



warning • Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.

- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

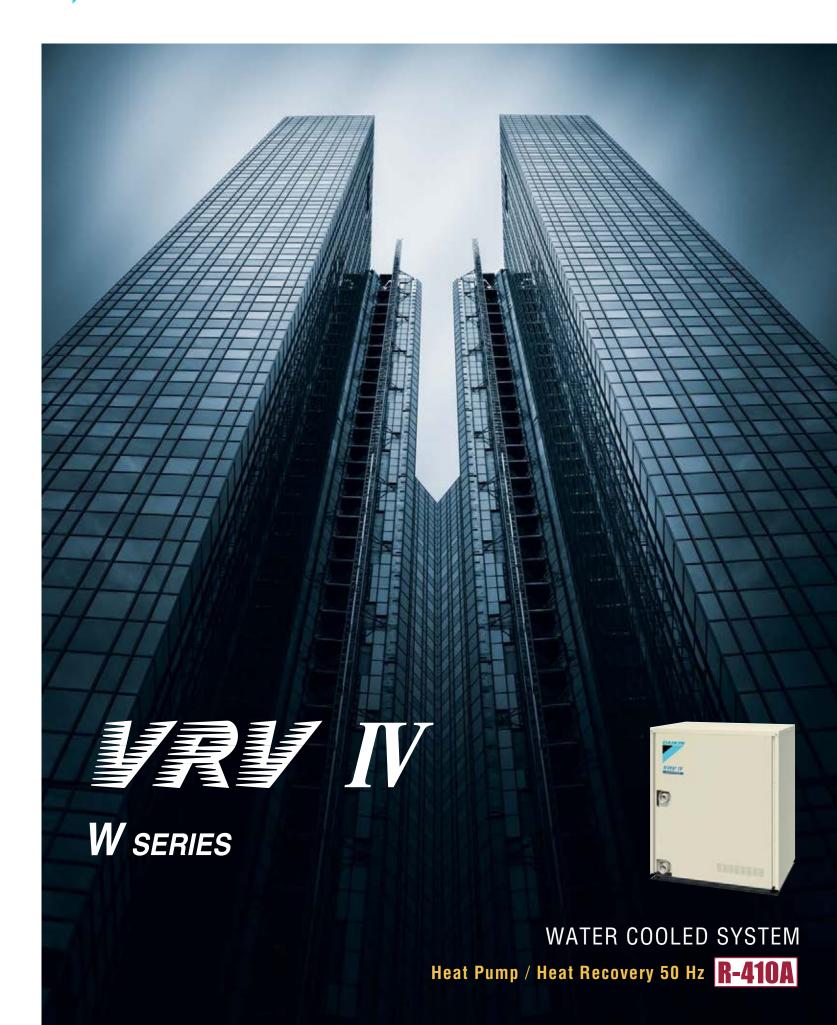
If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

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







A water cooled intelligent individual air conditioning system suitable for tall multi-storey buildings.



Boiler (for heating)



INDEX

Main Features

P3

Indoor Unit Lineup

P23

Specifications

P45

Option List

P59

Control Systems

P65

Air Treatment
Equipment Lineup

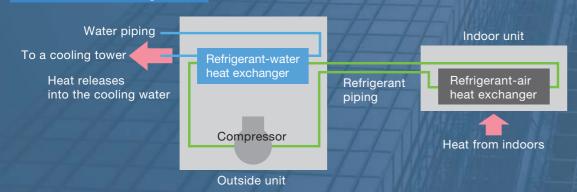
P77

What is a water cooled system?

While an air cooled air conditioning system is designed to exchange heat recovered from indoors with outdoor air, a water cooled air conditioning system is designed for heat exchange with water.

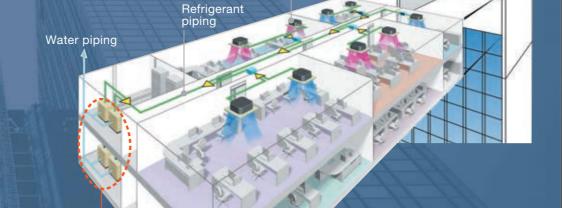
Heat releases outdoors Indoor unit Refrigerant-air heat exchanger Refrigerant piping Refrigerant-air heat exchanger Compressor Heat from indoors

Water cooled system



As a water cooled system does not require to exchange heat with outdoor air,

- Outside units can be installed indoors, for example, on basement floors.
 High installation flexibility
- The air conditioning operation is stable even when the outdoor air temperature is high.
 → Improved comfort



Cooling tower-

(closed type)

Indoor unit

- Individual air conditioning is achieved via on-demand operation in each room.
- Outside units can be installed anywhere in a building if they can be connected with water piping.
- The length of the refrigerant piping can be minimized by installing outside units in proximity to indoor units.
- [The system can easily fit into long building floors.]
 [The system helps reduce energy loss caused by long refrigerant piping.]
- Refrigerant piping is connected to indoor units.
 This design helps reduce the risks of indoor water leakage.

Enhanced lineup

Wide capacity range from 6 to 36 HP

Easy installation

Compact & lightweight design

Energy saving

The VRV IV W series combines

system with the VRV system.

Outside unit

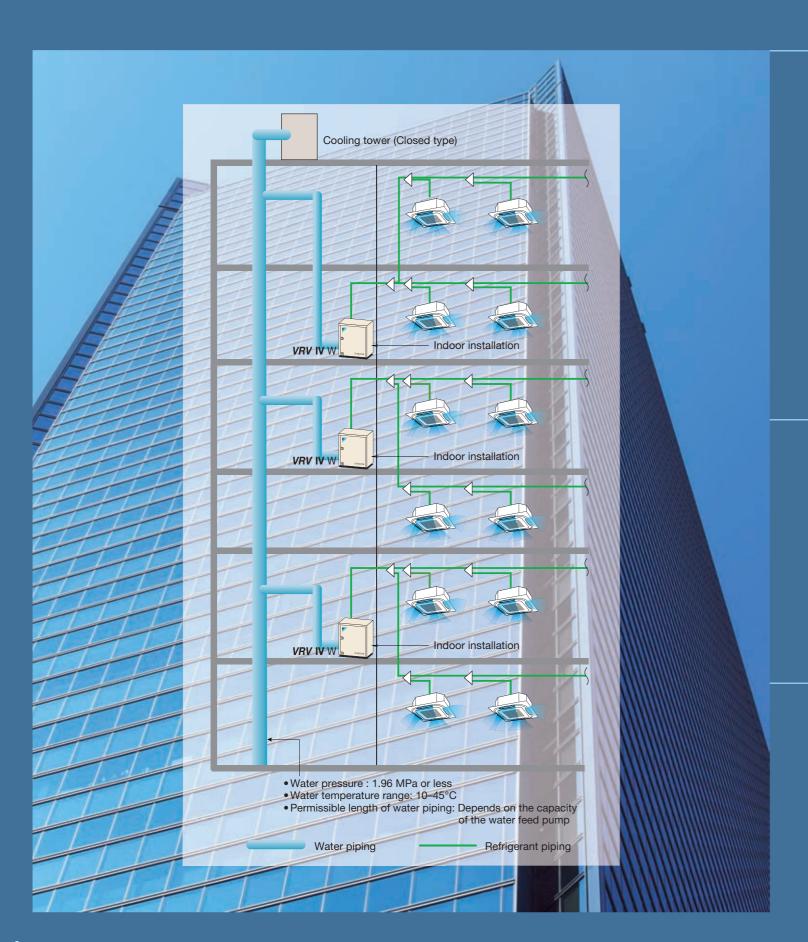
the characteristics of a water cooled

Higher COP & VRT technology

Enhanced usability

Centralised interlocking function

The **VRV** IV W series can meet various air conditioning needs by taking full advantage of the characteristics of a water cooled system.



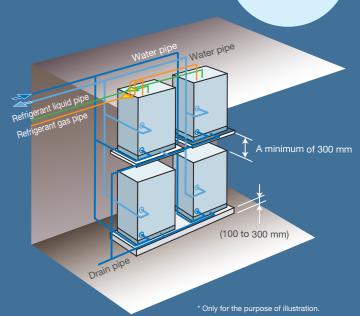
Adaptable to high-rise buildings due to easy installation on each floor

Compact outside units can be easily installed in the machine rooms on each floor.

This helps overcome the restriction on differences in height of refrigerant piping.

Individual air conditioning can be easily provided in high-rise buildings using this **VRV** system.

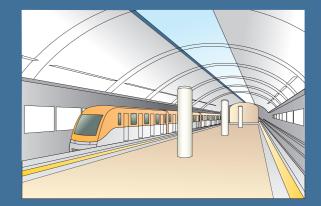




No balcony required

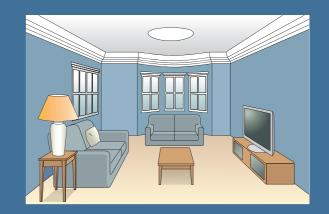
Easy to install in underground shopping malls and subway systems

Individual air conditioning can be easily provided in underground shopping malls, subway systems, etc. using this *VRV* system because heat exchange with outdoor air is not required.



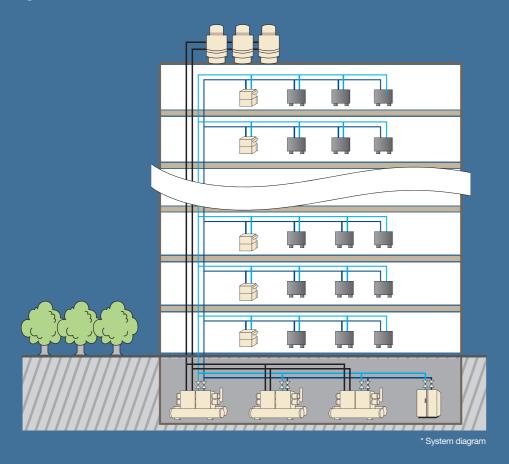
Also recommended for condominiums and detached houses

We offer an extensive lineup of small capacity outside units as well as connectable residential indoor units for detached houses. Compact outside units can be installed indoors.



Renovation of an Air Conditioning System

Problems occur for old conventional water system



Why is renovation necessary?

- 1 As equipment ages, its air conditioning capacity weakens with each passing year.
- 2 With frequent breakdowns in the outside unit, normal use of air conditioners is unachievable.
- 3 The maintenance cost for the equipment keeps rising.
- 4 The longer the equipment serves, its noise becomes louder.
- 5 Scale formed in water pipes is hard to clean, accelerating corrosion and aging processes.
- 6 To meet the requirements of a 24-hour running IT room is out of the question.
- 7 To cater to new tenants' partitioning changes in a timely manner is difficult.
- 8 To charge by household is not possible.
- 9 To serve tenants working overtime is difficult.
- 10 Central control and management costs too much.

Thorny issues in renovation?

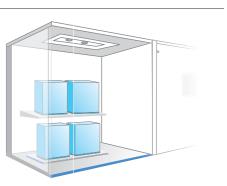
- 1 How to avoid damaging the building structure?
- 2 How to reduce the impact on tenants during renovation?
- 3 How to bring the renovation costs down to lowest level possible?
- 4 How to securely transport the air conditioning outside unit without incident?
- 5 How to simplify maintenance of the air conditioning system?

A Flexible System Convenient for Expansion/Renovation

Problems with existing water systems can be solved with minimal construction work.

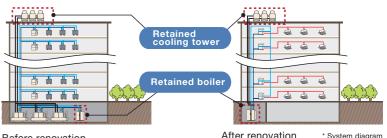
1 Indoor installation solves the puzzle of proper placement of outdoor units

The outside units of the water cooled VRV IV W series rid off the need of direct heat exchange with outdoor air. This feature makes it possible to place the outside unit room inside the building, which greatly extends design flexibility and makes it easier to adapt to different types of buildings and open to various kinds of creative building exteriors.



2 Part of the old system can be retained for cost reduction

The water cooled VRV IV W series can retain the cooling tower and boiler of the old system during renovation, effectively keeping costs down.



Before renovation

After renovation

3 The compact outside units facilitate the renovation process and saves space on the outside unit room

The outside units of the water cooled VRV IV W series are conveniently compact, which not only enables transport by elevator possible, but also effectively simplifies installation. This also saves a great deal of time and labor.

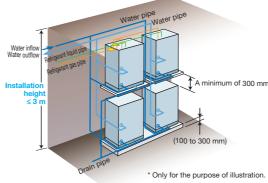


can be transported

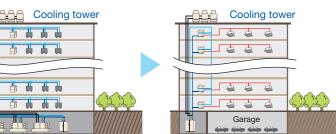


• The modular design featured by the water cooled VRV IV W series enables a free and flexible configuration of the outside units. Outside units can be arranged with one on top of another, saving space for other purposes.

Stacking up of the outside units



Saving more space for other purposes



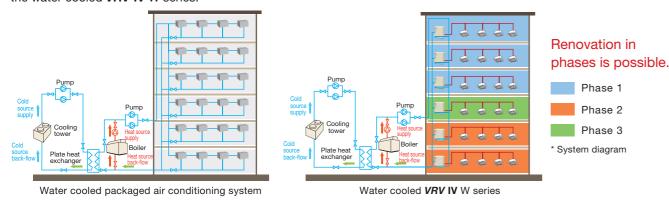
With a conventional central air conditioning system, the outside units take up a disproportionately large amount of space for installation

With the water cooled VRV IV W series, the outside units are modular design and can be arranged more freely and flexibly, saving part of the outside unit room for purposes such as business or car parking.

Renovation of an Air Conditioning System

4 Floor by floor renovation without disturbing other tenants

Based on the actual situation, renovation work can be carried out in phases, lot by lot and floor by floor. This truly and properly gives expression to the outstanding flexibility of the water cooled *VRV* IV W series.



5 Compact refrigerant pipes and VRV indoor units help to save ceiling space

The outside units and indoor units of the water cooled **VRV IV** W series are connected by refrigerant pipes. As the **VRV** indoor units and the diameter of refrigerant pipes are significantly smaller than duct and water pipes, less ceiling space is occupied and more floor height is saved. Less work is needed for expansion and renovation of the air conditioning system, thus minimizing the influence on other tenants.

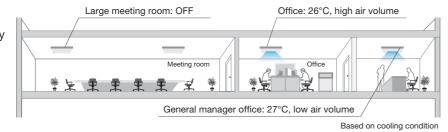


Individual air conditioning comfort can be realized when and where it is actually required.

1 Independent control provides greater comfort and convenience

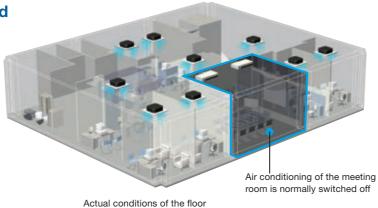
Each indoor unit of the water cooled **VRV IV** W series can be independently controlled and adjusted according to each tenant's individual needs for temperature and air volume.

This achieves optimal comfort and convenience.



2 Higher efficiency with partial load

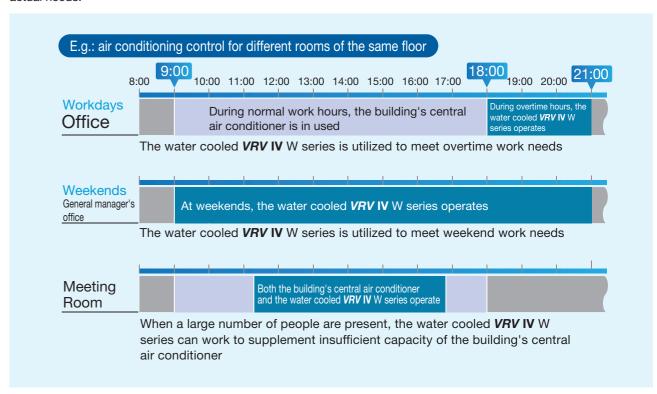
In actual operation, an air conditioning system's load may vary due to external climate change or variation of indoor unit operation rate, making the air conditioning system work in a partial load operation most of the time. By virtue of Daikin's advanced DC inverter technology and advanced refrigerant control technology, the water cooled **VRV IV** W series boasts a higher efficiency in a partial load state than in the rated operating conditions.



3 Flexibly satisfies conditions for working overtime and times of insufficient load

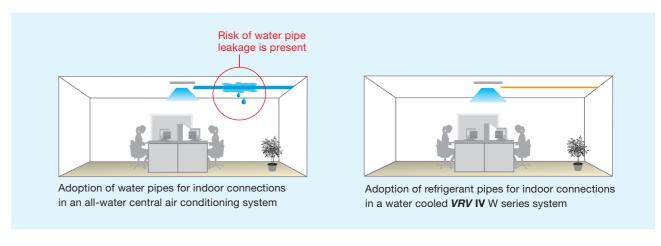
When teaming up with a conventional central air conditioning system, the water cooled *VRV* IV W series can easily handle the air conditioning needs for working after-hours while the building's central air conditioner can be utilized during normal work hours. The water cooled *VRV* IV W series can be added according to actual needs.

- Cumbersome application procedures are eliminated, and the tenants' daily air conditioning costs decrease.
- Based actual schedules, operation for each indoor unit can be precisely and individually set.



4 Connection using refrigerant pipes eliminate the risk of water leakage

The outside units and indoor units of the water cooled *VRV* IV W series are connected by refrigerant pipes, with water pipes centralised in the outside unit room and the pipe well. This arrangement greatly reduces the risk of damage of important equipment indoors caused by water leakage of the system.



Easy installation

Compact and lightweight

Adoption of a water heat exchanger and optimisation of the refrigerant control circuit has resulted compact and lightweight equipment.

A weight of 146 kg and height of 1,000 mm make installation possible in buildings with limited space, or where no space is available for outdoor units. This makes the system ideal for places that have no area outside—such as underground malls.

* The unit is designed for indoor installation only.



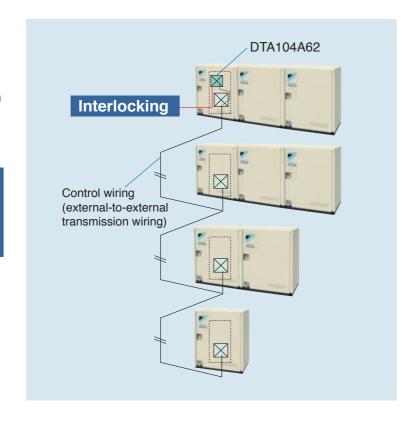


Enhanced usability

Centralised interlocking function

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

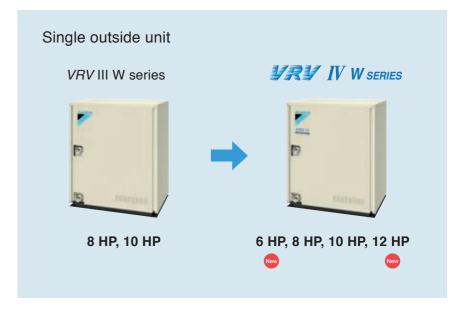
By using one external control adaptor circuit board, centralised interlocking input to multiple units within the same water system is possible.



Enhanced lineup

Wider capacity range from 6 to 36 HP

With its enhanced lineup of 2 new models-6 HP and 12 HP single outside units, *VRV* IV W series offers a wider capacity range from 6 HP to 36 HP to meet an ever wider variety of needs.

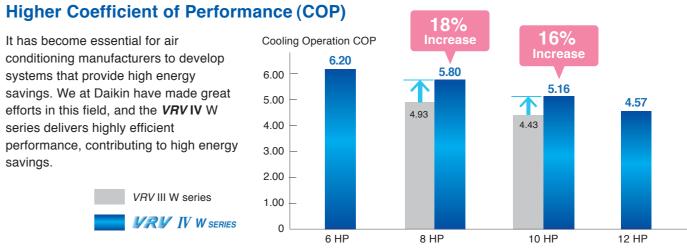


VRV IV W SERIES



														Mo.	c (New	Lineup
Capacity	HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Range	kW	16.0	22.4	28.0	33.5	38.4	44.8	50.4	56.0	61.5	67.0	72.8	78.4	84.0	89.4	95.0	101
Conventiona VRV III W se							0	0	0		0	0	0	0			
VRV IV	W SERIES		•	•			•	•	•		•	•	•	•			

Energy saving



 $^{\star}\text{Cooling: Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. and 20°C, Equivalent piping length: 0 m. and 20°C, E$

State-of-the-art energy saving technology

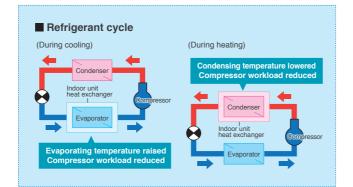
Customise your VRV system for optimal annual efficiency

The new *VRV* IV W series now 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.

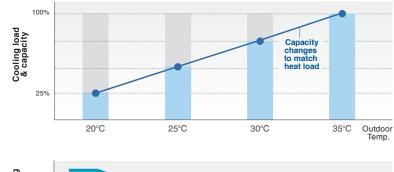
How is energy reduced?

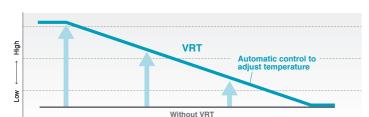
Refrigerant evapora temp. / Te(°C)

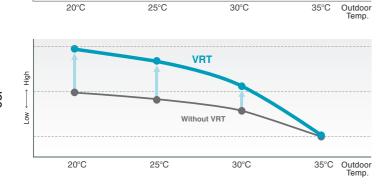
During cooling, the refrigerant evaporating temperature (Te) is raised to minimise the difference with the condensing temperature. During heating, condensing temperature (Tc) is lowered to minimise the difference to the evaporating temperature. Compressors work less, and this reduces power consumption.



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







Required capacity changes as air conditioning load changes according to outdoor temperature.

In case of fixed evaporating temperature, excessive cooling, thermo on-off loss, and other inefficiencies occur.

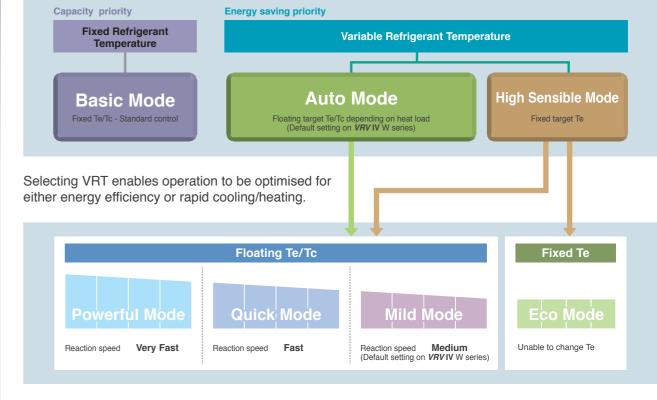
Automatic control adjusts evaporating temperature to heat load change.

Energy efficiency is improved without sacrificing comfort.

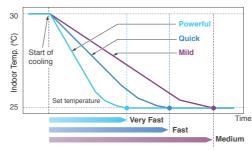
Fine control to match user preference available through mode selection

Basic mode is selected to maintain optimal comfort.

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



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

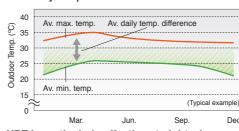


Powerful	The refrigerant temperature can go lower in cooling (higher in heating) than the set minimum (maximum in heating).
mode	Gives priority to very fast reaction speed. The refrigerant temperature goes down (or up in heating) fast to keep the room setpoint stable.
Quick mode	Gives priority to fast 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.

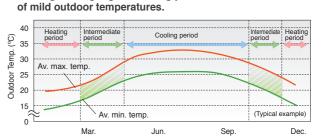
· Can boost capacity above 100% if needed.

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

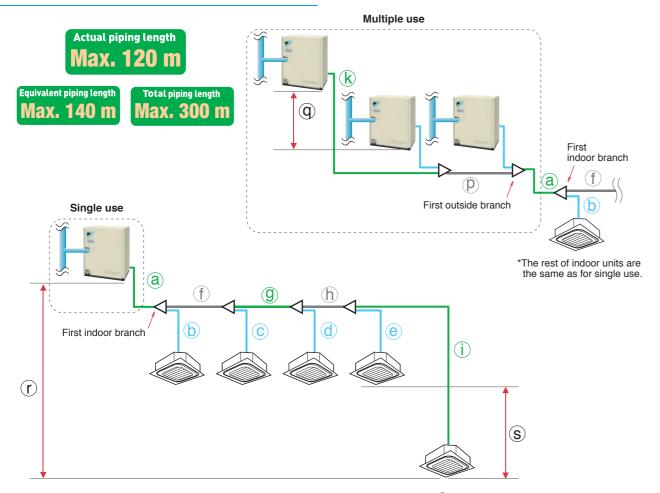


VRT is particularly effective during the intermediate periods.

Long refrigerant piping length

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

For connection of only VRV indoor units

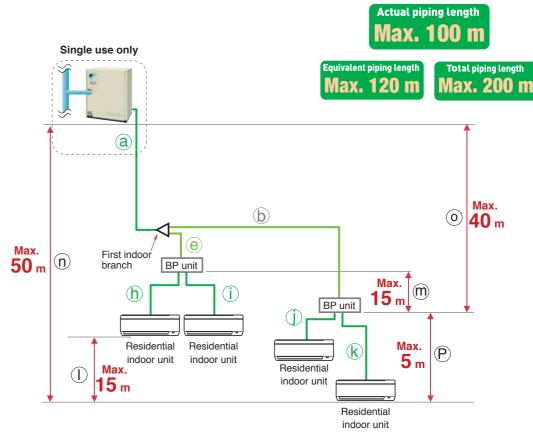


 * Colours in the diagram above are merely for identifying pipes referenced with symbols such as a.

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

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

For connection of only residential indoor units



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

-			Actual piping length	Example	Equivalent Example piping length
Max. allowable piping length	Refrigerant piping length		100 m	a+b+k	120 m
	Total piping length		200 m	a+b+e+h+j+k	_
	Between the first indoor branc	h and the farthest indoor unit	50 m*1	b+k	_
		If indoor unit capacity index < 60	2 m - 15 m	h,i,j,k	_
allowable	Between BP unit and indoor unit	If indoor unit capacity index is 60	2 m - 12 m	h,i,j,k	_
piping length		If indoor unit capacity index is 71	2 m - 8 m	h,i,j,k	_
	Between the outside unit	If the outside unit is above.	50 m	n	_
	and the indoor unit	If the outside unit is below.	40 m	n	_
Max. allowable	Between the indoor units		15 m	I	_
level difference	Between the outside unit and t	the BP unit	40 m	0	_
	Between BP units	15 m	m		
	Between the BP unit and the in	ndoor unit	5 m	р	_

^{*1.} When the piping length exceeds 20 m, the size of the main pipes (the gas side and the liquid side) must be increased. Please refer to Engineering Data Book for details.

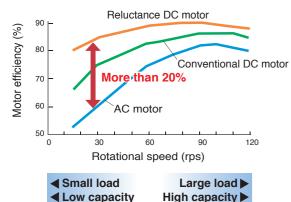
Advanced Technologies Achieve

Excellent Performance VRV IV W SERIES

High efficiency compressor to achieve a high COP

Compressor equipped with Reluctance DC motor

Daikin DC inverter models are equipped with the Reluctance DC motor for compressor. The Reluctance DC motor uses 2 different types of torque, neodymium magnet*1 and reluctance torque*2. This motor can save energy because it generates more power with a smaller electric power than an AC or conventional DC motor.

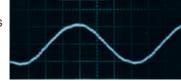


Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory using Daikin products.

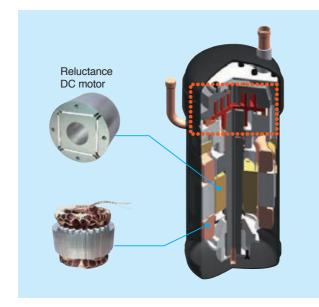
- *1 A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet
- *2 The torque created by the change in power between the iron and

Smooth sine wave DC inverter

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

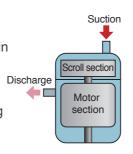


Sine wave DC inverter



Scroll compressor

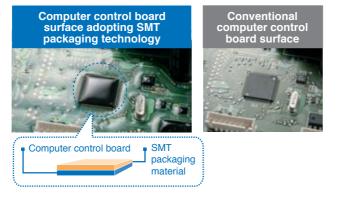
Sucked gas is compressed in the scrolling part before the heated motor, so that the machine compress the non-expanded gas, resulting in high efficiency compression.



Advanced control main PC board

SMT* packaging technology

- SMT packaging technology adopted by the whole computer control panel improves the anti-clutter performance.
- effect of sandy and humid weather.



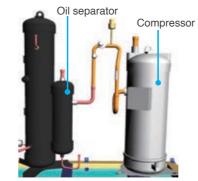
Minimize performance degradation from refrigeration oil in all stages of operation

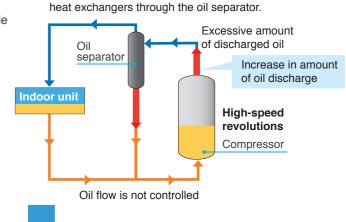
Newly designed oil receiver

Adding a container vessel (Oil Receiver) helps eliminate performance degradation by retaining refrigeration oil and preventing excessive oil from flowing to the heat exchanger. The new design enables the oil receiver to automatically supply the compressor with only the necessary amount of oil.

Conventional VRV III W series

Refrigeration oil discharged from the compressor circulates in the refrigerant cycle and lowers the heat transfer capabilities of the indoor and outside unit heat exchangers.

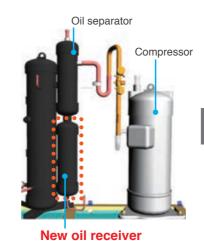


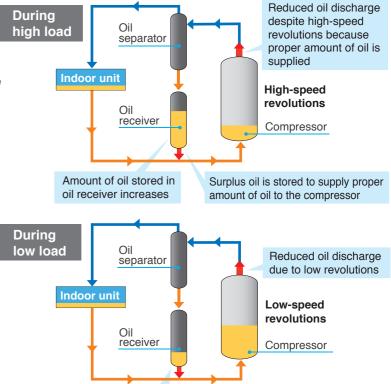


Oil flows to the indoor and outside unit

URU IV W SERIES

Surplus oil is stored in the oil receiver and automatically controls the amount of refrigeration oil in the refrigerant cycle. This prevents a reduction in performance for heat exchanger.





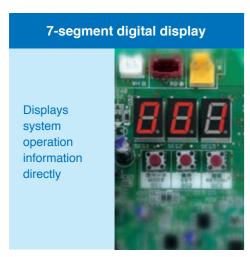
Surplus oil is stored to supply proper amount of oil to compressor

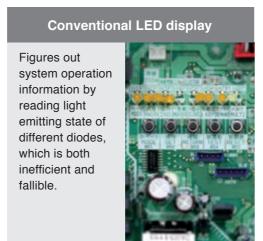
Protects your computer boards from the adverse *SMT: Surface mounted technology

Simplified commissioning and after-sales service

Function of information display by luminous digital tube

VRV IV W series utilises 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.

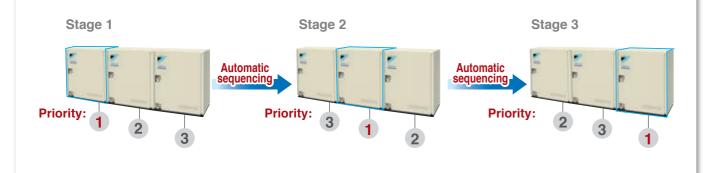




Outside unit sequencing technology

Automatic sequencing operation

During start-up, Daikin **VRV IV** W series outside unit sequencing operation will be automatically enabled to ensure balanced operation of each outside unit to improve longevity of equipment and stable operation.



Reliable and convenient air conditioning system

Auto-restart technology after power interruption

No matter whether the indoor or outside unit accidentally experiences a power interruption during normal operation, the system will keep a record of the operating mode adopted before the power interruption. When the power supply recovers, the air conditioning system will then restore itself back into the recorded operating status, simplifying the operation after an accidental power interruption.

Refrigerant pressure detection technology makes system operation more stable and efficient

Quick and accurate detection of the system's refrigerant status is crucial to the stable and efficient operation of the system. The water cooled *VRV* IV W series not only utilizes temperature sensors to detect the system's operating status, but also employs high and low pressure sensors to carry out a quick, comprehensive and accurate detection of the system's refrigerant status, ensuring more stable and efficient operation.

More stable operation

Low pressure protection: the system can effectively protect the compressor from being affected by instantaneous low pressure changes through monitoring the pressure data of the air suction pipe. Compared with the conventional low pressure protection method featuring temperature sensors, the pressure-sensor method boasts quicker response and can better reflect the system's instantaneous operating status.



High pressure protection: the system can also keep the compressor from being affected by instantaneous high pressure changes.

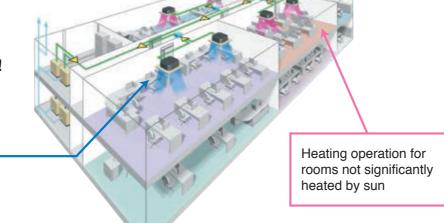
More efficient operation

A low pressure sensor, together with advanced supercooling technologies and high pressure protection control, helps to realize fast starting of the compressor, and can also quickly adjust rotational speed according to refrigerant status to adjust to indoor load fluctuations more rapidly.

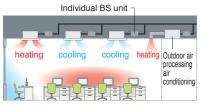
Easily responds to simultaneous heating and cooling needs.

Offers simultaneous cooling and heating operation on the same floor!

> Cooling operation significantly heated by sun

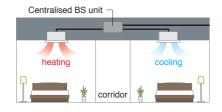


Increasing demand for simultaneous cooling and heating needs



Winter season (Office Building)

- Difference between the load of cold air and heat from room is large
- Oan be use with the outdoor air processing air conditioning



Winter season (Hotel)

 Able to cater to individual heating and cooling requirement



Individual office

 Provides heating and annual cooling depending on space area

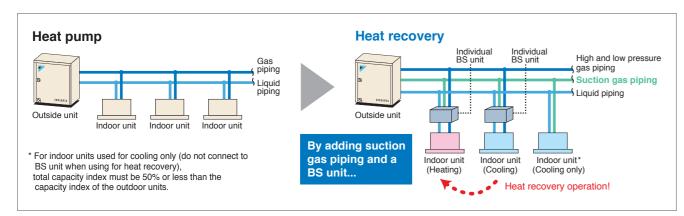
BS unit (Individual type/Centralised type)

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



Individual BS unit

Centralised BS unit



2-stage heat recovery operation improves energy efficiency

Daikin offers 2-stage heat recovery operation.

The first stage of heat recovery operation is within the refrigerant system.

By controlling the BS unit that switches cooling and heating, simultaneous cooling and heating operation is made possible, with heat recovery performed between indoor units.

The second stage of heat recovery operation is within the water loop, where heat recovery is performed between the VRV IV W systems.

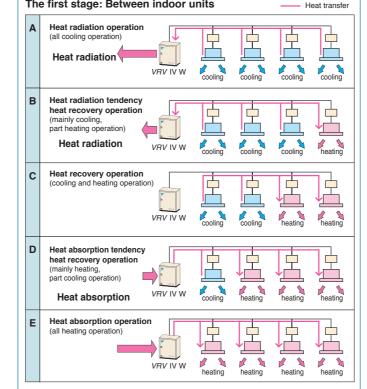
This 2-stage heat recovery operation substantially improves energy efficiency and makes the system the ideal solution to the requirements of modern office buildings, where some areas may require cooling even in winter, depending on the amount of sunshine received and the number of people in the room.

Stage 1

Simultaneous heating and cooling operation within the refrigerant system.

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

The first stage: Between indoor units



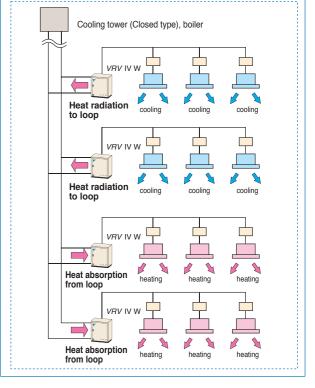
Note: • Above system configurations are for illustration purposes only

Stage 2

Heat recovery operation between the VRV IV W systems.

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

The second stage: Between VRV IV W systems



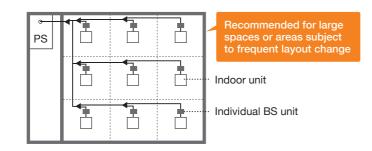
Individual and centralised BS unit allow greater design flexibility.

Individual BS unit





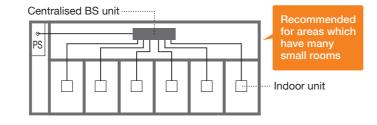
- Compact and flexible installation
- Flexible design
- Low noise



Centralised BS unit

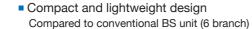






Enhanced L	ine	up
------------	-----	----

No. of branches	4	6	8	10	12	16
Conventional Centralised BS Unit						
New Centralised BS Unit						





New BS unit weight reduced by 73%

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



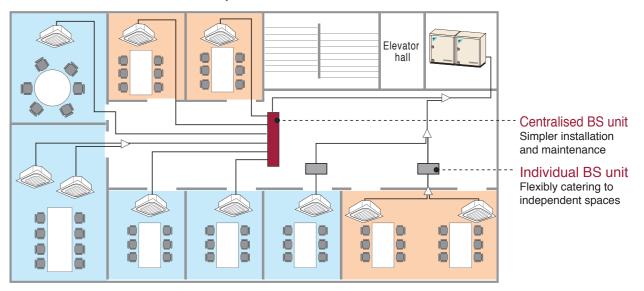
*Centralised BS unit requires drain pipe

Greater design flexibility achieved by increasing the connection capacity range



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

Availability of individual type and centralised type BS units can better satisfy different design needs, with the former catering flexibly to independent spaces, and the latter for more convenient system installation and maintenance.



Faster installation of centralised BS unit thanks to open connection



Lower transient sound

New BS units achieve lower transient sound level than conventional BS units.

Maximum transient sound			Centralised BS unit									
		4 branch	6 branch	8 branch	10 branch	12 branch	16 branch					
New BS units Sound level (dB(A))*		45	47	47	47 48 48 49							
Conventional BS units	Sound level (dB(A))*	51.5	53.5	<u> </u>								

th 10 branch 12 branch 16 branch 100 type 160 type 250 type 48 48 49 40 45 45 45.5 46.5 47.5	1130	u Do unit				iliaividuai D3 uliit						
	h	10 branch	branch 12 branch 16 branch		100 type	160 type	250 type					
		48	48	49		40	45	45				
		-	_			45.5	46.5	47.5				

*Anechoic chamber conversion value, measured at a point 1 m downward from the unit centre

Enhanced range of choices

Indoor units can be selected from 2 lineups, both *VRV* and residential indoor units, to match rooms and preferences.

VRV indoor units												18 ty	pes 9	3 mc	dels
			20	25	32	40	50	63	71	80	100	125	140	200	250
Туре	Model Name	Capacity Range													10 HP
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFQ-SVM				•	•	0	0		0	•				
Ceiling Mounted Cassette (Round Flow)	FXFQ-LUV1			•	•	•	•	•		•	•	•			
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE		0	•	•	•	•								
4-Way Flow Ceiling Suspended	FXUQ-AVEB														
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		•	•	•	•	•	•		•		•			
Ceiling Mounted Cassette Corner	FXKQ-MAVE			•	•	•		•							
	FXDQ-PBVE (with drain pump)														
Slim Ceiling	FXDQ-PBVET (without drain pump)	(700 mm width type)	0	0	0										
Mounted Duct	FXDQ-NBVE														
	(with drain pump) FXDQ-NBVET (without drain pump)	(900/1,100 mm width type)				0	0	0							
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE		New	New	New	New	New	New		New	New	New	New		
Ceiling Mounted	FXMQ-PVE														
Duct	FXMQ-MAVE													•	•
Outdoor-Air Processing Unit	FXMQ-MFV1		age 79									•		•	•
Ceiling Suspended	FXHQ-MAVE				•			•			•				
Wall Mounted	FXAQ-PVE		•					•							
Floor Standing	FXLQ-MAVE		0	•	•	•	•	•							
Concealed Floor Standing	FXNQ-MAVE		0	0	•	•	0	0							

Residential indoor units with connection to BP units 4 types 12 model									
			20	25	35	50	60	71	
Туре	Model Name	Rated Capacity (kW)		2.5				7.1	
		Capacity Index						71	
Slim Ceiling	CDXS-EAVMA	(700 mm width type)			•				
Mounted Duct	FDXS-CVMA	(900/1,100 mm width type)							
Wall Mounted	FTXS-DVMA FTXS-EVMA		•	0	•				
	FTXS-FVMA								

Note: BP units are necessary for residential indoor units. Only single outside unit (RWEYQ6-12T) heat pump type can be connected.



*Refer to page 56 for the maximum number of connectable indoor units.

Daikin offers a wide range of indoor units includes both VRV and residential models responding to variety of needs of our customers that require air-conditioning solutions.

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type

FXFQ-SVM



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



Ceiling Mounted Cassette (Round Flow) Type

FXFQ-LUV1



360° airflow improves temperature distribution and offers a comfortable



Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ-MVE



Quiet, compact, and designed for



4-Way Flow Ceiling Suspended Type

FXUQ-AVEB



This slim and stylish indoor unit and can be installed without the need for ceiling cavity



Ceiling Mounted Cassette (Double Flow) Type

FXCQ-MVE



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



Slim Ceiling Mounted Duct Type







static pressure switching



Corner Type FXKQ-MAVE

Ceiling Mounted Cassette



Slim design for flexible installation



Middle Static Pressure Ceiling Mounted Duct Type





Middle external static pressure and slim design allow flexible installations



Ceiling Mounted Duct Type





High external static pressure allows flexible installations



Ceiling Suspended Type

FXHQ-MAVE



Slim body with quiet and wide airflow



Floor Standing Type

FXLQ-MAVE



Suitable for perimeter zone air conditioning



Outdoor-Air **Processing Unit**

FXMQ-MFV1



Combine fresh air treatmen and air conditioning, supplied from a single system.



Wall Mounted Type

FXAQ-PVE



Stylish flat panel design harmonised with your interior

Concealed Floor Standing

FXNQ-MAVE



Designed to be concealed in the perimeter skirting-wall



Residential Indoor Units with connection to BP units

Slim Ceiling Mounted **Duct Type**





Slim and smooth design suits your shallow ceiling



Wall Mounted Type

FTXS-DVMA FTXS-EVMA



Stylish flat panel harmonises with your interior décor



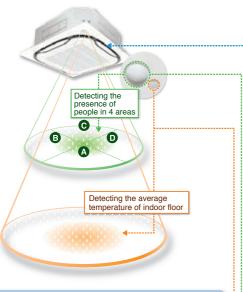
Ceiling Mounted Cassette (Round Flow with Sensing) Type

FXFQ25S / FXFQ32S / FXFQ40S FXFQ50S / FXFQ63S / FXFQ80S FXFQ100S / FXFQ125S



Round flow with sensing

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





Thanks to the individual airflow direction control function, airflow direction can be individually adjusted for each air discharge outlet to prevent uncomfortable drafts and to deliver optimal air distribution.



Infrared presence sensor

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

Ceiling height	2.7m	3.5m	4.0m
Detection range (diameter)*1	approx. 8.5m	approx. 11.5m	approx. 13.5m

 $^{\star}1.$ The infrared presence sensor detects 80 cm above the floor.



Infrared floor sensor

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

Celling Height	2./111	3.3111	4.0111							
Detection range (diameter)*2	approx. 11m	approx. 14m	approx. 16m							
*O The infusion floor consequents at the floor confere										

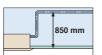
*2. The infrared floor sensor detects at the floor surface.



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



- Improved energy efficiency thanks to a new heat exchanger with smaller tubes, DC fan motor, and DC drain pump motor.
- Low operation sound level
- Drain pump is equipped as standard accessory with 850 mm lift.

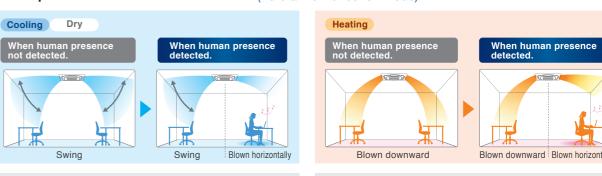


- Selectable airflow rate: 3 steps and Auto.
 (Auto airflow rate is available when BRC1E62 is used.)
- •An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)

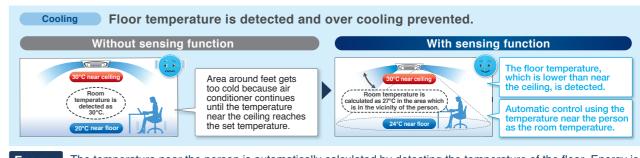


Sensing function

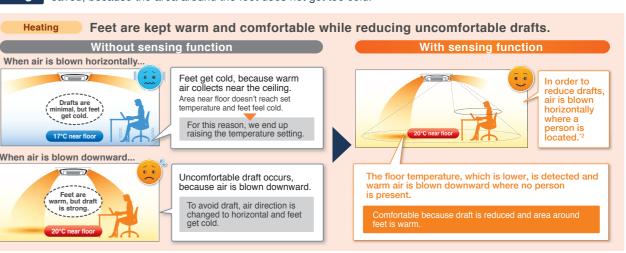
■ Draft prevention function (default: OFF) *1.2 (Auto airflow direction mode)



- With the Auto airflow direction mode, flaps are controlled to deliver optimal air distribution for both cooling and heating operations when there are no people.
- When a person is detected, drafts are prevented by making the flap horizontal.
- When a person is not detected for 5 minutes, the unit automatically returns to controlling the flaps for an unoccupied room.
 *1. Airflow direction should be set to Auto.
 *2. Draft prevention function is OFF in the initial setting. It can be set ON using the remote controller.
- Comfort and Energy saving preventing over Cooling / Heating *1.2 (Auto airflow direction mode +) Auto airflow rate mode



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.



rergy from the

The tendency of people to raise the temperature too much is prevented, because you are warmed up from the feet

To increase comfort, Auto airflow rate mode controls the airflow in accordance with the difference between floor and ceiling temperatures. When there is a large difference between the ceiling and floor temperatures, the airflow rate is automatically increased. When the difference becomes small, the airflow rate is automatically reduced.

*1. Both airflow direction and airflow rate should be set to Auto.
*2. Draft prevention function is set OFF in the initial setting.

Ceiling Mounted Cassette (Round Flow with Sensing) Type

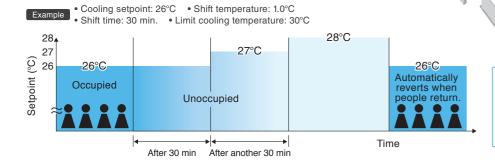
Sensing sensor mode*1.2

■ Sensing sensor low mode (default: OFF)

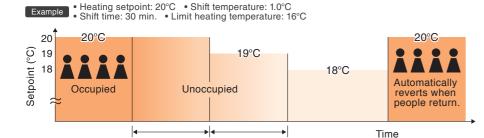
When there are no people in a room, the set temperature is shifted automatically.

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

Operation is reduced in places where there are no people.



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



After 30 min After another 30 min

If people do not return, the air conditioner will lower the temperature 1°C every 30 minutes and then operate at 16°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 (default: OFF)

When there are no people in a room, the system stops automatically.*3

The system automatically saves energy by detecting whether or not the room is occupied.

Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

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

- *1. These functions are not available when using the group control system
- *2. User can set these functions with remote cont
- *3. Please note that upon re-entering the room, air conditioner will not switch on automatically.

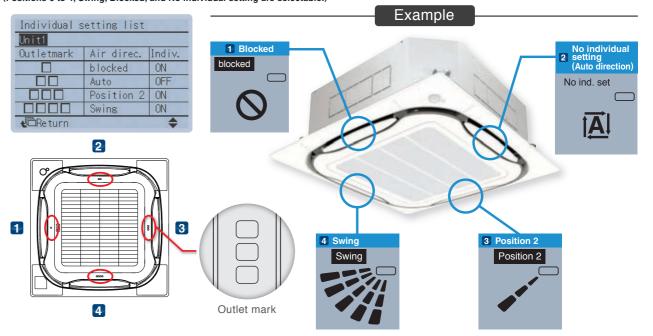


Individual airflow direction control

■ Individual airflow setting

Airflow direction of each of the four air outlets can be controlled individually.

(Positions 0 to 4, Swing, Blocked, and No individual setting are selectable.)



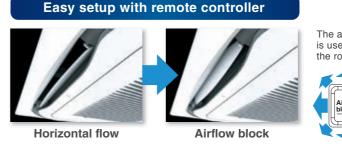
■ Airflow block function*1

Total comfort by individual airflow direction control and "airflow block function"

- Airflow block function prevents uncomfortable drafts by
- 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).



Airflow block function prevents uncomfortable drafts by reducing air velocity to approx. 0.3m/s.*2



The airflow block function is useful when rearranging 500 mm



- *2. In case of FXFQ63S type (Data is based on Daikin research.) When using FXFQ80S type or higher, if the airflow rate is set to High, airflow will be on the high side. Under actual conditions, however, the airflow value may differ depending on the effect of surrounding conditions and the way in which the temperature was adjusted
- *3. A gap of 1500 mm is required if the air block function is not used.

Indoor Unit Lineup

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow) Type

FXFQ25LU / FXFQ32LU / FXFQ40LU FXFQ50LU / FXFQ63LU / FXFQ80LU FXFQ100LU / FXFQ125LU



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

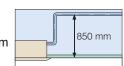
•The industry's first* Round Flow Ceiling Mounted Cassette type offers 360° airflow with improved temperature distribution.



There are areas of uneven temperature.

* As of April 2004, the release date for Japa

- •The light weight unit at 19.5 kg for FXFQ25-50LU models makes installation easy.
- •Drain pump is equipped as a standard accessory with a 850 mm



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



- •Control of the airflow rate can be selected from 3-step control.
- •Low operation sound level
- •The horizontal louvres prevent dew condensation. Their non-flocking surfaces, which repel dirt, are easy to clean.



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

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

•The air filter has an anti-mould and antibacterial treatment that prevents the growth of mould generated from dust or moisture that may adhere to

Example of airflow patterns: All-round flow is available, as well as 2-way to

4-way flows, so you can choose the most suitable airflow pattern depending on location or room lavout.





the filter.





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

Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ20M / FXZQ25M / FXZQ32M FXZQ40M / FXZQ50M

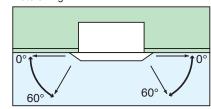


Quiet, compact, and designed for user comfort

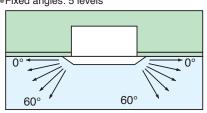
- Dimensions correspond with 600 mm x 600 mm architectural module ceiling design specifications.
- Low operation sound level

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

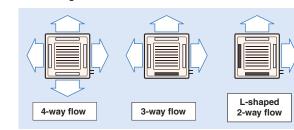
- Comfortable airflow
- 1 Wide discharge angle: 0° to 60°
- Auto swing



•Fixed angles: 5 levels



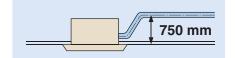
- *Angles can be also set on site to prevent drafts (0°-35°)
- 2 2-, 3-, and 4-way airflow patterns are available, enabling installation in the corner of a room.



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



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



4-Way Flow Ceiling Suspended Type

FXUQ71A / FXUQ100A



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

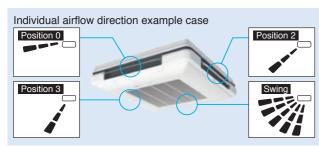
- Unit body and suction panel adopted round shapes and realised a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bare ceilings.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198 mm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



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

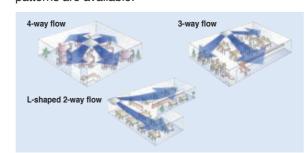


 With adoption of the individual flap control, airflow direction adjustment can be individually set for each air outlet. 5 directions of airflow and auto-swing can be selected with wired remote controller BRC1E62, which realises the optimum air distribution.





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



 An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)

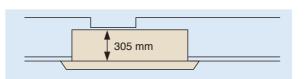
Ceiling Mounted Cassette (Double Flow) Type

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.

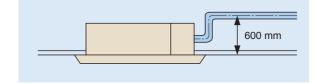


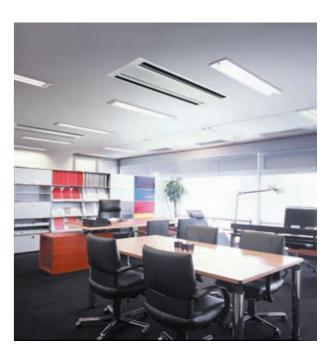
(When a high-efficiency filter is attached, the unit's height is 400 mm.)

•	Low	operation	sound	level	
---	-----	-----------	-------	-------	--

(220 V)(dB)										
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 filter are available (65% and 95%, colourimetric method).
- •A long-life filter (maintenance free up to one year*) is equipped as standard accessory.
- * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³
- Major maintenance work can be performed by removing the panel. A flat-type suction grille and a detachable blade make cleaning easy.

Indoor Unit Lineup

VRV Indoor Units

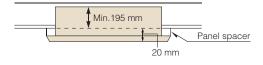
Ceiling Mounted Cassette Corner Type

FXKQ25MA / FXKQ32MA FXKQ40MA / FXKQ63MA

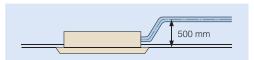


Slim design for flexible installation

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

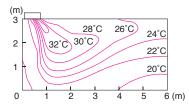


- •Single-flow type allows effective air discharge from corner or from drop-ceiling.
- •Drain pump is equipped as standard accessory with 500 mm lift.

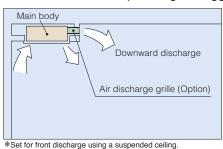


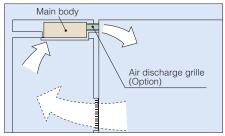


 Providing 3 different settings of standard, draft prevention and ceiling soiling prevention, the auto swing mechanism realises even distribution of airflow and room temperature.



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





- *Downward discharge is shut off and air is blown straight out (front discharge).
- •A long-life filter (maintenance free up to one year*) is equipped as standard accessory.
- * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m 3

Slim Ceiling Mounted Duct Type

Slim design, quietness and

static pressure switching

Suited to use in drop-ceilings!

FXDQ20PB / FXDQ25PB / FXDQ32PB

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





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

D	Low operation sound level (dB(A)										
	FXDQ-PB/NB	20/25	32	40	50	63					
	Sound level (HH/H/L)	28/26/23	28/26/24	30/28/26	33/30/27	33/31/29					

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



FXDQ40NB / FXDQ50NB / FXDQ63NB

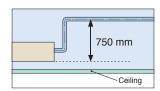
•Only 200 mm in height, this model can be installed in rooms with as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab.



- External static pressure selectable by remote controller switching make this indoor unit a very comfortable and flexible model.
- 10 Pa-30 Pa/factory set: 10 Pa for FXDQ-PB models. 15 Pa-44 Pa/factory set: 15 Pa for FXDQ-NB models.
- •FXDQ-PB and FXDQ-NB models are available in two types to suit different installation conditions.

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

FXDQ-PB/NBVET: without a drain pump



Middle Static Pressure Ceiling Mounted Duct Type





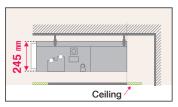
Middle external static pressure and slim design allow flexible installations

Installation flexibility

Slim design

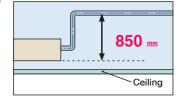
• With a height of only 245 mm, installation is possible even in buildings with narrow ceiling spaces.





Standard DC drain pump

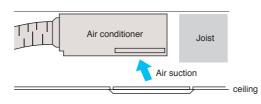
•DC drain pump is equipped as standard accessory with 850 mm lift.



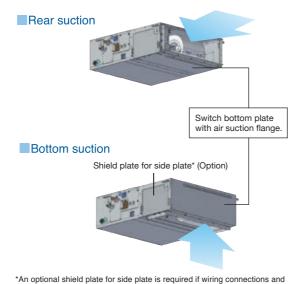


Bottom suction possible

• Bottom suction is possible which facilitates installation and maintenance. Wiring connections and maintenance of control box can be done from under the unit with an optional shield plate for side plate*, extending the degree of freedom for installation in the



· Air suction direction can be altered from rear to bottom suction.



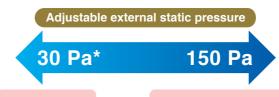
maintenance of control box are needed from under the unit. This option is only

available for FXSQ20-125P models

Design flexibility

Adjustable external static pressure

• Using a DC fan motor, the external static pressure can be controlled within a range of 30 Pa* to 150 Pa.



Set to low static pressure when ducts are short.

Set to high static pressure for advanced needs such as when using dampers and long ducts.

Comfortable airflow is achieved in accordance with conditions such as duct length.

*30 Pa-150 Pa for FXSQ20-40PVE 50 Pa-150 Pa for FXSQ50-125PVE 50 Pa-140 Pa for FXSQ140PVE

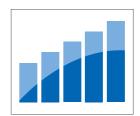
Comfort

Switchable airflow rate

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

Auto airflow rate • 5-step airflow rate is

automatically controlled in accordance with the difference between room temperature and set temperature. Auto airflow rate control can be selected with wired remote controller BRC1E62.



Low operation sound level

FXSQ-PVE 20/25 50 40 63 Sound level (H/M/L) 33/30/28 34/32/30 36/33/30 34/32/29 36/32/29

FXSQ-PVE	80	100	125	140	
Sound level (H/M/L)	37.5/34/30	39/35/32	42/38.5/35	43/40/36	



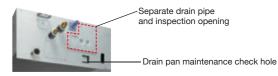
Easy installation

Airflow rate auto adjustment function

- During installation, even if the external static pressure changes due to a change in the duct route, the airflow can be automatically adjusted to within the unit's external static pressure range.
- Airflow rate can be controlled using a remote controller during test operation. It is automatically adjusted to the range between approximately ±10% of the rated H tap airflow.

Easy maintenance

• Inspection and cleaning is facilitated by separating the drain pipe and inspection opening and by the drain pan maintenance check hole.



- 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.
- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)



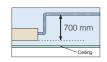
Ceiling Mounted Duct Type

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



Middle and high static pressure allows for flexible duct design

- •A DC fan motor increases the external static pressure capacity range to include middle to high static pressures, increasing design flexibility.
- 30 Pa-100 Pa for FXMQ20P-32P 30 Pa-160 Pa for FXMQ40P
- 50 Pa-200 Pa for FXMQ50P-125P
- 50 Pa-140 Pa for FXMQ140P
- •All models are only 300 mm in height, an improvement over the 390 mm height of conventional models. The weight of the FXMQ40P has been reduced from 44 kg to 28 kg.
- Drain pump is equipped as standard accessory with 700 mm lift.



- •Control of the airflow rate has been improved from 2-step to 3-step control.
- •Low operation sound level
- Energy-efficient
- The adopted DC fan motor is much more efficient than the conventional AC motor, yielding an approximate 20% decrease in energy consumption (FXMQ125P).
- •Improved ease of installation
- Airflow rate can be controlled using a remote controller during test operation. With the conventional model, the airflow rate was controlled from the PC board. It is automatically adjusted to the range between approximately ±10% of the rated HH tap airflow for FXMQ20P-125P.



- Improved ease of maintenance
- The drain pan can be detached for easy cleaning. An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.
- •An antibacterial treatment that uses silver ions has been applied to the drain pan. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)

preventing the growth of slime, mould and bacteria that cause blockages and odours.

FXMQ200M / FXMQ250M

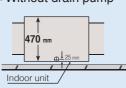


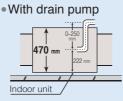
 Simplified Static Pressure Control External static pressure can be easily adjusted using a change-over switch inside the electrical box to meet the resistance in the duct system.

Built-in Drain Pump (Option)

Housing the drain pump inside the unit reduces the space required for installation.

Without drain pump





Ceiling Suspended Type

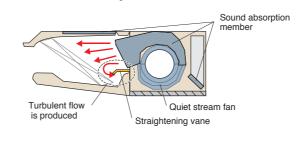
FXHQ32MA / FXHQ63MA FXHQ100MA



Slim body with quiet and wide airflow

Adoption of QUIET STREAM FAN

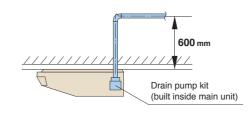
Uses the quiet stream fan and many more advanced technologies



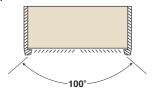
• Low operation sound level

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

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



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





Maintenance is easy

cleaning simpler.

 Non-dew Flap with no implanted bristles Bristle-free Flap minimises contamination and makes



- · Easy-to-clean flat design
- •Maintenance is easier because everything can be performed from below the unit.
- A long-life filter (maintenance free up to one year*) is equipped as standard accessory.
- * 8 hr/day, 25 day/month, For dust concentration of 0.15 mg/m³

Wall Mounted Type

FXAQ20P / FXAQ25P FXAQ32P / FXAQ40P FXAQ50P / FXAQ63P



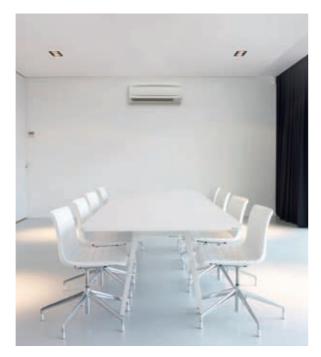
Stylish flat panel design harmonised with your interior décor

- Stylish flat panel design creates a graceful harmony that enhances any interior space.
- Flat panel can be cleaned with only the single pass of a cloth across their smooth surface.
 Flat panel can also be easily removed and washed for more thorough cleaning.

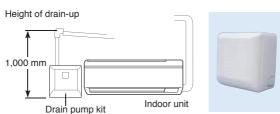
•Low operation sound level

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

- Drain pan and air filter can be kept clean by mould-proof polystyrene.
- Vertical auto-swing realises efficiency of air distribution. The louvre closes automatically when the unit stops.
- •5 steps of discharge angle can be set by remote controller.
- Discharge angle is automatically set at the same angle as the previous operation when restarting.
 (Initial setting: 10° for cooling and 70° for heating)
- Flexible installation
- Drain pipe can be fitted to from either left or right sides.



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



Floor Standing Type

FXLQ20MA / FXLQ25MA FXLQ32MA / FXLQ40MA FXLQ50MA / FXLQ63MA



Suitable for perimeter zone air conditioning

- Floor Standing types can be hung on the wall for easier cleaning.

 Running the piping from the back allows the unit to be hung on walls.

 Cleaning under the unit, where dust tends to accumulate, is considerably easier.
- •The adoption of a fibre-less discharge grille featuring an original design to prevent condensation also helps prevent staining and makes cleaning easier.
- •A long-life filter (maintenance free up to one year*) is equipped as standard accessory.
- * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³





Concealed Floor Standing Type

FXNQ20MA / FXNQ25MA FXNQ32MA / FXNQ40MA FXNQ50MA / FXNQ63MA



Designed to be concealed in the perimeter skirting-wall

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

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





Residential Indoor Units with connection to BP units

Slim Ceiling Mounted Duct Type



CDXS25EA / CDXS35EA (900/1,1000 mm width type) FDXS25C / FDXS35C FDXS50C / FDXS60C



Slim and smooth design suits your shallow ceiling

•Models in the CDXS-EA series are only 700 mm in width and 21 kg in weight, so are easily installed in limited spaces. Just 200 mm in height, all models can be installed in rooms with as little as 240 mm depth between the drop ceiling and ceiling slab, making them ideal for even shallow ceilings.



	CDXS25EA	CDXS35EA	FDXS25C	FDXS35C	
Dimensions (H x W x D)	200 x 700	x 620 mm	200 x 900 x 620 mm		
Weight	21	kg	25 kg		
Airflow rate (H)	8.7 m	ı³/min	9.5 m³/min	10 m³/min	
External static pressure	30	Pa	40 Pa		



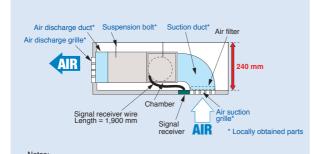
Signals from the wireless remote controller are transmitted to the signal receiver.

Low operation sound level CDXS25 CDXS35

	DXS25	FDXS35	FDXS50	FDXS60
35/3	1/29 dB (A)	35/31/29 dB	(A) 37/33/31 dB (A)	38/34/32 dB (A)

(H/L/SL)

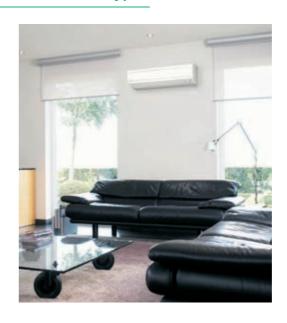
- Home Leave Operation prevents large rises or falls in the indoor temperature by continuing operation* while you are sleeping or out of your home. This means that an air-conditioned welcome awaits when you wake or return. It also means that the indoor temperature can quickly return to your favourite comfort setting.
- * Home Leave Operation can be selected for any temperature from 18 to 32°C for cooling operation and 10 to 30°C for heating operation.
- Home Leave Operation function must be set using the remote controller when going to sleep or leaving the house, and after waking up or returning



- 1. To prevent an increase in operation noise, avoid installing the air suction grille directly below the suction chamber.
- 2. Grilles, piping connections, ducts, and installation parts should be obtained
- locally. Slim Ceiling Mounted Duct type models do not have drain-up pumps.

 3. The signal receiver unit must be located near the air suction inlet, because the

Wall Mounted Type



FTXS20D / FTXS25E / FTXS35E



FTXS50F / FTXS60F / FTXS71F





* Remote controllers other than the standard accessory wireless remote controller cannot be used.

Stylish flat panel harmonises with your interior décor

•Wall Mounted indoor units achieve guiet sound levels of 22 dB (A).

(H/L/SL) FTXS20/25 FTXS35 FTXS50 FTXS60 FTXS71 37/25/22 dB (A) 39/26/23 dB (A) 43/34/31 dB (A) 45/36/33 dB (A) 46/37/34 dB (A)

 Intelligent Eye with its infrared sensor automatically controls air conditioner operation according to human movement in a room. When there is no movement, it adjusts the temperature by 2°C for energy savings.



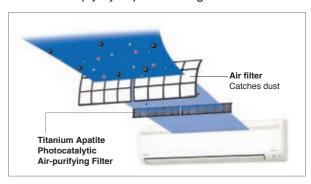
When you are in the room

•3-D Airflow combines Vertical and Horizontal Auto-Swing to circulate air to every part of a room for uniform cooling of even large spaces.

* This function is available for FTKS50/60/71F.



uniform temperature s achieved throughout •Titanium apatite is a photocatalytic material with high adsorption power. Titanium apatite also effectively adsorbs and decomposes bacteria across its entire surface. The photocatalyst is activated simply by exposure to light.



These filters are not medical devices. Benefits such as the adsorption and decomposition of bacteria are only effective for substances that are collected on and in direct contact with the Titanium Apatite Photocatalytic Air-Purifying Filter.

Bacteria Removal Test Testing method: dropping method Result certificate: No. 012553-1 and 012553-2 Testing organisation: Japan Spinners Inspecting Foundation



Ceiling Mounted Cassette (Round Flow with Sensing) Type



	MODE	EL.		FXFQ25SVM	FXFQ32SVM	FXFQ40SVM	FXFQ50SVM	FXFQ63SVM	FXFQ80SVM	FXFQ100SVM	FXFQ125SVM	
Power supp	ly			1-phase, 220-240 V/220-230 V, 50/60 Hz								
			kcal/h	2,400	3,100	3,900	4,800	6,100	7,700	9,600	12,000	
Cooling cap	acity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	
			kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	
			kcal/h	2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800	
· · · / —			Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600	
			kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
Power	С	ooling	kW	0.031	0.031	0.041	0.080	0.095	0.095	0.194	0.219	
consumption	ı H	leating	kW	0.027	0.027	0.037	0.075	0.090	0.090	0.180	0.199	
Casing				Galvanised steel plate								
Airflow roto	(LL/NA/L.)	,	m³/min	12.5/11.5/10.0	12.5/11.5/10.0	14.5/13.0/11.0	22.0/17.5/13.5	23.5/18.5/13.5	23.5/19.5/15.0	33.0/26.0/19.0	34.5/27.5/21.0	
Airflow rate	(.)	cfm	441/406/353	441/406/353	512/459/388	777/618/477	830/653/477	830/688/530	1,165/918/671	1,218/971/741	
Sound level	(H/M/L)		dB(A)	30/28.5/27	30/28.5/27	31/29/27	36/32/28	38/33/28	38/35/31	44/38/32	45/40/35	
Dimensions	(H×W×I	D)	mm	246×840×840 288×840×8					40×840			
Machine we	ight		kg		19			23		2	26	
	Liquid ((Flare)		∮ 6.4				<i>ϕ</i> 9.5				
Piping connections	Gas (Fl	lare)	mm		<i>ϕ</i> 1	2.7			ϕ^{*}	15.9		
COILLECTIONS	Drain					VP25 (E	xternal Dia,	32/Internal	Dia, 25)			
	Model			BYCQ125B-W1								
Panel	Colour				Fresh white							
(Option)	Dimensions	s(H×W×D)	mm				50×95	0×950				
	Weight		kg				5	.5				

Ceiling Mounted Cassette (Round Flow) Type



	MOD	EL		FXFQ25LUV1	FXFQ32LUV1	FXFQ40LUV1	FXFQ50LUV1	FXFQ63LUV1	FXFQ80LUV1	FXFQ100LUV1	FXFQ125LUV1
Power supp	ly					1-	phase, 220-	240 V, 50 H	·Ιz		
			kcal/h	2,400	3,100	3,900	4,800	6,100	7,700	9,600	12,000
Cooling cap	acity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800
	kW			2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
kcal/h			kcal/h	2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800
Heating cap	acity		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600
	kW			3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Power consum	nntion	Cooling	kW	0.033	0.033	0.047	0.052	0.066	0.093	0.187	0.209
Power consur	iiptiori –	Heating	kW	0.027	0.027	0.034	0.038	0.053	0.075	0.174	0.200
Casing				Galvanised steel plate							
Airflow rate	/பப/ப	1/1.)	m³/min	13/11.5/10	13/11.5/10	15/13/11	16/13.5/11	19/16.5/13.5	21/18/15	32/26/20	33/28/22.5
Alfilow rate	(ПП/П	/L)	cfm	459/406/353	459/406/353	530/459/388	565/477/388	671/583/477	742/636/530	1,130/918/706	1,165/989/794
Sound level	(HH/H	/L)	dB(A)	30/28.5/27	30/28.5/27	31/29/27	32/29.5/27	34/31/28	36/33.5/31	43/37.5/32	44/39/34
Dimensions	(H×W>	kD)	mm			246x8	40×840			288×8	40×840
Machine we	ight		kg	19.5			22 25			5	
5	Liquid	(Flare)		φ6.4				φ9.5			
Piping connections	Gas (I	Flare)	mm		φ1:	2.7			φ	15.9	
CONTICCTIONS	Drain					VP25 (E	xternal Dia,	32/Internal	Dia, 25)		
	Model	l		BYCP125K-W1							
Panel	Colour			Fresh white							
(Option)	Dimensio	ns(H×W×D)	mm				50×95	0×950			
	Weigh	nt	kg				5.	.5			

Note: Specifications are based on the following conditions;

'Cooling: Indoor temp.: 27°CDB, 19°CWB / inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.

'Heating: Indoor temp.: 20°CDB / inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.

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

(See Engineering Data Book for details.)

'Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Ceiling Mounted Cassette (Compact Multi Flow) Type



	MODE	=1		FXZQ20MVE	FXZQ25MVE	FXZQ32MVE	FXZQ40MVE	FXZQ50MVE			
Power supp						220-240 V/220 V,					
			kcal/h	1,900	2,400	3,100	3,900	4,800			
Cooling cap	acity		Btu/h	7,500 9,600		12,300	15,400	19,100			
			kW	2.2	2.8	3.6	4.5	5.6			
			kcal/h	2,200	2,800	3,400	4,300	5,400			
Heating capacity Btu/h kW			Btu/h	8,500	10,900	13,600	17,100	21,500			
			kW	2.5	3.2	4.0	5.0	6.3			
Power consumption Cooli		ooling	kW	0.0	73	0.076	0.089	0.115			
Heating			kW	0.0	064	0.068	0.080	0.107			
Casing					Galvanised steel plate						
Airflow rate	(H/I)		m³/min	9/	7	9.5/7.5	11/8	14/10			
7 IIIIOW Tate	(I I/L)		cfm	318/247		335/265	388/282	493/353			
Sound level (H/L)	230 V, 5 240 V, 5		dB(A)	30/25	-32/26	32/26-34/28	36/28-37/29	41/33-42/35			
Dimensions	(H×W×E	D)	mm	286×575×575							
Machine we	eight		kg	18							
B: :	Liquid (F	-lare)		φ6.4							
Piping connections	Gas (Fla	are)	mm			<i>ϕ</i> 12.7					
COMMECTIONS	Drain		ĺ		VP20 (Ext	ernal Dia, 26/Interr	nal Dia, 20)				
	Model		BYFQ60B3W1								
Panel	Colour		White (6.5Y9.5/0.5)								
(Option)	Dimensions((HxWxD)	mm			55×700×700					
	Weight		kg			2.7	·-				

4-Way Flow Ceiling Suspended Type



	MODEL		FXUQ71AVEB	FXUQ100AVEB			
Power supply	y		1-phase, 220-240 V	//220-230 V, 50/60 Hz			
		kcal/h	6,900	9,600			
Cooling capa	Cooling capacity		27,300	38,200			
		kW	8.0	11.2			
		kcal/h	7,700	10,800			
Heating capa	acity	Btu/h	30,700	42,700			
		kW	kW 9.0 12.5				
Power consump	Cooling	kW	0.090	0.200			
rowel consum	Heating	kW	0.073	0.179			
Casing			Fresh white				
Airflow rate	(H/M/L)	m³/min	22.5/19.5/16	31/26/21			
All llow rate	(1 1/1V1/L)	cfm	794/688/565	1,094/918/741			
Sound level ((H/M/L)	dB(A)	40/38/36	47/44/40			
Dimensions ((H×W×D)	mm	198×9	950×950			
Machine wei	Machine weight		26	27			
Liquid (Flare)			ϕ	9.5			
Piping connections	Gas (Flare)	mm	φ 1	15.9			
	Drain		VP20 (External Dia	ı, 26/Internal Dia, 20)			

Note: Specifications are based on the following conditions;

*Cooling: Indoor temp.: 27°CDB, 19°CWB / inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.

*Heating: Indoor temp.: 20°CDB / inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.

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

(See Engineering Data Book for details.)

*Sound level: (FXZQ-M) Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit center.

(FXUQ-A) 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.

Ceiling Mounted Cassette (Double Flow) Type



	MOE	DEL		FXCQ20MVE	FXCQ25MVE	FXCQ32MVE	FXCQ40MVE	FXCQ50MVE	FXCQ63MVE	FXCQ80MVE	FXCQ125MVE	
Power supp	ly				Į.	1-phas	e, 220-240	V/220 V, 50	/60 Hz	ļ		
			kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	7,700	12,000	
Cooling cap	Cooling capacity Btu/h		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	
			kcal/h	2,200	2,800	3,400	4,300	5,400	6,900	8,600	13,800	
Heating cap	acity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100	54,600	
			kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0	
Power consur	nntion	Cooling	kW	0.077	0.092	0.092	0.130	0.130	0.161	0.209	0.256	
Power consur	приоп	Heating	kW	0.044	0.059	0.059	0.097	0.097	0.126	0.176	0.223	
Casing					Galvanised steel plate							
A :()	/1.1/1.3		m³/min	7/5	9/6.5	9/6.5	12/9	12/9	16.5/13	26/21	33/25	
Airflow rate	(H/L)		cfm	247/177	318/230	318/230	424/318	424/318	582/459	918/741	1,165/883	
0	/11/13	220 V	٩٥/٨)	32/27	34/28	34/28	34/29	34/29	37/32	39/34	44/38	
Sound level	(H/L)	240 V	dB(A)	34/29	36/30	36/30	37/32	37/32	39/34	41/36	46/40	
Dimensions	(H×V	/×D)	mm	305×775×600	305×775×600	305×775×600	305×990×600	305×990×600	305×1,175×600	305×1,665×600	305×1,665×600	
Machine we	eight		kg	26.0	26.0	26.0	31.0	32.0	35.0	47.0	48.0	
	Liquid	d (Flare)		<i>ϕ</i> 6.4	<i>ϕ</i> 6.4	<i>ϕ</i> 6.4	φ6.4	<i>ϕ</i> 6.4	φ9.5	<i>∲</i> 9.5	φ9.5	
Piping connections	Gas (Flare)	mm	<i>∲</i> 12.7	φ12.7	<i>∲</i> 12.7	<i>∲</i> 12.7	<i>∲</i> 12.7	<i>ϕ</i> 15.9	<i>∲</i> 15.9	<i>\$</i> 15.9	
COMMECTIONS	Drain					VP25 (E	xternal Dia,	32/Internal	Dia, 25)			
	Mode	el		В	YBC32G-W	/1	BYBC5	0G-W1	BYBC63G-W1	1 BYBC125G-W1		
Panel	Color	ır					White (1	0Y9/0.5)				
(Option)	Dimens	ions(H×W×D)	mm	53×1,030×680	53×1,030×680	53×1,030×680	53×1,245×680	53×1,245×680	53×1,430×680	53×1,920×680	53×1,920×680	
	Weig	ht	kg	8.0	8.0	8.0	8.5	8.5	9.5	12.0	12.0	

Ceiling Mounted Cassette Corner Type



	MOE	DEL		FXKQ25MAVE	FXKQ32MAVE	FXKQ40MAVE	FXKQ63MAVE
Power supp	oly				1-phase, 220-240	V/220 V, 50/60 Hz	
			kcal/h	2,400	3,100	3,900	6,100
Cooling cap	acity		Btu/h	9,600	12,300	15,400	24,200
		kW	2.8	3.6	4.5	7.1	
			kcal/h	2,800	3,400	4,300	6,900
Heating cap	oacity		Btu/h	10,900	13,600	17,100	27,300
			kW	3.2	4.0	5.0	8.0
Power consur	mntion	Cooling	kW	0.066	0.066	0.076	0.105
rower consul	приоп	Heating	kW	0.046	0.046	0.056	0.085
Casing	·				Galvanised	steel plate	
Airflow rate	. /1.1/1.\		m³/min	11/9	11/9	13/10	18/15
Allilow rate	* (□/L)		cfm	388/318	388/318	459/353	635/530
0	/11/13	220 V	dB(A)	38/33	38/33	40/34	42/37
Sound level	(H/L)	240 V	UD(A)	40/35	40/35	42/36	44/39
Dimensions	(H×V	/×D)	mm	215×1,110×710	215×1,110×710	215×1,110×710	215×1,310×710
Machine we	eight		kg	31	31	31	34
Dining	Liquid	d (Flare)		<i>ϕ</i> 6.4	φ 6.4	<i>ϕ</i> 6.4	<i>ϕ</i> 9.5
Piping connections	Gas (Flare)	mm	φ 12.7	φ 12.7	<i>ϕ</i> 12.7	φ 15.9
00111100110110	Drain				VP25 (External Dia,	32/Internal Dia, 25)	
Model				BYK45FJW1		BYK71FJW1	
Panel	Color	ır			White (1	0Y9/0.5)	
(Option)	Dimensi	ions(H×W×D)	mm	70×1,240×800	70×1,240×800	70×1,240×800	70×1,440×800
	Weigl	ht	kg	8.5	8.5	8.5	9.5

Note: Specifications are based on the following conditions;

*Cooling: Indoor temp.: 27°CDB, 19°CWB / inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.

*Heating: Indoor temp.: 20°CDB / inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.

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

(See Engineering Data Book for details.)

*Sound level: (FXCQ-M) Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

(FXKQ-MA) Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.

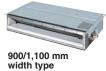
During actual operation, these values are normally somewhat higher as a result of ambient conditions

Slim Ceiling Mounted Duct Type



700 mm width type

MODE	with drai	n pump	FXDQ20PBVE	FXDQ25PBVE	FXDQ32PBVE		
MODE	without di	ain pump	FXDQ20PBVET	FXDQ25PBVET	FXDQ32PBVET		
Power suppl	у		1-p	phase, 220-240 V/220 V, 50/60	Hz		
		kcal/h	1,900	2,400	3,100		
Cooling capa	acity	Btu/h	7,500	9,600	12,300		
		kW	2.2 2.8		3.6		
		kcal/h	2,200	2,800	3,400		
Heating capacity		Btu/h	8,500	10,900	13,600		
		kW	2.5 3.2		4.0		
Power consumption Cooling		kW	0.086	0.086	0.089		
(FXDQ-PBVE)	*1 Heating	kW	0.067	0.067	0.070		
Power consum		kW	0.067	0.067	0.070		
(FXDQ-PBVET)*1 Heating	kW	0.067 0.067		0.070		
Casing			Galvanised steel plate				
۸: ۱۰۰۰ ۱۰۰۰ ۱۰۰۰ ۱۰۰۰ ۱۰۰۰ ۱۰۰۰ ۱۰۰۰ ۱۰	(1.11.17.17.1	m₃/min	8.0/7.2/6.4	8.0/7.2/6.4	8.0/7.2/6.4		
Airflow rate	(HH/H/L)	cfm	282/254/226	282/254/226	282/254/226		
External stati	c pressure	Pa		30-10 ^{*2}			
Sound level	(HH/H/L)*1*3	dB(A)	28/2	6/23	28/26/24		
Dimensions	(H×W×D)	mm	200×700×620	200×700×620	200×700×620		
Machine wei	ght	kg	23.0	23.0	23.0		
	Liquid (Flare)		φ6.4	φ6.4	φ6.4		
Piping connections	Gas (Flare)	mm	φ12.7	<i>ϕ</i> 12.7	φ12.7		
COMPOSITION	Drain		VP2	20 (External Dia, 26/Internal Dia,	20)		



MODE	with drain	n pump	FXDQ40NBVE	FXDQ50NBVE	FXDQ63NBVE				
MODE	without dr	ain pump	FXDQ40NBVET	FXDQ50NBVET	FXDQ63NBVET				
Power suppl	ly		1-phase, 220-240 V/220 V, 50/60 Hz						
		kcal/h	3,900	4,800	6,100				
Cooling capa	acity	Btu/h	15,400	19,100	24,200				
		kW	4.5	5.6	7.1				
		kcal/h	4,300	5,400	6,900				
Heating capa	acity	Btu/h	17,100	21,500	27,300				
		kW	5.0	6.3	8.0				
Power consum		kW	0.160	0.165	0.181				
(FXDQ-PBVE)	*1 Heating	kW	0.147	0.152	0.168				
Power consum		kW	0.147	0.152	0.168				
(FXDQ-PBVET	Γ)*1 Heating	kW	0.147	0.152	0.168				
Casing			Galvanised steel plate						
Airflow rate	. /ШШ/Ш/ \	m₃/min	10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0				
All llow rate	: (HH/H/L)	cfm	371/335/300	441/388/353	583/512/459				
External stati	ic pressure	Pa		44-15 ^{*2}					
Sound level	(HH/H/L)*1*3	dB(A)	30/28/26	33/30/27	33/31/29				
Dimensions	(H×W×D)	mm	200×900×620	200×900×620	200×1,100×620				
Machine wei	ight	kg	27.0	28.0	31.0				
	Liquid (Flare)		<i>ϕ</i> 6.4	φ6.4	\$\phi\$ 9.5				
Piping connections	Gas (Flare)	mm	∮ 12.7	<i>ф</i> 12.7	<i>∲</i> 15.9				
00111100110110	Drain		VP2	0 (External Dia, 26/Internal Dia,	20)				

Note: Specifications are based on the following conditions;
-Cooling: Indoor temp.: 27°CDB, 19°CWB / inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
-Heating: Indoor temp.: 20°CDB / inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
-Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity of indoor. (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 *1: Values are based on the following conditions: FXDQ-PB: external static pressure of 10 Pa; FXDQ-NB: external static pressure of 15 Pa.

*2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ-PB models and 15 Pa for FXDQ-NB models.)

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

Middle Static Pressure Ceiling Mounted Duct Type



	MODE	L		FXSQ20PVE	FXSQ25PVE	FXSQ32PVE	FXSQ40PVE	FXSQ50PVE		
Power suppl	ly			1-phase, 220-240 V/220 V, 50/60 Hz						
			kcal/h	1,900	2,400	3,100	3,900	4,800		
Cooling capacity Btu		Btu/h	7,500	9,600	12,300	15,400	19,100			
	kW			2.2	2.8	3.6	4.5	5.6		
kcal/h			kcal/h	2,200	2,800	3,400	4,300	5,400		
Heating capa	acity		Btu/h	8,500	10,900	13,600	17,100	21,500		
			kW	2.5	3.2	4.0	5.0	6.3		
Danier aanaiim	C	ooling	kW	0.05	58 *1	0.066 *1	0.101*1	0.075*1		
Power consum		eating	kW	0.053 *1 0.061 *1			0.096*1	0.070*1		
Casing	<u>'</u>			Galvanised steel plate						
Airflow roto	/L L/N/L/L)	`	m³/min	9/7.5/6.5	9/7.5/6.5	9.5/8/7	15/12.5/10.5	17/14.5/11.5		
Airflow rate	(/)	cfm	318/265/230	318/265/230	335/282/247	530/441/371	600/512/406		
External stat	ic press	sure	Pa		50-150 (50)*2					
Sound level (H/M/L)		dB(A)	33/3	0/28	34/32/30	36/33/30	34/32/29		
Dimensions	(H×W×I	D)	mm		245X550X800		245X700X800	245×1,000×800		
Machine weight		kg	25			27	35			
Liquid (Flare)		Flare)				φ 6.4				
Piping connections	Gas (Fla	are)	mm			φ 12.7				
	Drain				VP25 (Exte	ernal Dia, 32/Intern	nal Dia, 25)			

	MODEL		FXSQ63PVE	FXSQ80PVE	FXSQ100PVE	FXSQ125PVE	FXSQ140PVE			
Power supp	ly			1-phase,	220-240 V/220 V,	50/60 Hz				
		kcal/h	6,100	7,700	9,600	12,000	13,800			
Cooling cap	acity	Btu/h	24,200	30,700	38,200	47,800	54,600			
kW		7.1	9.0	11.2	14.0	16.0				
kcal/h			6,900	8,600	10,800	13,800	15,500			
Heating cap	acity	Btu/h	27,300	34,100	42,700	54,600	61,400			
k¹		kW	8.0	10.0	12.5	16.0	18.0			
Dower concur	Coo	ing kW	0.106 *1	0.126 *1	0.151*1	0.206 *1	0.222*1			
Power consur	Hea	ing kW	0.101 *1	0.121 *1	0.146*1	0.201 *1	0.217*1			
Casing				Galvanised steel plate						
Airflow roto	(1.1/N.4/1.)	m³/mir	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26	39/33.5/28			
Airflow rate	(H/IVI/L)	cfm	741/618/512	812/688/565	1,130/953/794	1,306/1,112/918	1,377/1,183/988			
External sta	tic pressure	e Pa		50-15	50 (50)* ²		50-140 (50)*2			
Sound level	(H/M/L)	dB(A)	36/32/29	37.5/34/30	39/35/32	42/38.5/35	43/40/36			
Dimensions	(H×W×D)	mm	245×1,	000×800	245×1,4	400×800	245×1,550×800			
Machine weight k		kg	35	37	46	47	52			
Liquid (re)			<i>φ</i> 9.5					
Piping connections	Gas (Flare) mm			φ 15.9					
3330110110	Drain			VP25 (Ext	ernal Dia, 32/Intern	al Dia, 25)				

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB / inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
 Heating: Indoor temp.: 20°CDB / inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)

- (See Engineering Data Book for details.)

 *Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

 *1: Power consumption value is the value when airflow rate is maximum at maximum external static pressure position.

 *2: External static pressure can be modified using a remote controller that offers thirteen (FXSQ20-40P), eleven (FXSQ50-125P) or ten (FXSQ140P) levels of control. These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa pressure is 50 Pa.

Ceiling Mounted Duct Type



	MODE	EL		FXMQ20PVE	FXMQ25PVE	FXMQ32PVE	FXMQ40PVE	FXMQ50PVE		
Power suppl	у			1-phase, 220-240 V/220 V, 50/60 Hz						
			kcal/h	1,900	2,400	3,100	3,900	4,800		
Cooling capa	Cooling capacity E		Btu/h	7,500	9,600	12,300	15,400	19,100		
			kW	2.2	2.8	3.6	4.5	5.6		
			kcal/h	2,200	2,800	3,400	4,300	5,400		
Heating capa	acity		Btu/h	8,500	10,900	13,600	17,100	21,500		
			kW	2.5	3.2	4.0	5.0	6.3		
Dawar aanaum	C	ooling	kW	0.056 *1	0.056*1	0.060 *1	0.151*1	0.128*1		
Power consum	ption	eating	kW	0.044 *1	0.044 *1	0.048 *1	0.139*1	0.116*1		
Casing				Galvanised steel plate						
Airflow rate	/⊔⊔/⊔/	/L \	m³/min	9/7.5/6.5	9/7.5/6.5	9.5/8/7	16/13/11	18/16.5/15		
All llow rate	(ПП/П/	L)	cfm	318/265/230	318/265/230	335/282/247	565/459/388	635/582/530		
External stat	ic press	sure	Pa	30-100 (50)*2	30-100 (50)*2	30-100 (50)*2	30-160 (100)*2	50-200 (100)* ²		
Sound level (HH/H/L))	dB(A)	33/31/29	33/31/29	34/32/30	39/37/35	41/39/37		
Dimensions	(H×W×	D)	mm	300X550X700	300X550X700	300X550X700	300X700X700	300×1,000×700		
Machine weight		kg	25	25	25	28	36			
	Liquid (Flare)		φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 6.4		
Piping connections	Gas (FI	are)	mm	φ12.7	φ12.7	φ 12.7	φ12.7	<i>ϕ</i> 12.7		
	Drain				VP25 (Exte	ernal Dia, 32/Intern	al Dia, 25)			

- 1	MOI	DEL		FXMQ63PVE	FXMQ80PVE	FXMQ100PVE	FXMQ125PVE	FXMQ140PVE		
Power supply	у			1-phase, 220-240 V/220 V, 50/60 Hz						
			kcal/h	6,100	7,700	9,600	12,000	13,800		
Cooling capacity		Btu/h	24,200	30,700	38,200	47,800	54,600			
k¹		kW	7.1	9.0	11.2	14.0	16.0			
ko		kcal/h	6,900	8,600	10,800	13,800	15,500			
Heating capa	acity		Btu/h	27,300	34,100	42,700	54,600	61,400		
			kW	8.0	10.0	12.5	16.0	18.0		
Daar aana	-4:	Cooling	kW	0.138 *1	0.185*1	0.215 *1	0.284 *1	0.405 *1		
Power consump	plion	Heating	kW	0.127 *1	0.173*1	0.203 *1	0.272 *1	0.380 *1		
Casing				Galvanised steel plate						
Airflow rate (/பப/	Ц/Ι\	m³/min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32		
Allilow rate ((ПП/	п/L)	cfm	688/618/565	883/794/706	1,130/953/812	1,377/1,165/988	1,624/1,377/1,130		
External station	c pre	essure	Pa	50-200 (100)*2	50-200 (100)*2	50-200 (100)*2	50-200 (100)* ²	50-140 (100)*2		
Sound level (H	НН/Н	/L)	dB(A)	42/40/38	43/41/39	43/41/39	44/42/40	46/45/43		
Dimensions (H×W×D)		mm	300×1,000×700	300×1,000×700	300×1,400×700	300×1,400×700	300×1,400×700			
Machine weight		kg	36	36	46	46	47			
Piping connections			φ9.5	φ 9.5	φ 9.5	<i>∮</i> 9.5	φ 9.5			
		(Flare)	mm	φ15.9	φ 15.9	φ 15.9	φ 15.9	φ 15.9		
		1			VP25 (Exte	ernal Dia, 32/Intern	al Dia, 25)	·		

- Note: Specifications are based on the following conditions;

 *Cooling: Indoor temp.: 27°CDB, 19°CWB / inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.

 *Heating: Indoor temp.: 20°CDB / inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.

 *Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
- (See Engineering Data Book for details.)

- (See Engineering Data Book for details.)

 •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

 ★1: Power consumption values are based on conditions of rated external static pressure.

 ★2: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32P), thirteen (FXMQ40P), fourteen (FXMQ50-125P) or ten (FXMQ140P) levels of control. These values indicate the lowest and highest possible static pressures. The standard static pressure is 50 Pa for FXMQ20-32P and 100 Pa for FXMQ40-140P.

Specifications

VRV Indoor Units

Ceiling Mounted Duct Type



	MODEL		FXMQ200MVE9	FXMQ250MVE9				
Power supp	ly		1-phase, 220-240 \	//220 V, 50/60 Hz				
		kcal/h	19,300	24,100				
Cooling capa	acity	Btu/h	76,400	95,500				
			22.4	28.0				
		kcal/h	21,500	27,100				
Heating cap	acity	Btu/h	85,300	107,500				
		kW	25.0	31.5				
D	Cooling	kW	1.294 *1	1.465*1				
Power consum	Heating	kW	1.294 *1	1.465 ^{*1}				
Casing			Galvanised s	Galvanised steel plate				
Airflow rate	/U/L)	m³/min	58/50	72/62				
All llow rate	(11/L)	cfm	2,047/1,765	2,542/2,189				
External stat	ic pressure	Pa	132-221* ²	191-270* ²				
0	220 V	JD(A)	48/45	48/45				
Sound level	(H/L) 240 V	dB(A)	49/46	49/46				
Dimensions	(H×W×D)	mm	470×1,380×1,100	470×1,380×1,100				
Machine we	ight	kg	137	137				
	Liquid (Flare)		φ 9.5	φ 9.5				
Piping connections	Gas (Brazing)	mm	φ19.1	φ 22.2				
	Drain		PS1	В				

Ceiling Suspended Type



	MODEL		FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE			
Power supp	ly		1-	phase, 220-240 V/220 V, 50/60	Hz			
		kcal/h	3,100	6,100	9,600			
Cooling cap	acity	Btu/h	12,300	24,200	38,200			
		kW	3.6	7.1	11.2			
		kcal/h	3,400	6,900	10,800			
Heating cap	acity	Btu/h	13,600	27,300	42,700			
		kW	4.0	8.0	12.5			
Power consun	Coolin	g kW	0.111	0.115	0.135			
rowel collsul	Heatin	g kW	0.111	0.115	0.135			
Casing			White (10Y9/0.5)					
Airflow rate	, (H/I)	m³/min	12/10	17.5/14	25/19.5			
All llow rate	: (I I/L)	cfm	424/353	618/494	883/688			
Sound level	(H/L)	dB(A)	36/31	39/34	45/37			
Dimensions	(H×W×D)	mm	195×960×680	195×1,160×680	195×1,400×680			
Machine we	eight	kg	24.0	28.0	33.0			
	Liquid (Flare)	φ6.4	<i>ϕ</i> 9.5	φ9.5			
Piping connections	Gas (Flare)	mm	<i>ϕ</i> 12.7	<i>ϕ</i> 15.9	φ15.9			
	Drain		VP2	0 (External Dia, 26/Internal Dia	a, 20)			

- Note: Specifications are based on the following conditions;

 Cooling: Indoor temp.: 27°CDB, 19°CWB / inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.

 Heating: Indoor temp.: 20°CDB / inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.

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

 (See Engineering Data Book for details.)
 Sound level: (FXMQ-M) 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".

Wall Mounted Type



							I			
	MO	DEL		FXAQ20PVE	FXAQ25PVE	FXAQ32PVE	FXAQ40PVE	FXAQ50PVE	FXAQ63PVE	
Power supp	ly			1-phase, 220-240 V/220 V, 50/60 Hz						
			kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	
Cooling cap	Cooling capacity Btu/h		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	
			kcal/h	2,200	2,800	3,400	4,300	5,400	6,900	
Heating cap	acity		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	
D	4:	Cooling	kW	0.019	0.028	0.030	0.020	0.033	0.050	
Power consun	nption	Heating	kW	0.029	0.034	0.035	0.020	0.039	0.060	
Casing	•			White (3.0Y8.5/0.5)						
Airflow rate	(H/I	\	m³/min	7.5/4.5	8/5	8.5/5.5	12/9	15/12	19/14	
All llow rate	; (I I/L	,	cfm	265/159	282/177	300/194	424/318	530/424	671/494	
Sound level	(H/L)		dB(A)	35/31	36/31	38/31	39/34	42/37	47/41	
Dimensions	(H×V	V×D)	mm	290×795×238	290×795×238	290×795×238	290×1,050×238	290×1,050×238	290×1,050×238	
Machine weight		kg	11.0	11.0	11.0	14.0	14.0	14.0		
	Liquid	d (Flare)		<i>ϕ</i> 6.4	<i>ϕ</i> 6.4	φ6.4	<i>ϕ</i> 6.4	<i>ϕ</i> 6.4	<i>ϕ</i> 9.5	
Piping connections	Gas ((Flare)	mm	φ12.7	φ12.7	φ12.7	φ12.7	φ12.7	<i>∲</i> 15.9	
2330410110	Drain	1			VP1	3 (External Dia,	18/Internal Dia	, 13)		

Floor Standing Type/Concealed Floor Standing Type





	MODEL			FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE
	IVIOL	/LL		FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE
Power supply	y				1-p	hase, 220-240	V/220 V, 50/60	Hz	
			kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
Cooling capa	city		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		
			kcal/h	2,200	2,200 2,800		4,300	5,400	6,900
Heating capa	city		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
Dower concum	ation	Cooling	kW	0.049	0.049	0.090	0.090	0.110	0.110
Power consumption Heating kW				0.049	0.049	0.090	0.090	0.110	0.110
Casing					FXLQ: Ivory w	hite (5Y7.5/1)/F	XNQ: Galvanis	sed steel plate	
Airflow rate	(LI/I)		m³/min	7/6	7/6	8/6	11/8.5	14/11	16/12
All llow rate	(I I/L)		cfm	247/212	247/212	282/212	388/300	494/388	565/424
Sound level (шл	220 V	dB(A)	35/32	35/32	35/32	38/33	39/34	40/35
Souria level (11/2)	240 V	ub(A)	37/34	37/34	37/34	40/35	41/36	42/37
Dimensions		FXLQ	mm	600×1,000×222	600×1,000×222	600×1,140×222	600×1,140×222	600×1,420×222	600×1,420×222
(H×W×D)		FXNQ	111111	610×930×220	610×930×220	610×1,070×220	610×1,070×220	610×1,350×220	610×1,350×220
Machine wei	aht	FXLQ	kg	25.0	25.0	30.0	30.0	36.0	36.0
Maciline wei	giit	FXNQ	ĸy	19.0	19.0	23.0	23.0	27.0	27.0
		d (Flare)		<i>ϕ</i> 6.4	<i>ϕ</i> 6.4	<i>ϕ</i> 6.4	<i>ϕ</i> 6.4	φ6.4	<i>∲</i> 9.5
Piping connections	Gas	(Flare)	mm	φ12.7	φ12.7	φ12.7	φ12.7	φ12.7	<i>ϕ</i> 15.9
COMINICATION	Drain	1				210	D.D.		

Note: Specifications are based on the following conditions;

- •Cooling: Indoor temp.: 27°CDB, 19°CWB / inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m. •Heating: Indoor temp.: 20°CDB / inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
- (See Engineering Data Book for details.)

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

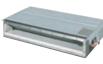
 (FXLQ-MA, FXNQ-MA) Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

secification

Residential indoor units with connection to BP units

Slim Ceiling Mounted Duct Type





	MODEL		CDXS25EAVMA	CDXS35EAVMA	FDXS25CVMA	FDXS35CVMA	FDXS50CVMA	FDXS60CVMA			
Power su	pply			1-phase, 220-240 V/220-230 V, 50/60 Hz							
Airflow ra	tes (H)	m³/min (cfm)	8.7 ((307)	9.5 (335)	9.5 (335) 10.0 (353)		16.0 (565)			
Sound lev	rels (H/L/SL)*	dB (A)		35/3	1/29		37/33/31	38/34/32			
Fan spee	d			5 steps, quiet and automatic							
Temperat	ure control				Microcomp	outer control					
Dimensio	ns (H×W×D)	mm	200×70	200×700×620 200×900×620 200×1							
Machine	weight	kg	2	11	2	5	27	30			
	Liquid (Flare)				φ6.4						
Piping connections	Gas (Flare)	mm	<i>\$</i> 9.5					2.7			
CONTINUENTIA	Drain		VP20 (External Dia. 26/Internal Dia. 20)								
Heat insu	lation		Both liquid and gas pipes								
External	static pressure	Pa	30 40								

Note: * The operation sound level values represent those for rear-suction operation and an external static pressure of 30 Pa for CDXS-EA and 40 Pa for FDXS-C. Sound level values for bottom-suction operation can be obtained by adding 6 dB (A) for CDXS-EA and 5 dB (A) for FDXS-C.

Wall Mounted Type



	MODEL		FTXS20DVMA	FTXS25EVMA	FTXS35EVMA	FTXS50FVMA	FTXS60FVMA	FTXS71FVMA			
Power sup	pply			1-pha	ase, 220-240 V	/220-230 V, 50/	/60 Hz				
Front pan	el colour		White								
Airflow rat	es Cooling	m3/min (cfm)	8.7 ((307)	8.9 (314)	14.7 (519)	16.2 (572)	17.4 (614)			
(H)	Heating	7119/111111 (GIIII)		9.4 (332)		16.2 (572)	17.4 (614)	21.5 (759)			
Sound lev	els Cooling	dB (A)	37/25/22		39/26/23	43/34/31	45/36/33	46/37/34			
(H/L/SL)	Heating	UB (A)	37/28/25		38/29/26	42/33/30	44/35/32	46/37/34			
Fan speed	t				5 steps, quiet	and automatic					
Temperat	ure control				Microcomp	uter control					
Dimension	ns (H×W×D)	mm		283×800×195			290×1,050×238	3			
Machine v	veight	kg		9			12				
Piping	Liquid (Flare)				φ6	5.4					
connections Gas (Flare) mm			<i>ф</i> 9.5		<i>\$</i> 12.	.7	<i>ф</i> 15.9				
	Drain]	φ18.0								
Heat insul	ation		Both liquid and gas pipes								

BP Units for connection to residential indoor units





	MO	DEL		BPMKS967A3	BPMKS967A2				
Power su	pply			1-phase, 220-240 V/2	20-230 V, 50/60 Hz				
Number o	of ports			3 (connectable to 1-3 indoor units)	2 (connectable to 1-2 indoor units)				
Power co	nsumptio	on	W	10					
Running of	current		Α	0.00	5				
Dimensio	ns (H×W	/×D)	mm	180×294 (+356*)×350					
Machine	weight		kg	8	7.5				
Number o	of wiring	connecti	ons	3 for power supply (including earth wiring), 2 for 4 for interunit wiring					
	Liquid	Main	mm	φ9.5>	(1				
Piping connections	Liquid	Branch	mm	φ6.4×3	<i>ϕ</i> 6.4×2				
(Brazing)	0	Main	mm	<i>ϕ</i> 19.1	x1				
	Gas	Branch	mm	<i>ϕ</i> 15.9×3	<i>ϕ</i> 15.9×2				
Heat insu	lation			Both liquid and	d gas pipes				
Connecta	ble indo	or units		2.0 kW class to 7.1 kW clas	s residential indoor units				
Min. rated	d capacit	y of or units	kW	2.0					
Max. rated capacity of connectable indoor units			kW	20.8 14.2					

Note: * Total auxiliary piping length.

BS UNITS FOR HEAT RECOVERY

Individual BS Unit



	MOI	DEL		BSQ100AV1	BSQ160AV1	BSQ250AV1				
Power su	pply				1-phase, 220-240 V, 50 Hz	Z				
No. of bra	nches				1					
Total capacity	index of co	onnectab l e indoor	units	20 to 100	20 to 100 More than 100 but 160 or less More than 100 bu					
No. of cor	nectab	le indoor uni	ts	Max. 5	Max. 5 Max. 8 Max. 8					
Casing					Galvanised steel plate					
Dimensions (H×W×D) mm				207×388×326						
	Indoor	Liquid	mm	φ9.5 (Brazing)*1	φ9.5 (Brazing)	φ9.5 (Brazing)				
Distant	Unit	Gas	1111111	φ15.9 (Brazing)*1	φ15.9 (Brazing)*2	φ22.2 (Brazing)*3				
Piping connections	0.11	Liquid		φ9.5 (Brazing)	φ9.5 (Brazing)	φ9.5 (Brazing)				
	Outdoor Unit	Suction gas	mm	φ15.9 (Brazing)	φ15.9 (Brazing) ^{★2}	φ22.2 (Brazing)*3				
	OTIL	High and low pressure gas		φ12.7 (Brazing)	φ12.7 (Brazing)*2	φ19.1 (Brazing)*3				
Machine v	weight		kg	11	11	14				
Sound lev	rel .		dB(A)	35(40)*4 41(45)*4 41(45)*4						

- Notes: ★1. When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)

 ★2. When connecting with indoor units with total capacity indexes 150 or more and 160 or less, connect the attached
 - ★2. When connecting with indoor units with total capacity indexes 150 or more and 160 or less, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)
 - ★3. When connecting with indoor units with a capacity index of 200, or with total capacity indexes more than 160 and less than 200, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)
 - ★4. Figures in brackets () indicate maximum value of transient sound (the change of cooling and heating).
 - Do not install at the place such as bed room. Small sound of refrigerant will be made, which may be disturbing.

Centralised BS Unit



4 branch



16 branch

	MOI	OFI		BS4Q14AV1	BS6Q14AV1	BS8Q14AV1	BS100144V1	BS12Q14AV1	BS160144V1			
Power su				DOTATION		1-phase, 220-			DOTOGTANT			
No. of bra	. ,			4	6	8	10	12	16			
		ble indoor units of	hranch				140					
		nectable indoor		May 400	Max. 400 Max. 600 Max. 750							
' '		door units per b		5								
Casing	ctable in	Joor units bei p	Taricii			Galvanised						
			Ι									
Dimension	ns (H×V	V×D)	mm	298×370×430	298×58	30×430	298×820×430 298×1060×430					
	Indoor	Liquid	mm			φ9.5,φ6.4 Brazing ^{★1}						
	Unit	Gas				φ15.9, φ12.	7 Brazing*1					
Piping		Liquid		φ9.5 Brazing ^{★2}	φ12.7 Brazing ^{★2}	φ12.7 Brazing (φ15.9)★2	φ15.9 Brazing★2	φ15.9 Brazing (φ19.1)*2	φ19.1 Brazing ^{★2}			
connections	Outdoor Unit	Suction gas	mm	φ22.2 Brazing (φ19.1)*2	φ28.6 B	razing*2	φ28.6 Brazii	ng(\$\phi 34.9)*2	φ34.9 Brazing ^{★2}			
		High and low pressure gas		φ19.1 Brazing (φ15.9)*2	φ19.1 Brazing (φ22.2)*2	φ19.1 Brazing (φ22.2,28.6)*2	<i>φ</i> 28.6 Brazing ^{★2}					
Machine v	veight		kg	17	24	26	35	35 38 50				
Sound lev	rel		dB(A)	38(45)*3	39(47) ^{*3}	40(4	8)*3	41(49)*3			
Drain pipe	Orain pipe size mm VP20 (External Dia, 26/Internal Dia, 20)											

- Notes: ★1. When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe. (Braze connection between the attached and field pipe.) In case of others, cut the outlet pipe and connect to the connecting pipe.
 - ★2. Reducer may be required (obtain locally) if joint diameter does not fit on the triple piping side. Figures in brackets () is the size when using the attached reducer. Insulators are necessary (obtain locally) for piping connections on the outdoor unit side.
 - ★3. Figures in brackets () indicate maximum value of transient sound (the change of cooling and heating).Must be installed in locations where the noise generated by the BS unit does not cause any problem.

Outside Unit Combinations

For connection of only VRV indoor units

HP	kW	Capacity index	Model	Combination	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units
6	16.0	150	RWEYQ6T	RWEYQ6T x 1	75 to 195	9
8	22.4	200	RWEYQ8T	RWEYQ8T x 1	100 to 260	13
10	28.0	250	RWEYQ10T	RWEYQ10T × 1	125 to 325	16
12	33.5	300	RWEYQ12T	RWEYQ12T x 1	150 to 390	19
14	38.4	350	RWEYQ14T ^{*1}	RWEYQ6T + RWEYQ8T	175 to 455	22
16	44.8	400	RWEYQ16T*1	RWEYQ8T × 2	200 to 520	26
18	50.4	450	RWEYQ18T ^{*1}	RWEYQ8T + RWEYQ10T	225 to 585	29
20	56.0	500	RWEYQ20T*1	RWEYQ10T × 2	250 to 650	32
22	61.5	550	RWEYQ22T*1	RWEYQ10T + RWEYQ12T	275 to 715	35
24	67.0	600	RWEYQ24T*1	RWEYQ12T x 2	300 to 780	39
26	72.8	650	RWEYQ26T*1	RWEYQ8T × 2 + RWEYQ10T	325 to 845	42
28	78.4	700	RWEYQ28T ^{*1}	RWEYQ8T + RWEYQ10T × 2	350 to 910	45
30	84.0	750	RWEYQ30T*1	RWEYQ10T x 3	375 to 975	48
32	89.5	800	RWEYQ32T*1	RWEYQ10T × 2 + RWEYQ12T	400 to 1,040	52
34	95.0	850	RWEYQ34T*1	RWEYQ10T + RWEYQ12T × 2	425 to 1,105	55
36	101	900	RWEYQ36T*1	RWEYQ12T x 3	450 to 1,170	58

^{*1.} An outside unit multi connection piping kit (option) is necessary for multiple connections of 14 HP systems and above.

For connection of only residential indoor units

Model name ^{⁴¹}	kW	HP	Capacity		ndex of connectal Combination (%)	ole indoor units ^{*2}	Maximum number of connectable indoor units
			IIIuex	80%*2	100%	130%	connectable indoor units
RWEYQ6T	16.0	6 HP	150	120	150	195	9
RWEYQ8T	22.4	8 HP	200	160	200	260	13
RWEYQ10T	28.0	10 HP	250	200	250	325	16
RWEYQ12T	33.5	12 HP	12 HP 300 240 300 390		390	19	

 $^{^{\}star}$ 1. Only single outdoor unit (RWEYQ6-12T) heat pump type can be connected.

^{*2.} Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outside units.

^{*2.} Total capacity index of connectable indoor units must be 80%–130% of the capacity index of the outside unit.

Outside Units

Heat Pump / Heat Recovery

MODEL			RWEYQ6TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ12TYM		RWEYQ14TYM	RWEYQ16TYM	RWEYQ18TYM	RWEYQ20TYM	RWEYQ22TYM	RWEYQ24TYM	
Combination	unite		-	_	_	_		RWEYQ6TYM	RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	
Oombination	uiiito		-	_	_	_		RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM	
Power supply				3-phase 4-wire system, 3	80-415 V/380 V, 50/60 Hz					3-phase 4-wire system, 3	hase 4-wire system, 380-415 V/380 V, 50/60 Hz			
		kcal/h	13,800	19,300	24,100	28,800		33,000	38,500	43,300	48,200	52,900	57,600	
Cooling capacity	y	Btu/h	54,600	76,400	95,500	114,000		131,000	153,000	172,000	191,000	210,000	229,000	
		kW	16.0	22.4	28.0	33.5		38.4	44.8	50.4	56.0	61.5	67.0	
		kcal/h	15,500	21,500	27,100	32,300		37,000	43,000	48,600	54,200	59,300	64,500	
Heating capacity	у	Btu/h	61,400	85,300	107,000	128,000		147,000	171,000	193,000	215,000	235,000	256,000	
		kW	18.0	25.0	31.5	37.5		43.0	50.0	56.5	63.0	69.0	75.0	
Power	Cooling	kW	2.58	3.86	5.43	7.33		6.44	7.72	9.29	10.9	12.8	14.7	
consumption	Heating	kW	2.69	3.98	5.60	7.87		6.67	7.96	9.58	11.2	13.5	15.7	
Casing colour				lvory white	e (5Y7.5/1)			lvory white (5Y7.5/1)						
Dimensions(Hx\	WxD)	mm		1,000 × 7	780 × 550					$(1,000 \times 78)$	0 × 550) × 2			
Compressor	Туре			Hermetically se	ealed scroll type				Hermetically sealed scroll type					
Compressor	Motor output	kW	1.9	2.8	3.7	4.7		1.9 + 2.8	2.8 × 2	2.8 + 3.7	3.7 × 2	3.7 + 4.7	4.7×2	
Refrigerant piping	Liquid					∮12.7 (Flare)		φ12.7	(Flare)	<i>ϕ</i> 15.9	(Flare)	<i>ϕ</i> 19.1	(Flare)	
connections	Suction gas *1	mm	∮19.1 (E	Brazing)	φ22.2 (E	Brazing)				\$\phi 28.6 (I	Brazing)			
Connections	High and low pressure ga	S	φ15.9*2, φ19.	1*3 (Brazing)	φ19.1*2, φ22.	2*3 (Brazing)				φ22.2*2,φ28.	6*3 (Brazing)			
Water piping	Water inlet			PT1 1/4B ir	ntenal thread					(PT1 1/4B) x 1	2 intenal thread			
connections	Water outlet			PT1 1/4B ir	ntenal thread					(PT1 1/4B) × 2	2 intenal thread			
Connections	Drain outlet			PS1/2B int	enal thread					(PS1/2B) x 2	intenal thread			
Machine weight	(Operating weight)	kg	146	(148)	147	(149)		146 × 2	(148 × 2)	146 + 147 (148 + 149)		147 × 2 (149 × 2)		
Sound level		dB(A)	49	50	51	53		5	53		54	55	56	
Operation range	e (Inlet water temp.)	°C		10 t	0 45		10 to 45							
Capacity control	city control % 23-100 19-100					23-100 20-100 19-100								
Refrigerant	Type R-410A						R-410A							
nemyerani	Charge	kg	3	.5	4	2		3.5 + 3.5 3.5 + 4.2 4.2 + 4.2				·		

MODEL			RWEYQ26TYM	RWEYQ28TYM	RWEYQ30TYM	RWEYQ32TYM	RWEYQ34TYM	RWEYQ36TYM			
			RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM			
Combination (units	-	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM			
		-	RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM	RWEYQ12TYM			
Power supply			3-phase	4-wire system, 380-415 V/380 V,	50/60 Hz	3-phase	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				
		kcal/h	62,600	67,400	72,200	77,000					
Cooling capacity		Btu/h	248,000	268,000	287,000	305,000	324,000 345,000				
		kW	72.8	78.4	84.0	89.5	95.0	101			
		kcal/h	70,100	75,700	81,300	86,900	92,000	97,200			
Heating capacity		Btu/h	278,000	300,000	322,000	345,000	365,000	386,000			
		kW	81.5	88.0	94.5	101	107	113			
Power	Cooling	kW	13.2	14.7	16.3	18.2	20.1	22.0			
consumption	Heating	kW	13.6	15.2	16.8	19.1	21.3	23.6			
Casing colour				Ivory white (5Y7.5/1)			Ivory white (5Y7.5/1)				
Dimensions(HxW	/xD)	mm		$(1,000 \times 780 \times 550) \times 3$			$(1,000 \times 780 \times 550) \times 3$				
Compressor	Туре			Hermetically sealed scroll type			Hermetically sealed scroll type				
Compressor	Motor output	kW	$2.8 \times 2 + 3.7$	$2.8 + 3.7 \times 2$	3.7 × 3	$3.7 \times 2 + 4.7$	$3.7 + 4.7 \times 2$	4.7 × 3			
Refrigerant piping	Liquid			∮19.1 (Flare)			∮19.1 (Flare)				
connections	Suction gas *1	mm									
connections	High and low pressure gas			φ28.6*2, φ34.9*3 (Brazing)			\$\phi 28.6*2, \$\phi 34.9*3\$ (Brazing)				
Water piping	Water inlet			(PT1 1/4B) × 3 intenal thread			(PT1 1/4B) × 3 intenal thread				
connections	Water outlet			(PT1 1/4B) × 3 intenal thread			(PT1 1/4B) × 3 intenal thread				
connections	Drain outlet			(PS1/2B) × 3 intenal thread			(PS1/2B) × 3 intenal thread				
Machine weight (Operating weight)	kg	146 × 2 + 147 (148 × 2 + 149)	146 + 147 × 2 (148 + 149 × 2)	147 × 3 (149 × 3)		147 × 3 (149 × 3)				
Sound level		dB(A)	55	5	66	5	57 58				
Operation range	(Inlet water temp.)	°C		10 to 45		10 to 45					
Capacity control		%	21-100	20-100	19-100	19-100					
Refrigerant	Туре			R-410A		R-410A					
neingerant	Charge	kg	3.5 + 3.5 + 4.2	3.5 + 4.2 + 4.2	4.2 + 4.2 + 4.2		4.2 + 4.2 + 4.2				

- Note:

 1. Specifications are based on the following conditions;
 ·Cooling: Indoor temp.: 27°CDB, 19°CWB / inlet
 water temp.: 30°C, Equivalent piping length
 : 7.5 m, Level difference: 0 m.
 ·Heating: Indoor temp.: 20°CDB / inlet water temp.:
 20°C, Equivalent piping length: 7.5 m,
 Level difference: 0 m.

 2. This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).

 3. Hold ambient temperature at 0 40°C and humidity at 80%RH or less. Heat rejection from the casing: 0.51 kW / 6 8 HP / hour, 0.58 kW / 10 12 HP / hour.

 4. Connectable to closed type cooling tower only.
 *1: In the case of heat pump system, suction gas pipe

- 1: In the case of heat pump system, suction gas pipe is not used.
 2: In the case of heat recovery system.
 3: In the case of heat recovery system.
 Be sure to refer to the Engineering Data Book for facility

Ceiling Mounted Cassette (Round Flow with Sensing) Type

No.	Item		Туре	FXFQ25S	FXFQ32S	FXFQ40S	FXFQ50S	FXFQ63S	FXFQ80S	FXFQ100S	FXFQ125S
1	Decoration panel						BYCQ1	25B-W1			
2	Sealing material of air	discharge outlet		KDBHQ55B140							
3	Panel spacer			KDBP55H160FA							
		High efficiency	filter unit 65%	KAFP556C80 KAFP556C							6C160
		High efficiency	filter unit 90%	KAFP557C80						KAFP55	7C160
		Replacement hig	h efficiency filter 65%			KAFP	552B80			KAFP55	52B160
4	Filter related	Replacement hig	h efficiency filter 90%	KAFP553B80 KAF							3B160
7	i iilei reialeu	Filter chamber		KDDFP55C160							
		Long life replac	cement filter	KAFP551K160							
		Ultra long-life f	ilter unit	KAFP55C160							
		Replacement u	ıltra long-life filter	KAFP55H160H							
		Chamber type	Without T-duct joint		KDDQ5	55B140 (Com	ponents: KDI	DP55C160-1,	KDDQ55B14	10-2)*1	
5	Fresh air intake kit	Chamber type	With T-duct joint		KDDP5	5B160K (Con	nponents: KD	DP55C160-1	, KDDP55B1	60K2) *1	
		Direct installati	on type	KDDP55X160A							
6	Branch duct chamber			KDJP55B80 KDJP55B						5B160	
7	Insulation kit for high h	umidity		KDTP55K80 KDTP55K					5K160		
Note: *1. P	lease order using the n	ames of both co	mponents instead	of set name							

Ceiling Mounted Cassette (Round Flow) Type

No.	Item		Туре	FXFQ25LU	FXFQ32LU	FXFQ40LU	FXFQ50LU	FXFQ63LU	FXFQ80LU	FXFQ100LU	FXFQ125LU	
1	Decoration panel			BYCP125K-W1								
2	Sealing material of air of	discharge outlet		KDBH55K160F								
3	Panel spacer						KDBP55	H160FA				
		High efficiency	filter unit 65%	KAFP556C80						KAFP5	556C160	
		High efficiency	filter unit 90%			KAFP	557C80			KAFP5	557C160	
		Replacement hig	h efficiency filter 65%			KAFP	552B80			KAFP5	552B160	
4	Filter related	Replacement hig	h efficiency filter 90%	KAFP553B80 KAFP553B							553B160	
4	I liter related	Filter chamber		KDDFP55C160								
		Long life replac	cement filter	KAFP551K160								
		Ultra long-life f	ilter unit	KAFP55C160								
		Replacement u	Itra long-life filter	KAFP55H160H								
		Chamber type	Without T-duct joint		KDDP	55B160 (Com	ponents: KDI	DP55C160-1,	KDDP55B16	0-2) *1		
5	Fresh air intake kit	Chamber type	With T-duct joint		KDDP5	5B160K (Con	nponents: KD	DP55C160-1	KDDP55B16	60K2) *1		
		on type	KDDP55X160A									
6	Branch duct chamber	Branch duct chamber				KDJP55B80 KDJP55B160						
7	Chamber connection ki	t		KKSJ55KA160								
8	Insulation kit for high hu	umidity		KDTP55K80 KDTP55K160					55K160			

Note: *1. Please order using the names of both components instead of set name.

Ceiling Mounted Cassette (Compact Multi Flow) Type

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

4-Way Flow Ceiling Suspended Type

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

No.	Item Type	FXUQ71A	FXUQ100A
1	Sealing material of air discharge outlet	KDBHP	49B140
2	Decoration panel for air discharge	KDBTP	49B140
3	Replacement long-life filter	KAFP5	51K160

Ceiling Mounted Cassette (Double Flow) Type

No.	Type		FXCQ20M FXCQ25M FXCQ32M	FXCQ40M	FXCQ50M	FXCQ63M	FXCQ80M	FXCQ125M	
1	Decoration panel		BYBC32G-W1	BYBC5	0G-W1	BYBC63G-W1	BYBC1:	25G-W1	
	Filter related	High efficiency fi	Iter 65% ★1	KAFJ532G36	KAFJ5	32G56	KAFJ532G80	KAFJ5	32G160
2		High efficiency fi	Iter 90% ★1	KAFJ533G36	KAFJ5	33G56	KAFJ533G80	KAFJ5	33G160
		Filter chamber	bottom suction	KDDFJ53G36	KDDFJ53G56		KDDFJ53G80	KDDFJ	53G160
		Long life replace	ment filter	KAFJ531G36	KAFJ5	31G56	KAFJ531G80	KAFJ5	31G160

Ceiling Mounted Cassette Corner Type

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

Slim Ceiling Mounted Duct Type (Standard Series)

No.	Item Type	FXDQ20PB	FXDQ25PB	FXDQ32PB	FXDQ40NB	FXDQ50NB	FXDQ63NB
1	Insulation kit for high humidity		KDT25N32		KDT2	25N50	KDT25N63

Middle Static Pressure Ceiling Mounted Duct Type

No.	Item	Туре	FXSQ20P FXSQ25P FXSQ32P	FXSQ40P	FXSQ50P FXSQ63P FXSQ80P	FXSQ100P FXSQ125P	FXSQ140P
4	High efficiency filter *1	65%	KAFP632B36	KAFP632B56	KAFP632B80	KAFP632B160	KAF632B160B
'	riigii elliciericy liitei T	90%	KAFP633B36	KAFP633B56	KAFP633B80	KAFP633B160	KAF633B160B
2	Filter chamber (for rear suc	tion) *1	KDDFP63B36	KDDFP63B56	KDDFP63B80	KDDFP63B160	KDDF63B160B
3	Long-life filter *1	Long-life filter *1		KAFP631B56	KAFP631B80	KAFP631B160	KAF631B160B
	White Fresh white Brown		KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ2	5K160W
4			KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ2	5K160F
			KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T	
5			KDAP25A36A	KDAP25A56A	KDAP25A71A	KDAP25A140A	KDAP25A160A *2
6	Shield plate for side plate			_			

Note: *1. If installing high efficiency filter and long-life filter to the unit, filter chamber is required.
*2. This option is a set of KDAP25A140A and KDBHP37A160.

Ceiling Mounted Duct Type

No.	Item	Туре	FXMQ20P FXMQ25P FXMQ32P	FXMQ40P	FXMQ50P FXMQ63P FXMQ80P	FXMQ100P FXMQ125P FXMQ140P	FXMQ200MA FXMQ250MA
1	Drain pump kit			-	_		KDU30L250VE
2	High efficiency filter	65%	KAF372AA36	KAF372AA56	KAF372AA80	KAF372AA160	KAFJ372L280
2	nigh eniciency liner	90%	KAF373AA36	KAF373AA56	KAF373AA80	KAF373AA160	KAFJ373L280
3	Filter chamber	Filter chamber			KDDF37AA80	KDDF37AA160	KDJ3705L280
4	Long life replacement filter		KAF371AA36	KAF371AA56	KAF371AA80	KAF371AA160	KAFJ371L280
5	Long life filter chamber kit		KAF375AA36	KAF375AA56	KAF375AA80	KAF375AA160	
		White	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W	1
6	Service panel	Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	_
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T	1
7	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A	1

Ceiling Suspended Type

No.	Item Type	FXHQ32MA	FXHQ63MA	FXHQ100MA
1	Drain pump kit	KDU50N60VE	KDU50I	N125VE
2	Replacement long-life filter (Resin net)	KAF501DA56	KAF501DA80	KAF501DA112
3	L-type piping kit (for upward direction)	KHFP5MA63	KHFP5	MA160

Wall Mounted Type

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

Floor Standing Type

No.	Item Type	FXLQ20MA	FXLQ25MA	FXLQ32MA	FXLQ40MA	FXLQ50MA	FXLQ63MA
1	Long life replacement filter	KAFJ3	KAFJ361K28		61K45	KAFJ361K71	

Concealed Floor Standing Type

1 Long life replacement filter KAFJ361K28 KAFJ361K45 KAFJ361K71	No.	Item Type	FXNQ20MA	FXNQ25MA	FXNQ32MA	FXNQ40MA	FXNQ50MA	FXNQ63MA
	1	Long life replacement filter	KAFJ3	61K28	KAFJ3	61K45	KAFJ3	861K71

Residential Indoor Units with connection to BP units

Slim Ceiling Mounted Duct Type

No.	Item Type	CDXS25EAVMA	CDXS35EAVMA	FDXS25CVMA	FDXS35CVMA	FDXS50CVMA	FDXS60CVMA
1	Insulation kit for high humidity	KDT25N32				KDT25N63	

Wall Mounted Type

No.	Type	FTXS20DVMA	FTXS25EVMA FTXS35EVMA	FTXS50FVMA FTXS60FVMA FTXS71FVMA
1	Titanium apatite photocatalytic air-purifying filter	KAF9	70A46	KAF952B42
Note: Filter is	s a standard accessory. It should be replaced approximately 3 year	s.		

BP Units for connection to residential indoor units

No.	Item Type	BPMKS967A2	BPMKS967A3
1	REFNET joint	KHRP2	26A22T
Note: A singl	e BP unit does not require a REFNET joint, 2 BP units require only 1 REF	NET joint, and 3 BP units require only 2 REFNET joints.	

Outside Units

Heat Pump / Heat Recovery

No.	Type		RWEYQ6T RWEY RWEYQ8T RWEY RWEYQ10T RWEY RWEYQ12T RWEY			RWEYQ14T RWEYQ16T RWEYQ18T RWEYQ20T RWEYQ22T RWEYQ24T	RWEYQ26T RWEYQ28T RWEYQ30T RWEYQ32T RWEYQ34T RWEYQ36T
1	Cool/heat selector			KRC19-26A			
1-1	Fixing box			KJB111A			
2	Distributive piping	REFNET header	KHRP25M33H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP25M73H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch)		
		REFNET joint	KHRP25A22T, KHRP25A33T, KHRP26A22T, KHRP26A33T	KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP26A22T, KHRP26A33T, KHRP26A72T	KHRP25A22T,KHRP25A33T, KHRP25A72T, KHRP25A73T, KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T		
3	Outside unit multi connection	For heat pump	-	BHFP22MA56	BHFP22MA84		
3	piping kit	For heat recovery	_	BHFP26MA56	BHFP26MA84		
4	External control adaptor		DTA104A62				
5	Strainer kit			BWU26A15, BWU26A20			

Note: *1 In the case of heat recovery system, cool/heat selector cannot be connected.

Strainer kit specifications

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

BS Units for Heat Recovery

Individual BS Unit

No.	Item Type	BSQ100AV1	BSQ160AV1	BSQ250AV1				
1	Quiet kit	KDDN26A1						
2	External control adaptor for outdoor units		DTA104A61					
3	Adaptor for multi tenant		DTA114A61					

Centralised BS Unit

No.	Item Type	BS4Q14AV1	BS6Q14AV1	BS8Q14AV1	BS10Q14AV1	BS12Q14AV1	BS16Q14AV1		
1	Closed pipe kit	KHFP26A100C							
2	Joint kit		KHRP26A250T						
3	Quiet kit	KDDN26A4 KDDN26A8 KDDN26A12 KDDN26A							

Control Systems

Operation Control System Optional Accessories

For VRV indoor unit use

No.	Item	Туре	FXFQ-S	FXFQ-LU	FXZQ-M	FXUQ-A	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB	
4	Remote controller Wireless		BRC7	F634F	BRC7E530W	BRC7CB58	BRC7C62	BRC4C61	BRC4C65	
'	Remote controller Navigation remote control Simplified remote co Remote controller for h Adaptor for wiring Wiring adaptor for e Remote sensor (for	Wired				BRC1C62				
2	Navigation remote controll	er (Wired remote controller)			E	BRC1E62 Note	7			
3	Simplified remote cor			-	-			BRC2C51		
4	Remote controller for ho			-		BRC3A61				
5	Adaptor for wiring		★ KRF	P1C63	★KRP1BA57	_	★KRP1B61	KRP1B61	★KRP1B56	
6-1	Wiring adaptor for ele	ectrical appendices (1)	★ KRI	P2A62	★KRP2A62	_	★KRP2A61	KRP2A61	★KRP2A53	
6-2	Wiring adaptor for ele	ectrical appendices (2)	* KRP	4AA53	★KRP4AA53	★KRP4AA53	★KRP4AA51	KRP4AA51	★KRP4A54	
7	Remote sensor (for in	ndoor temperature)	KRCS	01-4B	KRCS01-1B	KRCS01-4B		KRCS01-1B		
8	Installation box for ac	on box for adaptor PCB ☆		3 H98A	Note 4, 6 KRP1BA101	KRP1BA97	Note 2, 3 KRP1B96	_	Note 4, 6 KRP1BA101	
9	External control adap	ontrol adaptor for outdoor unit		104A62	★DTA104A62	_	★ DTA104A61	DTA104A61	★ DTA104A53	
10	Adaptor for multi tena	ant	*DTA	114A61		_				

No.	Item	Туре	FXSQ-P	FXMQ-P	FXMQ-MA	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA
4	Remote controller	Wireless	BRC	4C65	BRC4C62	BRC7EA63W	BRC7EA618	BRC4C62
ı	Remote controller	Wired			BRC	1C62		
2	Navigation remote controll	ler (Wired remote controller)			BRC1E	62 Note 7		
3	Simplified remote co	ntroller (Exposed type)	BRC	2C51	BRC2C51	-	_	BRC2C51
4	Remote controller for ho	otel use (Concealed type)	BRC	3A61	BRC3A61	-	- BF	
5	Adaptor for wiring		★KRP1C64		KRP1B61	KRP1BA54	_	KRP1B61
6-1	Wiring adaptor for ele	iring adaptor for electrical appendices (1)		★ KRP2A61		★KRP2A62	★KRP2A61	KRP2A61
6-2	Wiring adaptor for ele	ectrical appendices (2)	★KRP	4AA51	KRP4AA51	RP4AA51 ★KRP4AA52 ★KRP4AA51		KRP4AA51
7	Remote sensor (for in	ndoor temperature)	KRCS	01-4B	KRCS01-1B	KRCS01-1B		
8	Installation box for ac	daptor PCB☆	Notes 2, 3 KRP4A98	Notes 2, 3 KRP4A96	_	Note 3 KRP1CA93	Note 2, 3 KRP4AA93	_
9	External control adap	otor for outdoor unit	★ DTA104A61		DTA104A61	★ DTA104A62	★ DTA104A61	DTA104A61
10	Adaptor for multi tena	Adaptor for multi tenant		★ DTA114A61		_		_
11	External control adaptor for cooling/heating		_					
12	Remote controller wi	th key	_					

Notes: 1. Installation box is necessary for each adaptor marked ★.

- Up to 2 adaptors can be fixed for each installation box.
 Only one installation box can be installed for each indoor unit.
- 4. Up to 2 installation boxes can be installed for each indoor unit.
- Installation box is necessary for second adaptor.
- 6. Installation box is necessary for each adaptor.
- 7. Individual airflow direction, auto airflow rate and sensing sensor control can be set only via wired remote controller BRC1E62. Cannot be set via other remote controllers. Available functions depend on the type of indoor unit.

For residential indoor unit use

No.	Item	Туре	CDXS-EA FDXS-C	FTXS-D,B,F		
1	Remote controller	Wireless type	- 1	e 1		
2		ock/remote controller Note 2 tact/normal open contact)	KRP413AB1S			
3	Remote controller loss prevention chain		KKF917A4	KKF917A4		
4	Interface adaptor for	DIII-NET use	KRP928BB2S			

Notes: 1. A wireless remote controller is a standard accessory.
2. Time clock and other devices should be obtained locally.

System Configuration

No.	Item	Туре	Model No.	Function					
1	Residential central rer	note 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	5-room centralised controller for residential indoor units		Note 3 KRC72A	Up to 5 indoor units can be controlled. This is a low cost system which can only control ON/OFF.					
3	Interface adaptor for residential indoor units		Interface adaptor for residential indoor units KRP928BB		KRP928BB2S	Adaptors required to connect products other than those of the VTV System to			
4	Interface adaptor for S	SkyAir-series	Note 4 ★DTA112BA51	high-speed DIII-NET communication system adopted for the VRV System.					
5	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.					
6	Wiring adaptor for other	er air-conditioner	★ DTA103A51	installed on the product drift to be controlled.					
7	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. 					
7-1	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.
 - A wiring adaptor (KRP413AB1S) is also required for each indoor unit.
 - 4. No adaptor is required for some indoor units.

Building Management System

NI-			ha		Madal Na	Franchis												
No.		п	tem		Model No.	Function												
1	intelligent Touch	Basic	Hardware	intelligent Touch Controller	DCS601C51	Air-Conditioning management system that can be controlled by a compact all-in-one unit.												
1-1	Controller	Option	Hardware	DIII-NET plus adaptor	DCS601A52	Additional 64 groups (10 outside units) is possible.												
1-2	Electrical box with	h earth te	erminal (4 b	locks)	KJB411A	Wall embedded switch box.												
2	Basic Hardware intelligent Touch Manager		DCM601A51	Air-conditioning management system that can be controlled by touch screen.														
2-1			Hardware	iTM plus adaptor	DCM601A52	Additional 64 groups (10 outside units) is possible. Max. 7 iTM plus adaptors can be connected to intelligent Touch Manager.												
2-2	intelligent Touch			iTM power proportional distribution	DCM002A51	 Power consumption of indoor units are calculated based on operation status of the indoor unit and outside unit power consumption measured by kWh metre. 												
2-3	Manager	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Software	iTM energy navigator	DCM008A51	Building energy consumption is visualised. Wasted air-conditioning energy can be found out.
2-4				BACnet client	DCM009A51	BACnet equipment can be managed by intelligent Touch Manager.												
2-5					HTTP Interface	DCM007A51	Interface for intelligent Touch Manager by HTTP											
2-6			Hardware	are *1 SVM series	SVMPR2	VRV Smart Phone Control System for residence												
2-7			liaiuwaie	1 3 VIVI Series	SVMPS1	Tenant Billing System with PPD												
2-8	Di unit				DEC101A51	8 pairs based on a pair of ON/OFF input and abnormality input.												
2-9	Dio unit				DEC102A51	4 pairs based on a pair of ON/OFF input and abnormality input.												
3		*2 Interfa	ace for use	in BACnet®	DMS502B51	 Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through BACnet® communication. 												
3-1	Communication	Optional	DIII board		DAM411B51	Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.												
3-2	interface	Optional	Di board		DAM412B51	Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.												
4		*3 Interface for use in LONWORKS®		DMS504B51	 Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through LonWorks® communication. 													
5	Contact/ analogue signal	Unificati	on adaptor	for computerised	★ DCS302A52	Interface between the central monitoring board and central control units.												

Notes: *1. HTTP interface (DCM007A51) is also required.

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

 *3. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.
- *4. Installation box for ★ adaptor must be obtained locally.

Control Systems

Individual Control Systems for VRV Indoor Units

Navigation remote controller (Wired remote controller) (Option)

BRC1E62

Clear display

Dot matrix display

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

Backlight display

· Backlight display helps operating in dark rooms.

Simple operation

Large buttons and arrow keys

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





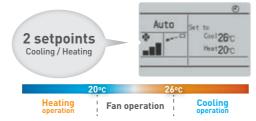
Guide on display

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

Energy saving

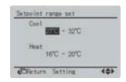
Auto operation mode

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



Setpoint range set

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



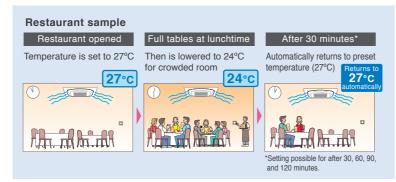
Off timer

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

Setpoint auto reset

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





Convenience

Setback (default:OFF)

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

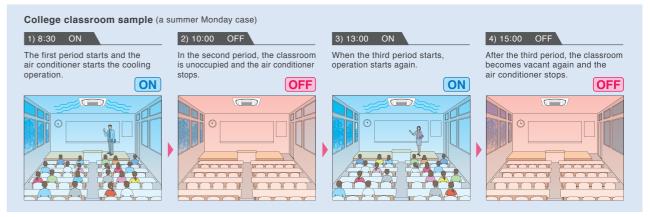
Ex) Setback temperature Cooling: 35°C Recovery differential Cooling: -2°C When the room temperature goes above 35°C, the air conditioner starts operating in Cooling automatically. When room temperature reaches 33°C, the air conditioner returns OFF.

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

•Weekly schedule

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

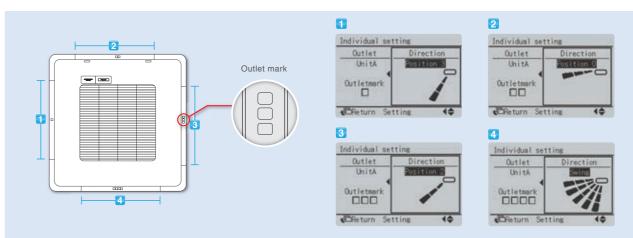




Comfort

•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 and Ceiling Mounted Cassette (Round Flow with Sensing) type FXFQ-S series. *2 Only available for VRV 4-Way Flow Ceiling Suspended type FXUQ-A series, Ceiling Mounted Cassette (Round Flow with Sensing) type FXFQ-S series and Middle Static Pressure Ceiling Mounted Duct type FXSQ-P series.

Individual Control Systems for VRV Indoor Units

Wired remote controller (Option)



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

The wired remote controller supports a wide range of control functions • Control of Cool/Heat In all the series of VRV, Cool/Heat changeover in the same refrigerant circuit can be changed by the remote controller of the indoor unit. Group control One remote controller can control the operation of max.16 indoor units at the Outside related to the central contro Remote controller Forced OFF input Heat Reclaim Remote controller Remote Remote controller Remote controller 3 4 1 Control by two remote controlle 3 Control for the combined operation 4 Expansion of system control The wiring of remote controller can be extended to max. 500 m and it is possible The system can be expanded to add several controllers, such as BMS, Forced OFF input and etc. can be controlled by the remote controller of remote controller, for example one in the room and the other one in the control room, which can control the operation of indoor unit freely. (The last command has a priority.) Of course, the group control by two remote controller is to install the remote controllers for the the indoor unit. Of course, the remote different indoor units in one place troller can display the time to clean the

Wireless remote controller (Option)



* Refer to page 63 for the name of each model

- $\bullet\mbox{The same}$ operation modes and settings as with wired remote controllers are possible.
- * Individual airflow direction, auto airflow rate and sensing sensor control can be set only via wired remote controller BRC1E62. Cannot be set via other remote controllers.
- A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.
- A signal receiver unit (installed type) for a Ceiling Mounted Cassette (Round Flow, Compact Multi Flow, Double Flow) type, Ceiling Suspended type and Wall Mounted type is mounted into the indoor unit.



Simplified remote controller (Option)

* Wireless remote controller and signal receiver unit are sold as a set.



Exposed type (BRC2C51)

Concealed type (For hotel use)

(For hotel use) (BRC3A61)

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



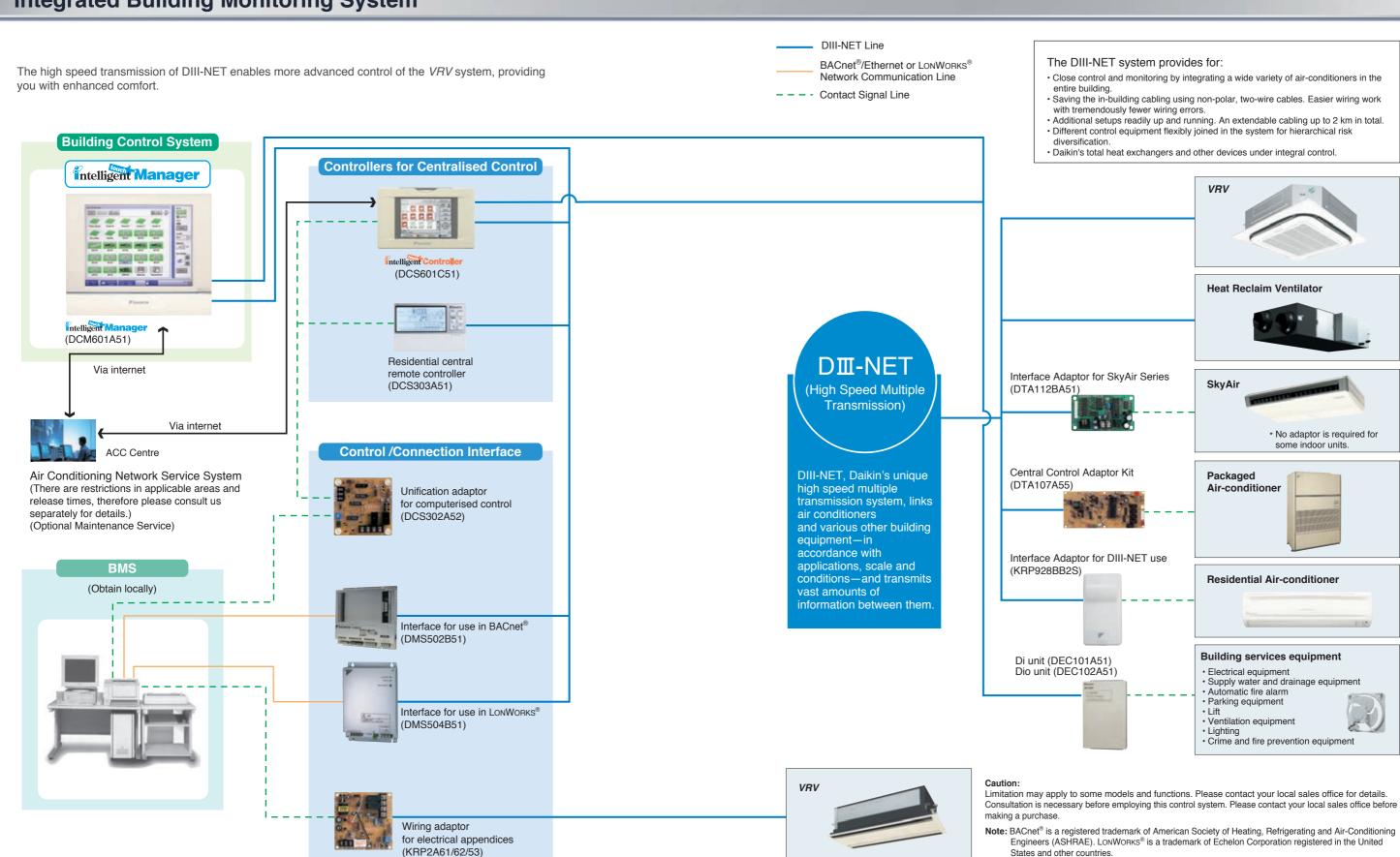
The concealed type remote controller smartly fits into a night table or console panel in a hotel room.

Wide variation of remote controllers for VRV indoor units

	FXFQ	FXZQ	FXUQ	FXCQ	FXKQ	FXDQ	FXSQ	FXMQ	FXHQ	FXAQ	FXL(N)Q
Navigation remote controller (Wired remote controller) (BRC1E62)	•	•	•	•	•	•	•	•	•	•	•
Wired remote controller (BRC1C62)	•	•	•	•	•	•	•	•	•	•	•
Wireless remote controller* (Installed type signal receiver unit)	•	•	•	•					•	•	
Wireless remote controller* (Separate type signal receiver unit)					•	•	•	•			•
Simplified remote controller (Exposed type) (BRC2C51)						•	•	•			•
Simplified remote controller (Concealed type: for Hotel use) (BRC3A61)						•	•	•			•

^{*}Refer to page 63 for the name of each model.

Integrated Building Monitoring System



. .

Control Systems

Advanced Control Systems for VRV Indoor Units

Intelligent Manager

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



DCM009A51

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.



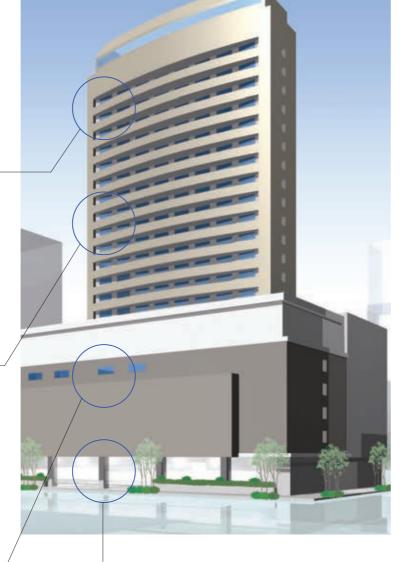


Air-conditioning control for large spaces

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.





For Energy Saving & Comfort

intelligent Touch Manager maximises the advantages of VRV features

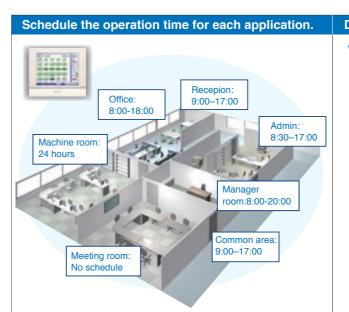
intelligent Touch Manager is an advanced multi-zone controller that provides the most cost-effective way to control and monitor the Daikin VRV system.

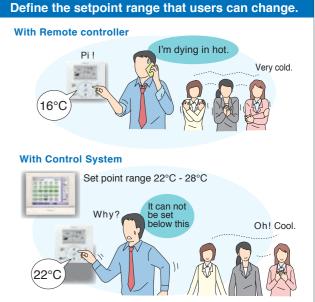
The 10.4" LCD touch screen is easy to use with three different screen views to include the floor plan layout view, icon view and list view and menus for system configurations.

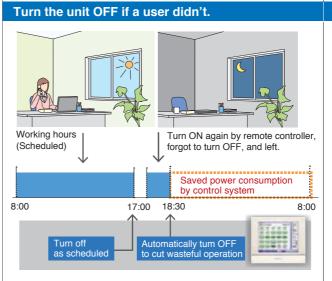
It is also easy to use with standardized remote Web Access from your PC.

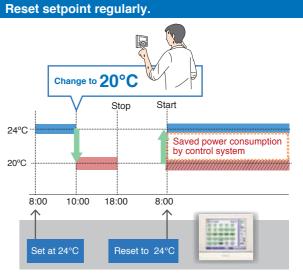
It can manage a total of 650 management points consisting of up to 512 Daikin indoor

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.









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 (Option)

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

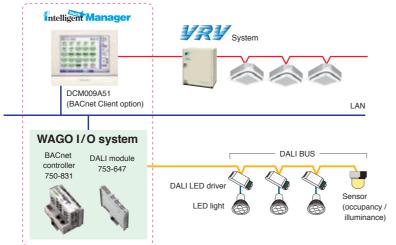
[Operation]

- · 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
- 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

Case1

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

· Failing to switch



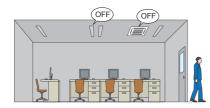


· Optimal illuminance reduces energy

Case2

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.



Case3

auicker

Lighting abnormalities (e.g. burned-out bulbs) can be

the intelligent Touch Manager screen. Lighting maintenance becomes easier and



The layout screen enables quick

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 (Option)

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.

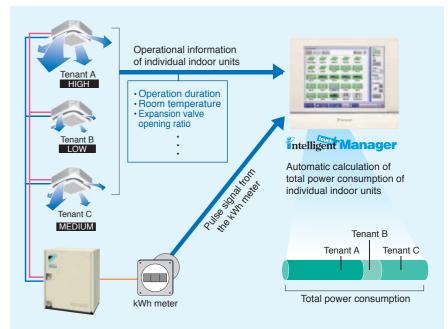
Operational information of individual indoor units are monitored, based on distribution of power consumption of outdoor units.

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

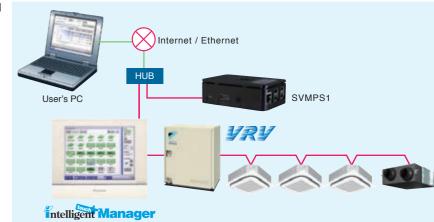
Electricity bills can be easily calculated for each tenant (Option)

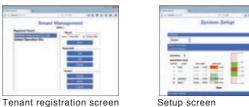
The power consumption of VRV controlled by the intelligent Touch Manager can be easily managed for each tenant using a PC. The electricity bill settings facilitate billing work through easy calculation and issuance of VRV electricity bills.



[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)





VRV electricity bill screen

Control Systems

Advanced Control Systems for VRV Indoor Units

System structure Up to 512 groups intelligent Touch Manager System Overview Air Conditioning Up to 650 **Network Service System** management points DⅢ-NET * * 學學學 One DIII-NET system the six the six six Max. 64 indoor unit groups (128 indoor units) iTM Plus Adaptor 100Mbps Max. 64 indoor unit groups Di/Pi Line Up to 7 Adaptors \Diamond Residential A/C WAGO I/O up to 30 nodes BACnet / I 3rd party WAGO I/O system BACnet controlle DALI BUS Operation from DALI LED driver (occupancy / illuminance) SVMPR2: DALI BUS for controlling 64 units Wi-Fi router DALI LED driver or (occupancy / illuminance) Tenant billing DALI BUS DALI LED driver SVMPS1

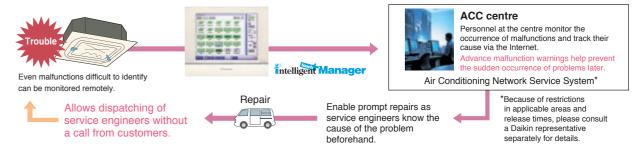
Air Conditioning Network Service System

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 offer more freedom to administrators



ntelligent 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 comunication protocols, Daikin offers interfaces that provide a seamless connection between VRV system and your BMS.

Dedicated interfaces make Daikin air conditioners freely compatible with open networks



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

LONWORKS®

Facilitating the network integration of VRV system and LONWORKS®

DMS504B51

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

Smart phone will be a remote controller of VRV system (Option)

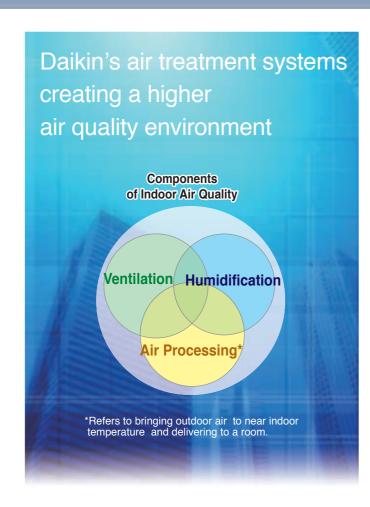






Control

76 75



A recent trend rapidly gaining popularity is for air treatment to be required as well as air conditioning. Daikin's Outdoor-Air Processing Unit can combine fresh air treatment and air conditioning, supplied from a single system. It adjusts the temperature of air from outdoors using a fixed discharge temperature control. Along with Outdoor-Air Processing Units, we also offer Heat Reclaim Ventilator systems. The Heat Reclaim Ventilator VAM-GJ series units in particular have been praised for their compactness, energy conservation and extensive operation range of outdoor temperatures. This series provides higher enthalpy efficiency *, due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure *, 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: VAM150/250/350/650/800/1000/2000GJVE

		Outdoor-Air		Heat Recla	im Ventilator	
		Processing Unit	VKM-GAM Type	VKM-GA Type	VAM-GJ Type	
		Ventilation Humidification Air Processing*	Ventilation	Humidification Processing*	Ventilation Humidification Air Processing*	
			00.		00	
	Refrigerant Piping	Connectable	Conne	ctable	Not connectable	
Connections	Wiring	Connectable	Conne	ctable	Connectable	
with <i>VRV</i> IV W series	After-cool & After-heat Control	Available	Avail	able	Not available	
Heat Exchar	nge Element	_	Energy savir	ngs obtained	Energy savings obtained	
Humidifier		_	Fitted	_	_	
High Efficier	ncy Filter	Option	Opt	ion	Option	
Ventilation S	System	Air supply only	Air supply &	air exhaust	Air supply & air exhaust	
Power Supp	ly	220-240 V, 50 Hz	220-240	V, 50 Hz	220-240 V/220 V, 50 Hz/60 Hz	
			500	3/10	150 m³/h 250 m³/h 350 m³/h 500 m³/h	
Airflow Rate			800		650 m ³ /h 800 m ³ /h	
		1080 m³/h	1000		800 m ³ /h	
		1080 m ³ /h	1000		1500 m³/h	
		2100 m³/h			2000 m³/h	

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

^{★2} For models: VAM150/350/500GJVE

Outdoor-Air Processing Unit

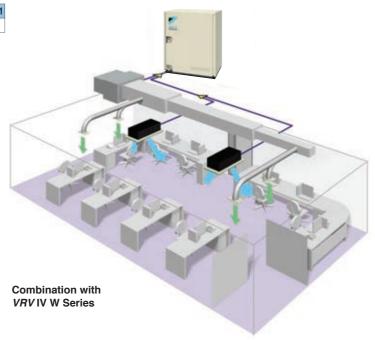
Combine fresh air treatment and air conditioning, supplied from a single system.

Lineup

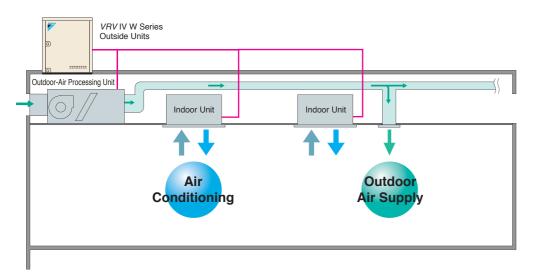
Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250



Fresh air treatment and air conditioning can be achieved with a single system by using heat pump technology—without the usual troublesome air supply and air discharge balance design. Fan coil units for air conditioning 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.



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



Connection Conditions

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

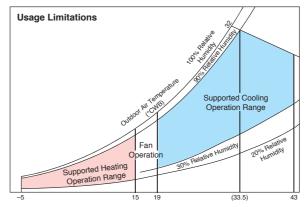
- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outside units.
- When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outside units.
- Outdoor-air processing units can be used without indoor units.

- The unit introduces outdoor air and adjusts the outdoor air temperature via fixed discharge temperature control, thereby reducing the air conditioning load.
- * The system can operate with outdoor-air temperatures ranging from -5 to 43°C. Heating performance is somewhat adversely affected when the outdoor-air temperature is 0°C or below.
- * When shipped from the factory, the thermostat is set at 18°C for cooling and 25°C for heating. The set temperature can be varied within the range of 13–25°C during cooling operation, and 18–30°C during heating operation, in the local setting mode using the wired remote controller. The temperature, however, is not displayed on the remote controller.
- * While in machine protection mode and depending on outdoor air conditions, discharge air temperature may not be at the set temperature.
- * The fan stops when operating in defrosting, oil returning and hot start operations. The fan also may stop due to mechanical protection control.
- Ceiling mounted duct units with three differing capacities are available. These can be connected to VRV series outdoor units to meet a variety of different requirements.

Airflow rate

FXMQ125MFV1	1,080 m³/h
FXMQ200MFV1	1,680 m³/h
FXMQ250MFV1	2,100 m ³ /h

- Optional equipment includes long-life filters.
- Compatible with outdoor temperatures from -5°C to 43°C.



Notes:

- The data shown in the graph illustrates the supported operation ranges under the following conditions.
 Indoor and Outdoor Unit
 - Effective piping length: 7.5 m
- Height differential: 0 m
- The discharge temperature can be set using the remote controller. However, the actual temperature may not match the temperature setting under some circumstances due to the outdoor-air processing load or mechanical protection controls.
- The system will not operate in fan mode when the outdoor air temperature is 5°C or below.

- High-performance filters with dust collection efficiencies (JIS calorimetry) of 90% and 65% are also available as options.
- As with the VRV IV system, a variety of control systems can be deployed, including remote control from distances of up to 500 m.
- * Group control is not possible between this unit and standard type indoor units. Connect remote controllers to each unit.



BRC1E62
Navigation remote controller
(Wired remote controller)
(option)

- The "self-diagnosis function" indicates the occurrence and nature of abnormalities in the system by displaying codes on the remote controller.
- A central control system compatible with the VRV IV system can be installed.
- * It is not possible to change the discharge air temperature settings from the central control system.
- * Do not associate this equipment into zones with standard indoor units, as central control will not be possible.



DCS302CA61 Central remote controller (option)

 As with the VRV IV system, the equipment employs the "super wiring system" so that the wiring linking indoor and outdoor units can also be utilised for central control.

Notes:

- * Linked control of the product and the Heat Reclaim Ventilator is not supported.
- * This equipment is intended for the treatment of outdoor air only. It is not to be used for maintaining indoor air temperature. Install and use with standard indoor units. Be sure to position the air discharge openings of the product in positions where the airflow will not blow on people directly. When outdoor-air processing is in excess, the unit switches to thermo-off mode, and outdoor air flows into the room directly.
- For outdoor ducts, be sure to provide heat insulation to prevent condensation.
- Group control of the product and the standard indoor units is not supported. A separate remote controller should be connected to each individual unit
- * The system will not operate in fan mode when the outdoor air temperature is 5°C or below.
- * If the product is allowed to operate 24 hours a day, maintenance (part replacement, etc.) must be performed periodically.
- * Temperature setting and Power Proportional Distribution (PPD) are not possible even if the intelligent Touch Controller or the intelligent Touch Manager is installed.
- The remote controller wired to the outdoor-air processing unit must not be set as the master remote controller. Otherwise, when set to "Auto," the operation mode will switch according to the outdoor air conditions, regardless of the indoor temperature.

Standard specifications

Indoor unit

Type					Ceiling Mounted Duct Type				
	Model			FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1			
Power su	ipply			1-phas	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			
			kcal/h	7,700	12,000	15,000			
Heating of	capacity *1		Btu/h	30,400	47,400	59,400			
			kW	8.9	13.9	17.4			
Power consumption			kW	0.359	0.548	0.638			
Casing					Galvanised steel plate				
Dimensions (HXWXD)			mm	470X744X1,100	470X1,38	B0X1,100			
	Motor output		kW		0.380				
Fan	Airflow rate		m³/min	18	28	35			
ı alı			cfm	635	35 988				
	External static pressure	220 V/240 V	Pa	185/225	185/225 225/275				
Air filter				*2					
	Liquid		mm		φ 9.5 (flare)				
Refrigerant piping	Gas		mm	φ 15.9 (flare)	φ 19.1 (brazing)	φ 22.2 (brazing)			
	Drain		mm		PS1B female thread				
Machine	weight		kg	86	12	23			
Sound le	vel *3	220 V/240 V	dB(A)	42/43	47.	/48			
Connectable outside units *4 Operation range		4		6 HP and above	8 HP and above	10 HP and above			
			Cooling		19 to 43°C				
(Fan mode o	operation between 15 ar	nd 19°C)	Heating		-5 to 15°C				
Range of	the discharge		Cooling		13 to 25°C				
temperati			Heating		18 to 30°C				

- Note: *1. Specifications are based on the following conditions;

 * Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.

 * Heating: Outdoor temp. of 0°CDB, *2.9°CWB (50% RH), and discharge temp. of 25°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. Local setting mode. Not displayed on the remote controller.

 This equipment cannot be incorporated into the remote group control of the VRV IV W series.

OPTIONS

Indoor unit

		Model	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1				
	Operation remo	te controller		BRC1E62/BRC1C62					
ntro	Central remote controller		DCS302CA61						
u/co	Central remote controller Unified ON/OFF controller Schedule timer Wiring adaptor for electrical appendices (1)			DCS301BA61					
ratio				DST301BA61					
Ope			KRP2A61						
	Wiring adaptor fo	r electrical appendices (2)	KRP4AA51						
	Long-life replac	ement filter	KAFJ371L140	KAFJ371L280					
Filters	High-efficiency	Colourimetric method 65%	KAFJ372L140	KAFJ3	72L280				
분	filter	Colourimetric method 90%	KAFJ373L140	KAFJ3	73L280				
	Filter chamber *1		KDJ3705L140	KDJ370	05L280				
Dr	ain pump kit			KDU30L250VE					
Ac	daptor for wiring			KRP1B61					

- Notes: *1. Filter chamber has a suction-type flange. (Main unit does not.)

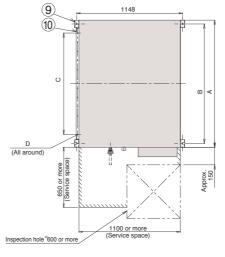
 Dimensions and weight of the equipment may vary depending on the options used.

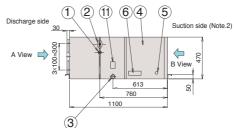
 Some options may not be usable due to the equipment installation conditions, so please
 - confirm prior to ordering.

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

Dimensions

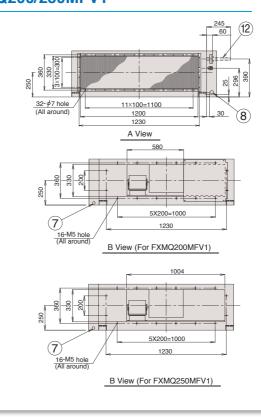
FXMQ125/200/250MFV1





*These diagrams are based on FXMQ200 and FXMQ250MFV1.

FXMQ200/250MFV1



Local connection piping size

Model	Gas piping diameter	Liquid piping diameter
FXMQ125MFV1	<i>ϕ</i> 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

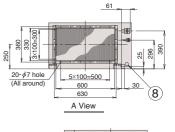
Model	Α	В	С	D
FXMQ125MFV1	744	685	5X100=500	20-φ4.7 hole
FXMQ200MFV1	1380	1296	11X100=1100	32- <i>ϕ</i> 4.7 hole
FXMQ250MFV1	1380	1296	11X100=1100	32- <i>ϕ</i> 4.7 hole

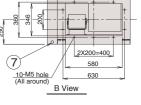
- 1. The attached piping in the diagram is for FXMQ200MFV1 and $\,$ FXMQ250MFV1 only. The gas piping connection port (② in the diagram) has a different bore form with FXMQ125MFV1.
- 2. An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side.[Use a filter with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

6 Name plate

- 10 Discharge companion flange
- ⑤ Ground terminal 1 Water supply port
 - 2 Attached piping (Note. 1)

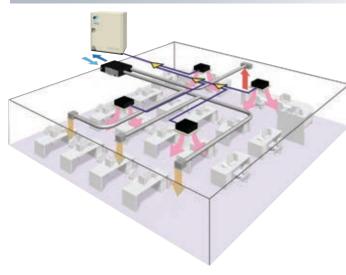
FXMQ125MFV1





Heat Reclaim Ventilator with DX-Coil and Humidifier — VKM series

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



Efficient outdoor air introduction is possible

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

Lineup

With	າ DX Coil & Hເ	umidifier Type	•					
Model Name VKM50GAMV1 VKM80GAMV1 VKM100GA								
Capacity Index	31.25	50	62.5					

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



Humidifier

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

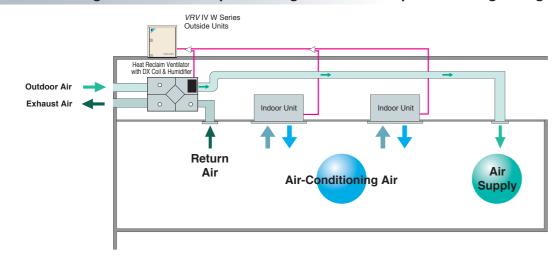
DX-coil

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

High static pressure

High external static pressure means enhanced design flexibility.

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

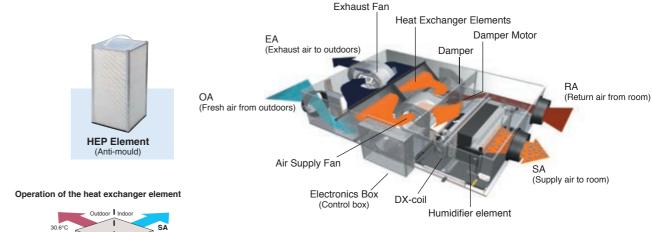


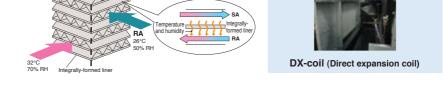
Connection Conditions

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

. When 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 outside units.

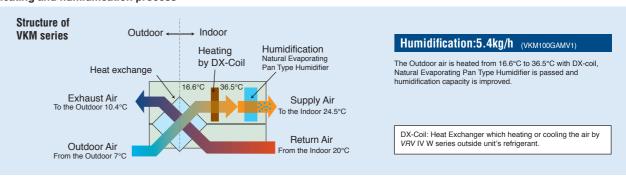
A compact unit packed with Daikin's cutting-edge technologies







Heating and humidification process



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

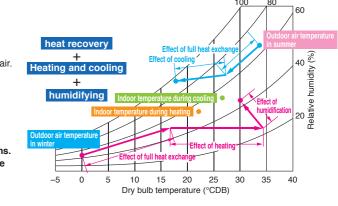
Indoor unit with outdoor air treatment

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

Other features

Integrated system includes ventilation and humidifying operations.

 Ventilation, cooling/heating and humidifying are possible with one remote controller.



Specifications

	N	IODEL			VKM50GAMV1*	VKM80GAMV1 *	VKM100GAMV1*	VKM50GAV1	VKM80GAV1	VKM100GAV1	
Refrigerant					R-410A						
Power Supply							1-phase, 220-2	40 V, 50 Hz			
		Ultra-high	Airflow rate	m ³ /h	500	750	950	500	750	950	
		Oilia-iiigii	Static pressure	Pa	160	140	110	180	170	150	
Airflow Rate & Static		High	Airflow rate	m ³ /h	500	750	950	500	750	950	
Pressure (Note 7)		riigii	Static pressure	Pa	120	90	70	150	120	100	
		Low	Airflow rate	m ³ /h	440	640	820	440	640	820	
		LOW	Static pressure	Pa	100	70	60	110	80	70	
		Heat	Ultra-high		560	620	670	560	620	670	
		exchange	High	W	490	560	570	490	560	570	
Power Consumption	on	mode	Low		420	470	480	420	470	480	
i ower consumption	011	D	Ultra-high		560	620	670	560	620	670	
		Bypass mode	High	W	490	560	570	490	560	570	
			Low		420	470	480	420	470	480	
Fan Type							Sirocco	Fan			
Motor Output				kW	0.280 x 2	0.280 x 2	0.280 x 2	0.280 × 2	0.280 x 2	0.280 x 2	
		Heat	Ultra-high		37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41	
		exchange	High	dB(A)	35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39	
Sound Level (Note	9 5)	mode	Low		32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5	
(220/230/240 V)		Bypass mode	Ultra-high		37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41	
			High	dB(A)	35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39	
		mode	Low	1	32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5	
Humidification Cap	pacity (No	ote 4)		kg/h	2.7	4.0	5.4		_		
		Ultra-high	Ultra-high		76	78	74	76	78	74	
Temp. Exchange Efficiency		High		%	76	78	74	76	78	74	
Lindictioy		Low	Low		77.5	79	76.5	77.5	79	76.5	
		Ultra-high	Ultra-high		64	66	62	64	66	62	
Enthalpy Exchange Efficiency (Cooling	le a)	High		%	64	66	62	64	66	62	
Lindiditoy (Cooming	3/	Low	Low		67	68	66	67	68	66	
		Ultra-high			67	71	65	67	71	65	
Enthalpy Exchange Efficiency (Heating	e e	High		%	67	71	65	67	71	65	
Emolority (Floating	9/	Low		1	69	73	69	69	73	69	
Casing						•	Galvan ised	Steel Plate			
Insulating Material	I						Self-Extinguishable	e Urethane Foam			
Heat Exchanging S	System					Air to Air Cros	s Flow Total Heat (S	ensible + Latent H	eat) Exchange		
Heat Exchanger E	lement					SI	pecially Processed I	Nonflammable Pap	er		
Air Filter							Multidirectional	Fibrous Fleeces			
DX-coil	Cooling	(Note 2)			2.8	4.5	5.6	2.8	4.5	5.6	
Capacity	Heating	(Note 3)		kW	3.2	5.0	6.4	3.2	5.0	6.4	
·		Height			387	387	387	387	387	387	
Dimensions				mm	1,764	1,764	1,764	1,764	1,764	1,764	
Depth				832	1,214	1,214	832	1,214	1,214		
Connection Duct D	Diameter			mm	φ200	φ:	250	φ200	φ:	250	
Machine Weight			Net	lem.	102	120	125	96	109	114	
Machine Weight			Gross (Note 8)	kg	107	129	134		_	•	
			Around Unit			•	0°C-40°C DB,	80%RH or less			
Unit Ambient Cond	dition		OA (Note 9)				-15°C-40°C DB	80%RH or less			
			RA (Note 9)				0°C-40°C DB,	80%RH or less			

- Notes; 1. Cooling and heating capacities are based on the following conditions. Fan is based on High and Cooling and heating capacities are based on the following currolliums. Fail is based on ringing 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
 Indoor temperature: 27°C DB, 19°C WB, Outdoor temperature: 35°C DB
 Indoor temperature: 20°C DB, Outdoor temperature: 7°C DB, 6°C WB
 Humidifying capacity is based on the following conditions: Indoor temperature: 20°C DB, 15°C WB, Outdoor temperature: 7°C DB, 6°C WB
 The nonerating sound measured at the point 1.5 m below the centre of the unit is converted to

 - 5. The operating sound measured at the point 1.5 m below the centre of the unit is converted to that The operating sound measured at the point 1.5 m below the centre of the unit is converted to that
 measured in an anechoic chambar built in accordance with the JIS C 1502 conditions. The actual
 operating sound varies depending on the surrounding conditions (near running unit's sound,
 reflected sound and so on) and is normally higher than this value.
 For operation in a quiet room, it is required to take measures to lower the sound.
 For details, refer to the Engineering Data.
 The noise level at the air discharge port is about 8–11 dB(A) or higher than the unit's operating

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

- 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.)

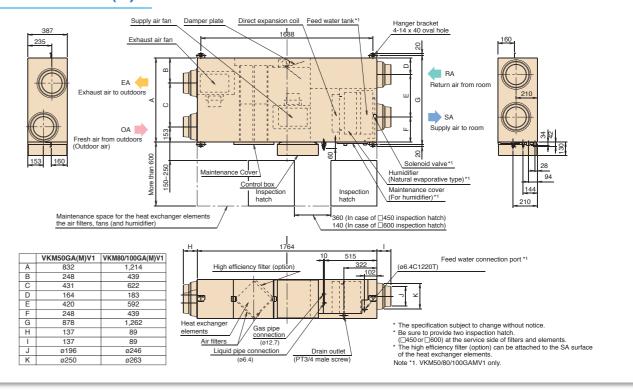
 15. When connecting the indoor unit directly to the duct, always use the same system on the indoor unit as with the outdoor unit, perform group-linked operation, and make the direct duct connection settings from the remote controller. (Mode No. "1" (27)" First ode No. "5" Second code No. "6".)

 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



Options

Ite	n		Туре					VKM50	/80/100G	A(M)V1				
	Remote controller				BRC1E62/BRC1C62 *1									
	_	Resi	idential central remote controller					DC	CS303A51	*2				
		ntralised trolling Cer	ntral remote controller					DO	CS302CA	61				
	dev		fied ON/OFF controller		DCS301BA61									
			hedule timer					D	ST301BA	61				
		Wiring ad appendice	aptor for electrical es		KRP2A61									
ĕ	_	For humidifi	er running ON signal output		KRP50-2									
g	bb		r control kit		BRP4A50									
Controlling	Board Adaptor	For wiring	Type (indoor unit of <i>VRV</i>)	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
	S			KRP1C63★	KRP1BA57★	KRP1C67	KRP1B61★	KRP1B61	KRP1B56★	KRP1C64★	KRP1B61	KRP1BA54	_	KRP1B6
		Installation	n box for adaptor PCB☆	Notes 2, 3 KRP1H98A	Note 4, 6 KRP1BA101	_	Notes 2, 3 KRP1B96	_		Notes 2, 3		Note 3 KRP1CA93	Notes 2, 3 KRP4AA93	_

- Notes: 1. Installation box ☆ is necessary for each adaptor marked ★.
 - Up to 2 adaptors can be fixed for each installation box.
 Only one installation box can be installed for each indoor unit.
 - 4. Up to 2 installation boxes can be installed for each indoor unit.
- 6. Installation box ris necessary for each adaptor.
- *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 equipmen

m	Туре	VKM50GA(M)V1	VKM80GA(M)V1	VKM100GA(M)V1				
Silencer		_	KDDM:	24B100				
	Nominal pipe diameter mm	_	φ 250) mm				
Air suction/	White	K-DGL200B	K-DG	L250B				
Discharge grille	Nominal pipe diameter mm	φ 200	φ 250					
High efficiency	filter	KAF242H80M	KAF242	2H100M				
Air filter for rep	lacement	KAF241G80M	KAF241	IG100M				
exible duct (1 m)		K-FDS201D	K-FD:	S251D				
exible duct (2 m)		K-FDS202D	K-FD:	S252D				
	Air suction/ Discharge grille High efficiency Air filter for rep exible duct (1 m)	Silencer Nominal pipe diameter mm Air suction / White	Nominal pipe diameter mm	Silencer — KDDM: Nominal pipe diameter mm — ∳ 250 Air suction / Discharge grille White K-DGL200B K-DG Nominal pipe diameter mm ∮ 200 ∮ 2 High efficiency filter KAF242H80M KAF242 Air filter for replacement KAF241G80M KAF24 exible duct (1 m) K-FDS201D K-FDS				

Heat Reclaim Ventilator — VAM series

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

Model Names

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

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

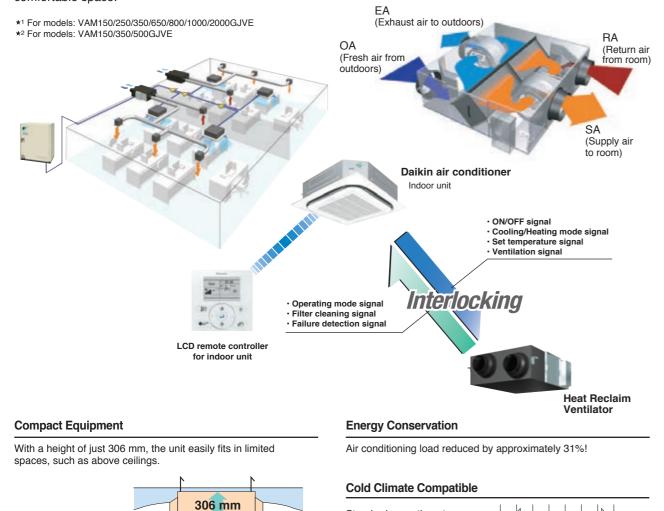




Heat Reclaim Ventilator remote controller BRC301B61 (Option)

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

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



Standard operation at

Air conditioning load reduced by approximately 31%!

Total heat exchange ventilation

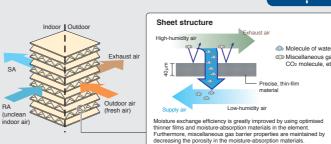
This unit recovers heat energy lost through ventilation and curbs room temperature changes caused by ventilation, thereby conserving energy and reducing the load on the air conditioning

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

Due to the thinner film...

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

Moisture absorption increased by approx. 10%!

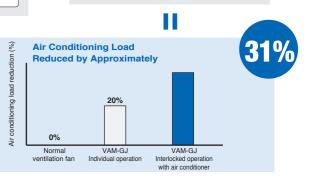


Auto-ventilation Mode Changeover Switching

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

Pre-cool, **Pre-heat Control**

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



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

- The air conditioning load reduction values are based on the following conditions; Application: Tokyo office building
- Building form: 6 floors above ground, 2 floors underground, floor area 2,100 m² Personnel density: 0.25 person/ Ventilation volume: 25 m3/h

Indoor air conditioning level: summer 25°C 50% RH, intermediate seasons 24°C 50% RH, winter 22°C 40% RH

Operating time: 2745 hours (9 hours per day, approx. 25 days per month)
Calculation method: simulation based on "MICRO-HASP/1982" of the Japan Building Mechanical and Electrical Engineers Association

Nighttime free cooling operation*1

Nighttime free cooling operation is an energy-conserving function that works at night when air conditioners are off. By ventilating rooms containing office equipment that raises the room

temperature, nighttime free cooling operation reduces the cooling load when air conditioners are turned on in the morning. It also alleviates feelings of discomfort in the morning caused by heat accumulated during the night.

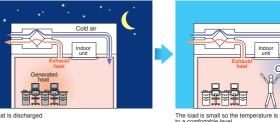
•Nighttime free cooling operation only works to cool and if connected to Building Multi or VRV systems. •Nighttime free cooling operation is set to "off" in the factory settings, so if

you wish to use it, request your dealer to turn it on.

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

The indoor accumulated heat is discharged at night.

This reduces the air conditioning load the next day thereby increasing efficiency.



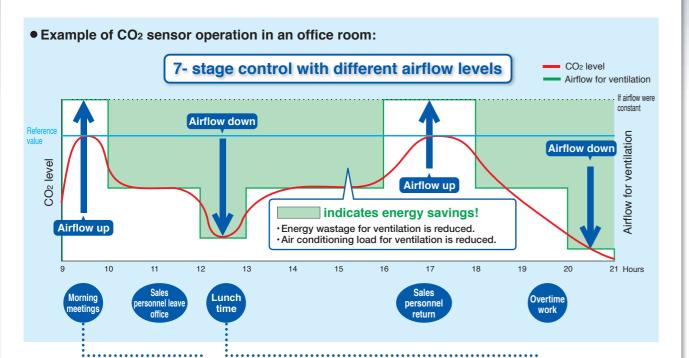
approx. **5%**

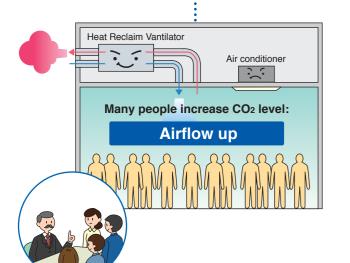
temperatures down to -15°C. * For VAM500GJVE

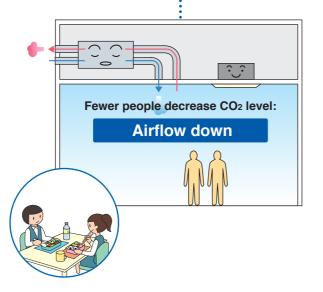
Heat Reclaim Ventilator — VAM series

■ CO₂ Sensor Optional Kit Connection

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







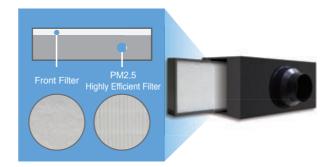
Heat Reclaim Ventilator — PM2.5 filtration unit (Option)

Rapid urbanization has increased industrial and automobile emissions, resulting in higher PM2.5 levels. This has become the source of respiratory diseases and poses a serious threat to a long term health issue. As the air quality has worsened, research has shown the harmful effects of PM2.5 on the health of the general public.

Double-layered efficient filtration

PM2.5 filters are double-layered.

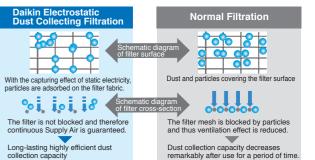
- 1. The front filter effectively removes large particles.
- 2. The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently.



Electrostatic dust collection filter: more efficient and longer lasting effect

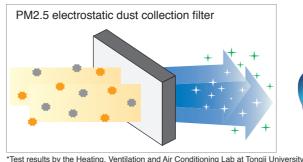
The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently, including those smaller than the grid mesh. The filter is difficult to be blocked by particles and has

good ventilation and long life span.

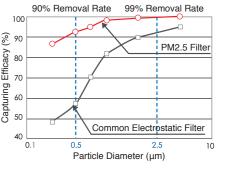


Filtering PM2.5 efficiently for healthier and more comfortable environments

The PM2.5 filtering series heat reclaim ventilator is equipped with an electrostatic dust collection filter for PM2.5 removal. This filter not only removes 99% or more of 2.5 µm; it also eliminates up to 90% of 0.5 µm matter!







Extra-High Performance Filter Against Sulfur Oxides and Nitrogen Oxides

Effective Use of Active Carbon Material to Enlarge the Adsorption Area

As an expert in the research and development of filters, DAIKIN has specifically selected active carbon material

as the main substance to constitute the filter against sulfur oxides and nitrogen oxides. The material's usable pore surface is fully exploited, thus extending the filter's durability.

Note: Surface area of active carbon: $700 \ m^2/g$ Given a newspaper page of $40.6 \ cm$ wide by $54.6 \ cm$ long, each gram of active carbon has a surface area of 3,000 newspaper pages.

Intelligent Identification, **Super-effective Adhesion**

The special substance added in the pores of active carbon can exclusively target sulfur oxide and nitrogen oxide gases and stick to them without blocking other unidentified gases. This ensures long durability of the filter.

Note: The figures are based on in-house tests under the following lab conditions: temperature 22 to 25°CDB, humidity 35 to 40% RH,

Air Treatmer Equipment Line

Specifications

■ Heat Reclaim Ventilator — VAM series

MODEL					VAM150G.IVE	VAM250GJVE	VAM350G.IVE	VAM500G.IVE	VAM650G.IVE	VAM800G.IVE	VAM1000GJVE	VAM1500G.IVE	VAM2000G.IVE		
Dowe		JULL			VANITOOGOVE	YAMIZJUGUYL	YAMOOOOYL				YAMTOOOGOYL	YAMII JOOQOYL	YAMEOOOGOYL		
Powe	er Supply		100 12-6		70/70	1-phase, 220-240 V/ 220 V, 50/60 Hz 79/79 75/75 79/79 74/74 75/75 72/72 78/78 72/72 77/									
	p. Exchan	nge	Ultra-High			75/75		74/74	75/75	72/72	78/78		77/77		
Effici (50/6	ency 60 Hz)		High	%	79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77		
(00/0			Low Ultra-High		84/85	79/79	82/82	80/80.5	77/77.5	74/74.5	80.5/81	75.5/76	79/81		
					72/72	71/72	70/70	67/67	67.5/67.5	65/65	70/70	65/65	72/72		
Enthal	ipy	r Heating	High	%	72/72	71/71	70/70	67/67	67.5/67.5	65/65	70/70	65/65	72/72		
Excha Efficie	0		Low		76/76.5	74/74	77/77	74/74.5	71.5/72	67.5/68	72.5/73	67/67.5	76/76		
(50/60	Hz)		Ultra-High		66/66	63/63	66/66	55/55	61.		64/64	61/61	62/62		
	For	r Cooling	High	%	66/66	63/63	66/66	55/55	61.		64/64	61/61	62/62		
			Low		70/70.5	66/66	70/70	59/59.5	64/64.5		68.5/69	64/64.5	66/67		
		eat .	Ultra-High		125/134	137/141	200/226	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542		
Power		change ode	High	W	111/117	120/125	182/211	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315		
Consur	mption	000	Low		57/58	60/59	122/120	128/136	196/207	435/483	476/512	835/927	966/1,039		
(50/60		ypass	Ultra-High		125/134	137/141	200/226	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542		
		Mode	High	W	111/117	120/125	182/211	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315		
			Low		57/58	60/59	122/120	128/136	196/207	435/483	476/512	835/927	966/1,039		
		Heat	Ultra-High		27-28.5/28.5	27-29/29	31.5-33/33	33-35.5/34	34-36/36	39-40.5/39.5	39.5-41.5/39.5	39.5-41.5/41.5	41.5-43.5/42		
	Exchange Mode		dB(A)	26-27.5/27.5	26-27.5/28	30-31.5/30	31.5-34/32	33-34.5/34	37-39.5/37.5	37.5-39.5/37.5	37.5-39.5/39.5	39-43/40			
Sound	Level		Low		20.5-21.5/21	21-22/21	23-25/23	25-28.5/24	27.5-29.5/28	35-37.5/34	35-37.5/34.5	35-37.5/36	36-39/39		
(50/60		Bypass Mode	Ultra-High	4	28.5-29.5/29.5	28.5-30.5/30.5	33-34.5/34.5	34.5-36/35.5	35-37.5/37.5	40.5-42/41	40.5-42.5/40.5	41-43/42.5	43-45.5/44		
			High		27.5-28.5/28.5	27.5-29/29.5	31.5-33/31.5	33-34.5/33.5	33-35.5/35.5	38.5-40/39	38.5-40.5/38.5	39.5-41/41.5	40.5-45/42		
			Low		22.5-23.5/22	22 22.5-23/22.5 24.5-26.5/24.5 25.5-28.5/25.5 27.5-30.5/29.5 36-3					3.5/35.5 36.5-38/37.5 37.5-39.5/41				
Casin					Galvanised steel plate										
Insula	tion Mater	rial			Self-extinguishable polyurethane foam										
Dimer	nsions (HX	XWXD)		mm	278×81	278×810×551 306×879×800 338×973×832 387×1,111×832 387×1,111×1,214 785×1,619×8						785×1,619×832	785×1,619×1,214		
Machi	ne Weight	it		kg	2	24 32 45 55 67 129 157									
Heat E	Exchange	System					Air to air cros	ss flow total he	eat (Sensible h	eat + latent hea	at) exchange				
Heat E	Exchange	Elemen	t Mate	rial	Specially processed nonflammable paper										
Air Filt	ter							Multidire	ectional fibrous	fleeces					
	Туре								Sirocco fan						
	Airflow R		Ultra-High		150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000		
	(50/60 Hz		High	m³/h	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000		
Fan			Low		100/95	155/155	230/230	320/295	500/470	700/670	860/840	1,320/1,260	1,720/1,580		
	External	Static	Ultra-High		120/154	70/96	169/222	105/150	85/125	133/170	168/192	112/150	116/140		
	Pressure		High	Pa	106/131	54/65	141/145	66/52	53/67	92/85	110/86	73/72	58/32		
	(50/60 Hz)		Low		56/60	24/20	67/30	32/18	35/38	72/61	85/60	56/50	45/45		
	Motor Ou	utput		kW	0.03	0×2	0.09	0×2	0.140×2	0.28	80×2	0.28	80×4		
Conne	ection Duc	ct Diame	ter	mm	φ100	φ.	150	φ2	200	φ2	250	ϕ	350		
Unit a	mbient co	ndition				-15°C – 50°C DB, 80%RH or less									

- Note: 1. Sound level is measured at 1.5m below the centre of the body.
 - Airflow rate can be changed over to Low mode or High mode.
 Sound level is measured in an anechoic chamber.
 - Sound level generally becomes greater than this value depending on the operating conditions, reflected sound, and peripheral noise.
 - The sound level at the air discharge port is about 8 dB(A) higher than the unit's sound level.
 The specifications, designs and information given here are subject to change
 - 5. The specifications, designs and information given here are subject to change without notice.
 6. Temperature Exchange Efficiency is the mean value between cooling and heating.
 - Efficiency is measured under the following conditions:
 Ratio of rated external static pressure has been maintained as follows; outdoor side to indoor side = 7 to 1.
 - 8. In conformance with JIS standards (JIS B 8628), operating sound level is based on the value when one unit is operated, with the value converted for an anechoic chamber. This is transmission sound from the main unit, and does not include sound from the discharge grille. Thus it is normal for the sound to be louder than the indicated value when the unit is cathelly installed.
 - indicated value when the unit is actually installed.

 9. Sound level from the discharge port causes the value to be approximately 8 dB(A) (models with the airflow rate of less than 150 to 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 2000m³h models), if the supply air (SA) grille is installed near the main unit, the noise of the main unit may be heard from the discharge grille via the duct, and this will result in a marked increase in noise. In such cases, if peripheral effects are included (such as reverberation of the floor and walls, combination with other equipment, and background noise), sound level may be as much as 15 dB(A) higher than the indicated value. When installing a large model, please provide as much separation as possible between the main unit and the discharge grille. If the equipment and discharge grille are near each other, please consider countermeasures such as the following:

 Use a sound-muffling box, flexible duct and sound-muffling air supply/discharge
- grilles

 Decentralised installation of discharge grilles

 1. When installing in a location with particularly low background noise such as a classroom, please consider the following measures to avoid transmission sound
- 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.
- insulating materials around the bottom of the sound source.

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

■ PM2.5 Filtration Unit

	MODELS		BAF249A150	BAF249A300	BAF249A350	BAF249A500		
Heat Reclaim V	entilator Models		VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE		
Dimensions (H	\times W \times D)	mm	220 x 603 x 366	220 x 603 x 366	300 x 623 x 366	300 x 623 x 366		
Connection Duc	Connection Duct Diameter			Ø150	Ø150 Ø150			
Airflow Rate	Airflow Rate			250	350	500		
	Initial Pressure Drop	Pa	34	30	31	42		
PM2.5 Filter	Filter Lifetime ¹		1 year					
	Filtration Efficiency ²		99% or higher					
	Filter Material No. 3		BAF24	4A300	BAF244A500			

Notes: 1. Annual usage: 400 hrs/month x 12 months = 4,800 hrs

- 2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more; 90% or higher removal rate of ultra-fine particles with diameters of 0.5 μm.
- 3. Filters come with applicable filtration units with a one-year life. They can be purchased and replaced according to their model numbers.

■ PM2.5 with Activated Carbon Filtration Unit

	MODELS		BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C		
Heat Reclaim Ve	entilator Models		VAM150GJVE VAM250GJVE		VAM350GJVE	VAM500GJVE		
Dimensions (H >	(W × D)	mm	220×603×366	220×603×366	300×623×366	300×623×366		
Connection Duc	Connection Duct Diameter			Ø150	Ø150	Ø200		
Airflow Rate	Airflow Rate			250	350	500		
	Initial Pressure Drop	Pa	34	30	31	42		
PM2.5 Filter	Filter Lifetime 1		1 year					
PIVIZ.5 FIILEI	Filtration Efficiency ²		99% or higher					
	Filter Material No. 3		BAF24	4A300	BAF244A500			
	Initial Pressure Drop	Pa	3	5	5	9		
Activated Carbon Filter	Filter Lifetime	1 year						
Carbon Filler	Filter Material No. 3		BAF24	4A300C	BAF244A500C			
Total Initial Pressure Drop for PM2.5 with Activated Carbon Filtration Unit			37	35	36	51		

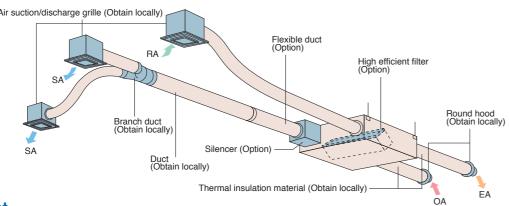
Notes: 1. Annual usage: 400 hrs / month x 12 months = 4,800 hrs.

- 2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μ m or more; 90% or higher removal rate of ultra-fine particles with diameters of 0.5 μ m.
- 3. Filters come with applicable filtration units with a one-year life. They can be purchased and replaced according to their model numbers.

171 IV W SERIES

Air Treatment Equipment Lineup

Options



Option List

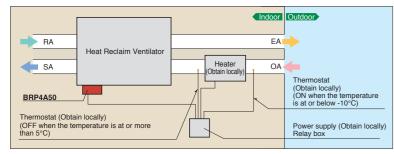
Ite	Item Type					VAM150 · 250 · 350 · 500 · 650 · 800 · 1000 · 1500 · 2000 GJVE										
	Heat Reclaim Ventilator remote controller					BRC301B61										
		dualia a d	Reside	ntial central remote controller	DCS303A51 ⁻¹											
		ntralised trolling	Centr	al remote controller					D(CS302CA	61					
	dev		Unifie	ed ON/OFF controller					D	CS301BA	61					
Ф			Sche	edule timer		DST301BA61										
device		Wiring		otor for electrical		KRP2A61										
	ptor	For hu	midif	ier	KRP50-2											
늘	dal	Installa	ation	box for adaptor PCB	KRP50-2A90 (Mounted electric component assy of Heat Reclaim Ventilator)											
날	¥	For he	ater	control kit	BRP4A50											
Controlling	PC Board	For wir	ring	Type (indoor unit of <i>VRV</i>)	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	
					KRP1C63★	KRP1BA57★	KRP1C67	KRP1B61★	KRP1B61	KRP1B56★	KRP1C64★	KRP1B61	KRP1BA54	_	KRP1B61	
	Installation box for adaptor PCB☆			Notes 2, 3 KRP1H98A	Note 4, 6 KRP1BA101	_	Notes 2, 3 KRP1B96		Notes 4, 6 KRP1BA101	Notes 2, 3 KRP4A96	_	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.
 - Only one installation box can be installed for each indoor unit.
 Up to 2 installation boxes can be installed for each indoor unit.
- 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		Туре	VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE	
اھ ر	Silencer			_		KDDM24B50	KDDM24B100			KDDM24B100×2		
lei ja		Nominal pipe diameter mm		_		φ2	00		φ2	50		
Additional function	High efficiency filter			KAF242H25M		KAF242H50M		KAF242H80M	KAF242H100M	KAF242H80MX2	KAF242H100MX2	
Ad	Air filter for	replacement	KAF24	1G25M	G25M KAF24		KAF241G65M	KAF241G80M	KAF241G100M	KAF241G80MX2	KAF241G100MX2	
Flexibl	e duct (1 m)		K-FDS101D K-FDS151D			K-FDS	S201D	K-FDS251D				
Flexible	Flexible duct (2 m)			K-FDS102D K-FDS152D			S202D		K-FDS	S252D		
Duct a	Duct adaptor			_							YDFA25A1	
Ducta	ααριοι	Nominal pipe diameter mm				_			φ 2:	50		
CO ₂ se	CO ₂ sensor			-	BRYMA65			BRYN	1A100	BRYMA65	BRYMA100	

PC board adaptor for heater control kit (BRP4A50)

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



Notes when installing

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