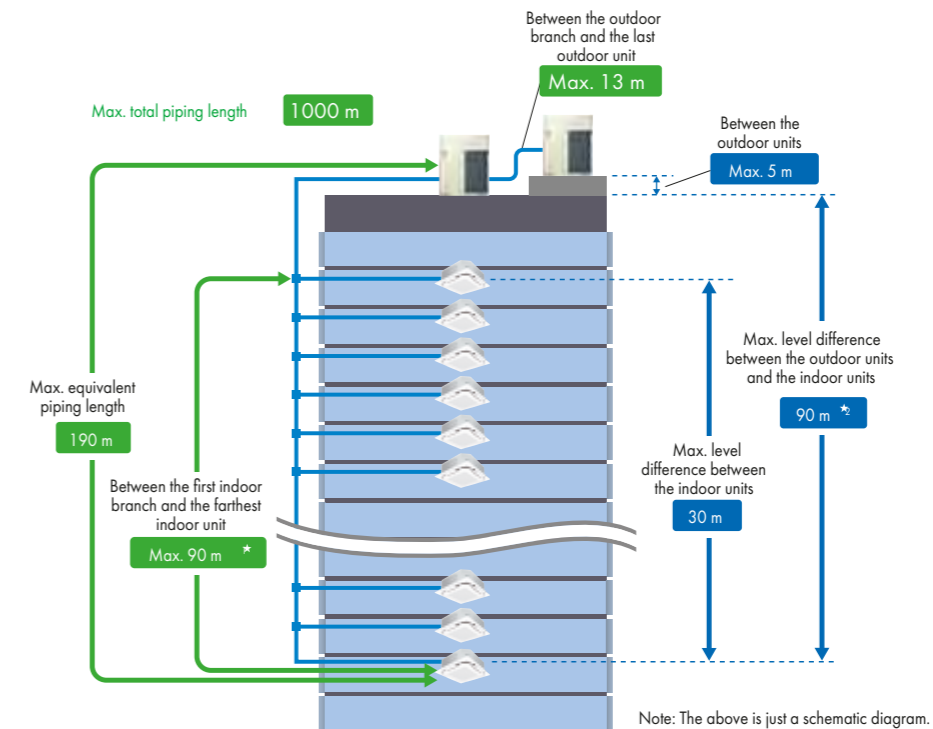
If malfunction occurs in an outdoor unit emergency operation can be conveniently set and enabled by the remote controller for indoor unit (for systems composed of two or more outdoor units).



More options for installation location

Long piping length

The long piping length provides more design flexibility, which can match even large-sized buildings.



Note: The above is just a schematic diagram.

	Actual piping length (Equivalent)	165 m (190 m)
Maximum allowable piping length	Total piping length	1000 m
	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)
Maximum allowable level difference	Between the outdoor units (Multiple use)	5 m
	Between the indoor units	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

Connection capacity at maximum is 200%.

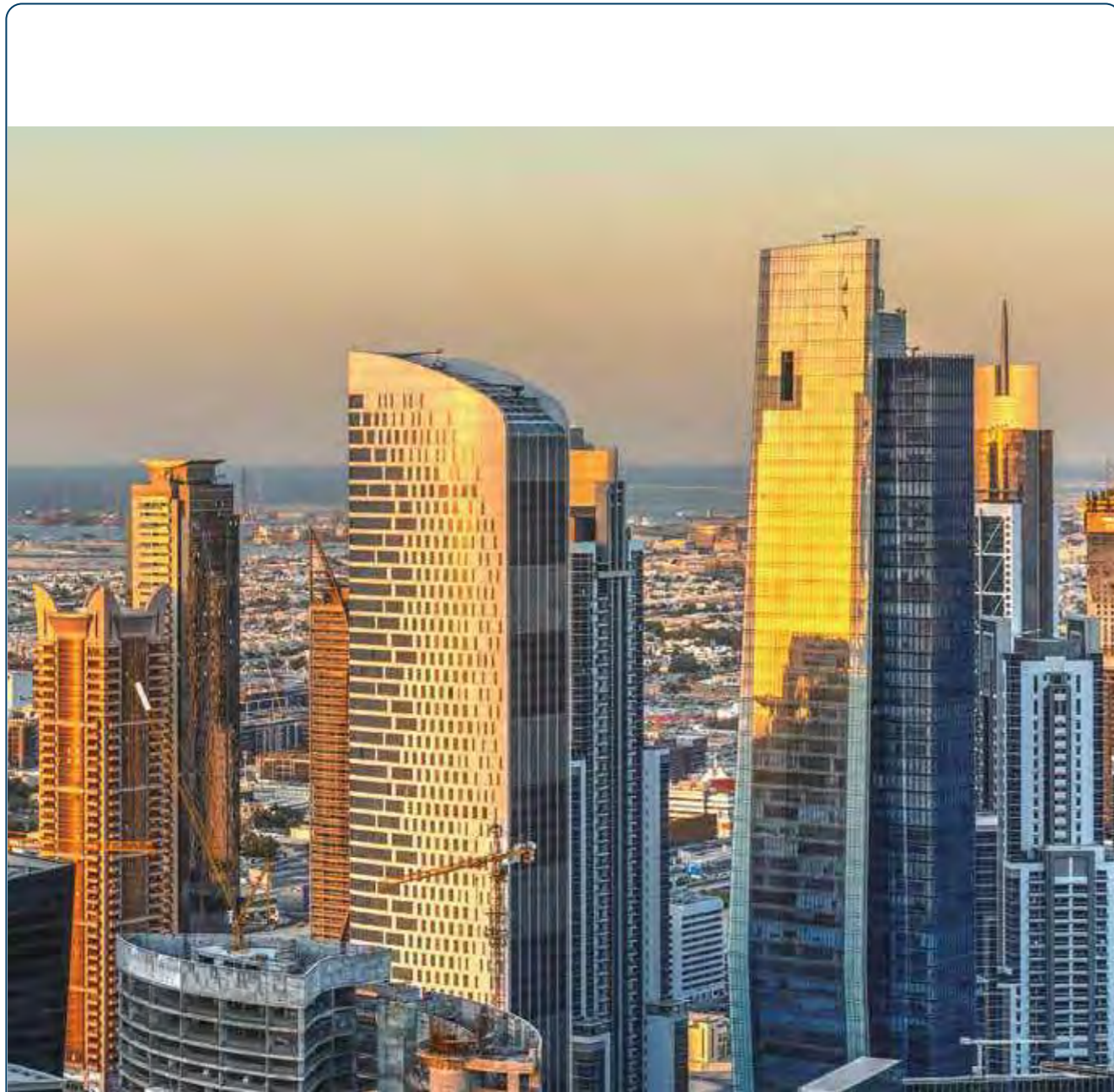
Connection ratio 50%–200%

$$\text{Connection ratio} = \frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$$

Conditions of VRV indoor unit connection capacity

Applicable VRV indoor units	FXDQ, FXAQ, models	Other VRV indoor unit models **
Single outdoor units	200%	200%
Double outdoor units	200%	160%
Triple outdoor units	200%	130%

200%



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.

78.4 Pa

- More options in the opening/angle of louvre
- Outstanding heat dissipation effect in both hierarchical and intensive arrangement



Outdoor Units

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.

Standard Type

• Single Outdoor Units

6, 8, 10, 12 HP



RXQ6ARY1
RXQ8ARY1
RXQ10ARY1
RXQ12ARY1

14, 16 HP



RXQ14ARY1
RXQ16ARY1

18, 20 HP



RXQ18ARY1
RXQ20ARY1

• Double Outdoor Units

22, 24 HP



RXQ22ARY1
RXQ24ARY1

26, 28, 30, 32 HP



RXQ26ARY1
RXQ28ARY1
RXQ30ARY1
RXQ32ARY1

• Double Outdoor Units

34, 36, 38, 40 HP



RXQ34ARY1
RXQ36ARY1
RXQ38ARY1
RXQ40ARY1

• Triple Outdoor Units

42, 44 HP



RXQ42ARY1
RXQ44ARY1

46, 48, 50, 52, 54, 56, 58, 60 HP



RXQ46ARY1
RXQ48ARY1
RXQ50ARY1
RXQ52ARY1
RXQ54ARY1
RXQ56ARY1
RXQ58ARY1
RXQ60ARY1

Lineup

HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
Cooling only	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Enhanced Range Of Choices

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

VRV Indoor Units

Type	Model Name	Capacity Range Capacity Index	0.8 HP 20	1 HP 25	1.25 HP 32	1.6 HP 40	2 HP 50	2.5 HP 63	3 HP 71	3.2 HP 80	4 HP 100	5 HP 125	6 HP 140	7 HP 170	8 HP 200	10 HP 250
Ceiling Mounted Cassette (Round Flow with Sensing) Type (Optional)	VRT FXFSQ-ARV1 VRT Smart Control			●	●	●	●	●		●	●	●	●			
Ceiling Mounted Cassette (Compact Multi Flow)	VRT FXZQ-MVE		●	●	●	●	●									
Ceiling Mounted Cassette (Double Flow)	VRT FXCQ-MVE		●	●	●	●	●	●		●		●				
Ceiling Mounted Cassette Corner	VRT FXEQ-AV		●	●	●	●	●									
Slim Ceiling Mounted Duct	VRT FXDQ-PDV36 (with drain pump) (700 mm width type)		●	●	●											
	VRT FXDQ-NDV36 VRT Smart Control (900/1,100 mm width type)					●	●	●								
Concealed Ceiling Duct	VRT FXMQ-PBV1 VRT Smart Control					●	●	●		●	●	●	●			
	VRT FXMQ-ARV1					●	●	●		●	●					
	VRT FXMQ-NVE6													●	●	●
Ceiling Suspended	VRT FXHQ-MAVE				●			●			●					
4-Way Flow Ceiling Suspended	VRT FXUQ-AVEB								●		●					
Wall Mounted	VRT FXAQ-ARV1		●	●	●	●	●	●								
Floor Standing	VRT FXLQ-MAVE				●	●	●									
Concealed Floor Standing	VRT FXNQ-MAVE				●	●	●									

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)

FXFSQ-ARV1



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



Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ-MVE



Quiet, compact, and designed for user comfort



Ceiling Mounted Cassette Corner Type

FXEQ-AVE



Slim design for flexible installation



Ceiling Mounted Cassette (Double Flow) Type

FXCQ-MVE



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



Ceiling Mounted Duct Type

FXMQ-PBV1



FXMQ-NVE6



High external static pressure allows flexible installations



Slim Ceiling Mounted Duct Type

FXDQ-PDV36



FXDQ-NDV36



Slim design, quietness and static pressure switching



4-Way Flow Ceiling Suspended Type

FXUQ-AVEB



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



Ceiling Suspended Type

FXHQ-MAVE



Slim body with quiet and wide airflow




Floor Standing Type
FXLQ-MAVE



Concealed Floor Standing Type
FXNQ-MAVE

Suitable for perimeter zone air conditioning

Wall Mounted Type
FXAQ-ARV1



Stylish flat panel design harmonised with your interior décor



VRV Indoor Units

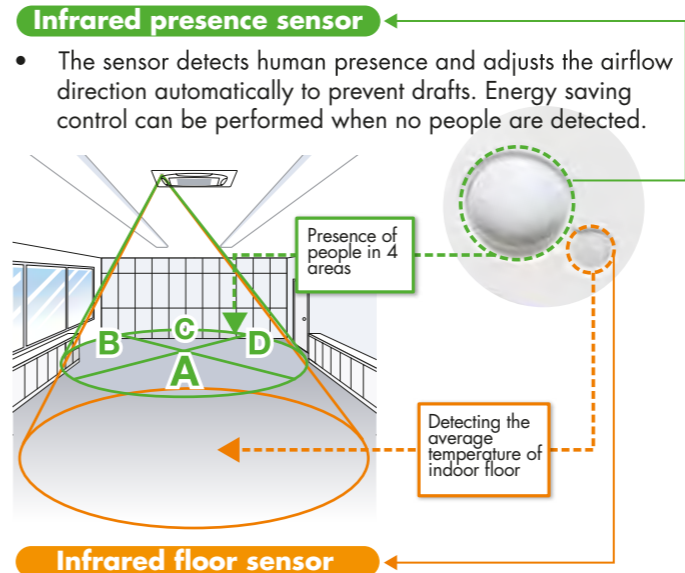
Ceiling Mounted Cassette (Round Flow with Sensing) Type (Optional)

**FXFSQ25S / FXFSQ32S / FXFSQ40S
FXFSQ50S / FXFSQ63S / FXFSQ80S
FXFSQ100S / FXFSQ125S**



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

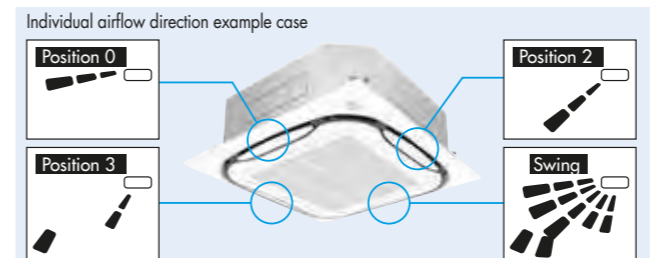
- Dual sensors detect the presence of people and floor temperature to provide comfortable air-conditioning and energy savings.



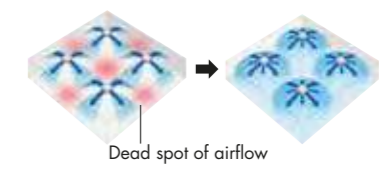
- The sensor detects human presence and adjusts the airflow direction automatically to prevent drafts. Energy saving control can be performed when no people are detected.
- The sensor detects the floor temperature and automatically adjusts operation of the indoor unit to reduce the temperature difference between the ceiling and the floor.

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.

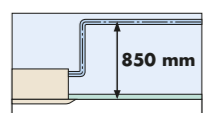


- Energy efficiency has been improved. Thanks to the adoption of a new heat exchanger with smaller tubes, DC fan motor and DC drain pump motor.
- Low operation sound level

FXFQ-S	25/32	40	50	63	80	100	125
Sound level (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.



VRV Indoor Units

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

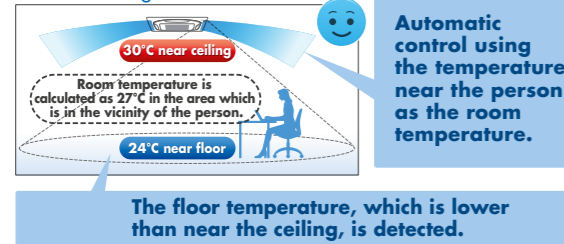
Sensing function

- Auto airflow rate mode + Auto airflow direction mode
- Floor temperature is detected and over cooling prevented.

Without sensing function



With sensing function



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.

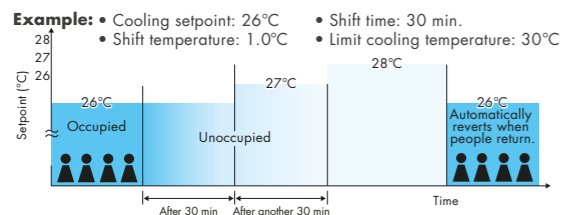
Comfortable airflow

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.



If people do not return, the air conditioner will raise the temperature 1°C every 30 minutes and then operate at 30°C.

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

Sensing sensor stop mode^{1, 2}

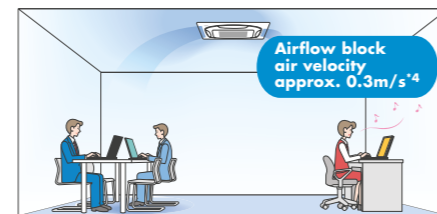
- When there are no people in a room, the system stops automatically.

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

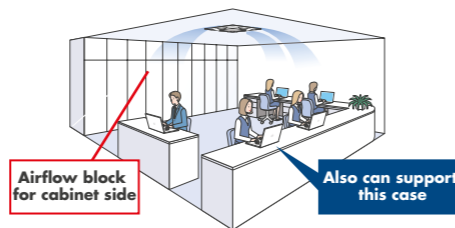
¹ These functions are not available when using the group control system.
² User can set these functions with remote controller.

Airflow block function

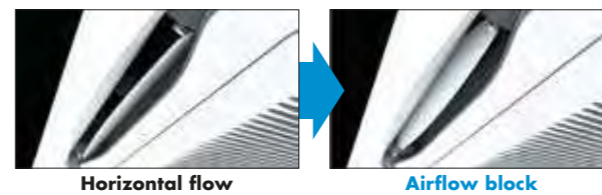
- Total comfort by individual airflow direction control and newly-equipped "airflow block function"



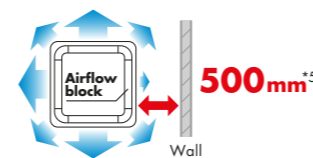
Airflow block function prevents uncomfortable drafts by reducing air velocity to approx. 0.3m/s.⁴



- 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.



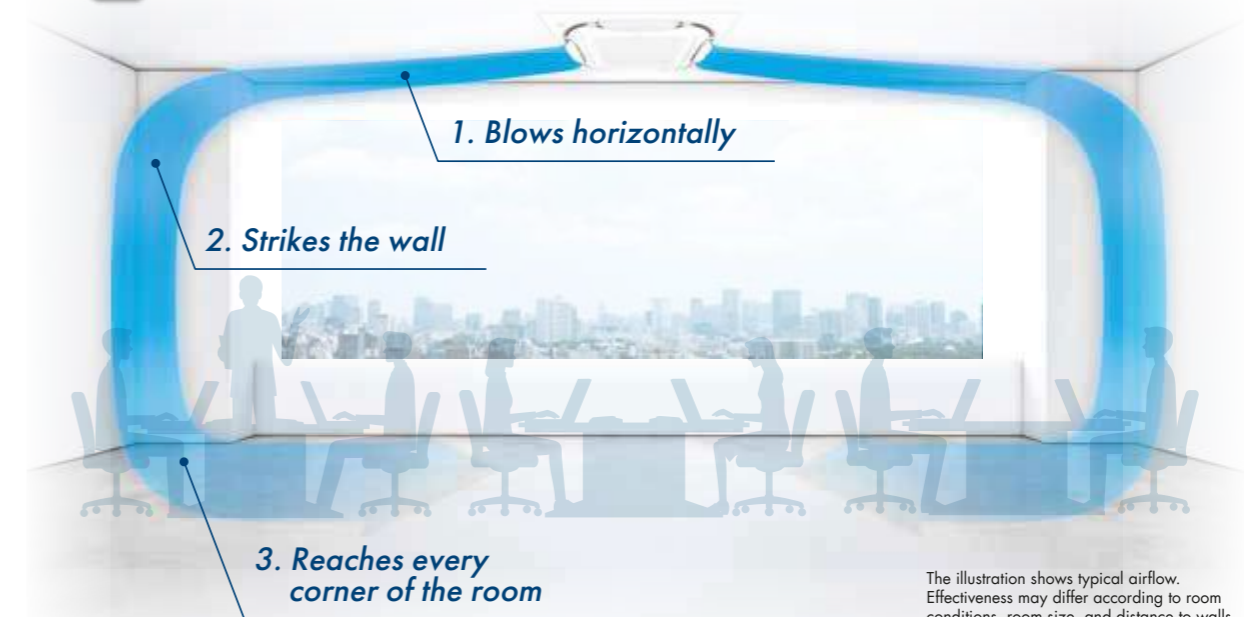
³ Works in one direction only.
⁴ In case of FXFG63S type (Data is based on Daikin research.)
⁵ A gap of 1500 mm is required if the air block function is not used.

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow without Sensing) Type (Optional)

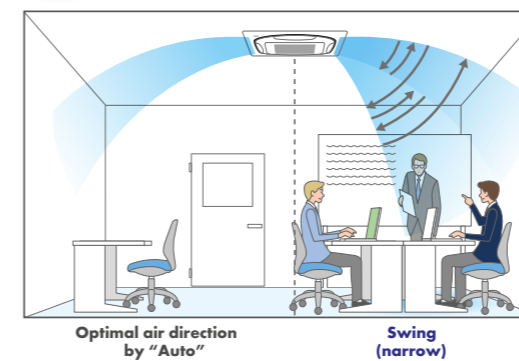
360° airflow improves temperature distribution and offers a comfortable living environment.

New Circulation Airflow

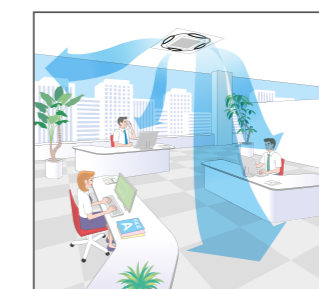


The illustration shows typical airflow. Effectiveness may differ according to room conditions, room size, and distance to walls.

New Direct Airflow



Individual Airflow Direction Control



The illustration shows typical airflow.

Circulation Air Flow

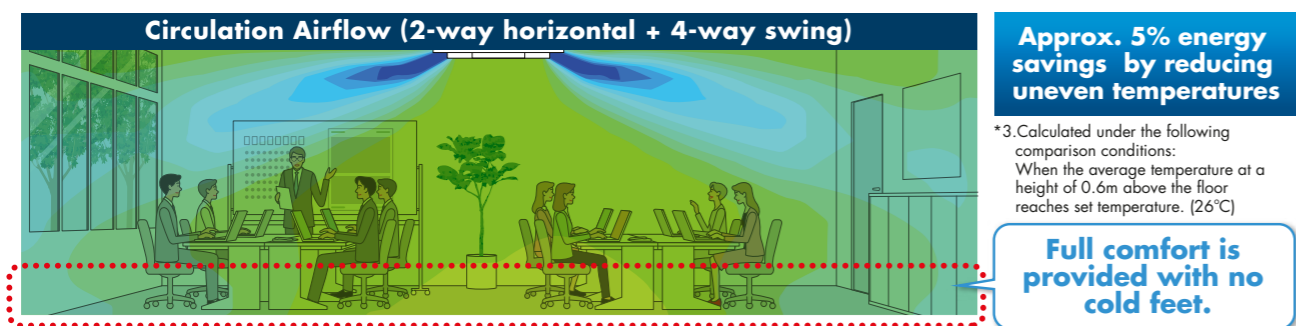
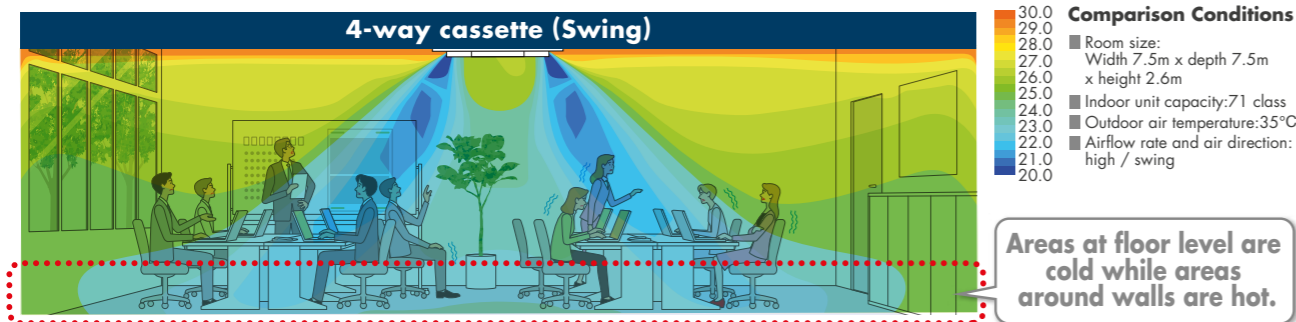
*1. Applicable when wired remote controller BRC1E62 is used.
*2. Not applicable when using individual airflow direction control.

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

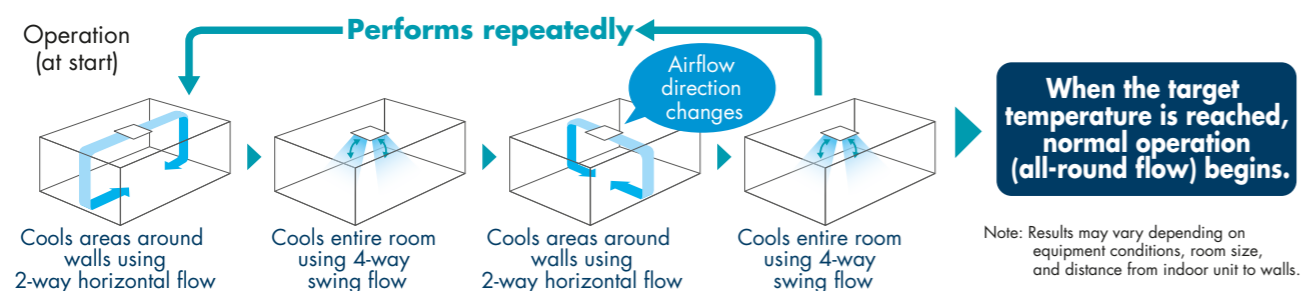
During 2-way horizontal flow



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



Configurations of Circulation Airflow



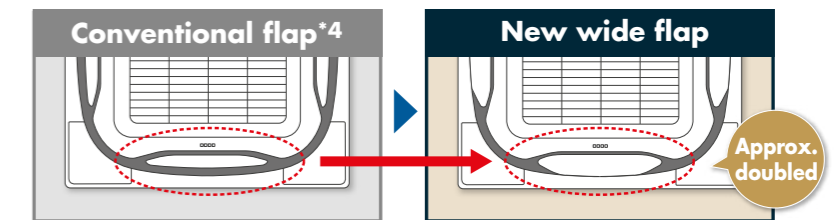
Note: Results may vary depending on equipment conditions, room size, and distance from indoor unit to walls.

Three technologies that achieved circulation airflow

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

1 Use of new wide flaps (Straight)

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



*4. FFXQ-S model

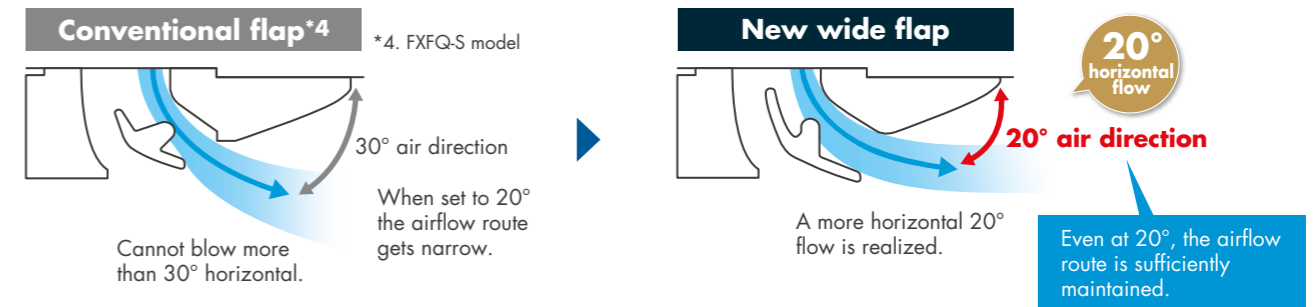
New wide flap construction inhibits ceiling dirt and grime

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



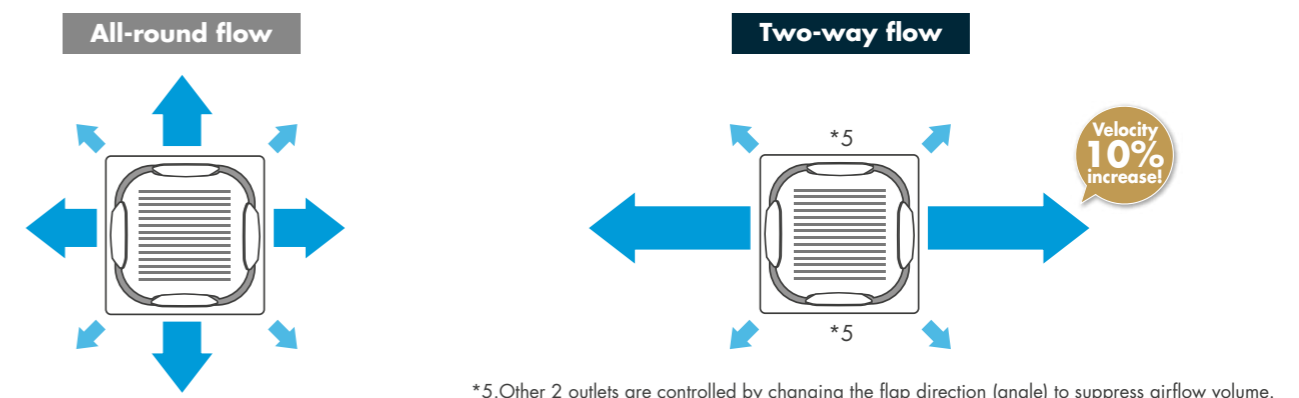
2 Optimizing airflow angle (Horizontally)

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



3 Increased velocity in 2-way flow (Strongly)

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



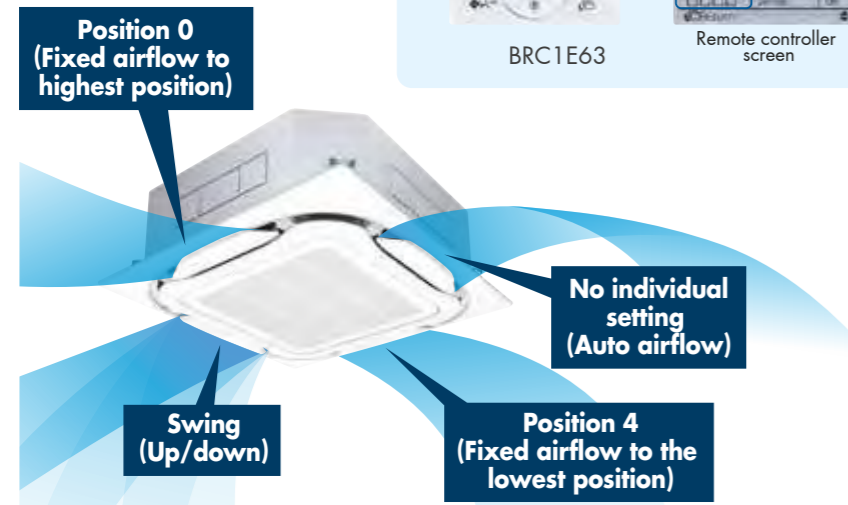
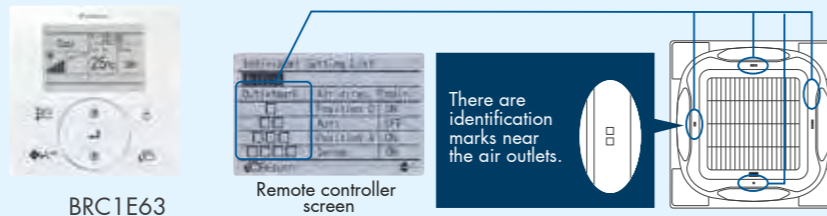
*5. Other 2 outlets are controlled by changing the flap direction (angle) to suppress airflow volume.

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

Comfortable air conditioning for all room layouts and Conditions

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

Easy setting is possible with a wired remote controller.



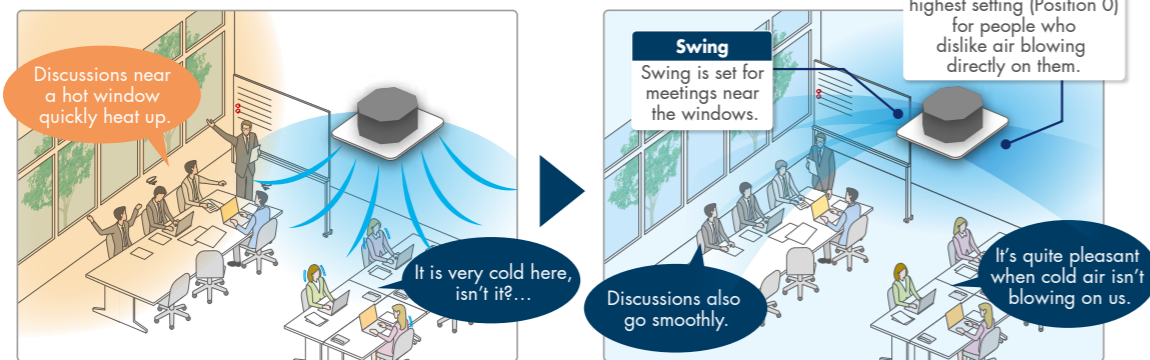
Individual airflow settings

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

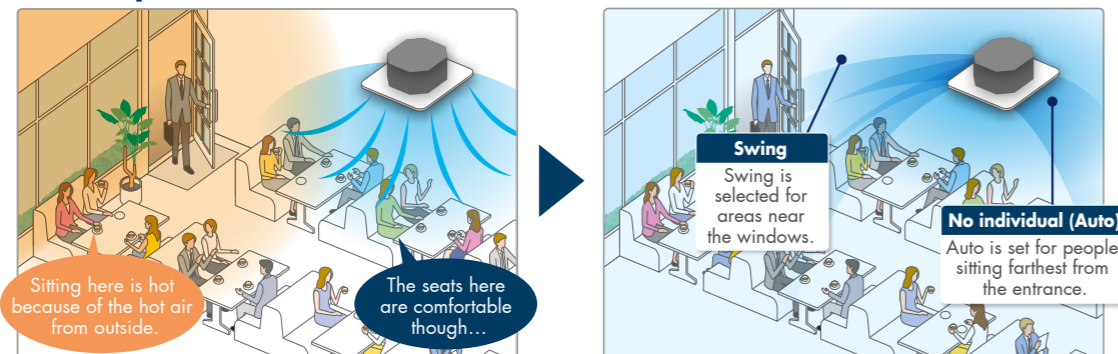
Individual settings are possible as stated above.

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

For offices



For shops and restaurant



VRV Indoor Units

Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ20M / FXZQ25M / FXZQ32M
FXZQ40M / FXZQ50M



Quiet, compact, and designed for user comfort

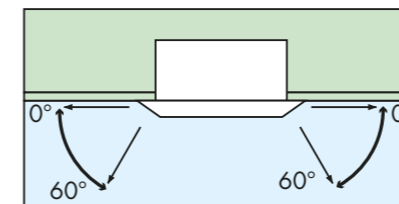
- Dimensions correspond with 600 mm X 600 mm architectural module ceiling design specifications.

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

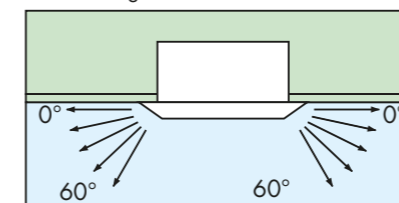
Comfortable airflow

- Wide discharge angle: 0° to 60°

- Auto swing

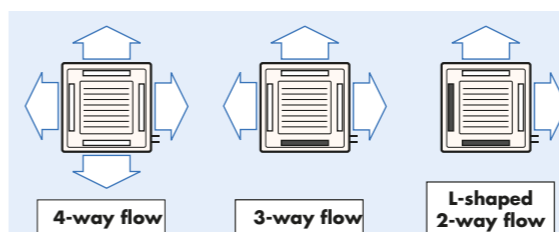


- Fixed angles: 5 levels



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

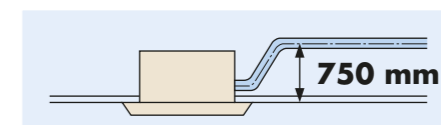
- 2-, 3-, and 4-way airflow patterns are available, enabling installation in the corner of a room.



*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

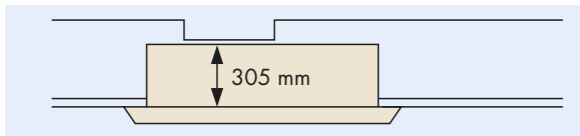
Ceiling Mounted Cassette (Double Flow) Type

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.

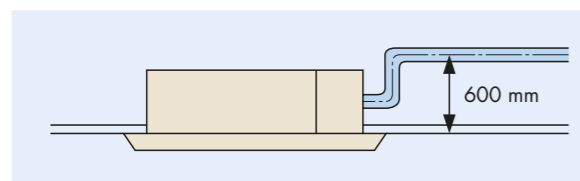


(When a high-efficiency filter is attached, the unit's height is 400 mm.)

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



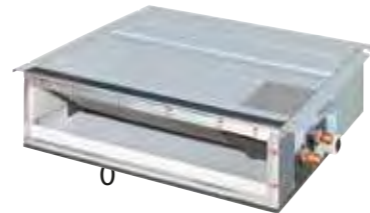
- Single-flow type allows effective air discharge from corner or from drop-ceiling
- Dual-Flap for better air flow coverage
- United Grill design-Flap closes completely when AC not in use
- 3D airflow-Circulates a cloud of air right to the corners of even large spaces
- Easy maintenance-Screw-less design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



VRV Indoor Units

Slim Ceiling Mounted Duct Type

Slim design, quietness and static pressure switching

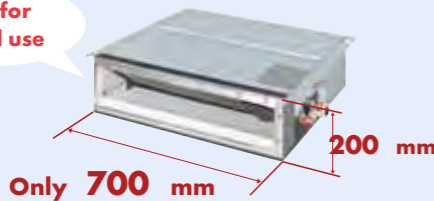


Suited to use in drop-ceilings

FXDQ20PD / FXDQ25PD / FXDQ32PD

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

Great for hotel use



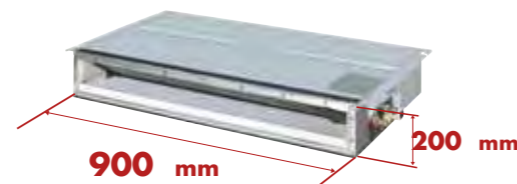
- Control of the airflow rate has been improved from 2-step to 3-step control.

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

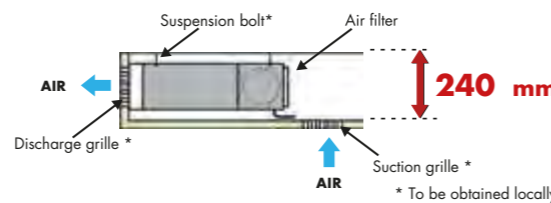
* The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).
 * Values are based on the following conditions:
 FXDQ-PB: external static pressure of 10 Pa; FXDQ-NB: external static pressure of 15 Pa.

FXDQ40ND / FXDQ50ND / FXDQ63ND

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



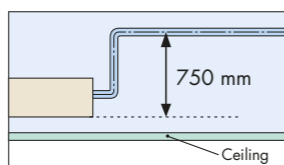
* 1,100 mm in width for the FXDQ63NB model.



- 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



VRV Indoor Units

Ceiling Mounted Duct Type

VRT Smart Control

**FXMQ-PB40P / FXMQ-PB50P / FXMQ-PB63P
 FXMQ-PB80P / FXMQ-PB100P / FXMQ-PB125P
 FXMQ-PB140P**



Middle and high static pressure allows for flexible duct design

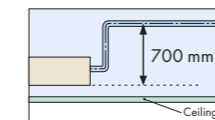
- A DC fan motor increases the external static pressure capacity range to include middle to high static pressures, increasing design flexibility.

30 Pa-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.

FXMQ-P	40	50	63	80/100	125	140
Sound level (HH/H/L)	39/37/35	41/39/37	42/40/38	43/41/39	44/42/40	46/45/43

Energy-efficient

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

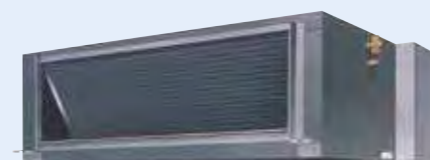
Improved ease of installation

- Airflow rate can be controlled using a remote controller during test 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 FXMQ40P-125P.

Improved ease of maintenance

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

**FXMQ170N /FXMQ200 N
 FXMQ250N**



Simplified Static Pressure Control

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

VRV Indoor Units

Ceiling Suspended Type

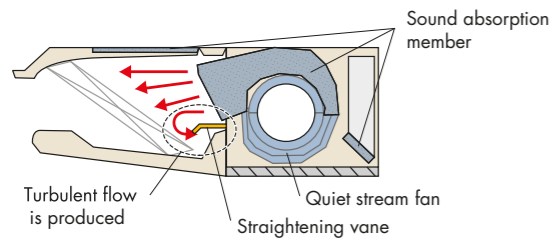
**FXHQ32MA / FXHQ63MA
FXHQ100MA**



Slim body with quiet and wide airflow

Adoption of QUIET STREAM FAN

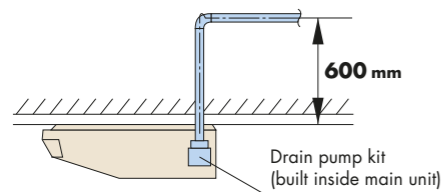
Uses the quiet stream fan and many more advanced technologies.



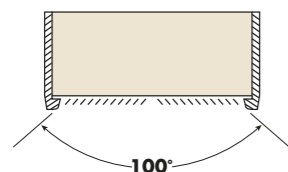
Low operation sound level (dB(A))			
FXHQ-MA	32	63	100
Sound level (H/L)	36/31	39/34	45/37

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 and makes cleaning simpler.



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

**FXAQ20AR / FXAQ25AR
FXAQ32AR / FXAQ40AR
FXAQ50AR / FXAQ63AR**



Stylish flat panel design harmonised with your interior décor

- Stylish flat panel design creates a graceful harmony that enhances any interior space.
- Flat panel can be cleaned with only the single pass of a cloth across their smooth surface.

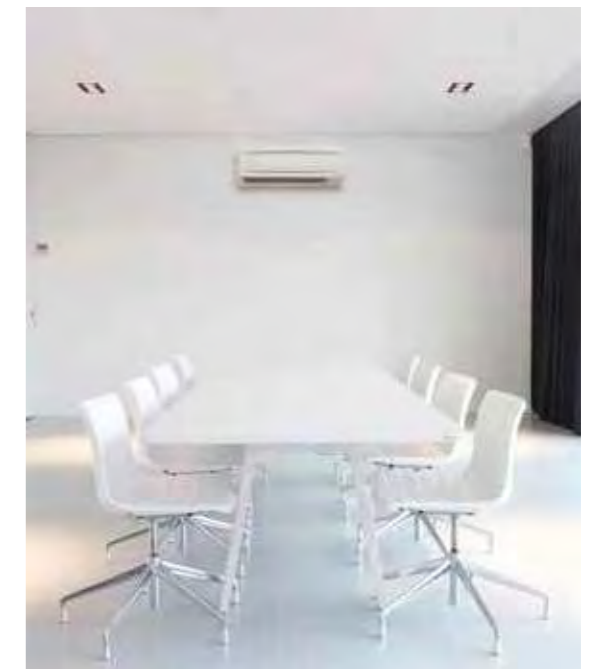
Flat panel can also be easily removed and washed for more thorough cleaning.

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

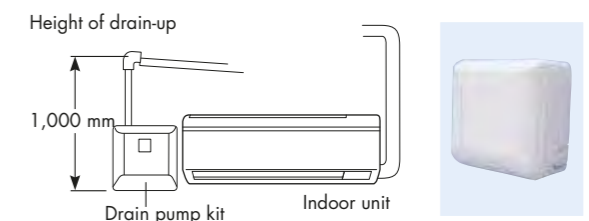
- Drain pan and air filter can be kept clean by mould-proof polystyrene.
- Vertical auto-swing realises efficiency of air distribution. The louvre closes automatically when the unit stops.
- 5 steps of discharge angle can be set by remote controller.
- Discharge angle is automatically set at the same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

Flexible installation

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



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



VRV Indoor Units

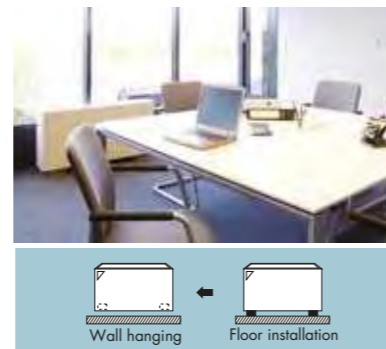
Floor Standing Type

**FXLQ32MA / FXLQ50MA
FXLQ63MA**



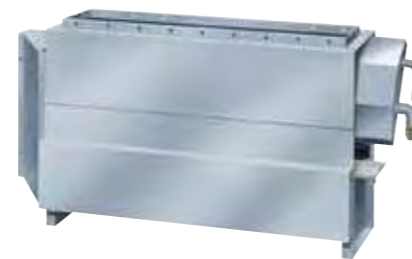
Suitable for perimeter zone airconditioning

- 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



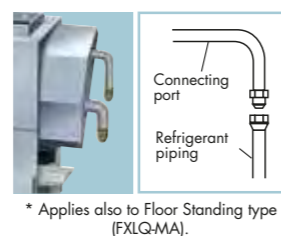
Concealed Floor Standing Type

**FXNQ32MA / FXNQ50MA
FXNQ63MA**



Designed to be concealed in the perimeter skirting-wall

- 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.



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



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

4-Way Flow Ceiling Suspended Type

FXUQ71A / FXUQ100A



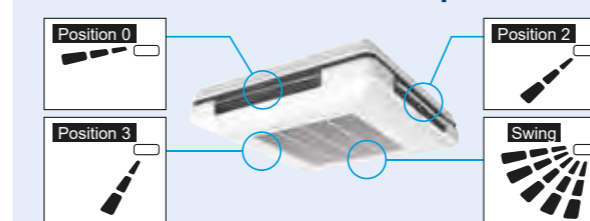
This slim and stylish indoor unit achieves optimum air distribution, and can be installed without a ceiling cavity.

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

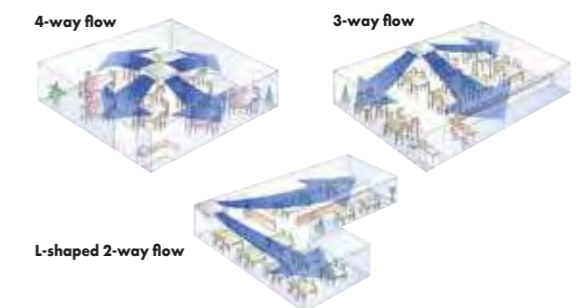


- With adoption of the individual flap control, airflow direction adjustment can be individually set for each air outlet. Five directions of airflow and auto-swing can be selected with wired remote controller BRC1E62, which realizes the optimum air distribution.

Individual airflow direction example case



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

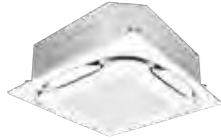




SPECIFICATIONS

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow) Type



MODEL		FXFSQ25ARV16	FXFSQ32ARV16	FXFSQ40ARV16	FXFSQ50ARV16	FXFSQ63ARV16	FXFSQ80ARV16	FXFSQ100ARV16	FXFSQ125ARV16	FXFSQ140ARV16
Power supply		1-Phase, 220-240V, 50Hz								
Cooling capacity	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14	16
Heatin capacity	Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	47,800	54,600
	kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	14	16
Casing		Galvanised steel plate								
Airflow rate (HH/HM/M/ML/L)	m ³ /min	13/12.5/11.5/11/10	13/12.5/11.5/11/10	17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
	cfm	459/441/406/388/353	459/441/406/388/353	600/477/441/424/388	812/724/671/515/388	830/742/706/545/477	865/777/724/706/530	1183/1077/953/830/742	1218/1112/1006/901/812	1254/1148/1042/936/812
Sound level (H/L)	dB(A)	30/29.5/28.5/28/27	30/29.5/28.5/28/27	35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35
Dimensions (HxWxD)	mm	256x840x840	256x840x840	256x840x840	256x840x840	256x840x840	256x840x840	298x840x840	298x840x840	298x840x840
Machine weight	kg	19	19	19	23	23	23	26	26	26
Piping connections	Liquid (Flare)	φ6.4								
	Gas (Flare)	φ12.7								
	Drain	VP25 (External Dia, 32/Internal Dia, 25)								
Panel (Non sensi)	Model	BYCQ125EAF6 (Fresh White)								
	Dimensions(HxWxD)	50X950X950								
	Weight	5.5								
Panel (Sensi)	Model	BYCQ125EEF6 (Fresh White)								
	Dimensions(HxWxD)	50X950X950								
	Weight	5.5								

Note: Specifications are based on the following conditions;

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

Ceiling Mounted Cassette (Compact Multi-Flow) Type



MODEL		FXZQ20MVE	FXZQ25MVE	FXZQ32MVE	FXZQ40MVE	FXZQ50MVE
Power supply		1-phase, 220-240 V/220 V, 50 Hz				
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100
	kW	2.2	2.8	3.6	4.5	5.6
Casing		Galvanised steel plate				
Airflow rate (H/L)	m ³ /min	9/7		9.5/7.5	11/8	14/10
	cfm	318/247		335/265	388/282	493/353
Sound level (H/L)	230 V dB(A)	30/25		32/26	36/28	41/33
Dimensions (HxWxD)	mm	286x575x575				
Machine weight	kg	18				
Piping connections	Liquid (Flare)	φ 6.4				
	Gas (Flare)	φ 12.7				
	Drain	VP20 (External Dia, 26/Internal Dia, 20)				
Panel (Option)	Model	BYFQ60B8W1				
	Colour	White (6.5Y9.5/0.5)				
	Dimensions(HxWxD)	55x700x700				
	Weight	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							
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	47,800
	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Casing		Galvanised steel plate							
Airflow rate (HH/M/L)	m ³ /min	7/5	9/6.5	9/6.5	12/9	12/9	16.5/13	26/21	33/25
	cfm	247/177	318/230	318/230	424/318	424/318	582/459	918/741	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 (HxWxD)	mm	305x775x600	305x775x600	305x775x600	305x990x600	305x990x600	305x1,175x600	305x1,665x600	305x1,665x600
Machine weight	kg	26.0	26.0	26.0	31.0	32.0	35.0	47.0	48.0
Piping connections	Liquid (Flare)	mm							
	Gas (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
	Drain	ø 12.7	ø 12.7	ø 12.7	ø 12.7	ø 12.7	ø 15.9	ø 15.9	ø 15.9
		VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model	BYBC32G-W1		BYBC50G-W1		BYBC63G-W1		BYBC125G-W1	
	Colour	White (10Y9/0.5)							
	Dimensions(HxWxD)	mm	53x1,030x680	53x1,030x680	53x1,030x680	53x1,245x680	53x1,245x680	53x1,430x680	53x1,920x680
	Weight	kg	8.0	8.0	8.0	8.5	8.5	9.5	12.0

Slim Ceiling Mounted Duct Type (700 mm width type)



MODEL	with drain pump	FXDQ20PDV36	FXDQ25PDV36	FXDQ32PDV36
Power supply		1-phase, 220-240 V/220 V, 50 Hz		
Cooling capacity	Btu/h	7,500	9,600	12,300
	kW	2.2	2.8	3.6
Casing		Galvanised steel plate		
Airflow rate (HH/H/L)	m ³ /min	8.0/7.2/6.4	8.0/7.2/6.4	8.0/7.2/6.4
	cfm	282/254/226	282/254/226	282/254/226
External static pressure	Pa	30-10 ^{*2}		
Sound level (HH/H/L) ^{*1*3}	dB(A)	33/31/29	33/31/29	33/31/29
Dimensions (HxWxD)	mm	200x700x620	200x700x620	200x700x620
Machine weight	kg	23.0	23.0	23.0
Piping connections	Liquid (Flare)	mm		
	Gas (Flare)	ø 6.4	ø 6.4	ø 6.4
	Drain	ø 12.7	ø 12.7	ø 12.7
		VP20 (External Dia, 26/Internal Dia, 20)		

Ceiling Mounted Cassette Corner Type

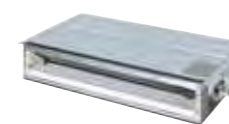


MODEL		FXEQ20AV36	FXEQ25AV36	FXEQ32AV36	FXEQ40AV36	FXEQ50AV36	FXEQ63AV36	
Power supply		1-phase, 230V, 50 Hz						
Cooling Capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
	kW	2.2	2.8	3.6	4.5	5.6	7.1	
Casing/Colour		Galvanised steel plate						
Dimensions (HxWxD)		200x840x470			200x1240x470			
Airflow Rate (H/HM/M/ML/L)	Cooling	m ³ /min	6.0/5.4/4.9/4.4/4.	6.9/6.4/5.8/5.3/4.	8.0/7.5/7.0/6.3/5.	9.8/8.8/7.8/7.0/6.	12.5/11.4/10.4/9.5/8.	15.0/13.6/12.2/11.4/9.8
		cfm	212/191/173/155/14	244/226/205/187/16	282/265/247/222/19	346/311/275/247/21	441/402/367/335/30	530/480/431/388/346
Piping connections	Liquid Pipes	mm						
	Gas Pipes	6.4 (Flare Connection)	6.4 (Flare Connection)	6.4 (Flare Connection)	6.4 (Flare Connection)	6.4 (Flare Connection)	9.5 (Flare Connection)	
	Drain Pipe	mm						
		PVC 26 (External dia. 26) (Internal dia. 20)						
Mass	Kg	17	17	17	18	23	23	
Sound Pressure Level (H/HM/M/ML/L)	Cooling	dB (A)	30/29/28/27/26	32/31/30/29/28	35/34/33/32/30	38/37/35/33/31	38/37/35/33/31	43/41/39/37/35
Decoration Panel (Options)	Model	BYEP40AW16	BYEP40AW16	BYEP40AW16	BYEP40AW16	BYEP63AW16	BYEP63AW16	
	Panel Colour	Fresh White						
	Dimensions (HxWxD)	mm			80x950x550			80x1350x550
	Air Filter	Resin net (with mould resistance)						
Mass	Kg	8			10			

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0m
 - 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 drain pump	FXDQ40NDV36	FXDQ50NDV36	FXDQ63NDV36
Power supply		1-phase, 220-240 V/220 V, 50 Hz		
Cooling capacity	Btu/h	15,400	19,100	24,200
	kW	4.5	5.6	7.1
Casing		Galvanised steel plate		
Airflow rate (HH/H/L)	m ³ /min	10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
	cfm	371/335/300	441/388/353	583/512/459
External static pressure	Pa	44-15 ^{*2}		
Sound level (HH/H/L) ^{*1*3}	dB(A)	34/32/30	35/33/31	36/34/32
Dimensions (HxWxD)	mm	200x900x620	200x900x620	200x1,100x620
Machine weight	kg	27.0	28.0	31.0
Piping connections	Liquid (Flare)	mm		
	Gas (Flare)	ø 6.4	ø 6.4	ø 6.4
	Drain	ø 12.7	ø 12.7	ø 12.7
		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.
 - Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
 - Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
- During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- * 1: Values are based on the following conditions: FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: 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-PD models and 15 Pa for FXDQ-ND models.)
 - * 3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

VRV Indoor Units

Ceiling Mounted Duct Type



MODEL		FXMQ40PBV1	FXMQ50ARV1	FXMQ63ARV1	FXMQ80ARV1	FXMQ100ARV1	FXMQ125ARV1	FXMQ140ARV1
Power supply		1 phase, 230 V, 50Hz						
Cooling capacity	Btu/h	15,400	19,100	24,200	30,700	38,200	47,800	54,600
	kW	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Casing		Galvanised Steel Plate						
Airflow rate (H/H/L)	m ³ /min	16/13/11	18/16.5/15	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
	cfm	565/459/388	635/582/530	688/618/565	883/794/706	1130/953/812	1377/1165/988	1624/1377/1130
External static pressure	Pa	100(160-30)*1	100(200-50)*1	100(200-50)*1	100(200-50)*1	100(200-50)*1	100(200-50)*1	100(140-50)*1
Sound level (H/H/L)	dB(A)	39/37/35	41/39/37	42/40/38	43/41/39	44/42/39	43/41/39	46/45/43
Dimensions (HxWxD)	mm	300x700x700	300x1000x700	300x1000x700	300x1000x700	300x1400x700	300x1400x700	300x1400x700
Machine weight	kg	27.0	35.00	35.0	35.0	45.0	45.0	46.0
Piping connections	Liquid (Flare)	6.4	6.4	9.5	9.5	9.5	9.5	9.5
	Gas (Flare)	12.7	12.7	15.9	15.9	15.9	15.9	15.9
	Drain	VP25 (External dia.32 Internal dia.25)						

Note: Specifications are based on the following conditions

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- 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 External static pressure is changeable in 13 stages (FXMQ40PBV1), 14 stages (FXMQ50 / 63 / 80 / 100 / 125PBV1), 10 stages (FXMQ140PBV1) by remote controller.

Ceiling Mounted Duct Type



MODEL		FXMQ170NVE6	FXMQ200NVE6	FXMQ250NVE6
Power supply		1-phase, 220, 240 V/220 V, 50 Hz		
Cooling capacity	Btu/h	65,800	76,400	95,500
	kW	19.3	22.4	28
Casing		Galvanised steel plate		
Airflow rate (H/L)	m ³ /min	58/50	65/58	80/73
	cfm	2,047/1,765	2,295/2,047	2,825/2,578
External static pressure	Pa	100-140*2	100-200*2	190-270*2
Sound level (H/L) 220V	dB(A)	45/42	47/45	49/47
Dimensions (HxWxD)	mm	440x1,190x1,090	440x1,190x1,090	440x1,490x1,090
Machine weight	kg	110	110	130
Piping connections	Liquid (Flare)	ø 9.5	ø 9.5	ø 9.5
	Gas (Flare)	ø 19.1	ø 19.1	ø 22.2
	Drain	External Dia 32		



MODEL		FXMQ40ARV1	FXMQ50ARV1	FXMQ63ARV1	FXMQ80ARV1	FXMQ100ARV1
Power supply		1 phase, 230 V, 50Hz				
Cooling capacity	Btu/h	15,400	19,100	24,200	30,700	38,200
	kW	4.5	5.6	7.1	9.0	11.2
Casing		Galvanised Steel Plate				
Airflow rate (H/L)	m ³ /min	15/12	19/16	24/20	30/25	34/29
	cfm	530/424	671/565	847/706	1059/883	1200/1024
External static pressure	Pa	30(50)*1	30(50)*1	30(50) ¹	30(50) ¹	30(60) ¹
Sound level (H/L)	dB(A)	39/37	41/39	42/40	43/41	44/42
Dimensions (HxWxD)	mm	300x700x700	300x700x700	300x1000x700	300x1000x700	300x1000x700
Machine weight	kg	27.0	28.0	35.0	35.0	36.0
Piping connections	Liquid (Flare)	6.4	6.4	9.5	9.5	9.5
	Gas (Flare)	12.7	12.7	15.9	15.9	15.9
	Drain	VP25 (External Dia, 32/Internal Dia, 25)				

* 1 Maximum static pressure

Ceiling Suspended Type



MODEL		FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE
Power supply		1-phase, 220-240 V/220 V, 50 Hz		
Cooling capacity	Btu/h	12,300	24,200	38,200
	kW	3.6	7.1	11.2
Casing		White (10Y9/0.5)		
Airflow rate (H/L)	m ³ /min	12/10	17.5/14	25/19.5
	cfm	424/353	618/494	883/688
Sound level (H/L) 220V	dB(A)	36/31	39/34	45/37
Dimensions (HxWxD)	mm	195x960x680	195x1,160x680	195x1,400x680
Machine weight	kg	24.0	28.0	33.0
Piping connections	Liquid (Flare)	ø 6.4	ø 9.5	ø 9.5
	Gas (Flare)	ø 12.7	ø 15.9	ø 15.9
	Drain	VP20 (External Dia, 26/Internal Dia, 20)		

Note: Specifications are based on the following conditions

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
- Sound level: **FXMQ-MA** Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. **FXHQ-MA** Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- ★ 1: Power consumption values are based on conditions of standard external static pressure.
- ★ 2: External static pressure is changeable to change over the connectors inside electrical box, this pressure means "Standard-High static pressure".

VRV Indoor Units

4-way Flow Ceiling Suspended Type



MODEL		FXUQ71AVEB	FXUQ100AVEB
1-phase, 220-240 V/220-230V, 50 Hz			
Cooling capacity	Btu/h	27,300	38,200
	kW	8.0	11.2
Fresh white			
Airflow rate (H/L)	m ³ /min	22.5/19.5/16	31/26/21
	cfm	794/688/565	1,094/918/741
Sound level (H/M//L)	dB(A)	40/38/36	47/44/40
Dimensions (HxWxD)	mm	198x950x950	
Machine weight	kg	26	27
Piping connections	Liquid (Flare)	9.5	
	Gas (Flare)	15.9	
	Drain	VP20 (External Dia, 26/Internal Dia, 20)	

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- 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		FXAQ20ARV1	FXAQ25ARV1	FXAQ32ARV1	FXAQ40ARVE6	FXAQ50ARVE6	FXAQ63ARVE6
1-phase, 220-240 V/220 V, 50 Hz							
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
	kW	2.5	3.2	4.0	5.0	6.3	8.0
White (N9.5)							
Airflow rate (H/L)	m ³ /min	7.5/4.5	9/5	11/5.5	13/9	15/12	19/14
	cfm	265/159	318/177	388/194	459/318	530/424	671/494
Sound level (H/L)	dB(A)	35/31	36/31	38/31	39/34	42/37	47/41
Dimensions (HxWxD)	mm	298x929x258	298x929x258	298x929x258	298x929x258	298x929x258	298x929x258
Machine weight	kg	13	13	13	13	13	13
Piping connections	Liquid (Flare)	φ6.4	φ6.4	φ6.4	φ6.4	φ6.4	φ9.5
	Gas (Flare)	φ12.7	φ12.7	φ12.7	φ12.7	φ12.7	φ15.9
	Drain	VP13 (External Dia, 18/Internal Dia, 13)					

Floor Standing Type / Concealed Floor Standing Type



FXLQ



FXNQ

MODEL		FXLQ32MAVE	FXLQ50MAVE	FXLQ63MAVE
		FXNQ32MAVE	FXNQ50MAVE	FXNQ63MAVE
1-phase, 220-240 V/220 V, 50 Hz				
Power supply				
Cooling capacity	Btu/h	12,300	19,100	24,200
	kW	3.6	5.6	7.1
Casing: FXLQ: Ivory white (5Y7.5/1)/FXNQ: Galvanised steel plate				
Airflow rate (H/L)	m ³ /min	8/6	14/11	16/12
	cfm	282/212	494/388	565/424
Sound level (H/L) 220V	dB(A)	35/32	39/34	40/35
Dimensions (HxWxD)	FXLQ	600x1,140x222	600x1,420x222	600x1,420x222
	FXNQ	610x1,070x220	610x1,350x220	610x1,350x220
Machine weight	FXLQ	30.0	36.0	36.0
	FXNQ	23.0	27.0	27.0
Piping connections	Liquid (Flare)	φ 6.4	φ 6.4	φ 9.5
	Gas (Flare)	φ 12.7	φ 12.7	φ 15.9
	Drain	21O.D.		

Note: Specifications are based on the following conditions

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
- Sound level: (FXAQ-P) Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. (FXLQ-MA, FXNQ-MA) Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Outdoor Units

VRV X

MODEL			RXQ6ARY1	RXQ8ARY1	RXQ10ARY1	RXQ12ARY1	RXQ14ARY1	RXQ16ARY1
Combination units			-	-	-	-	-	-
Power supply			3-phase, 380-415 V, 50 Hz					
Cooling capacity	Btu/h		54,600	76,400	95,500	1,14,000	1,36,000	1,54,000
	kW		16.0	22.4	28.0	33.5	40.0	45.0
Capacity control	%		25~100	20~100	13~100	12~100	11~100	10~100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll Type					
	No. of compressor		1	1	1	1	1	2
Airflow rate	m ³ /min		119	178		191	257	
Dimensions (HxWxD)	mm		1,657X930X765				1,657X1,240X765	
Machine weight	kg		165		175		220	260
Sound level	dB(A)		56	56	57	59	60	60
Operation range	Cooling	°CDB	10 ~ 49					
Refrigerant	Type		R410A					
	Charge	kg	5.9		6.7	6.8	7.4	8.2
Piping connections	Liquid	mm	ø 9.5			ø 12.7		
	Gas	mm	ø 19.1		ø 22.2		ø 28.6	

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.

Cooling Only

VRV X



MODEL			RXQ18ARY1	RXQ20ARY1	RXQ22ARY1	RXQ24ARY1		
Combination units			-	-	RXQ10ARY1	RXQ12ARY1		
Power supply			3-phase, 380-415 V, 50 Hz					
Cooling capacity	Btu/h		1,71,000	1,91,000	2,10,000	2,29,000		
	kW		50.0	56.0	61.5	67.0		
Capacity control	%		10~100	7~100	6~100			
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll Type					
	No. of compressor		2	2	1+1	1+1		
Airflow rate	m ³ /min		257	297	178+191	191+191		
Dimensions (HxWxD)	mm		1,657X1,240X765			(1,657X930X765)+(1,657X930X765)		
Machine weight	kg		260	285	175+175			
Sound level	dB(A)		61	65	61	62		
Operation range	Cooling	°CDB	10 ~ 49					
Refrigerant	Type		R410A					
	Charge	kg	8.4	11.8	6.7+6.8	6.8+6.8		
Piping connections	Liquid	mm	ø 15.9					
	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 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		RXQ26ARY1	RXQ28ARY1	RXQ30ARY1	RXQ32ARY1	RXQ34ARY1	RXQ36ARY1
Combination units		RXQ12ARY1	RXQ12ARY1	RXQ12ARY1	RXQ14ARY1	RXQ16ARY1	RXQ18ARY1
		RXQ14ARY1	RXQ16ARY1	RXQ18ARY1	RXQ18ARY1	RXQ18ARY1	RXQ18ARY1
		—	—	—	—	—	—
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
Capacity control	%	6~100	5~100	5~100	5~100	4~100	5~100
Casing colour		Ivory white (5Y7.5/1)					
Compressor	Type	Hermetically Sealed Scroll Type					
	No. of compressor	1+1	1+2	1+2	1+2	2+2	2+2
Airflow rate	m ³ /min	191+257	191+257	191+257	257+257	257+257	257+257
Dimensions (HxWxD)	mm	(1,657X930X765)+(1,657X1,240X765)			(1,657X1,240X765)+(1,657X1,240X765)		
Machine weight	kg	175+220	175+260		220+260	260+260	
Sound level	dB(A)	63			64		
Operation range	Cooling °CDB	10 ~ 49					
Refrigerant	Type	R410A					
	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 connections	Liquid mm	ø 19.1	ø 19.1	ø 19.1	ø 19.1	ø 19.1	ø 19.1
	Gas mm	ø 34.9	ø 34.9	ø 34.9	ø 34.9	ø 34.9	ø 41.3

Cooling Only

VRV X

								
RXQ38ARY1	RXQ40ARY1	RXQ42ARY1	RXQ44ARY1	RXQ46ARY1	RXQ48ARY1	RXQ50ARY1		
RXQ18ARY1	RXQ20ARY1	RXQ12ARY1	RXQ12ARY1	RXQ14ARY1	RXQ14ARY1	RXQ14ARY1		
RXQ20ARY1	RXQ20ARY1	RXQ12ARY1	RXQ12ARY1	RXQ14ARY1	RXQ16ARY1	RXQ18ARY1		
—	—	RXQ18ARY1	RXQ20ARY1	RXQ18ARY1	RXQ18ARY1	RXQ18ARY1		
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		
Ivory white (5Y7.5/1)								
Hermetically Sealed Scroll Type								
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+257+257		257+257+257		
(1,657X1,240X765)+(1,657X1,240X765)		(1,657X930X765)+(1,657X930X765)+(1,657X1,240X765)		(1,657X1,240X765)+(1,657X1,240X765)+(1,657X1,240X765)				
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		RXQ52ARY1	RXQ54ARY1	RXQ56ARY1	RXQ58ARY1	RXQ60ARY1
Combination units		RXQ16ARY1	RXQ18ARY1	RXQ18ARY1	RXQ18ARY1	RXQ20ARY1
		RXQ18ARY1	RXQ18ARY1	RXQ18ARY1	RXQ20ARY1	RXQ20ARY1
		RXQ18ARY1	RXQ18ARY1	RXQ20ARY1	RXQ20ARY1	RXQ20ARY1
Power supply		3-phase, 380-415 V, 50 Hz				
Cooling capacity	Btu/h	4,95,000	5,12,000	5,32,000	5,53,000	5,73,000
	kW	145	150	156	162	168
Capacity control	%	3~100	3~100	3~100	3~100	2~100
Casing colour		Ivory white (5Y7.5/1)				
Compressor	Type	Hermetically Sealed Scroll Type				
	No. of compressor	2+2+2	2+2+2	2+2+2	2+2+2	2+2+2
Airflow rate	m ³ /min	257+257+257		257+297+297		
Dimensions (HxWxD)	mm	(1,657X1,240X765 + 1,657X1,240X765 + 1,657X1,240X765)				
Machine weight	kg	260+260+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				
Refrigerant	Type	R410A				
	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 connections	Liquid mm	Ø 19.1	Ø 19.1	Ø 19.1	Ø 19.1	Ø 19.1
	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
& OPTION LIST

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	BHFP22P100	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		375 to 975 (1,200)	48 (60)
32	800	RXQ32A	RXQ12A + RXQ20A		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)	64 (64)
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	625 to 1,625 (1,625)		
52	1,300	RXQ52A	RXQ16A + RXQ18A x 2	650 to 1,690 (1,690)		
54	1,350	RXQ54A	RXQ18A x 3	675 to 1,755 (1,755)		
56	1,400	RXQ56A	RXQ18A x 2 + RXQ20A	700 to 1,820 (1,820)		
58	1,450	RXQ58A	RXQ18A + RXQ20A x 2	725 to 1,885 (1,885)		
60	1,500	RXQ60A	RXQ20A x 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) Type

No.	Item	Type	Round Flow Type		
			FXFSQ25ARV1 FXFSQ32ARV1 FXFSQ40ARV1	FXFSQ50ARV1 FXFSQ63ARV1 FXFSQ80ARV1	FXFSQ100ARV1 FXFSQ125ARV1 FXFSQ140ARV1
1	Decoration panel	Standard panel	Fresh white	BYCQ125EAF *	
2	Sealing material of air discharge outlet ⁴	1 Outlet	KDBH551C160		
		2 Outlet	KDBH552C160		
3	Panel spacer			KDBP55H160FA	
4	Fresh air intake kit	Chamber type ^{5,6}	Without T-duct joint	KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) ⁸	
			With T-duct joint	KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) ⁸	
		Direct installation type ⁷	KDDP55X160A		
5	High-efficiency filter unit ⁹ (Including filter chamber)	(Colorimetric method 65%)	KAFP556C80	KAFP556C160	
		(Colorimetric method 90%)	KAFP557C80	KAFP557C160	
6	Replacement high-efficiency filter ^{9,10}	(Colorimetric method 65%)	KAFP552B80	KAFP552B160	
		(Colorimetric method 90%)	KAFP553B80	KAFP553B160	
7	Filter chamber			KDDFP55C160	
8	Replacement long-life filter			KAFP551K160	
9	Replacement long-life filter (Auto grille panel)			KAFP551H161	
10	Ultra long-life filter unit (Including filter chamber) ⁹			KAFP55C160	
11	Replacement ultra long-life filter ^{9,10}			KAFP55H160H	
12	Branch duct chamber ⁴			KDJP55C80	KDJP55C160
13	Insulation kit for high humidity ^{9,11}			KDTP55K80	KDTP55K160
14	Remote controller	Wireless type	Cooling only	BRC4M150W16	
			Receiver	BRC7M632F-6	
		Wired type	BRC1E63		
15	Adaptor for wiring ¹²			KRP1C11A	
16	Wiring adaptor for electrical appendices ¹²			KRP4AA53	
17	Installation box for adaptor PCB			KRP1H98A	
18	Remote sensor (for indoor temperature)			KRCS01-5B	

Note: 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 temperature sensing.
 7. 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.
 8. Please order using the names of both components instead of set name.
 9. This option cannot be installed to designer panel and auto grille panel.
 10. Filter chamber is required.
 11. Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.
 12. Installation box for adaptor PCB(KRP1H98A) is necessary.
 *These panels do not contain the sensing function.

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			KDDQ44XA60		

Ceiling Mounted Cassette (Double Flow) Type

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

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

Ceiling Mounted Cassette Corner Type

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

Slim Ceiling Mounted Duct Type (700 mm width type)

No.	Item	Type	FXDQ20PD	FXDQ25PD	FXDQ32PD
1	Insulation kit for high humidity			KDT25N32	

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

No.	Item	Type	FXDQ40ND	FXDQ50ND	FXDQ63ND
1	Insulation kit for high humidity			KDT25N50	KDT25N63

Ceiling Mounted Duct Type

No.	Item	Type	FXMQ40PB	FXMQ50PB FXMQ63PB FXMQ80PB	FXMQ100PB FXMQ125PB FXMQ140PB	FXMQ200MA FXMQ250MA
1	Drain pump kit					KDU30L250VE
2	High efficiency filter	65%	KAF372AA56	KAF372AA80	KAF372AA160	KAFJ372L280
		90%	KAF373AA56	KAF373AA80	KAF373AA160	KAFJ373L280
3	Filter chamber		KDDF37AA56	KDDF37AA80	KDDF37AA160	KDJ3705L280
4	Long life replacement filter		KAF371AA56	KAF371AA80	KAF371AA160	KAFJ371L280
5	Long life filter chamber kit		KAF375AA56	KAF375AA80	KAF375AA160	
6	Service panel	White	KTBJ25KA56W	KTBJ25KA80W	KTBJ25KA160W	-
		Fresh white	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
		Brown	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T	
7	Air discharge adaptor		KDAJ25K56A	KDAJ25K71A	KDAJ25K140A	

VRV Indoor Units

Ceiling Suspended Type

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

Wall Mounted Type

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

Floor Standing Type

No.	Item	Type	FXLQ32MA	FXLQ50MA	FXLQ63MA
1	Long life replacement filter		KAFJ361K45		KAFJ361K71

Concealed Floor Standing Type

No.	Item	Type	FXNQ32MA	FXNQ50MA	FXNQ63MA
1	Long life replacement filter		KAFJ361K45		KAFJ361K71

Outdoor Units

VRV X

Optional Accessories		RXQ6ARY1 RXQ8ARY1 RXQ10ARY1	RXQ12ARY1	RXQ14ARY1 RXQ16ARY1
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, KHRP26A72T		

Optional Accessories		RXQ18ARY1 RXQ20ARY1
Disinbutive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T

Optional Accessories		RXQ22ARY1	RXQ24ARY1	RXQ26ARY1 RXQ28ARY1 RXQ30ARY1 RXQ32ARY1	RXQ34ARY1 RXQ36ARY1 RXQ38ARY1 RXQ40ARY1
Disinbutive piping	REFNET header	KHRP26M22H (Max.4 branch), KHRP26M33H (Max.8 branch), KHRP26M72H (Max.8 branch),	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)		
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
Pipe size reducer		KHRP26M73TP, KHRP26M73HP			
Outdoor unit connection piping kit		BHFP22P100			

Optional Accessories		RXQ42ARY1 RXQ44ARY1	RXQ46ARY1 RXQ48ARY1 RXQ50ARY1 RXQ52ARY1 RXQ54ARY1 RXQ56ARY1 RXQ58ARY1 RXQ60ARY1
Disinbutive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)	
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
Pipe size reducer		KHRP26M73TP, KHRP26M73HP	
Outdoor unit connection piping kit		BHFP22P151	



CONTROL SYSTEMS

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**

Backlight display helps operating in dark rooms.



BRC1E62 & BRC1F61 (Only for FXEQ Series)

Simple operation

- Large buttons and arrow keys**

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



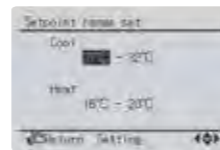
- Guide on display**

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

Energy saving

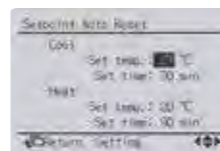
- Setpoint range set**

- 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**

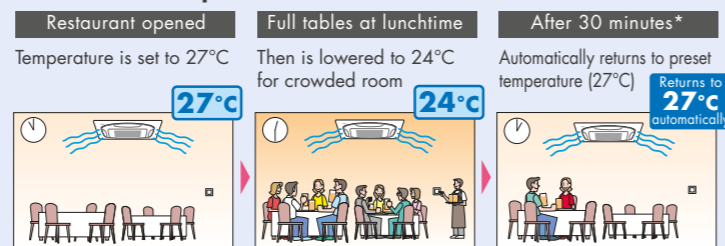
- Even if the set temperature is changed, it returns to the preset temperature after a preset period of time.
- Period selectable from 30 min/60 min/90 min/120 min.



- Off timer**

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

Restaurant sample



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

Individual Control Systems for VRV Indoor Units

Convenience

- Setback (default:OFF)**

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

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

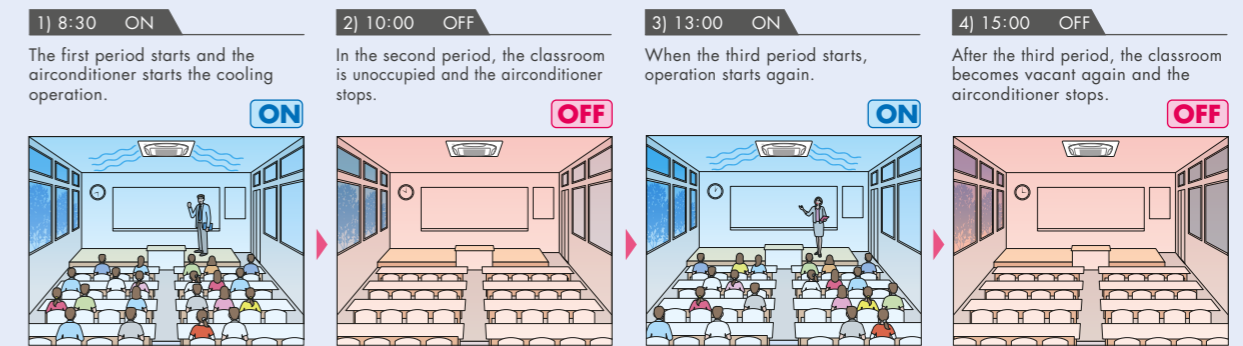
	Setback temperature	Recovery differential
Cooling	33—37°C	-2 — -8°C

- 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)



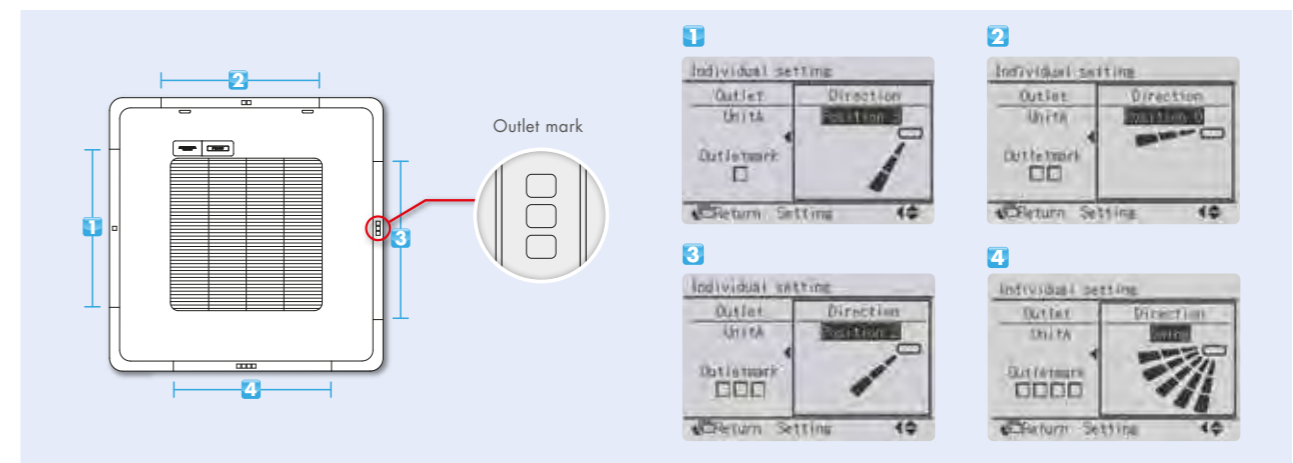
College classroom sample (a summer Monday case)



Comfort

- Individual airflow direction (*1)**

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



- Auto airflow rate (*2)**

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

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

Individual Control Systems for VRV Indoor Units

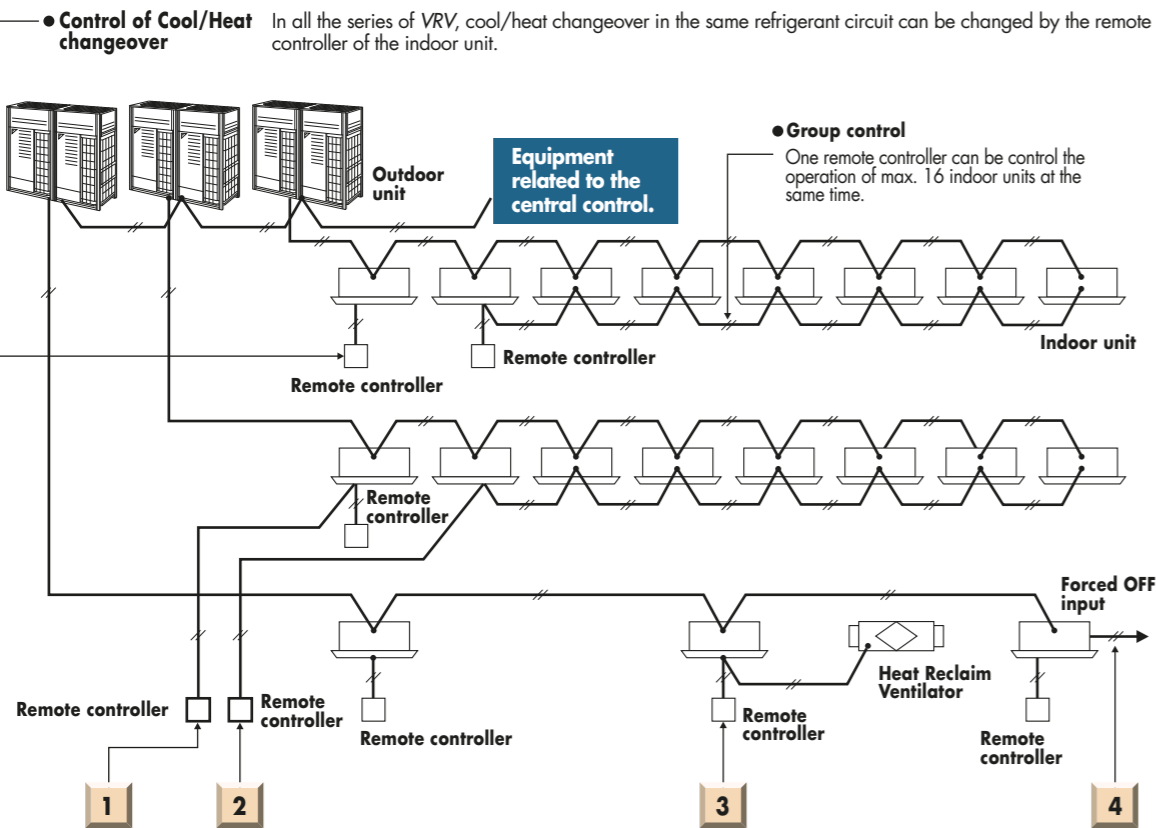
Wired remote controller(Option)



BRC1C62

- Displays current airflow, swing, temperature operating mode and timer settings.
- Easier to read because LCD screen is larger.
- Digital display lets you set temperature in 1°C Units.
- Lets you individually programme by timer the respective times for operation start and stop within a maximum of 72 hours.
- Equipped with a thermostat sensor in the remote controller that makes possible more comfortable room temperature control.
- Enables you to select cool/heat/fan operation mode with the indoor remote controller of your choice without using the cool/heat selector.
- Constantly monitor malfunctions in the system for a min. of 40 items, and is equipped with a self-diagnosis function that lets you know through message immediately when a malfunction occurs.
- Lets you carry out various field setting by remote controller.
- Enables you to select the ventilation mode and the volume of the HRV.
- The rubber switch and the oil-resisting resin casing have been adopted for durability.
- When the auto-swing function is not available, the message, THIS FUNCTION IS NOT AVAILABLE is displayed when the wind direction adjustment button is pressed.

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



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

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

3 Control for the combined operation
The operation of Heat Reclaim ventilator can be controlled by the remote controller of the indoor unit. Of course the remote controller can display the time to clean the filter.

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

Individual Control Systems for VRV Indoor Units

Wireless remote controller(Option)

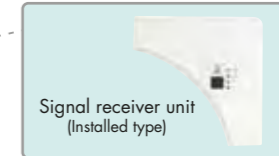


Signal receiver unit (Installed type)

- 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 into the Indoor unit.



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



Signal receiver unit (Installed type)

*Wireless remote controller and signal receiver unit are sold as a set
*Refer to page 74 for the name of each model

Simplified remote controller(Option)



Exposed type (BRC2C51)



Concealed type (For hotel use) (BRC3A61)

- 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.



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

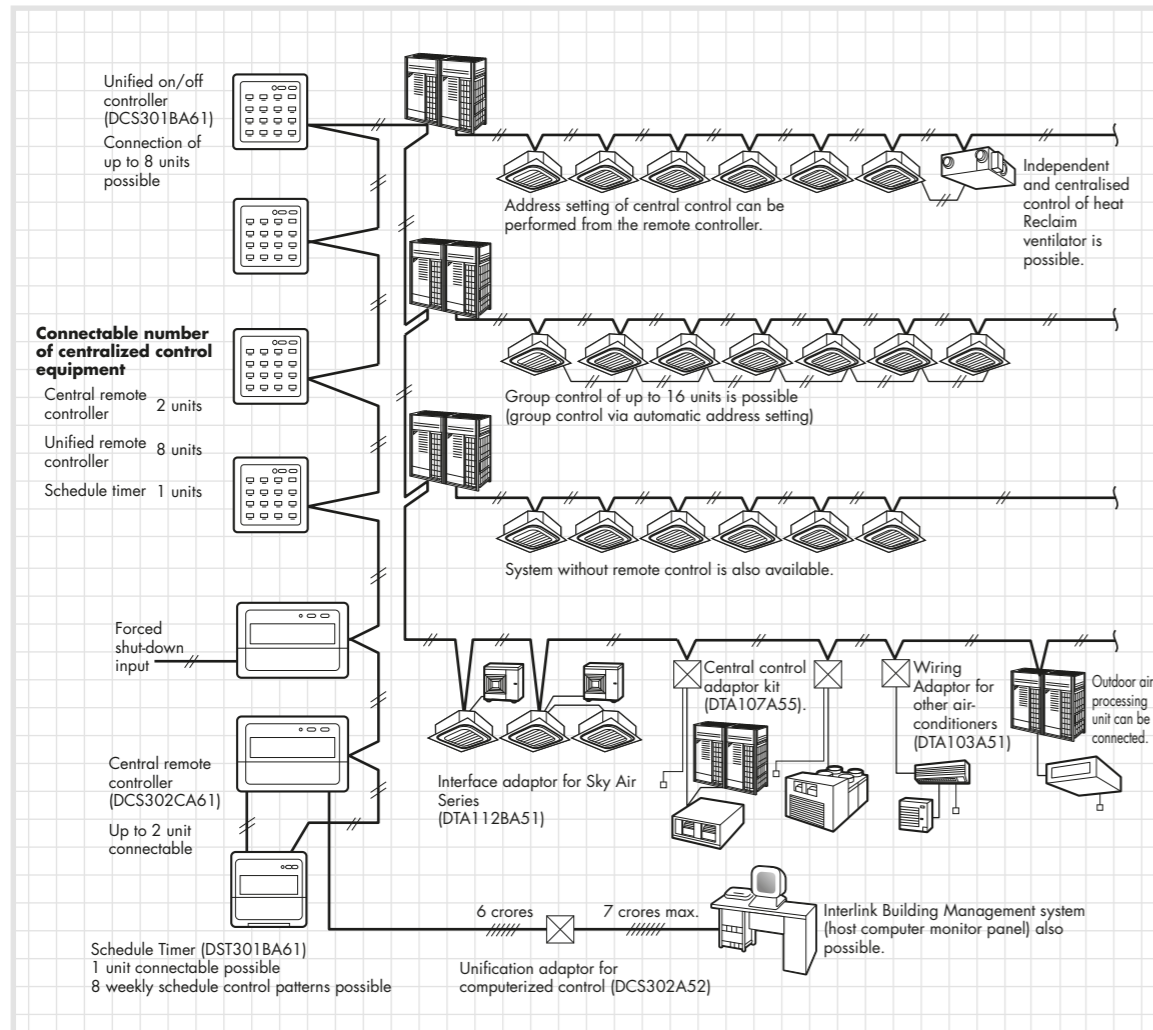
Wide variation of remote controller for VRV indoor unit

	FXFSQ	FXZQ	FXCQ	FXUQ	FXEQ	FXDQ	FXMQ	FXHQ	FXAQ	FXL(N)Q	FXVQ
Navigation remote controller (Wired remote controller) (BRC1E62)	●	●	●	●	●	●	●	●	●	●	●
Wired remote controller (BRC1C62)	●	●	●	●	●	●	●	●	●	●	●
Wireless remote controller*	●	●	●	●	●	●	●	●	●	●	●
Simplified remote controller (Exposed type) (BRC2C51)						●	●			●	
Simplified remote controller (Concealed type: for HOTEL use) (BRC3A61)						●	●			●	

*Refer to page 74 for the name of each model

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)



DCS303A51

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

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

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

Central remote controller (Optional)



DCS302CA61

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

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

Unified ON/OFF controller (Optional)



DCS301BA61

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

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

Schedule timer (Optional)



DST301BA61

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

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

Advanced Control Systems for VRV Indoor Units



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



DCM601A51

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

Individual air-conditioning control

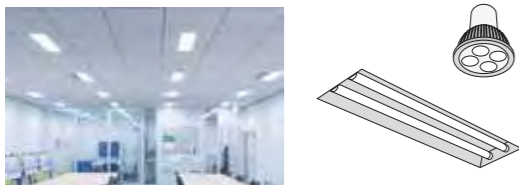
The flexible control achieved by the VRV system precisely meets different air conditioning needs in each room (e.g. offices, conference rooms, hotel rooms).



Lighting control

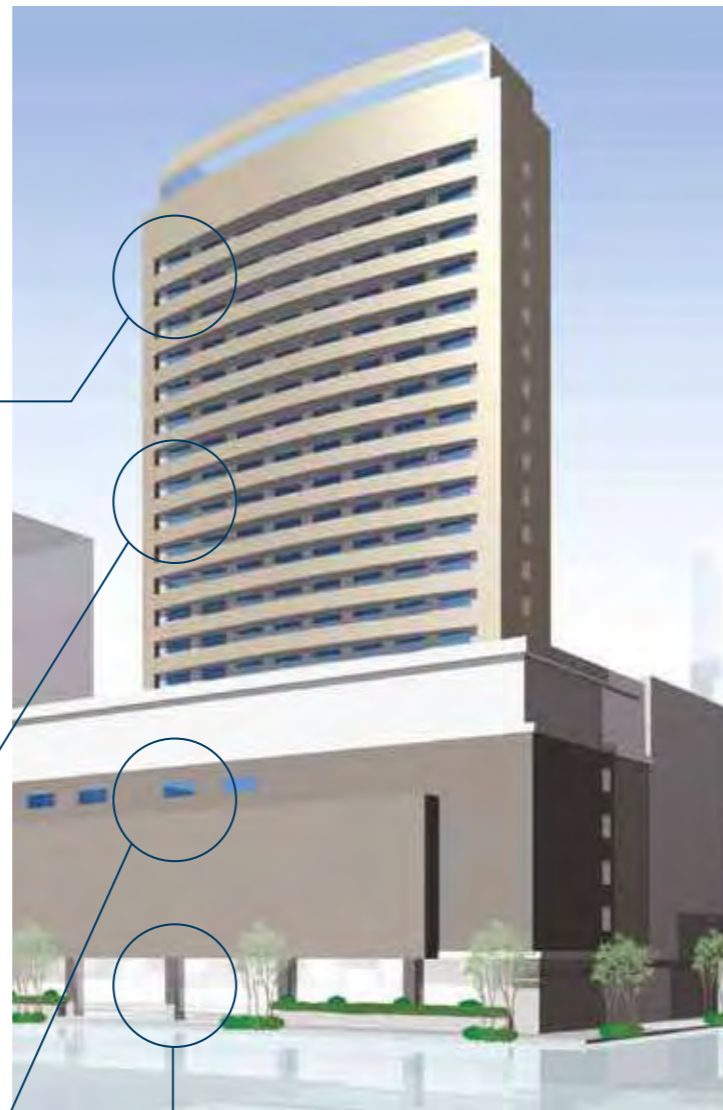
DALI-compatible

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



Air-conditioning control for large spaces

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



Building equipment control

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



Pump



Fan

For Energy Saving & Comfort

Intelligent Touch Manager maximises the advantages of VRV features

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

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

It is also easy to use with 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.

Schedule the operation time for each application.	Define the setpoint range that users can change.
	<p>With Remote controller</p> <p>With Control System</p>
<p>Turn the unit OFF if a user didn't.</p>	<p>Reset setpoint regularly.</p>

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

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

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

DALI-compatible

Please contact your local sales office for details.

Lighting control achieved by the intelligent Touch Manager

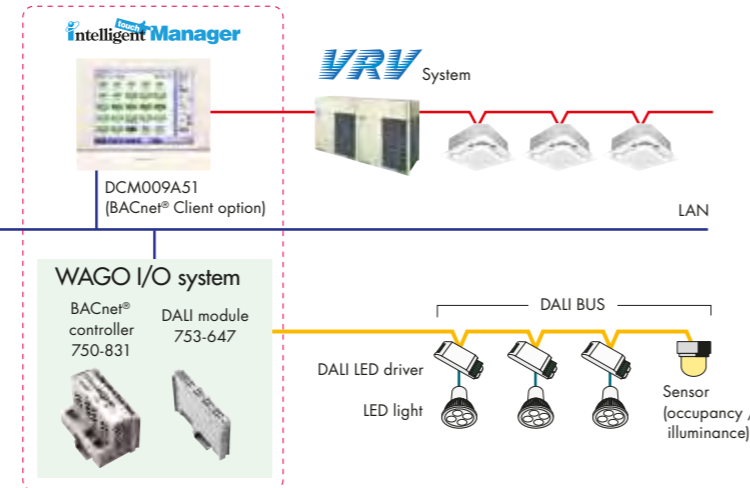
[Operation]

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

[Monitoring]

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

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



[Overview of control]

- Up to 5 DALI modules can be connected to a single BACnet® controller.
- Up to 64 DALI LED drivers (64 addresses) can be connected to a single DALI module.
- 64 DALI addresses can be freely assigned to up to 16 groups using a single DALI module. (Each group corresponds to a management point of the *intelligent Touch Manager*.)

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

Easy maintenance and energy saving by lighting control

Case 1

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

- Failing to switch off lights is prevented.

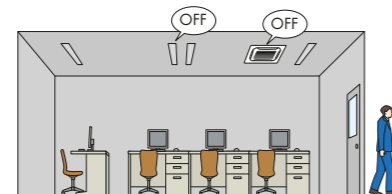


- Optimal illuminance reduces energy.

Case 2

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

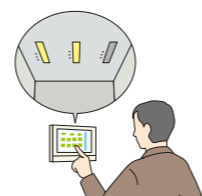
When a room is unoccupied, the air conditioning stops and the lighting is switched off.



Case 3

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

Lighting maintenance becomes easier and quicker.



The layout screen enables quick identification of specific locations.

Tenant Management (PPD Option)

Reporting the power consumption of VRV system for each tenant

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

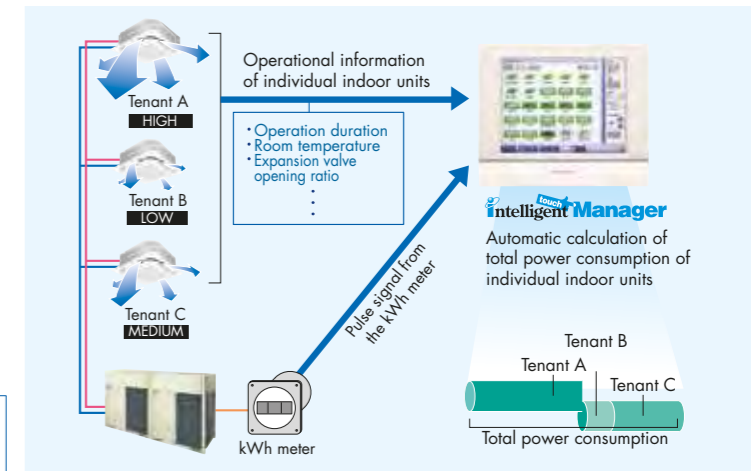
The energy consumption is proportionally calculated for each indoor unit. The data can be used for energy management and calculation of air conditioning usage fees for respective tenants.

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

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

It is easy to output PPD data.

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



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

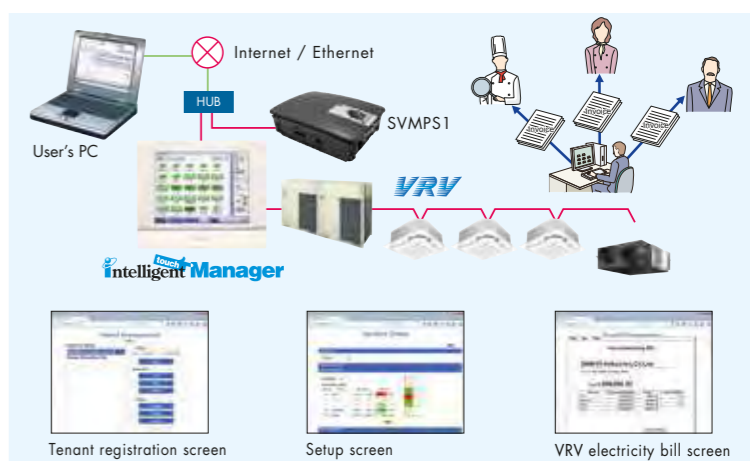
Air conditioning bills can be issued by one click

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)



Tenant registration screen

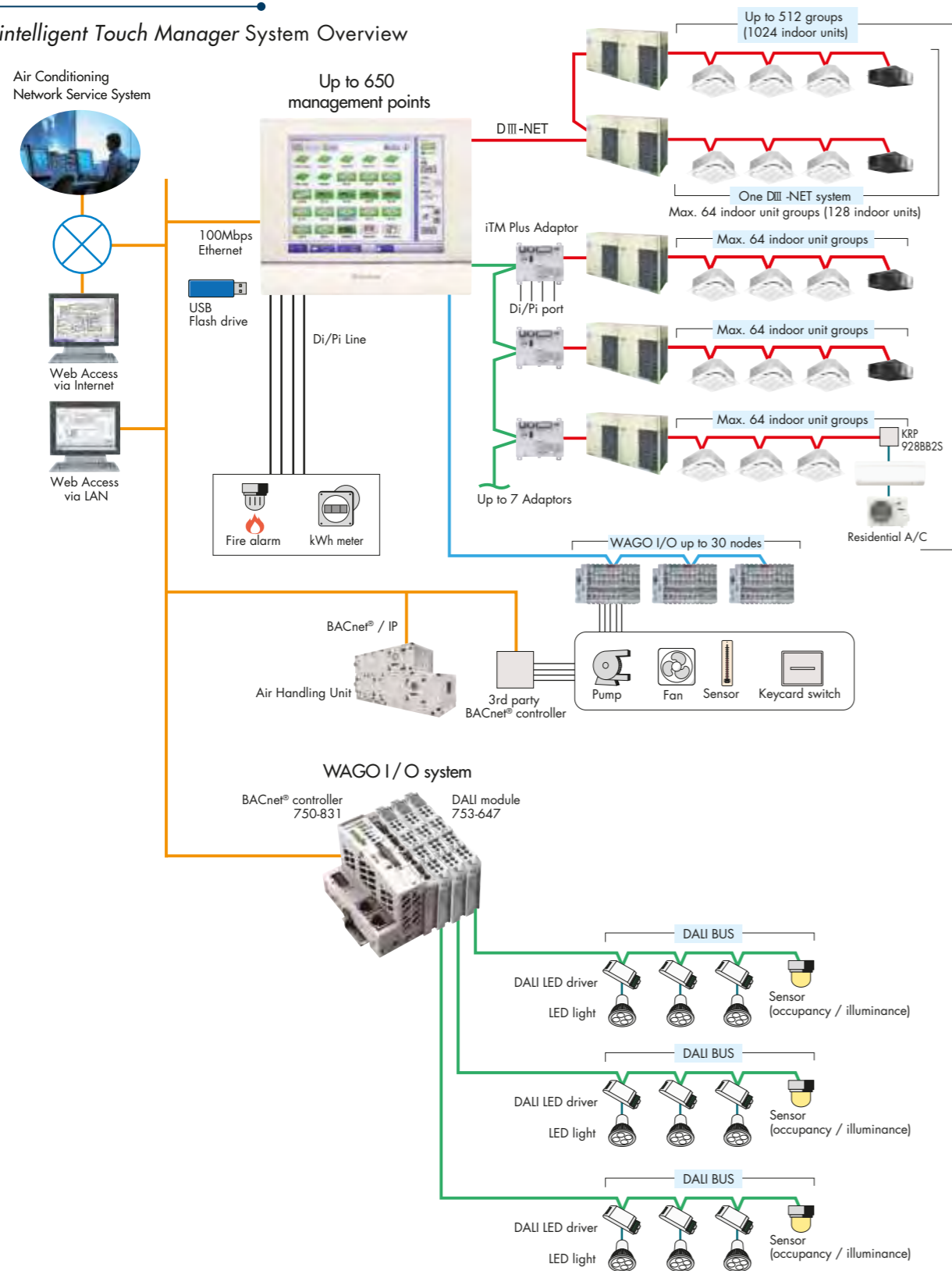
Setup screen

VRV electricity bill screen

Advanced Control Systems for VRV Indoor Units

System structure

intelligent Touch Manager System Overview



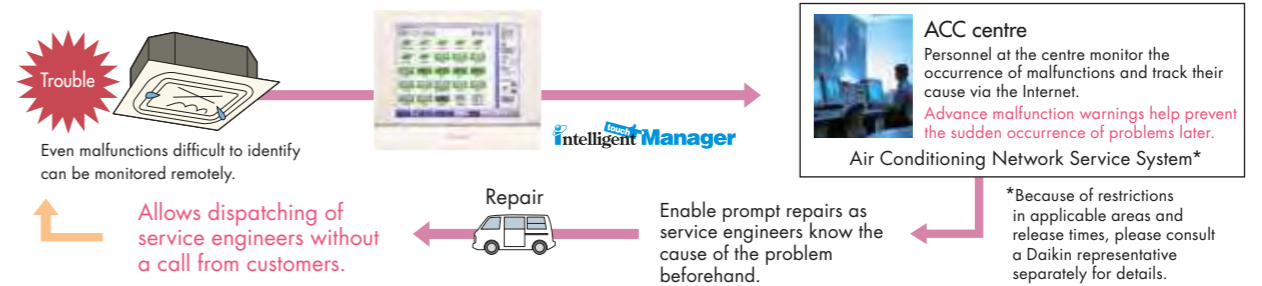
Air Conditioning Network Service System

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



DCS601C51

Intelligent Controller

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

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

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

Dedicated interfaces make Daikin air conditioners freely compatible with open networks



DMS502B51
(Interface for use in BACnet®)

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

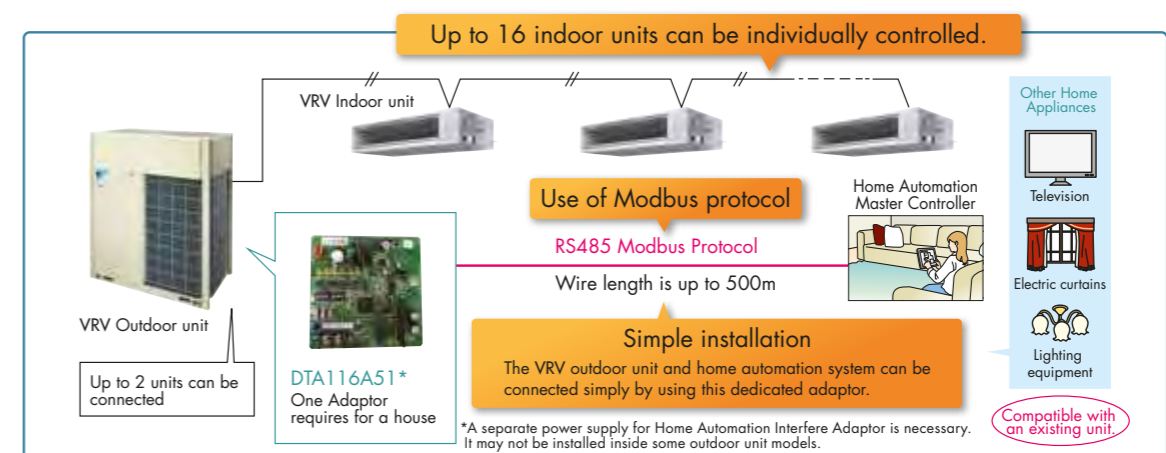


DMS504B51
(Interface for use in LONWORKS®)

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

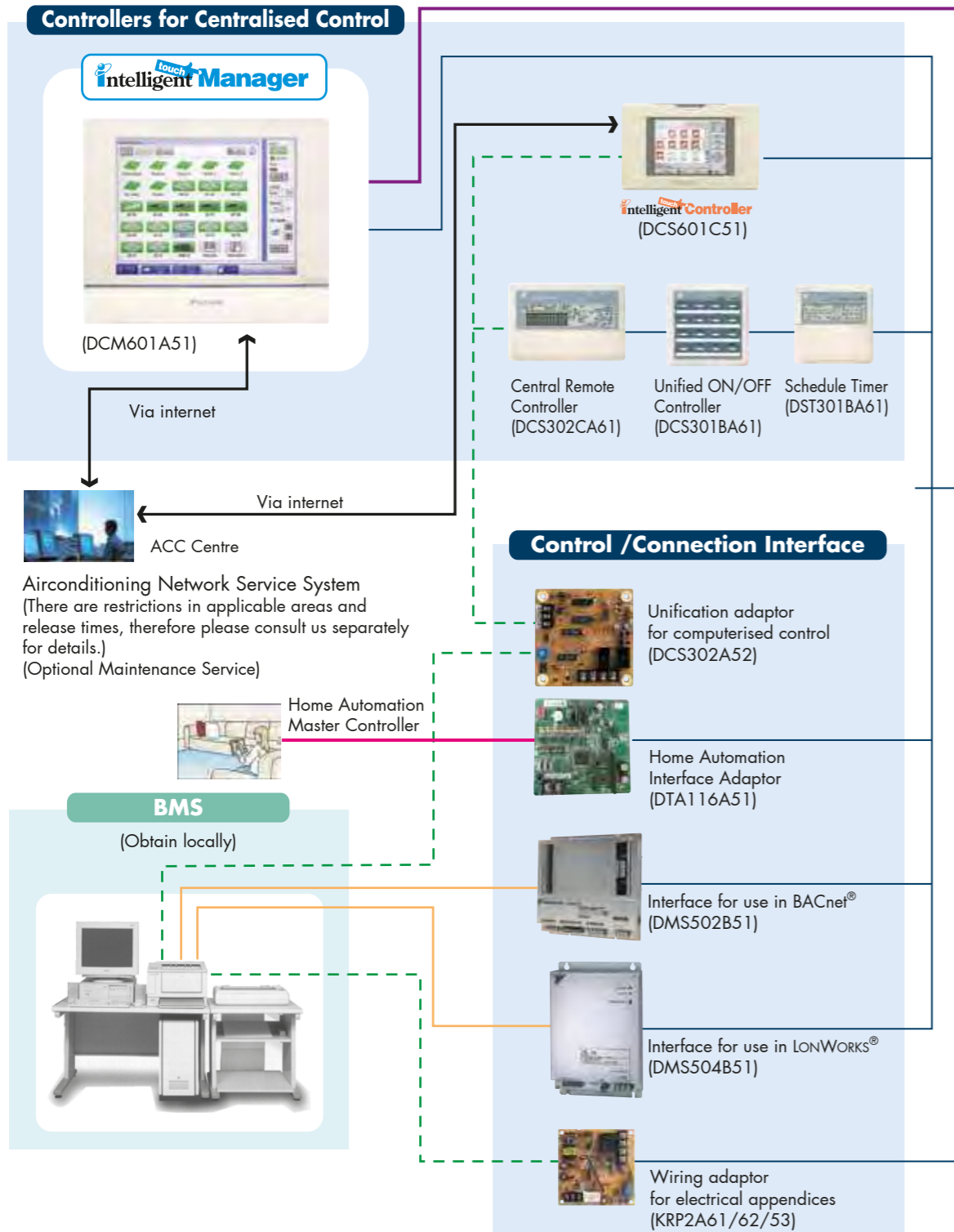
Notes: 1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
2. LONWORKS® is a trademark of Echelon Corporation registered in the United States and other countries.

Home Automation Interface Adaptor



Integrated Building Monitoring System

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



Integrated Building Monitoring System

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

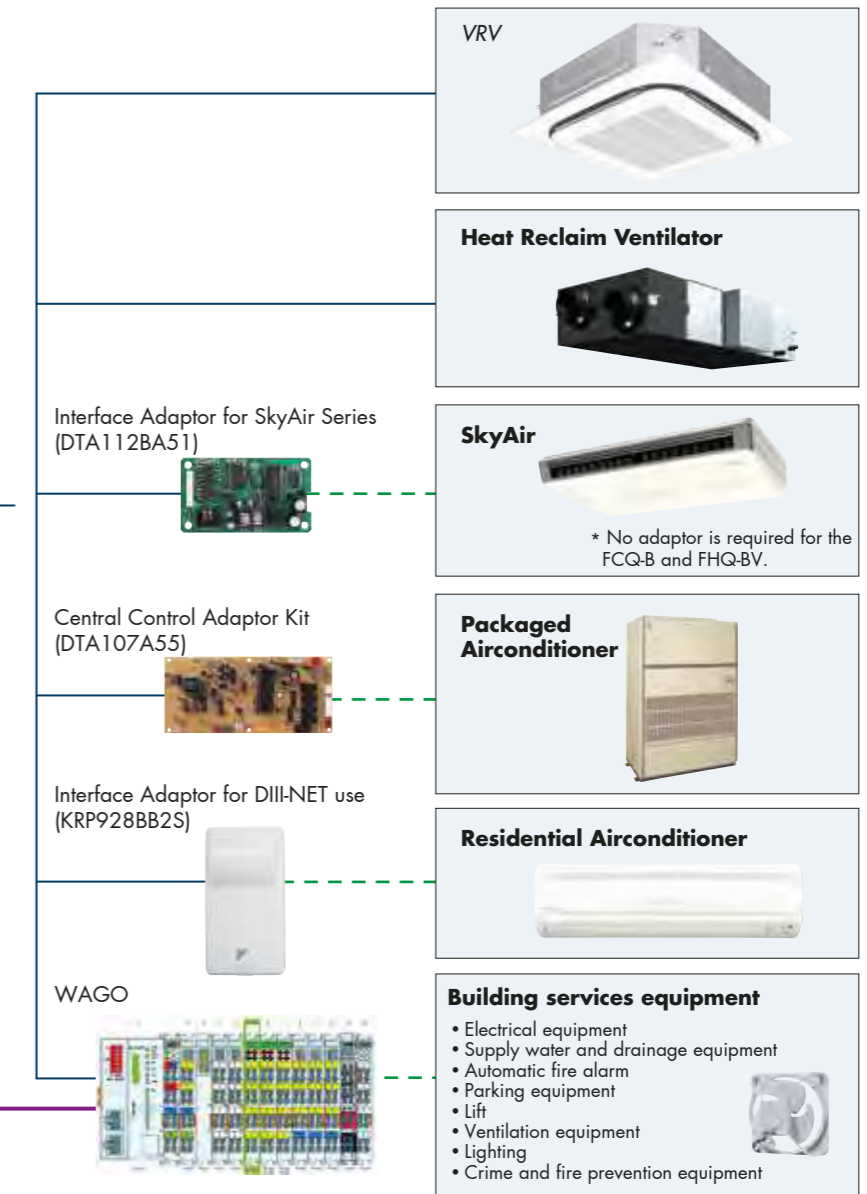
The DIII-NET system provides for:

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

DIII-NET

(High Speed Multiple Transmission)

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



Caution:

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

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

Option List

Operation Control System Optional Accessories

For VRV indoor unit use

No.	Item	Type		FXFSQ-AR	FXZQ-M	FXUQ-A	FXCQ-M	FXEQ-A	FXDQ-PD FXDQ-ND
		Wireless	Receiver Handset						
1	Remote controller	Wireless	Receiver	BRC7M632F-6	BRC7M630W-6	BRC7CB58	BRC7C62-9	BRC7M626-6	BRC4M61-6
		Handset		BRC4M150W16				BRC4M150W16	
		Wired		BRC1E63			BRC1C62		
2	Navigation remote controller (Wired remote controller)			BRC1E63			BRC1E62 Note 7		
3	Simplified remote controller (Exposed type)								BRC2C51
4	Remote controller for hotel use (Concealed type)								BRC3A61
5	Adaptor for wiring			★KRP1C63	★KRP1BA57		★KRP1B61	KRP1B61	★KRP1B56
6-1	Wiring adaptor for electrical appendices (1)			★KRP2A62	★KRP2A62		★KRP2A61	KRP2A61	★KRP2A53
6-2	Wiring adaptor for electrical appendices (2)			★KRP4AA53	★KRP4AA53	★KRP4AA53	★KRP4AA51	KRP4AA51	★KRP4A54
7	Remote sensor (for indoor temperature)			KRCS01-4B			KRCS01-1B		
8	Installation box for adaptor PCB ☆			Note 2, 3 KRP1H98	Note 4, 6 KRP1BA101	KRP1BA97	Note 2, 3 KRP1B96		Note 4, 6 KRP1BA101
9	External control adaptor for outdoor unit			★DTA104A62	★DTA104A62		★DTA104A61	DTA104A61	★DTA104A53
10	Adaptor for multi tenant			★DTA114A61					

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

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

Option List

System Configuration

No.	Item	Type	Model No.	Function
1	Residential central remote controller		Note 2 DCS303A51	• Up to 16 groups of indoor units (128 units) can be easily controlled using the large LCD panel. ON/OFF, temperature settings and scheduling can be controlled individually for indoor units.
2	Central remote controller		DCS302CA61	• Up to 64 groups of indoor units (128 units) can be connected, and ON/OFF, temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to 2 controllers in one system.
2-1	Electrical box with earth terminal (3 blocks)		KJB311AA	
3	Unified ON/OFF controller		DCS301BA61	• Up to 16 groups of indoor units (128 units) can be turned ON/OFF individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers.
3-1	Electrical box with earth terminal (2 blocks)		KJB212AA	
3-2	Noise filter (for electromagnetic interference use only)		KEK26-1A	
4	Schedule timer		DST301BA61	• Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day.
5	5-room centralised controller for residential indoor units	For CDXS, FDK(X)S, FTK(X)S	Note 3 KRC72A	• Up to 5 indoor units can be controlled. This is a low cost system which can only control ON/OFF.
6	Interface adaptor for residential indoor units	For CDXS, FDK(X)S, FTK(X)S	KRP928BB2S	• Adaptors required to connect products other than those of the VRV System to the high-speed DIII-NE T communication system adopted for the VRV System.
7	Interface adaptor for SkyAir-series	For FCQ-B, FFG-B, FHQ-BV, FBQ-B	★DTA112BA51	
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 other air-conditioner		★DTA103A51	
10	DIII-NET Expander Adaptor		DTA109A51	• Up to 1024 units can be centrally controlled in 64 different groups. • Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor.
10-1	Mounting plate		KRP4A92	• Fixing plate for DTA109A51

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

Building Management System

No.	Item	Model No.	Function			
1	intelligent Touch Controller	Basic	Hardware	intelligent Touch Controller	DCS601C51	• Airconditioning management system that can be controlled by a compact all-in-one unit.
		Option	Hardware	DIII-NET plus adaptor	DCS601A52	• Additional 64 groups (10 outdoor units) is possible.
1-2	Electrical box with earth terminal (4 blocks)		KJB411A	• Wall embedded switch box.		
2	intelligent Touch Manager	Basic	Hardware	intelligent Touch Manager	DCM601A51	• Airconditioning management system that can be controlled by touch screen.
				iTM plus adaptor	DCM601A52	• Additional 64 groups (10 outdoor units) is possible. Max. 7 iTM plus adaptors can be connected to intelligent Touch Manager.
		Option	Software	iTM power proportional distribution	DCM002A51	• Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh metre.
				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 Interface 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	Optional DIII board		DAM411B51	• Expansion kit, installed on DMS502B51, to provide 2 more DIII -NET communication ports. Not usable independently.		
3-2	Optional Di board		DAM412B51	• Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.		
4	*2 Interface for use in LONWORKS ®		DMS504B51	• Interface unit to allow communications between VRV and BMS. Operation and monitoring of airconditioning systems through LonWorks ® communication.		
5	Home Automation Interface Adaptor		DTA116A51	• Use of the Modbus protocol enables the connection of the VRV system with a variety of home automation systems from other manufacturers.		

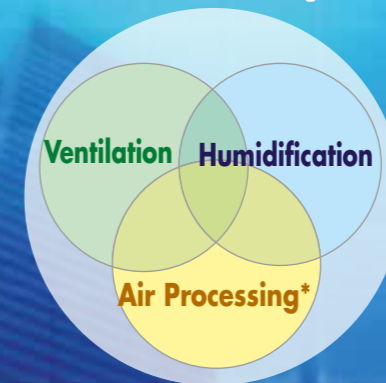
- Notes: *1. BACnet ® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
 *2. Lon Works ® is a trademark of Echelon Corporation registered in the United States and other countries.
 *3. Installation box for ★ adaptor must be obtained locally.



AIR TREATMENT EQUIPMENT LINEUP

Our air treatment systems create a higher air quality environment

Components of Indoor Air Quality



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

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 ^{★1}, due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure ^{★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.

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

		Outdoor-Air Processing Unit	Heat Reclaim Ventilator		
			VKM-GAM Type	VKM-GA Type	VAM-GJ Type
Connections with VRV X	Refrigerant Piping	Connectable	Connectable	Connectable	Not connectable
	Wiring	Connectable	Connectable	Connectable	Connectable
	After-cool & After-heat Control	Available	Available	Available	Not available
Heat Exchange Element		—	Energy savings obtained	Energy savings obtained	Energy savings obtained
Humidifier		—	Fitted	—	—
High Efficiency Filter		Option	Option	Option	Option
Ventilation System		Air supply only	Air supply & air exhaust	Air supply & air exhaust	Air supply & air exhaust
Power Supply		220-240 V, 50 Hz	220-240 V, 50 Hz	220-240 V, 50 Hz	220-240 V/220 V, 50 Hz
Airflow Rate		250 m ³ /h			250 m ³ /h
		500 m ³ /h			500 m ³ /h
		800 m ³ /h			650 m ³ /h
		1000 m ³ /h			800 m ³ /h
		1080 m ³ /h			1000 m ³ /h
		1680 m ³ /h			1500 m ³ /h
2100 m ³ /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

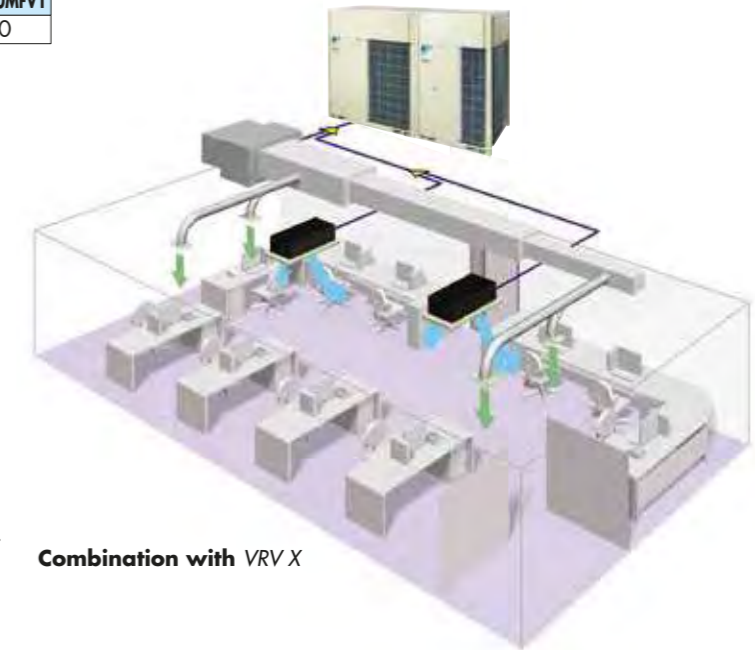
Combination of fresh air treatment and airconditioning, supplied from a single system.

Lineup

Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250

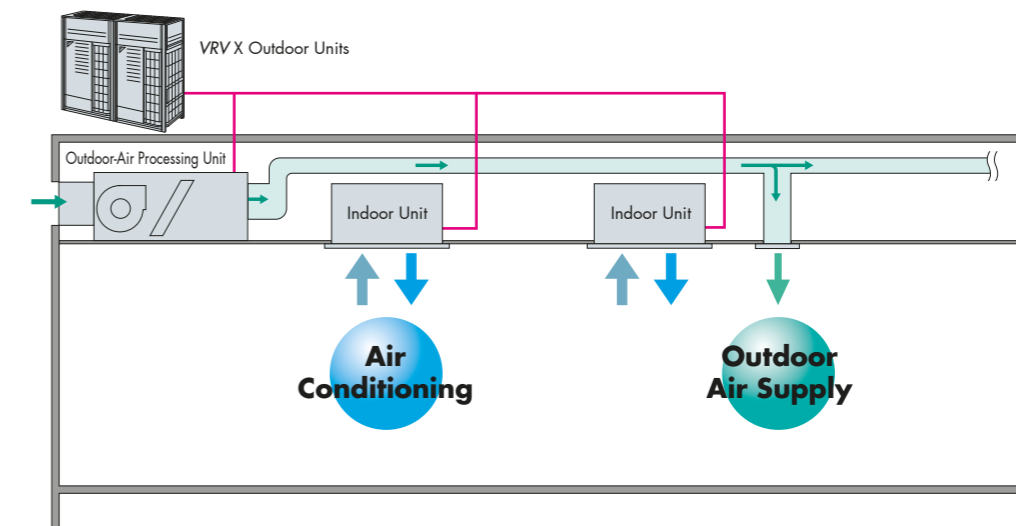


Fresh air treatment and airconditioning can be achieved with a single system by using the heat pump technology - without the usual troublesome air supply and air discharge balance design. Fan coil units for airconditioning and an outdoor-air processing unit can be connected to the same refrigerant line.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



Combination with VRV X

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



Connection Conditions

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

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

Standard Specifications

Indoor unit

Type	Ceiling Mounted Duct Type				
Model	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1		
Power supply	1-phase 220-240 V (also required for indoor units), 50 Hz				
Cooling capacity *1	kcal/h	12,000	19,300	24,100	
	Btu/h	47,800	76,400	95,500	
	kW	14.0	22.4	28.0	
Heating capacity *1	kcal/h	7,700	12,000	15,000	
	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				
Dimensions (HXWXD)	mm 470X744X1,100				
Fan	Motor output	kW 0.380			
	Airflow rate	m ³ /min	18	28	35
		cfm	635	988	1,236
External static pressure	220 V/240 V	Pa 185/225	225/275	205/255	
Air filter	*2				
Refrigerant piping	Liquid	mm φ 9.5 (flare)			
	Gas	mm	φ 15.9 (flare)	φ 19.1 (brazing)	φ 22.2 (brazing)
	Drain	mm PS1B female thread			
Machine weight	kg	86	123		
Sound level *3	220 V/240 V	dB(A) 42/43	47/48		
Connectable outdoor units *4 *5	8 HP and above		10 HP and above		
Operation range (Fan mode operation between 15 and 19°C)	Cooling	19 to 43°C			
	Heating	-5 to 15°C			
Range of the discharge temperature *6	Cooling	13 to 25°C			
	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. 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.

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

Options

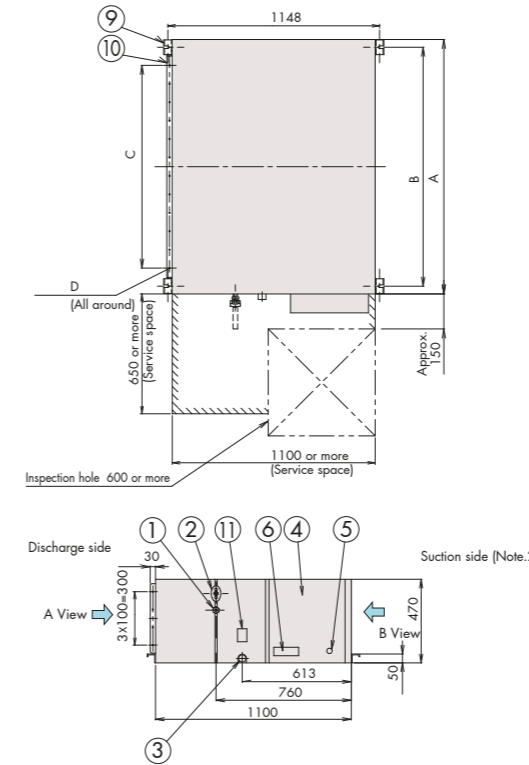
Indoor unit

Model	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Operation remote controller	BRC1E62/BRC1C62		
Central remote controller	DCS302CA61		
Unified ON/OFF controller	DCS301BA61		
Schedule timer	DST301BA61		
Wiring adaptor for electrical appendices (1)	KRP2A61		
Wiring adaptor for electrical appendices (2)	KRP4AA51a		
Long-life replacement filter	KAFJ371L140	KAFJ371L280	
High-efficiency filter	Colourimetric method 65%	KAFJ372L140	
	Colourimetric method 90%	KAFJ373L140	
Filter chamber *1	KDJ3705L140	KDJ3705L280	
Drain pump kit	KDU30L250VE		
Adaptor 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.
 • 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.

Local connection piping size

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

Table of dimensions

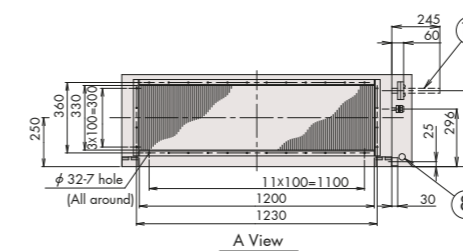
Model	A	B	C	D
FXMQ125MFV1	744	685	5X100=500	20-φ 4.7 hole
FXMQ200MFV1	1380	1296	11X100=1100	32-φ 4.7 hole
FXMQ250MFV1	1380	1296	11X100=1100	32-φ 4.7 hole

Notes:

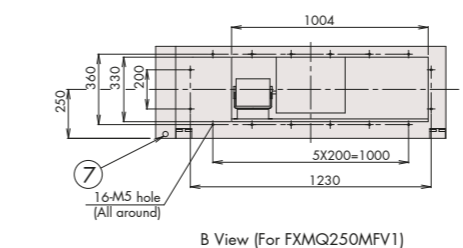
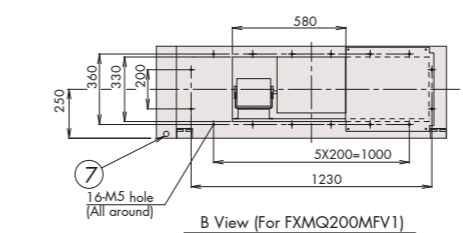
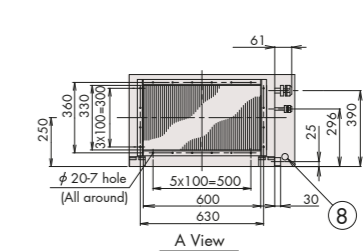
- The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (② in the diagram) has a different bore form with FXMQ125MFV1.
- An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side. [Use a filter with dust collection efficiency of at least 50% (gravimetric method). This is available as an option.]
- For outdoor ducts, be sure to provide heat insulation to prevent condensation.

- ① Liquid pipe connection
- ② Gas pipe connection
- ③ Drain piping connection
- ④ Electric parts box
- ⑤ Ground terminal
- ⑥ Name plate
- ⑦ Power supply wiring connection
- ⑧ Transmission wiring connection
- ⑨ Hanger bracket
- ⑩ Discharge companion flange
- ⑪ Water supply port
- ⑫ Attached piping (Note. 1)

FXMQ200/250MFV1

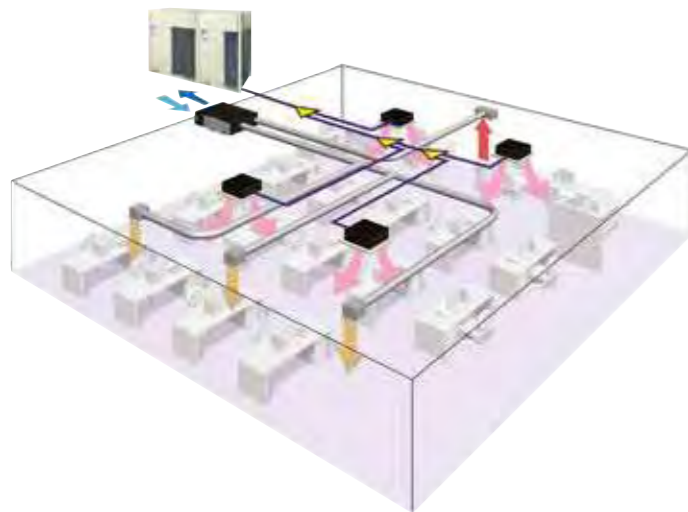


FXMQ125MFV1



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.



Lineup

Model Name	With DX Coil & Humidifier Type		
	VKM50GAMV1	VKM80GAMV1	VKM100GAMV1
Capacity Index	31.25	50	62.5

Model Name	With DX Coil Type		
	VKM50GAV1	VKM80GAV1	VKM100GAV1
Capacity Index	31.25	50	62.5

VKM80GAV1



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.

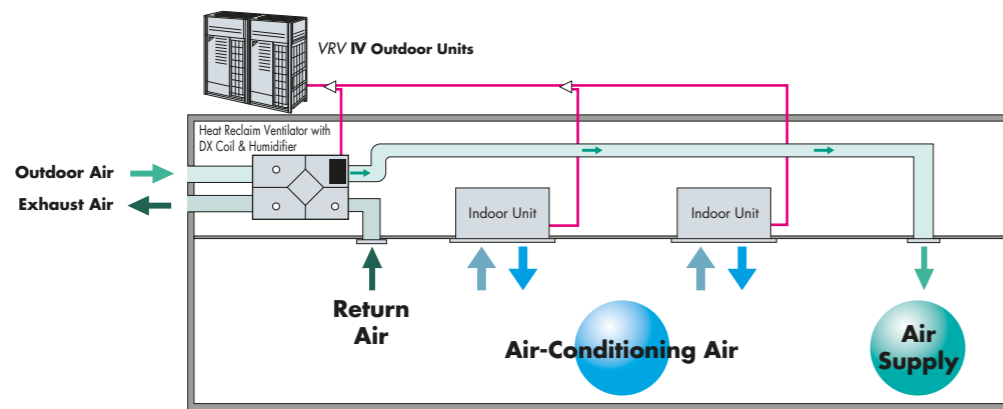
High static pressure

High external static pressure means enhanced design flexibility.

Efficient outdoor air introduction is possible

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

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



Connection Conditions

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

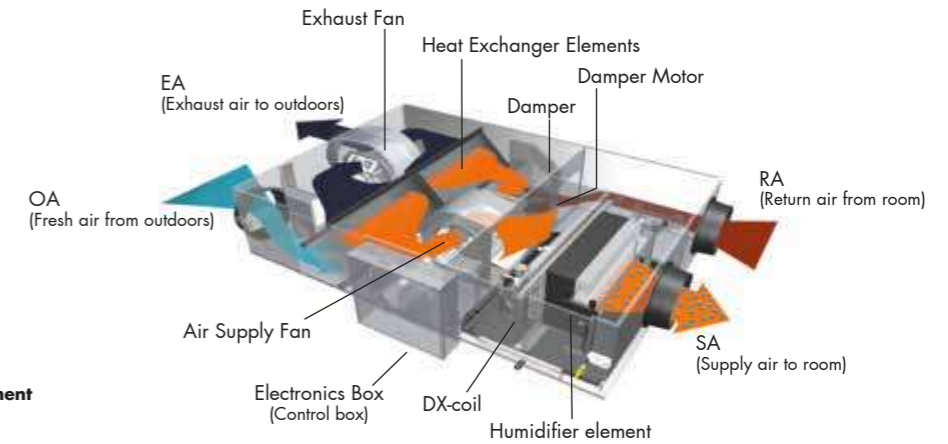
- When the Heat Reclaim Ventilator VKM series units are connected, the total connection capacity index must be 50% to 130% of the capacity index of the outdoor units.

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

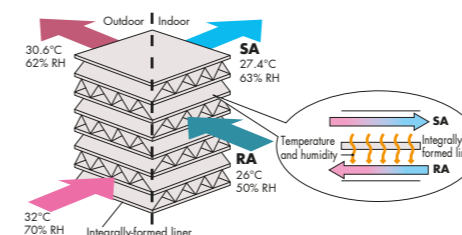
A compact unit packed with our cutting-edge technology



HEP Element (Anti-mould)



Operation of the heat exchanger element

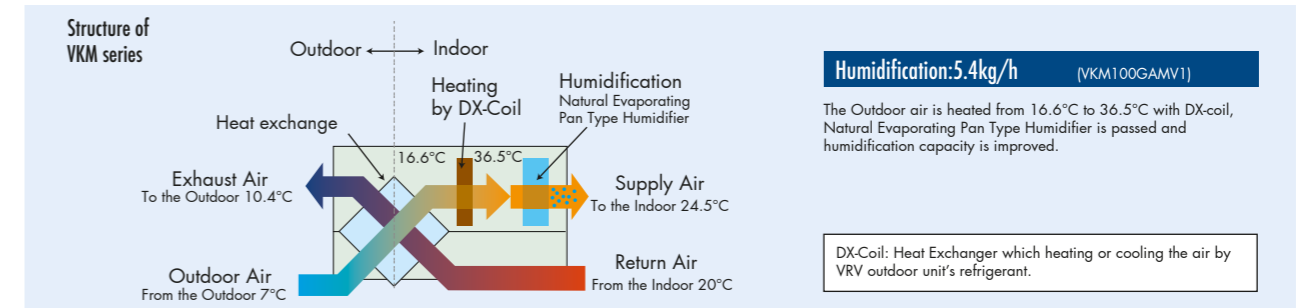


DX-coil (Direct expansion coil)



Humidifier element

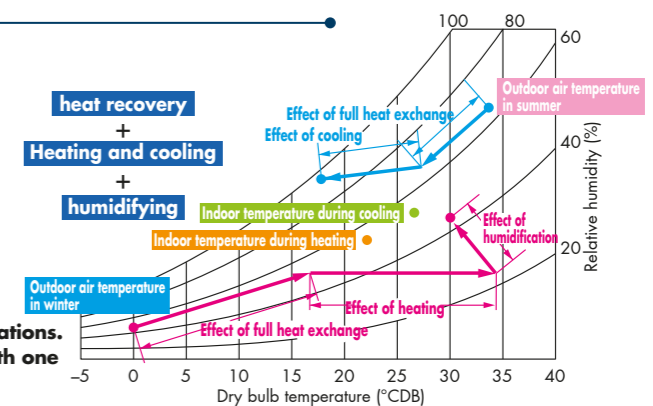
Heating and humidification process



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 temperature with minimal cooling capacity through the use of outdoor air.



Other features

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

Specifications

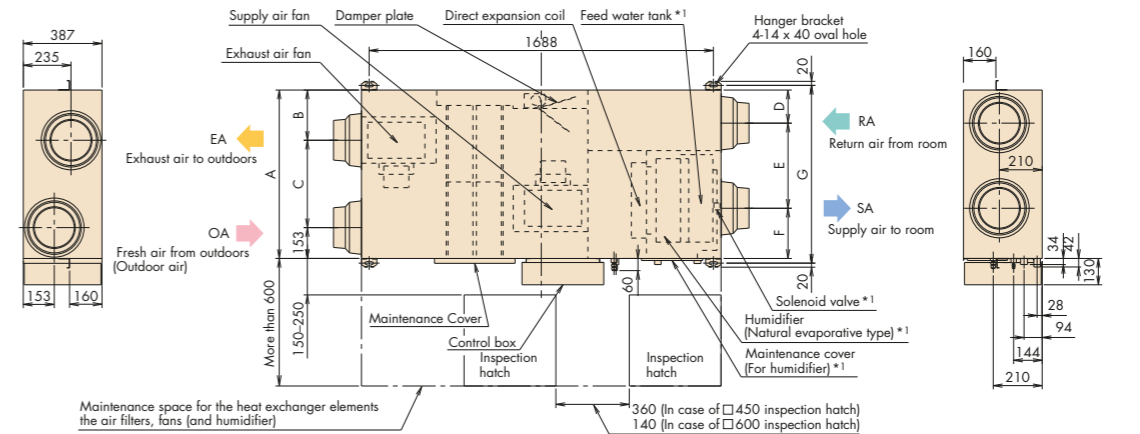
MODEL		VKM50GAMV1 *	VKM80GAMV1 *	VKM100GAMV1 *	VKM50GAV1	VKM80GAV1	VKM100GAV1		
Refrigerant		R-410A							
Power Supply		1-phase, 220-240 V, 50 Hz							
Airflow Rate & Static Pressure (Note 7)	Ultra-high	Airflow rate	m ³ /h	500	750	950	500	750	950
		Static pressure	Pa	160	140	110	180	170	150
	High	Airflow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

Notes: 1. Cooling and heating capacities are based on the following conditions. Fan is based on High and Ultra-high. When calculating the capacity as indoor units, use the following figures: VKM50GAMV1/GV1: 3.5 kW, VKM80GAMV1/GV1: 5.6 kW, VKM100GAMV1/GV1: 7.0 kW
 2. Indoor temperature: 27°C DB, 19°C WB, Outdoor temperature: 35°C DB
 3. Indoor temperature: 20°C DB, Outdoor temperature: 7°C DB, 6°C WB
 4. Humidifying capacity is based on the following conditions: Indoor temperature: 20°C DB, 15°C WB, Outdoor temperature: 7°C DB, 6°C WB
 5. The operating sound measured at the point 1.5 m below the centre of the unit is converted to that measured in an anechoic chamber built in accordance with the JIS C 1502 conditions. The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value.
 For operation in a quiet room, it is required to take measures to lower the sound. For details, refer to the Engineering Data.
 6. The noise level at the air discharge port is about 8-11 dB(A) or higher than the unit's operating sound.
 For operation in a quiet room, it is required to take measures to lower the sound.
 7. Airflow rate can be changed over to Low mode or High mode.
 8. In case of holding full water in humidifier.
 9. OA: fresh air from outdoor. RA: return air from room.

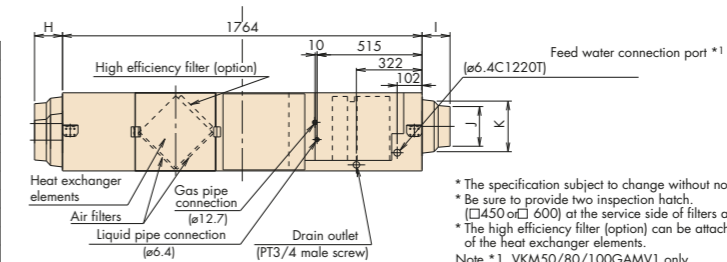
10. Specifications, design and information here are subject to change without notice.
 11. Power consumption and efficiency depend on the above value of airflow rate.
 12. Temperature exchange efficiency is the mean value for Cooling and Heating. Efficiency is measured under the following condition: Ratio of rated external static pressure outdoor to indoor is kept constant at 7 to 1.
 13. In heating operation, freezing of the 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 purpose of this is to maintain the amount of ventilation and humidifying.
 14. When connecting with a VRV system heat recovery outdoor unit and bringing the RA (exhaust gas intake) of this unit directly in from the ceiling, connect to a BS unit identical to the VRV indoor unit (master unit), and use group-linked operation. (See the Engineering Data for details.)
 15. When connecting the indoor unit directly to the duct, always use the same system on the indoor unit as with the outdoor unit, perform group-linked operation, and make the direct duct connection settings from the remote controller. (Mode No. "17 [27]" - First code No. "5" - Second code No. "6") Also, do not connect to the outlet side of the indoor unit. Depending on the fan strength and static pressure, the unit might back up.
 * Feed clean water (city water, tap water or equivalent). Dirty water may clog the valve or cause dirt deposits in the water container, resulting in poor humidifier performance. (Never use any cooling tower water and heating-purpose water.)
 Also, if the supply water is hard water, use a water softener because of short life.
 * Life of humidifying element is about 3 years (4,000 hours) under the supply water conditions of hardness: 150 mg/l. (Life of humidifying element is about 1 year (1,500 hours) under the supply water conditions of hardness: 400 mg/l.)
 Annual operating hours: 10 hours/day x 26 days/month x 5 months = 1,300 hours

Dimensions

VKM50/80/100GA(M)V1



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



* The specification subject to change without notice.
 * Be sure to provide two inspection hatch. (□450 or □600) at the service side of filters and elements.
 * The high efficiency filter (option) can be attached to the SA surface of the heat exchanger elements.
 Note *1. VKM50/80/100GAMV1 only.

Options

Item	Type	VKM50/80/100GA(M)V1
Remote controller		BRC1E62/BRC1C62 *1
Centralised controlling device	Residential central remote controller	DCS303A51 *2
	Central remote controller	DCS302CA61
	Unified ON/OFF controller	DCS301BA61
	Schedule timer	DST301BA61
Controlling device	Wiring adaptor for electrical appendices	KRP2A61
	For humidifier running ON signal output	KRP50-2
	For heater control 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
Installation box for adaptor PCB	☆	Notes 2, 3 KRP1H98 KRP1BA101 — Notes 2, 3 KRP1B96 — Notes 4, 6 KRP1BA101 Notes 2, 3 KRP1C63 * KRP1BA57 * KRP1C67 KRP1B61 * KRP1B61 KRP1B56 * KRP1C64 * KRP1B61 KRP1BA54 — KRP1B61 KRP1C67

Notes: 1. Installation box ☆ is necessary for each adaptor marked ☆.
 2. Up to 2 adaptors can be fixed for each installation box.
 3. Only one installation box can be installed for each indoor unit.
 4. Up to 2 installation boxes can be installed for each indoor unit.
 5. Installation box ☆ is necessary for second adaptor.
 6. Installation box ☆ is necessary for each adaptor.
 7. *1 Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When operating interlocked with other air conditioners, use the remote controllers of the air conditioners.
 *2 For residential use only. When connected with a Heat Reclaim Ventilator (VKM), you can only switch the power ON/OFF. Cannot be used with other centralised control equipment.

Item	Type	VKM50GA(M)V1	VKM80GA(M)V1	VKM100GA(M)V1	
Additional function	Silencer	—	—	KDDM24B100	
	Air suction/Discharge grille	Nominal pipe diameter	mm	—	ø 250
		White	mm	K-DGL200B	K-DGL250B
High efficiency filter	Nominal pipe diameter	mm	ø 200	ø 250	
	Air filter for replacement		KAF242H80M	KAF242H100M	
Flexible duct (1 m)		K-FDS201D	K-FDS251D		
Flexible duct (2 m)		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



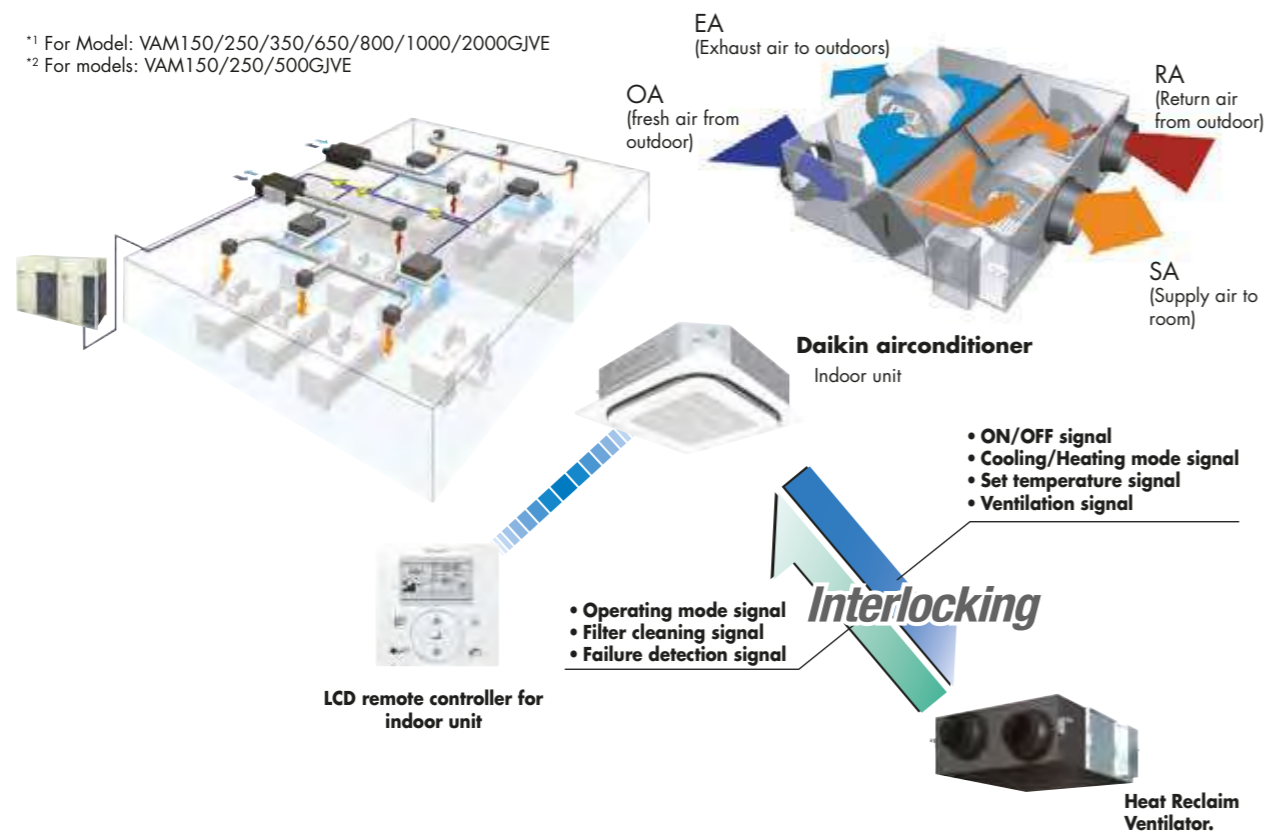
Improved Enthalpy Efficiency*1
Higher External Static Pressure*2
Enhanced Energy Saving Functions



Heat Reclaim Ventilator remote controller* BRC301B61 (Option)
This remote controller is used in case of independent operated of Heat Reclaim Ventilator.

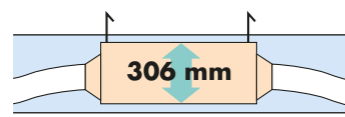
This VAM series provides higher Enthalpy Efficiency*1 due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure*2 offers more flexibility of installation. Along with these three outstanding improvement, the night-time free cooling operation contributes to energy conservation and more comfortable space.

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



Compact Equipment

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



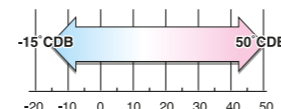
*For VAM500GJVE

Energy Conservation

Airconditioning load reduced by approximately 31%

Cold Climate Compatible

Standard operation at temperatures down to -15°C.



Heat Reclaim Ventilator – Vam Series

Airconditioning load reduced by approximately 31%

Total heat exchange ventilation

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

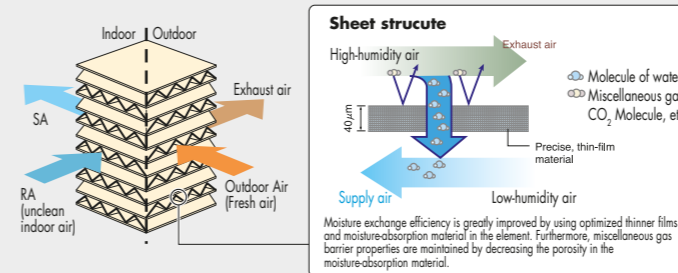
Enthalpy Efficiency drastically improved by employing thin film element (VAM-GJ model)

Due to thinner film....

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

Moisture absorption increased by approx. 10%

Thickness of the partition sheet
40 μm



Auto - ventilation Mode Changeover Switching

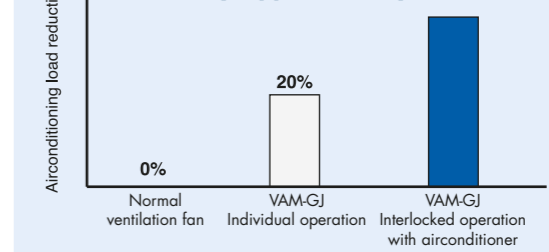
Automatically switches the ventilation mode (Total heat Exchange Mode/Bypass Mode) according to the operating status of the airconditioner.

Pre-cool, Pre heat Control

Reduces airconditioning load by not running the Heat Reclaim ventilator while air is still clean soon after the airconditioner is turned ON.

- The airconditioning load reduction value may vary according to weather and other environmental conditions at the location of the machine's installation.
- The airconditioning load reduction values are based on the following conditions:
Application: Tokyo office building
Building from: 6 floors above ground, 2 floors underground, floor area 2,100 m²
Personnel density: 0.25 person/m²
Ventilation volume: 25 m³/h
Indoor airconditioning level: summer 25°C 50% RH, intermediate seasons 24°C 50% RH, Winter 22°C 40%RH
Operating time: 2746 hours (9 hours per day, approx. 25 days per month)
Calculation method: simulation based on "MICRO-HASP/1982" of the Japan Building Mechanical and Electrical Engineers Association.

Airconditioning Loads Reduced by Approximately



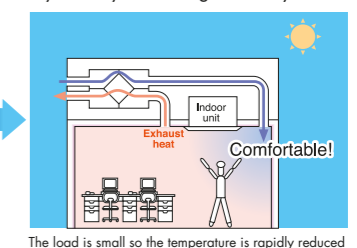
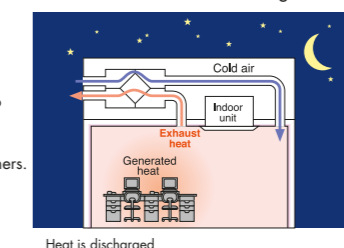
Night-time free cooling operation*1

Night-time free cooling operation is an energy-conserving function that works at night when airconditioners are off. By ventilating rooms containing equipment that raises that room temperature, night-time free cooling operation reduces the cooling load when airconditioners are turned on in the morning. It also alleviated feeling of discomfort in the morning caused by heat accumulated during the night.

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

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

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



Airconditioning sensible heat load reduced by **approx. 5%*2**

* Interlocked operation with an air conditioner.

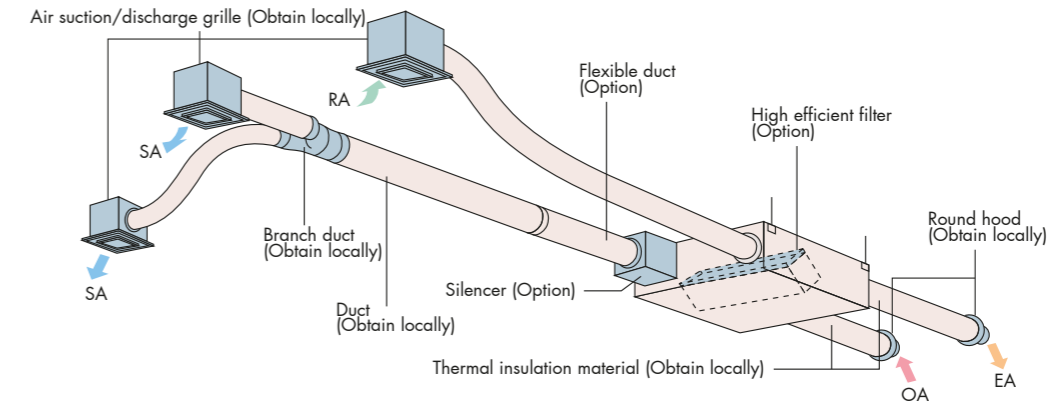
Specifications

MODEL			VAM250GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE	
1-phase, 220-240 V/ 220 V, 50 Hz										
Temp. Exchange Efficiency (50/60 Hz)	Ultra-High	%	75/75	74/74	75/75	72/72	78/78	72/72	77/77	
			High	75/75	74/74	75/75	72/72	78/78	72/72	77/77
			Low	79/79	80/80.5	77/77.5	74/74.5	80.5/81	75.5/76	79/81
Enthalpy Exchange Efficiency (50/60 Hz)	For Heating	Ultra-High	71/72	67/67	67.5/67.5	65/65	70/70	65/65	72/72	
		High	71/71	67/67	67.5/67.5	65/65	70/70	65/65	72/72	
		Low	74/74	74/74.5	71.5/72	67.5/68	72.5/73	67/67.5	76/76	
	For Cooling	Ultra-High	63/63	55/55	61/61	61/61	64/64	61/61	62/62	
		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	
Power Consumption (50/60 Hz)	Heat Exchange Mode	Ultra-High	137/141	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542	
		High	120/125	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315	
		Low	60/59	128/136	196/207	435/483	476/512	835/927	966/1,039	
	Bypass Mode	Ultra-High	137/141	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542	
		High	120/125	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315	
		Low	60/59	128/136	196/207	435/483	476/512	835/927	966/1,039	
Sound Level (50/60 Hz)	Heat Exchange Mode	Ultra-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	
		High	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	
		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	
	Bypass Mode	Ultra-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	
		High	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	
		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 Material Self-extinguishable polyurethane foam										
Dimensions (HXWXD)	mm	278X810X551	306X879X800	338X973X832	387X1,111X832	387X1,111X1,214	785X1,619X832	785X1,619X1,214		
Machine Weigh	kg	24	32	45	55	67	129	157		
Heat Exchange System Air to air cross flow total heat (Sensible heat + latent heat) exchange										
Heat Exchange Element Material Specially processed nonflammable paper										
Air Filter Multidirectional fibrous fleeces										
Fan	Type	Sirocco fan								
	Airflow Rate (50/60 Hz)	Ultra-High	250/250	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000	
		High	250/250	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000	
		Low	155/155	320/295	500/470	700/670	860/840	1,320/1,260	1,720/1,580	
	External Static Pressure (50/60 Hz)	Ultra-High	70/96	105/150	85/125	133/170	168/192	112/150	116/140	
		High	54/65	66/52	53/67	92/85	110/86	73/72	58/32	
Low		24/20	32/18	35/38	72/61	85/60	56/50	45/45		
Motor Output	kW	0.030X2	0.090X2	0.140X2	0.280X2		0.280X4			
Connection Duct Diameter	mm	ø 150	ø 200	ø 250		ø 350				
Unit ambient condition -15°C-50°CDB, 80%RH or less										

- 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.
 4. Sound level generally becomes greater than this value depending on the operating conditions, reflected sound, and peripheral noise.
 5. The sound level at the air discharge port is about 8 dB(A) higher than the unit's sound level.
 6. The specifications, designs and information given here are subject to change without notice.
 7. Temperature Exchange Efficiency is the mean value between cooling and heating.
 8. 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.
 9. 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.
 10. Sound level from the discharge port causes the value to be approximately 8 dB(A) (models with the airflow rate of less than 150 to 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.

10. With large models in particular (1500 and 2000m³/h models), if the supply air (SA) grille is installed near the main unit, the noise of the main unit may be heard from the discharge grille via the duct, and this will result in a marked increase in noise. In such cases, if peripheral effects are included (such as reverberation of the floor and walls, combination with other equipment, and background noise), sound level may be as much as 1.5 dB(A) higher than the indicated value. When installing a large model, please provide as much separation as possible between the main unit and the discharge grille. If the equipment and discharge grille are near each other, please consider countermeasures such as the following:
 - Use a sound-muffling box, flexible duct and sound-muffling air supply/discharge grilles
 - Decentralised installation of discharge grilles
11. When installing in a location with particularly low background noise such as a classroom, please consider the following measures to avoid transmission sound from the main unit:
 - Use of ceiling materials with high sound insulating properties (high transmission loss)
 - Methods of blocking sound transmission, for example, by adding sound insulating materials around the bottom of the sound source.
 Alternatively, consider supplementary methods such as installing the equipment in a different location (corridor, etc.)

Options



Option List

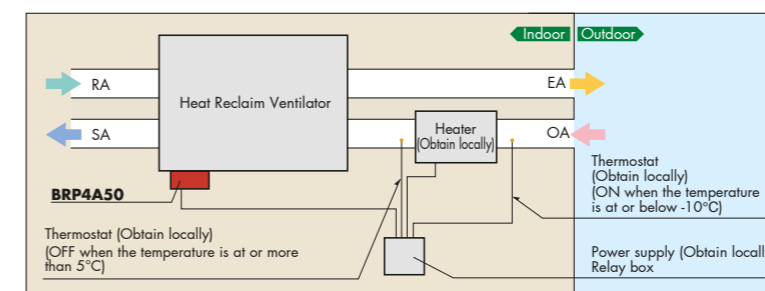
Item	Type	VAM 250 • 500 • 650 • 800 • 1000 • 1500 • 2000 GJVE														
Controlling device	Heat Reclaim Ventilator remote controller	BRC301B61														
	Centralised controlling device	Residential central remote controller	DCS303A51 *1													
		Central remote controller	DCS302CA61													
		Unified ON/OFF controller	DCS301BA61													
		Schedule timer	DST301BA61													
PC Board Adaptor	Wiring adaptor for electrical appendices	KRP2A61														
	For humidifier	KRP50-2														
	Installation box for adaptor PCB	KRP50-2A90 (Mounted electric component assy of Heat Reclaim Ventilator)														
	For heater control kit	BRP4A50														
	For wiring	Type (indoor unit of VRV)	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
Installation box for adaptor PCB	☆	Notes 2, 3 KRP1H98	Notes 4, 6 KRP1BA101	—	Notes 2, 3 KRP1B96	—	Notes 4, 6 KRP4A96	Notes 2, 3 KRP1CA96	—	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.
 5. Installation box ☆ is necessary for second adaptor.
 6. Installation box ☆ is necessary for each adaptor.
 7. *1 For residential use only. When connected with a Heat Reclaim Ventilator (VAM), you can only switch the power ON/OFF. Cannot be used with other centralised control equipment.

Item	Type	VAM250GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Additional function	Silencer	—	KDDM24B50	KDDM24B100		KDDM24B100X2		
	Nominal pipe diameter/mm	—	ø 200		ø 250			
	High efficiency filter	KAF242H25M	KAF242H50M	KAF242H65M	KAF242H80M	KAF242H100M	KAF242H80MX2	KAF242H100MX2
Air filter for replacement	KAF241G25M	KAF241G50M	KAF241G65M	KAF241G80M	KAF241G100M	KAF241G80MX2	KAF241G100MX2	
Flexible duct (1 m)	K-FDS151D	K-FDS201D		K-FDS251D				
Flexible duct (2 m)	K-FDS152D	K-FDS202D		K-FDS252D				
Duct adaptor		—		—			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.



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.