DAIKIN

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.

● Specifications, designs and other content appearing in this brochure are current as of October 2015 but subject to change without notice.

DAIKIN

PCVHK1539

VRV IV

HEAT RECOVERY

Heat Recovery 50 Hz

R-410A

Next Generation VRV IV System

VRV IV

*First launched in Japan in 1982, the Daikin **VRV** system has been embraced by world markets for over 30 years. Now, Daikin proudly introduces the next generation **VRV IV** system.*
It now offers an enhanced lineup to meet an ever wider variety of needs while improving energy savings, comfort, and ease of installation.

Enhanced lineup
2 types up to 60 HP

Energy saving
Higher COP and VRT technology

Ease of installation
Compact & lightweight design

Comfort
Lower operation sound

* *VRV* is a trademark of Daikin Industries, Ltd.

INDEX

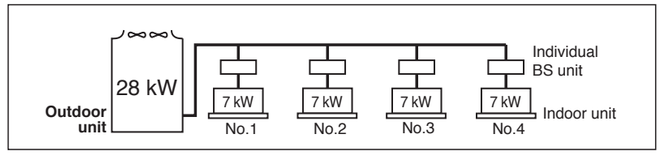
Main Features P03
Outdoor Unit Lineup P19
Indoor Unit Lineup P20
Specifications P39
Option List P52
Control Systems P57
Air Treatment Equipment Lineup P69

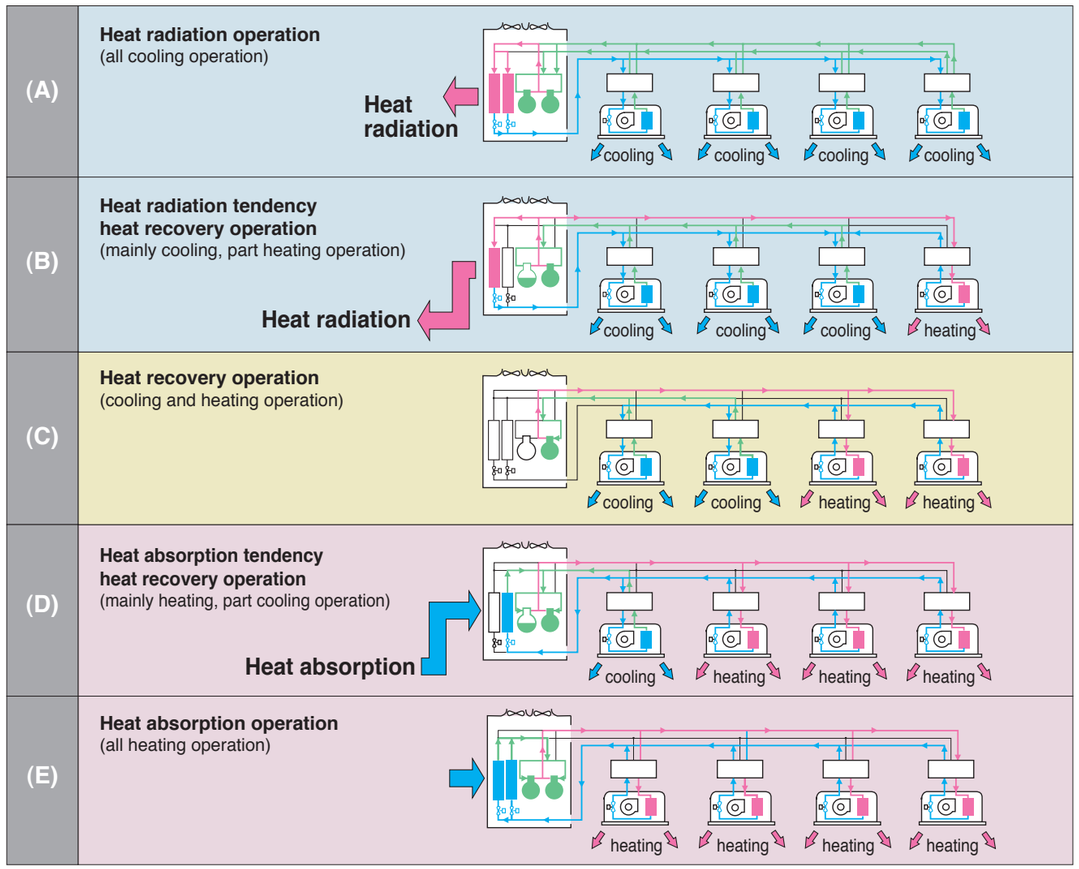
What is Heat Recovery Air Conditioner?

Modern office buildings are highly airtight and subject to an increasing heat load due to the use of computers, lighting equipment and other office equipment. In these buildings some rooms may require artificial cooling even in winter, depending on the amount of sunshine received and the number of people in the room. In order to meet such requirements the Heat Recovery Series enables the simultaneous operation of cooling and heating by controlling the BS unit that switches cooling and heating. This series also substantially improves energy efficiency by recycling waste heat.

Operation mode

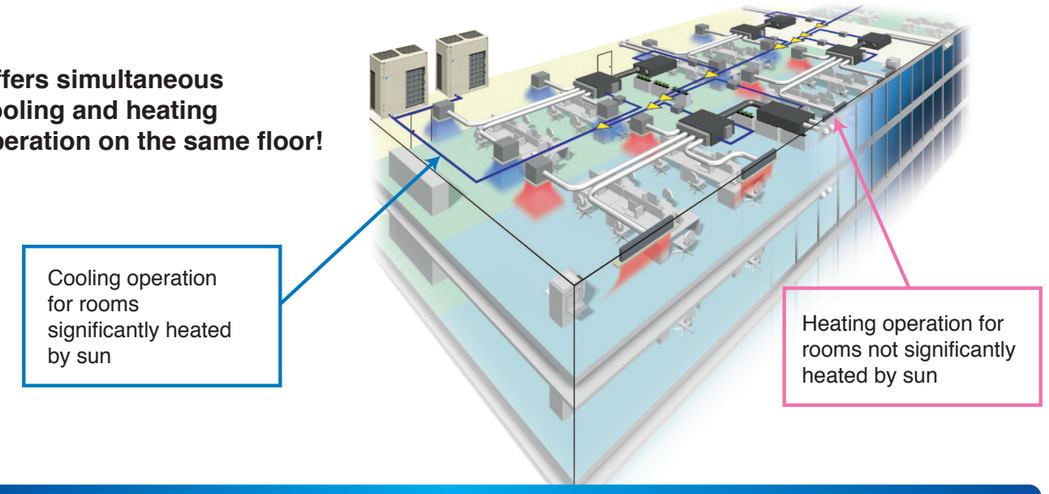
Heat recovery operation mode



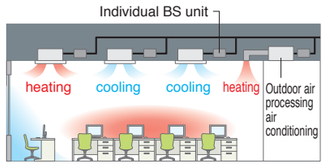


Note: Operation modes (A) and (E) are applicable when the outdoor temperature is 35°C and 7°C respectively; The other modes are applicable under typical outdoor conditions.

Offers simultaneous cooling and heating operation on the same floor!

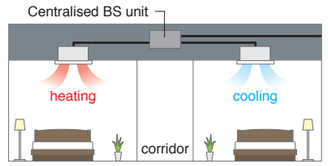


Increasing demand for simultaneous cooling and heating needs



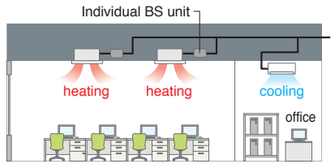
Winter season (Office Building)

- Difference between the load of cold air and heat from room is large
- Can 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

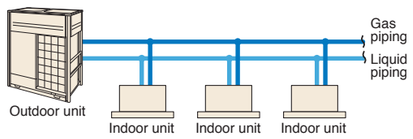
BS unit (Individual type/Centralised type)

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

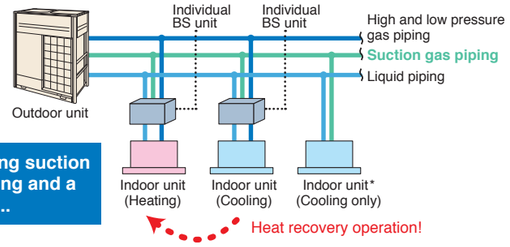
Centralised BS unit

Heat pump



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

Heat recovery



By adding suction gas piping and a BS unit...

Excellent Operational Performance

Enhanced Lineup

2 types up to 60 HP

With its enhanced lineup of 2 types-High-COP and Standard types, ***VRV* IV** Heat Recovery series outdoor units offer a higher capacity up to 60 HP (168 kW) to meet an ever wider variety of needs.

● **Single Outdoor Unit**

***VRV* III**

8, 10, 12, 14, 16 HP

Up to 16 HP

***VRV* IV**

8, 10, 12 HP　　14, 16, 18, 20 HP

Up to 20 HP

● **Multiple Outdoor Units**

***VRV* III**

Up to 48 HP

1 type only

***VRV* IV**

Up to 60 HP

2 types of High-COP type and Standard type

Lineup

Mo/C　New Lineup

HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
High-COP Type					●	●	●		●	●	●	●	●														
Standard Type	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Ease of installation

Compact & lightweight design

Highly-integrated ***VRV* IV** system offers compact outdoor units to achieve maximum utilisation of the installation space.

***VRV* III**
12 HP(33.5 kW)

***VRV* IV**
12 HP(33.5 kW)

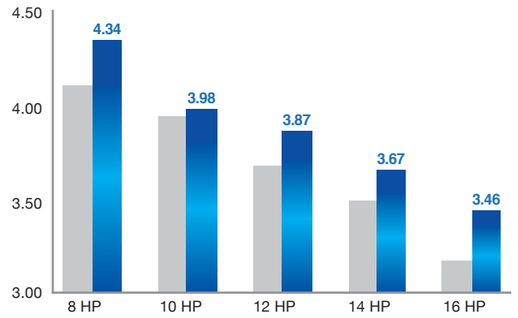
	***VRV* III** 12 HP (33.5 kW)	***VRV* IV** 12 HP (33.5 kW)	
Installation Space	0.99 m²	0.71 m²	28% Decrease
Product Weight	331 kg	230 kg	30% Decrease

Energy saving

Higher Coefficient of Performance (COP)

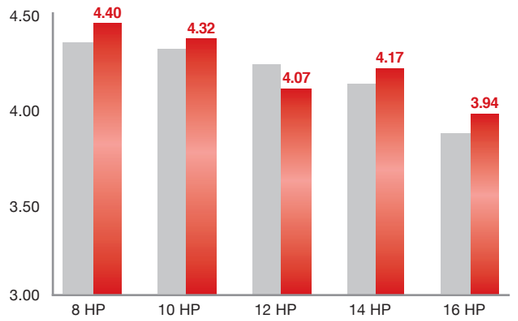
It has become essential for air conditioning manufacturers to develop systems that provide high energy savings. We at Daikin have made great efforts in this field, and the ***VRV* IV** system delivers highly efficient performance, contributing to high energy savings.

Cooling Operation COP



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

Heating Operation COP



*Heating operation conditions:
Indoor temp. of 20°CDB,
and outdoor temp. of 7°CDB, 6°CWB.

Excellent Operational Performance

VRV IV

Comfort

Lower operation sound

Improve heat exchanger efficency, helps to reduced operation sound.

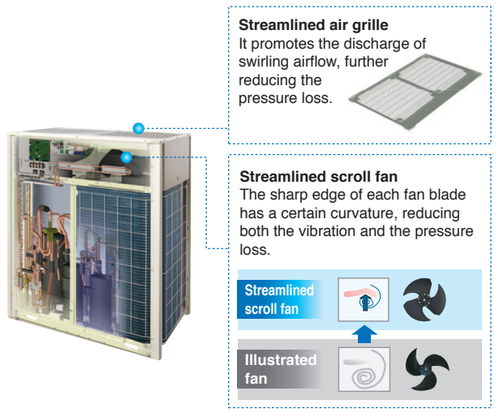
Sound level(dB(A))

	8 HP	10 HP	12 HP	14 HP	16 HP
VRV III	58	58	60	62	63
VRV IV	56	57	59	60	61

1-2 dB(A) reduction than conventional model

Large airflow, high static pressure and quiet technology

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



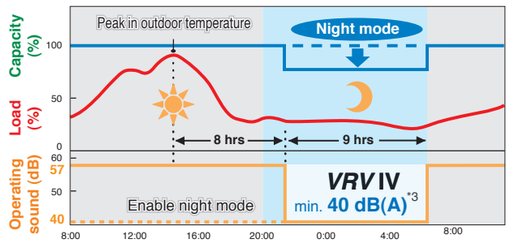
Streamlined air grille
It promotes the discharge of swirling airflow, further reducing the pressure loss.

Streamlined scroll fan
The sharp edge of each fan blade has a certain curvature, reducing both the vibration and the pressure loss.

Nighttime quiet operation function

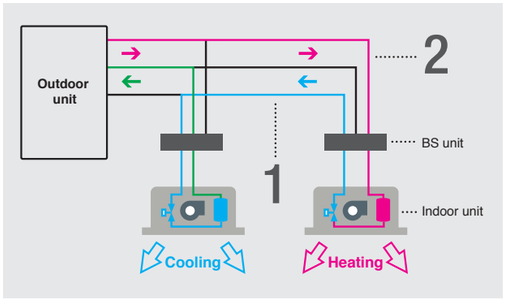
Outdoor PCB automatically memorises the time when the peak outdoor temperature appears. It will enable quiet operation mode after 8 h*1, and return to normal mode after it keeps for 9 h*2.

*1. 8 h is the initial setting with 6 h or 10 h also available.
*2. 9 h is the initial setting with 8 h or 10 h also available.
*3. In case of 10 HP outdoor unit during cooling operation.



Notes: · This function is available in setting at site.
· The operating sound in quiet operation mode is the actual value measured by our company.
· The relationship of outdoor temperature (load) and time shown above is just an example.

The heat recovery system utilises waste heat, achieving outstanding energy conservation performance.



1 The (cold) waste heat from heating is used for the cooling operation.

2 The waste heat from cooling is used to generate heat that is needed for heating operation while conserving electricity.

The flexibility of simultaneous cooling and heating operation has been further enhanced by various advanced technologies.

Development of a highly efficient heat exchanger utilising of a two-split structure

In a conventional system, two heat exchanger panels are utilised: one is used as an evaporator; while the other is used as a condenser. In the newly developed system, a two-split structure is utilised, with one panel split into two parts (top and bottom) at an optimal ratio depending on the capacity required for simultaneous cooling and heating operation. Heat radiation loss has been minimised, and the heat recovery efficiency and partial load characteristics have been improved.

■Comparison of 12 HP system (During simultaneous cooling and heating operation)

Conventional model (VRV III)

Two heat exchanger panels are used. Heat radiation loss from the condenser is high.

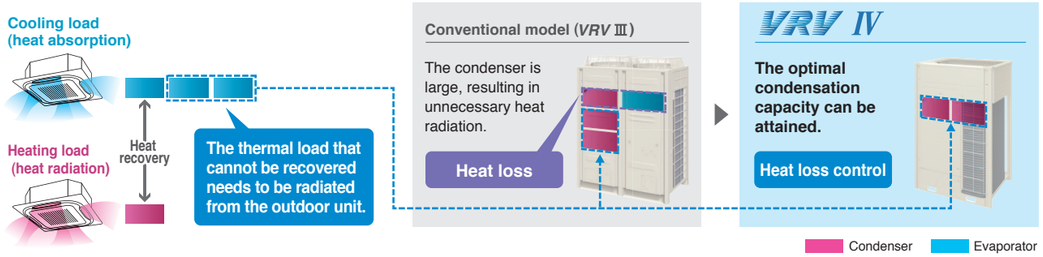
VRV IV

The heat exchanger panel utilises a two-split structure (top and bottom), achieving higher heat recovery efficiency than the conventional model.

The size has been reduced by using four heat exchanger panels.

Indoor and outdoor heat balance (conceptual image)

[Indoor unit side] [Outdoor unit]



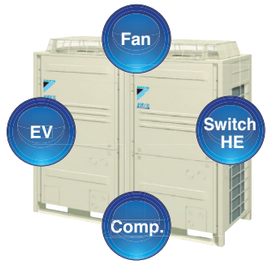
Heat Recovery Link control to reduce the heat loss

Heat loss is minimised by interlocking the heat exchanger switching, motor-operated valves, compressors, and fans, which are conventionally controlled independently during simultaneous cooling and heating operation, leading to a significant increase in efficiency.

VRV III

Refrigerant circuit is balanced based on the independent control of each elements

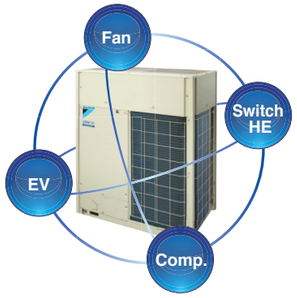
⇒ occurred heat loss



VRV IV

Interlocking operation with each elements in order to reduce energy

⇒ Improvement of Heat recovery



State-of-the-art energy saving technology

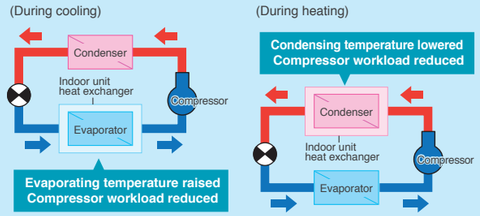
Customise your *VRV* system for optimal annual efficiency

The new ***VRV* IV** system 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.

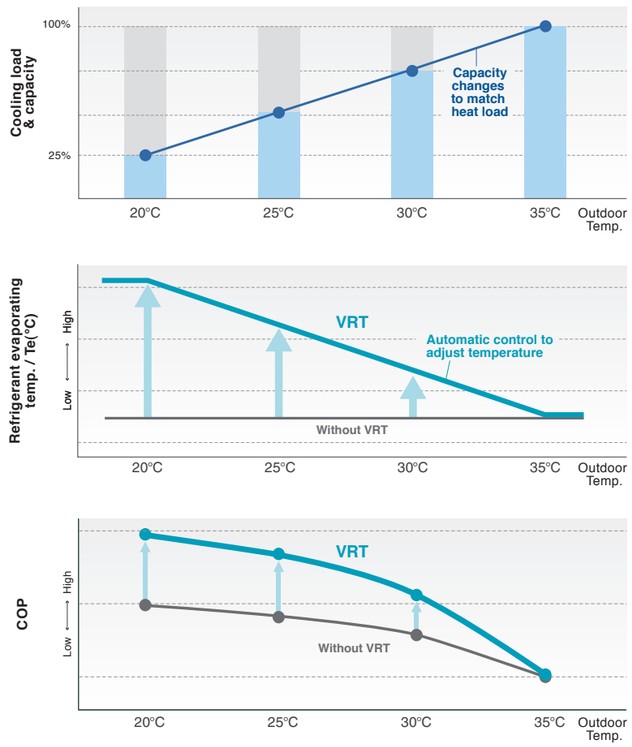
How is energy reduced?

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 comsumption.

■ **Refrigerant cycle**



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



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

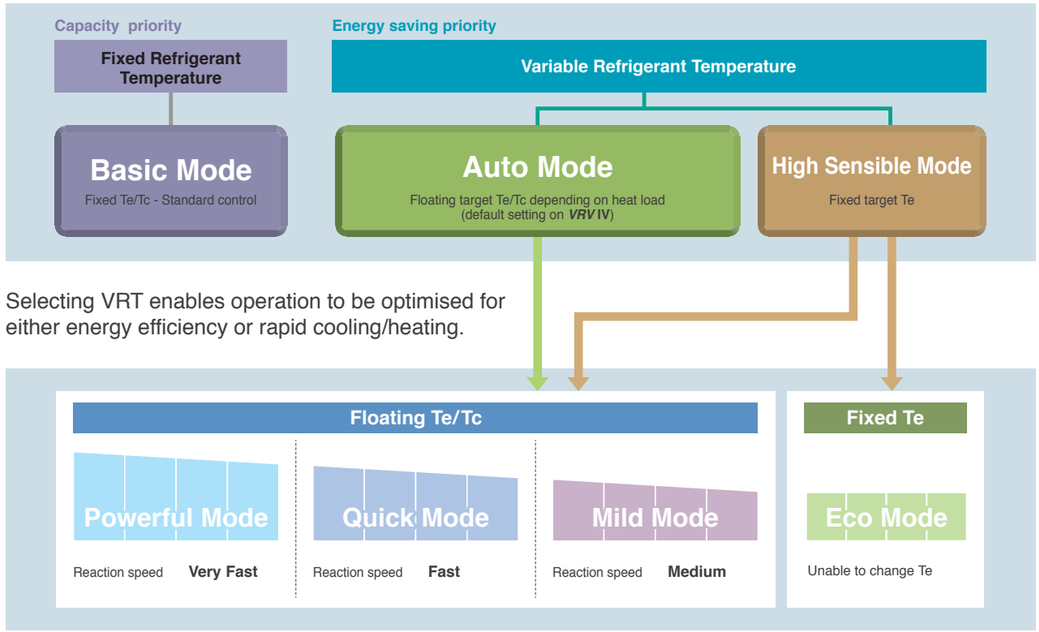
In case of fixed evaporating temperature, excessive cooling, thermo on-off loss, and other inefficiencies occur.

Automatic control adjusts evaporating temperature to heat load change.

Energy efficiency is improved without sacrificing comfort.

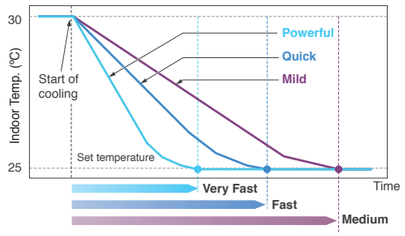
Fine control to match user preference available through mode selection

Basic mode is selected to maintain optimal comfort.
VRT is selected to save energy and prevent excessive cooling or heating.



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

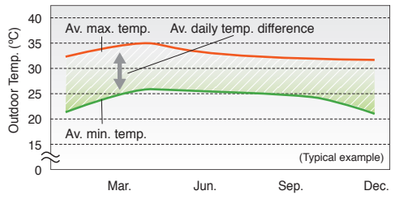
VRT offers quicker cool down to shorten uncomfortable pull down time.



Powerful mode	• **Can boost capacity above 100% if needed.** The refrigerant temperature can go lower in cooling (higher in heating) than the set minimum (maximum in heating). • **Gives priority to very fast reaction speed.** The refrigerant temperature goes down (or up in heating) fast to keep the room setpoint stable.
Quick mode	• **Gives priority to fast reaction speed.** The refrigerant temperature goes down (or up in heating) fast to keep the room setpoint stable.
Mild mode	• **Gives priority to efficiency.** The refrigerant temperature goes down (or up in heating) gradually giving priority to the efficiency of the system instead of the reaction speed.

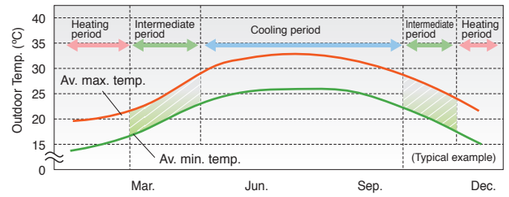
Recommended for use in these situations

■ **Cooling only regions having differences in daily temperature.**



VRT is particularly effective at night when temperatures are low.

■ **Cooling/heating regions having periods of mild outdoor temperatures.**



VRT is particularly effective during the intermediate periods.

Enhanced Lineup of BS Units

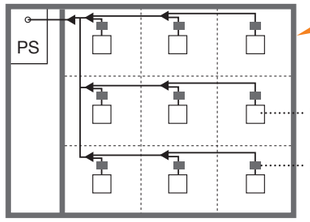
Individual and centralised BS unit allow greater design flexibility.

Individual BS unit

New

BSQ100AV1
BSQ160AV1
BSQ250AV1

- Compact and flexible installation
- Flexible design
- Low noise

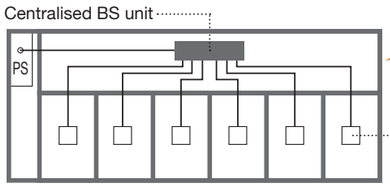


Recommended for large spaces or areas subject to frequent layout change

Centralised BS unit

New

BS4Q14AV1
BS6Q14AV1
BS8Q14AV1
BS10Q14AV1
BS12Q14AV1
BS16Q14AV1



Recommended for areas which have many small rooms

- Enhanced Line up

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

- Compact and lightweight design

Compared to conventional BS unit (6 branch)

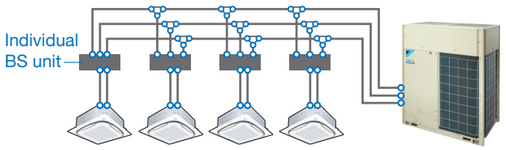
New BS unit size **reduced by 65%**

New BS unit weight **reduced by 73%**

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

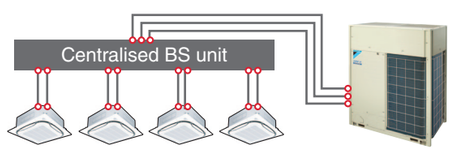
Individual BS unit

58 connecting point



Centralised BS unit

22 connecting point



*Centralised BS unit requires drain pipe

Greater design flexibility achieved by increasing the connection capacity range

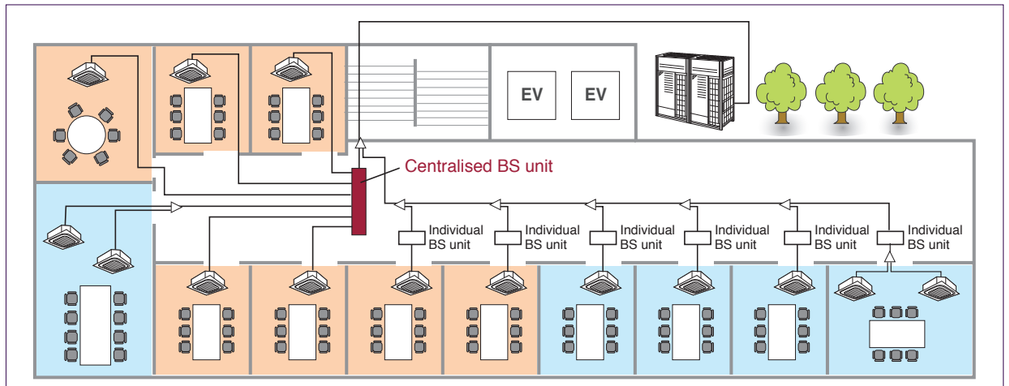
Centralised BS unit

Increased from
2.2–16.0 kW
(Up to 11.2 kW in the conventional system)

Centralised BS unit

By merging two branches
Adaptable up to
28.0 kW

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



Faster installation of centralised BS unit thanks to open connection

Cut and braze the pipe
(for indoor units bigger or equal to 7.1 kW (63 HP))

No need to cut the pipe before brazing
(for indoor units smaller or equal to 5.6 kW (50 HP))

Lower transient sound

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

Maximum transient sound		Centralised BS unit						Individual BS unit		
		4 branch	6 branch	8 branch	10 branch	12 branch	16 branch	100 type	160 type	250 type
New BS units	**Sound level (dB(A))***	**45**	**47**	**47**	**48**	**48**	**49**	**40**	**45**	**45**
Conventional BS units	Sound level (dB(A))*	51.5	53.5	—				45.5	46.5	47.5

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

More options for equipment placement

Long piping length

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

Max. actual piping length
165 m

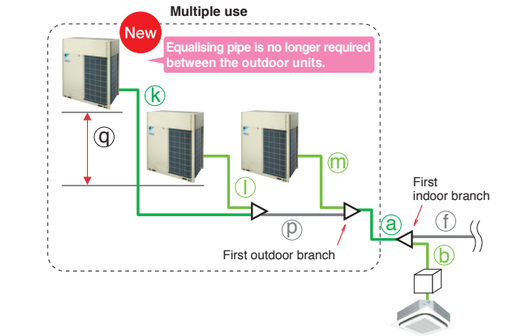
Max. equivalent piping length
190 m

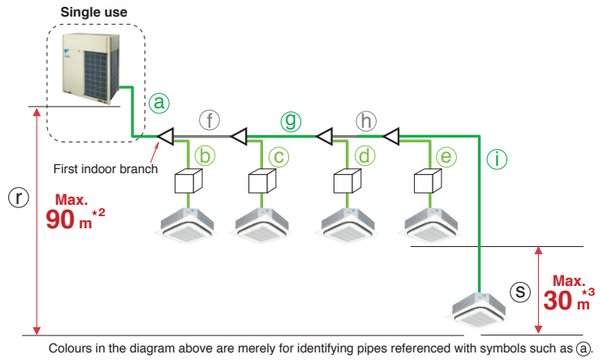
Max. total piping length
1000 m

Max. level difference between the outdoor units and the indoor units
90 m *2

Max. level difference between the indoor units
30 m *3

15 m higher than *VRV* III





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

			Actual piping length	Example	Equivalent piping length
Maximum allowable piping length	Refrigerant piping length		**165** m	a+f+g+h+i	**190** m
	Total piping length		**1000** m	a+b+c+d+e+f+g+h+i	—
	Between the first indoor branch and the farthest indoor unit		**90** m*1	f+g+h+i	—
	Between the outdoor branch and outdoor unit		**10** m	k+p,l,m	**13** m

			Level Difference	Example
Maximum allowable level difference	Between the outdoor units (Multiple use)		**5** m	q
	Between the indoor units		**30** m	s
	Between the outdoor units and the indoor units	If the outdoor unit is above.	**90** m*2	r
		If the outdoor unit is below.	**90** m*2	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.
*2. When level differences above 50 m if the outdoor unit is above the indoor unit and 40 m if the outdoor unit is below the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.
*3. When level differences are 15 m or more, maximum actual piping length must be 120 m.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

Connection ratio =

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

Conditions of *VRV* indoor unit connection capacity

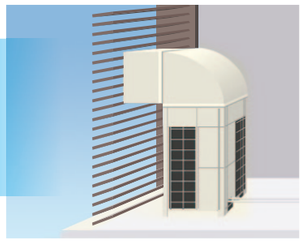
Applicable *VRV* indoor units	FXDQ, FXSQ, FXMQ-P, FXAQ models	Other *VRV* indoor unit models*1
Single outdoor units	200%	**200%**
Double outdoor units		**160%**
Triple outdoor units		**130%**

*1 For the FXFQ25P and FXFQ-S models, maximum connection ratio is 130% for the entire range of outdoor units.
Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.
*Refer to page 49 for outdoor unit combination details.

High external static pressure

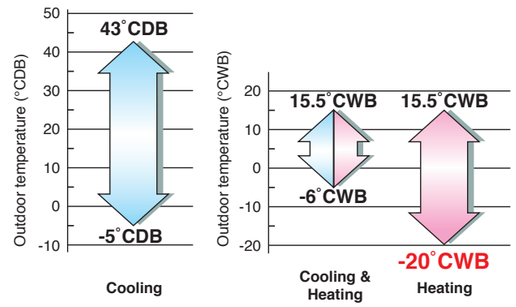
***VRV* IV** outdoor unit has been achieved high external static pressure up to 78.4 Pa, ensuring the efficient heat dissipation and stable operation of equipment in either hierarchical or intensive arrangement.

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



Wide operation temperature range

The versatile operation range of the ***VRV* IV** system works to reduce limitations on installation locations. The operation temperature range for heating goes all the way down to -20˚C, while cooling can be performed with outdoor temperatures as high as 43˚C. Both these achievements are due to the employment of a high-pressure dome-type compressor.



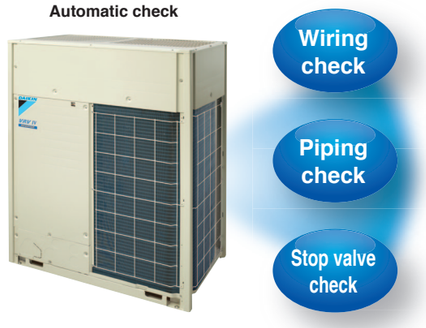
Reliable and Stable System

Multiple advanced features ensuring more accurate test operation and stable system

Efficient automatic test operation

Daikin ***VRV* IV** system incorporates a simplified and efficient test operation function, not only greatly accelerating the installation process, but effectively improving the field setting quality as well.

- Automatically checks the wirings between outdoor units and indoor units to confirm whether there is a defective wiring.
- Optimises operations to suit field piping lengths.
- Automatically check whether the stop valve in each outdoor unit is in normal status to ensure the smooth operation of air conditioning system.



Simplified commissioning and after-sales service

Function of information display by luminous digital tube

***VRV* IV** system 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.

7-segment digital display	Conventional LED display
Displays system operation information directly 	Figures out system operation information by reading light emitting state of different diodes, which is both inefficient and fallible. 

Compliant with the RoHS Directive*

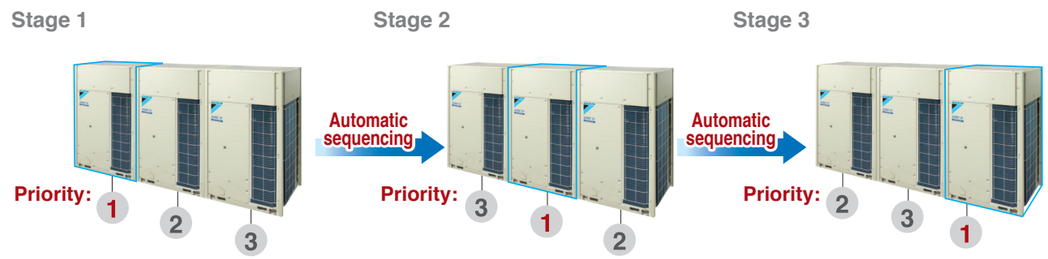
We have been making efforts to facilitate the transition to using RoHS Directive*-compliant materials for system parts.

* RoHS Directive
The RoHS (Restriction of Hazardous Substances (in electrical and electronic equipment)) Directive is an environmental directive enacted to regulate the use of designated chemical substances (lead, cadmium, hexavalent chromium, mercury, polybrominated biphenyls and polybrominated diphenylether) in electrical equipment. All household products subject to this Directive and sold in Europe from July 1, 2006 are legally bound to comply with the RoHS Directive.

Outdoor unit sequencing technology

Automatic sequencing operation

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



Double backup operation functions responding resiliently to various unexpected situations

Double backup operation functions

Daikin ***VRV* IV** system boasts double backup operation functions, which can secure the use of air conditioners in this area to the greatest extent by emergently enabling double backup operation functions even if failure occurs in a set of air conditioning equipment.
In the event of a failure, emergency operation can be conveniently enabled to allow the remaining system to operate in a limited fashion.

Unit backup operation function

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

Compressor backup operation function

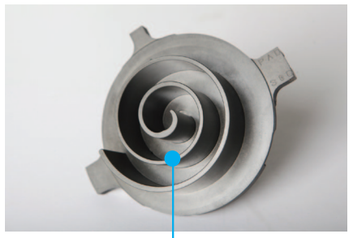
If malfunction occurs in a compressor...
Emergency operation can be easily set and enabled by the outdoor unit (for a single outdoor unit system REYQ14-20TY1 models).

Large capacity all DC inverter compressor in compact casing

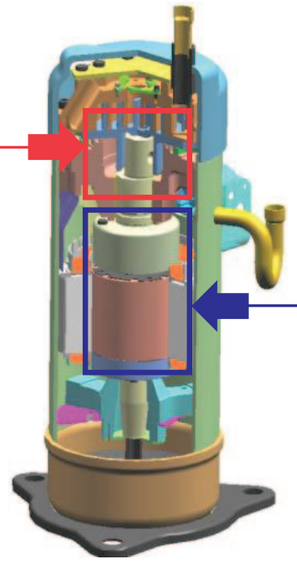
Large capacity inverter compressor using high tension strength material, resulting in 12 HP (33.5 kW) compressor utilising an 8 HP (22.4 kW) casing.

Development of high strength material

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



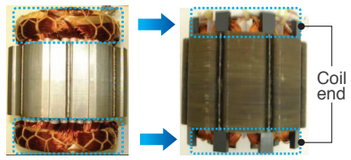
As a result of having thinned wall - thickness of the scroll, compression chamber volume increase 50%



Compact high efficiency concentrated winding motor

Distributed winding motor (Current 8 HP(22.4 kW) compressor)

Concentrated winding motor (New 12 HP(33.5kW) compressor)



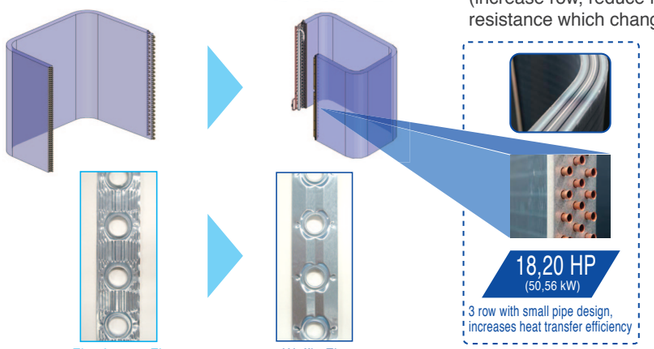
Small sizing coil end using concentrated winding, reduce copper loss (winding resistance).

Improve motor efficiency in low rpm range (improve intermediate efficiency).

Highly integrated heat exchanger

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

VRV III → VRV IV



Fine Louvre Fin → Waffle Fin

Change fin shape from fine louvre to waffle fin.
Fin pitch can be reduced fin pitch from 2.0 mm to 1.4 mm, to realise unit efficiency which increased heat exchanger area.

Realise highly integrated heat exchanger performance (increase row, reduce fin pitch) by reducing of airflow resistance which changes cooling tube to Ø7.

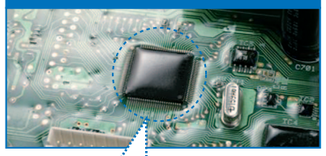
	Heat exchanger area	Contribution of COP (cooling)
16 HP (45 kW)	24%UP	108.5%

Various advanced control main PC board

SMT* packaging technology

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

Computer control board surface adopting SMT packaging technology



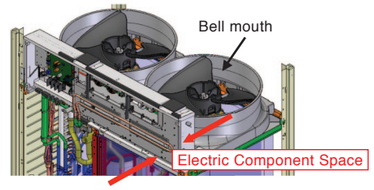
Conventional computer control board surface

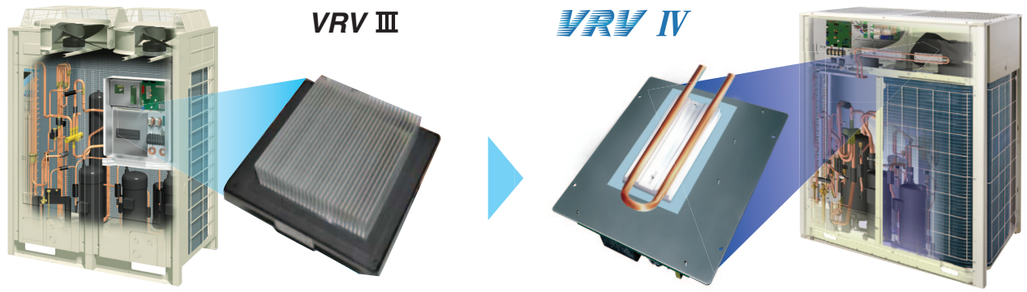
*SMT: Surface mounted technology

Refrigerant cooling technology, ensures stability of PCB temperature

Improved inner design to increase smooth airflow

Downsize electric component, re-locate to dead space of bell mouth side to decrease airflow resistance.





Roof terrace temperature in summer is over 40 °C, seriously affecting inverter cooling efficiency, resulting in decline of inverter operating speed. Finally device parts response speed is reduced.

Control board failure ratio at stable operation is reduced.

Improve reliability at high ambient temperature
It is possible to cool the inverter power module stability even at high ambient temperature. This helps to keep air-conditioning capacity and also reduces failure ratio.

Outdoor Units - Heat Recovery

Enhanced lineup of 2 types with maximum capacity of 60 HP (168 kW).

- With its enhanced lineup of 2 types, *VRV* IV Heat Recovery series outdoor units offer a higher capacity up to 60 HP (168 kW) to meet an ever wider variety of needs.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system design flexibility to a new level.
- Outdoor units with anti-corrosion specifications (-E type on request) are designed specifically for use in areas which are subject to salt damage and atmospheric pollution.

High-COP Type

●Double Outdoor Units

16, 18, 20 HP

REYQ16THY1(E)
REYQ18THY1(E)
REYQ20THY1(E)

●Triple Outdoor Units

24, 26, 28, 30, 32 HP

REYQ24THY1(E)
REYQ26THY1(E)
REYQ28THY1(E)

REYQ30THY1(E)
REYQ32THY1(E)

Standard Type

●Single Outdoor Units

8, 10, 12 HP

REYQ8TY1(E)
REYQ10TY1(E)
REYQ12TY1(E)

14, 16, 18, 20 HP

REYQ14TY1(E) REYQ18TY1(E)
REYQ16TY1(E) REYQ20TY1(E)

●Double Outdoor Units

22, 24 HP

REYQ22TY1(E)
REYQ24TY1(E)

26, 28, 30 HP

REYQ26TY1(E)
REYQ28TY1(E)
REYQ30TY1(E)

32, 34, 36 HP

REYQ32TY1(E)
REYQ34TY1(E)
REYQ36TY1(E)

●Triple Outdoor Units

38, 40 HP

REYQ38TY1(E)
REYQ40TY1(E)

42, 44 HP

REYQ42TY1(E)
REYQ44TY1(E)

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

REYQ46TY1(E) REYQ52TY1(E) REYQ58TY1(E)
REYQ48TY1(E) REYQ54TY1(E) REYQ60TY1(E)
REYQ50TY1(E) REYQ56TY1(E)

Lineup

Mo/C New Lineup

HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
High-COP Type					●	●	●		●	●	●	●	●														
Standard Type	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

*Refer to page 50 for combination details.

Indoor Units

Wide range of indoor units includes 17 types and 90 models

Daikin's indoor unit system offers a large number of connectable indoor units-64! Furthermore, our wide range of indoor units includes 17 types and 90 models to meet the needs of customers.

17 types 90 models

Type	Model Name		Capacity Range	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	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				●	●	●	●	●		●	●	●			
Ceiling Mounted Cassette (Round Flow)	FXFQ-LUV1				●	●	●	●	●		●	●	●			
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE			●	●	●	●	●								
4-Way Flow Ceiling Suspended	FXUQ-AVEB									●		●				
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE			●	●	●	●	●	●		●		●			
Ceiling Mounted Cassette Corner	FXKQ-MAVE				●	●	●		●							
Slim Ceiling Mounted Duct	FXDQ-PBVE (with drain pump)	 (700 mm width type)		●	●	●										
	FXDQ-PBVET (without drain pump)			●	●	●										
	FXDQ-NBVE (with drain pump)	 (900/1,100 mm width type)					●	●	●							
	FXDQ-NBVET (without drain pump)						●	●	●							
Middle Static Pressure Ceiling Mounted Duct	New FXSQ-PVE			New	New	New	New	New	New		New	New	New	New		
Ceiling Mounted Duct	FXMQ-PVE			●	●	●	●	●	●		●	●	●	●		
	FXMQ-MAVE														●	●
Ceiling Suspended	FXHQ-MAVE					●			●			●				
Wall Mounted	FXAQ-PVE			●	●	●	●	●	●							
Floor Standing	FXLQ-MAVE			●	●	●	●	●	●							
Concealed Floor Standing	FXNQ-MAVE			●	●	●	●	●	●							

Indoor Unit Lineup

Daikin offers a wide range of indoor units includes 17 types responding to variety of needs of our customers that require air-conditioning solutions.

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 living environment.

Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ-MVE

Quiet, compact, and designed for user comfort

4-Way Flow Ceiling Suspended Type

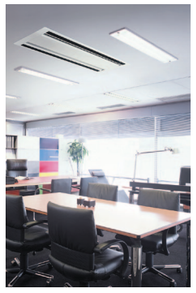
FXUQ-AVEB

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

Ceiling Mounted Cassette (Double Flow) Type

FXCQ-MVE

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



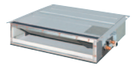
Ceiling Mounted Cassette Corner Type

FXKQ-MAVE

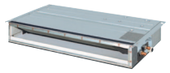
Slim design for flexible installation

Slim Ceiling Mounted Duct Type

FXDQ-PBVE(T)



FXDQ-NBVE(T)



Slim design, quietness and static pressure switching

Middle Static Pressure Ceiling Mounted Duct Type

New FXSQ-PVE

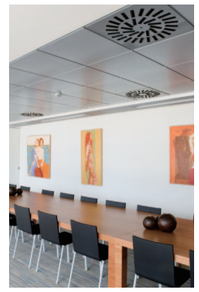
Middle external static pressure and slim design allow flexible installations

Ceiling Mounted Duct Type

FXMQ-PVE

FXMQ-MAVE

High external static pressure allows flexible installations



Ceiling Suspended Type

FXHQ-MAVE

Slim body with quiet and wide airflow

Wall Mounted Type

FXAQ-PVE

Stylish flat panel design harmonised with your interior décor

Floor Standing Type

FXLQ-MAVE

Suitable for perimeter zone air conditioning

Concealed Floor Standing Type

FXNQ-MAVE

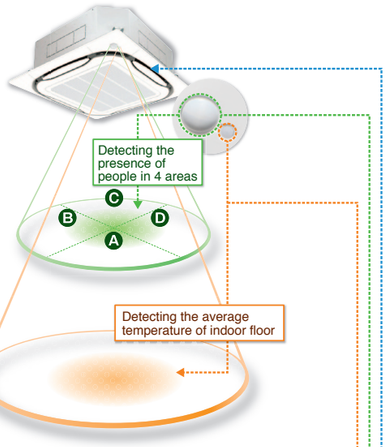
Designed to be concealed in the perimeter skirting-wall

Ceiling Mounted Cassette (Round Flow with Sensing) Type

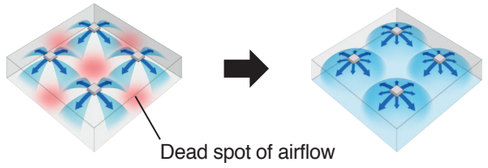
FXFQ25S / FXFQ32S / FXFQ40S
FXFQ50S / FXFQ63S / FXFQ80S
FXFQ100S / FXFQ125S

Round flow with sensing

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



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

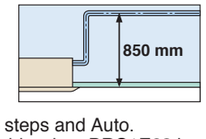


● Improved energy efficiency thanks to a new heat exchanger with smaller tubes, DC fan motor, and DC drain pump motor.

● Low operation sound level

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

● 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.)

Individual airflow direction control

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

*1. The infrared presence sensor detects 80 cm above the floor.

Infrared floor sensor

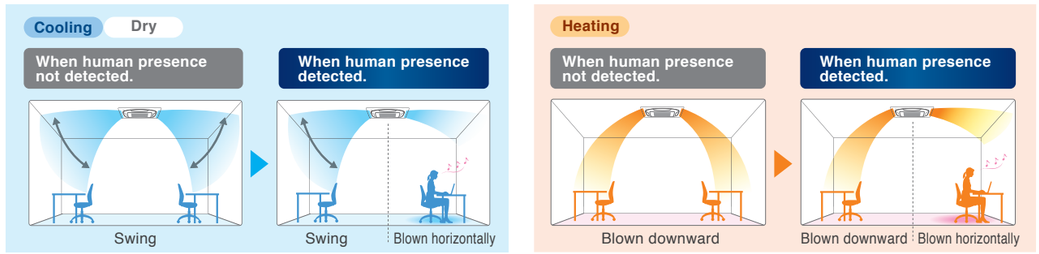
The sensor detects the floor temperature and automatically adjusts operation of the indoor unit to reduce the temperature difference between the ceiling and the floor.

Ceiling height	2.7m	3.5m	4.0m
Detection range (diameter)*2	approx. 11m	approx. 14m	approx. 16m

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

Sensing function

■ Draft prevention function (default: OFF) *1. 2 (Auto airflow direction mode)



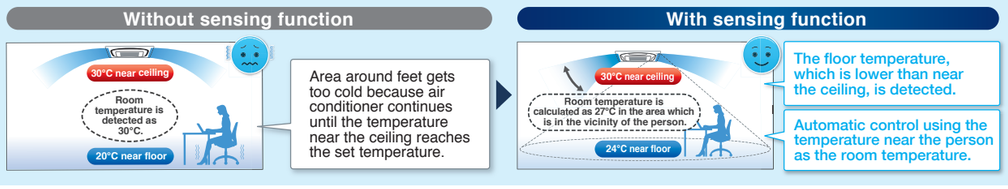
● With the Auto airflow direction mode, flaps are controlled to deliver optimal air distribution for both cooling and heating operations when there are no people.

● 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 shoud be set to Auto. *2.Draft prevention function is OFF in the initial setting. It can be set ON using the remote controller.

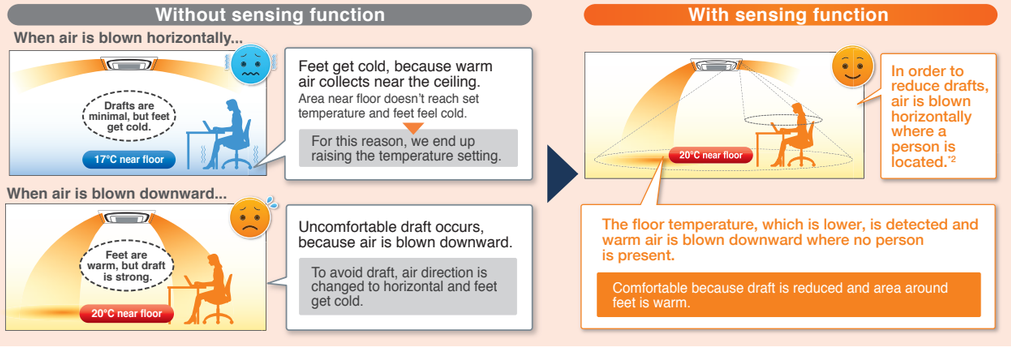
■ Comfort and Energy saving preventing over Cooling / Heating *1. 2 (Auto airflow direction mode + Auto airflow rate mode)

Cooling **Floor temperature is detected and over cooling prevented.**



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

Heating **Feet are kept warm and comfortable while reducing uncomfortable drafts.**



Energy savings 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 shoud be set to Auto. *2.Draft prevention function is set OFF in the initial setting.

Ceiling Mounted Cassette (Round Flow with Sensing) Type

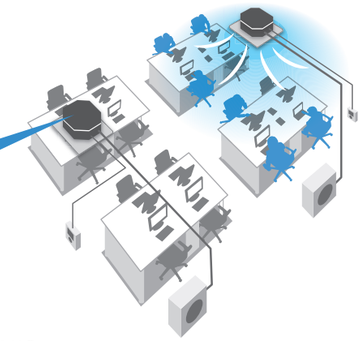
Sensing sensor mode*1, 2

■ **Sensing sensor low mode** (default: OFF)

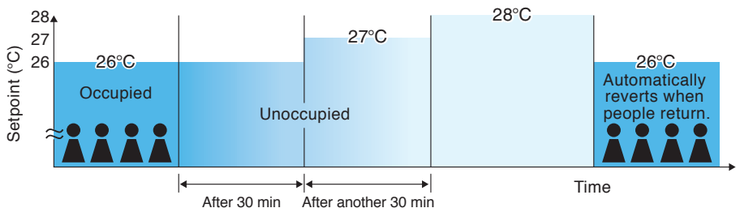
When there are no people in a room, the set temperature is shifted automatically.

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.

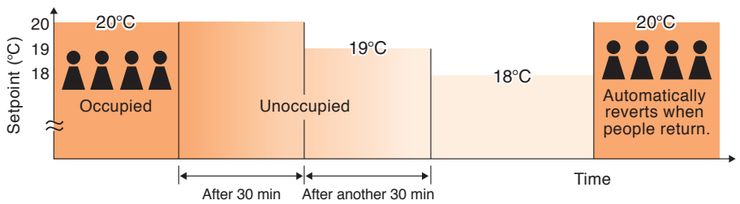


Example • Cooling setpoint: 26°C • Shift temperature: 1.0°C
• Shift time:30 min. • Limit cooling temperature:30°C



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

Example • Heating setpoint: 20°C • Shift temperature: 1.0°C
• Shift time: 30 min. • Limit heating temperature: 16°C



If people do not return, the air conditioner will lower the temperature 1°C every 30 minutes and then operate at 16°C.

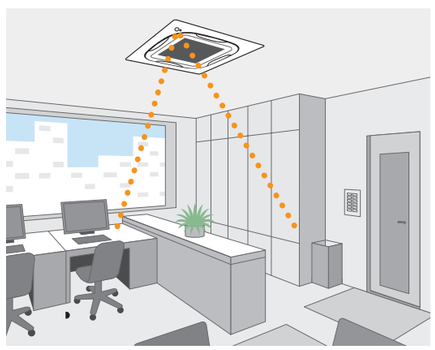
Shift temperature and time can be selected from 0.5 to 4°C in 0.5°C increments and 15, 30, 45, 60, 90 or 120 minutes respectively with remote controller.

■ **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.

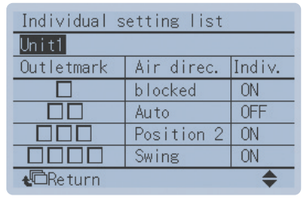


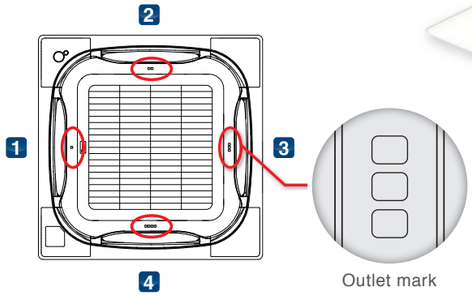
*1.These functions are not available when using the group control system.
*2.User can set these functions with remote controller.
*3.Please note that upon re-entering the room, air conditioner will not switch on automatically.

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.)



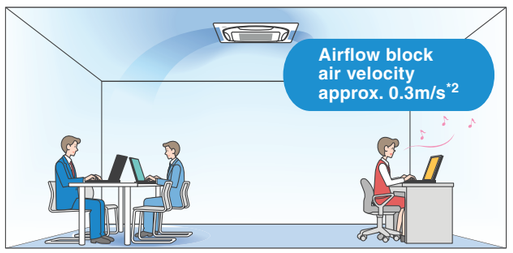


Outlet mark

■ **Airflow block function*1**

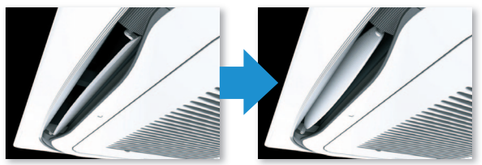
Total comfort by individual airflow direction control and "airflow block function"

- Airflow block function prevents uncomfortable drafts by reducing air velocity.
  It can be set using the BRC1E62 remote controller. There is no need for sealing material of air discharge outlet (option).
- This function only works when all-round flow is used. It cannot be used when sealing material is used in the air discharge outlet (option).



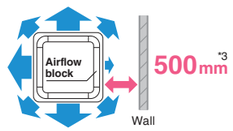
Airflow block function prevents uncomfortable drafts by reducing air velocity to approx. 0.3m/s.*2

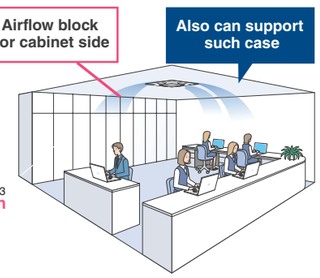
Easy setup with remote controller



Horizontal flow → Airflow block

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





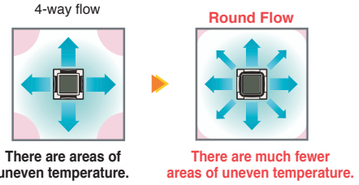
*1. Works in one direction only.
*2. In case of FXFQ63S type (Data is based on Daikin research.) When using FXFQ80S type or higher, if the airflow rate is set to High, airflow will be on the high side. Under actual conditions, however, the airflow value may differ depending on the effect of surrounding 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.

Ceiling Mounted Cassette (Round Flow) Type

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

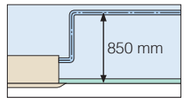
360° airflow improves temperature distribution and offers a comfortable living environment.

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

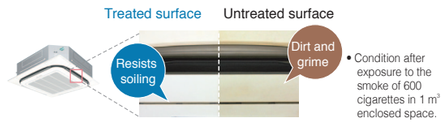


* As of April 2004, the release date for Japan.

- 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 lift.



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

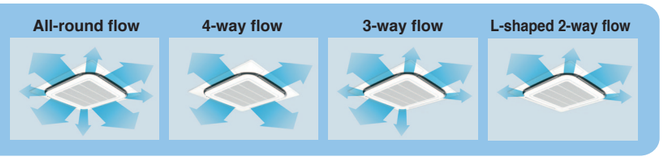


- Control of the airflow rate can be selected from 3-step control.
- Low operation sound level (dB(A))

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

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

- Example of airflow patterns:
  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 layout.



Note: Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing 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 × 600 mm architectural module ceiling design specifications.
- Low operation sound level

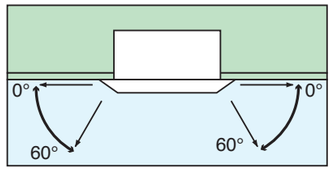
(230 V)(dB(A))

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

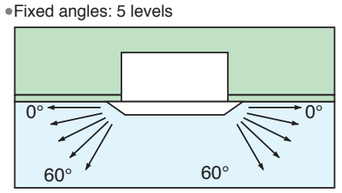
- Comfortable airflow

1 Wide discharge angle: 0° to 60°

- Auto swing

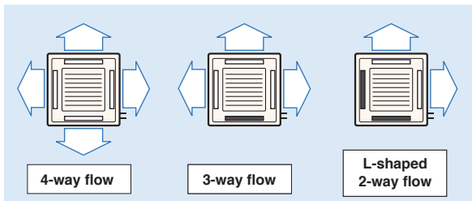


- Fixed angles: 5 levels



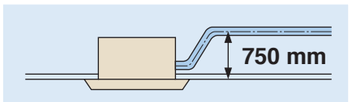
*Angles can be also set on site to prevent drafts (0°-35°) or soiling of the ceiling (25°-60°), other than standard setting (0°-60°).

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



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

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



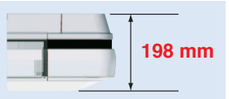
4-Way Flow Ceiling Suspended Type

FXUQ71A / FXUQ100A

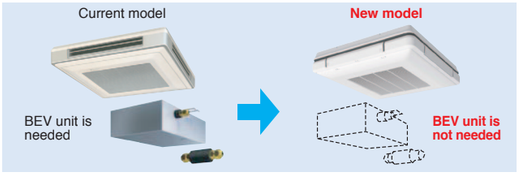
This slim and stylish indoor unit achieves optimum air distribution, and can be installed without the need for ceiling cavity.

- 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.

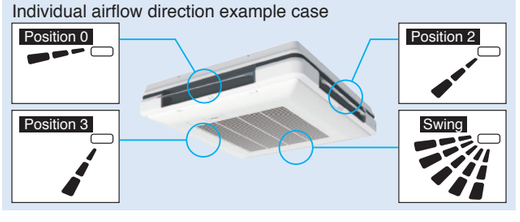
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198 mm for all models that gives the unified impression even when models with different capacities are installed in the same area.



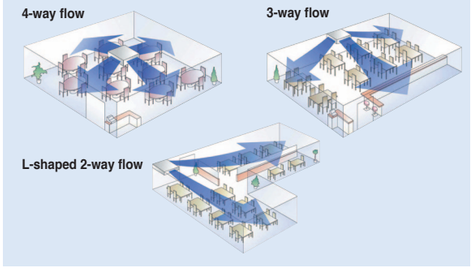
- Built-in electronic expansion valve eliminates the need for a BEV unit, which improves flexibility of installation.



- 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.

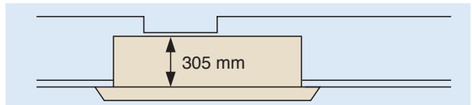


Ceiling Mounted Cassette (Double Flow) Type

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

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

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



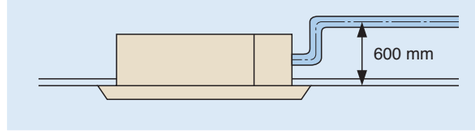
(When a high-efficiency filter is attached, the unit's height is 400 mm.)

- Low operation sound level

(220 V)(dB(A))

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

- Designed with higher airflow suitable for high ceiling application up to 3 metres.
- Providing 2 different settings of standard and ceiling soiling prevention, the auto swing mechanism realises even distribution of airflow and room temperature.
- Drain pump is equipped as standard accessory with 600 mm lift.



- Two types of optional high-efficiency filter are available (65% and 95%, colourimetric method).
- A long-life filter (maintenance free up to one year*) is equipped as standard accessory.

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

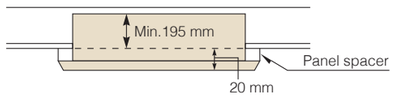
- Major maintenance work can be performed by removing the panel. A flat-type suction grille and a detachable blade make cleaning easy.

Ceiling Mounted Cassette Corner Type

FXKQ25MA / FXKQ32MA
FXKQ40MA / FXKQ63MA

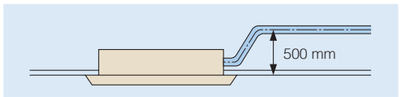
Slim design for flexible installation

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

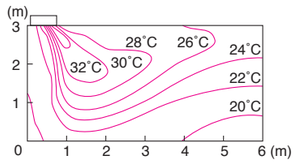


- Single-flow type allows effective air discharge from corner or from drop-ceiling.

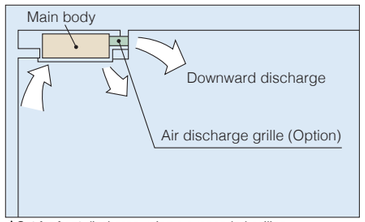
- Drain pump is equipped as standard accessory with 500 mm lift.



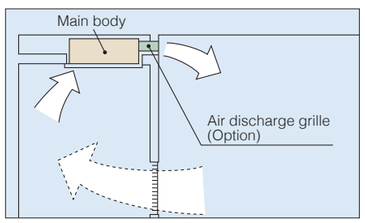
- Providing 3 different settings of standard, draft prevention and ceiling soiling prevention, the auto swing mechanism realises even distribution of airflow and room temperature.



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



*Set for front discharge using a suspended ceiling.



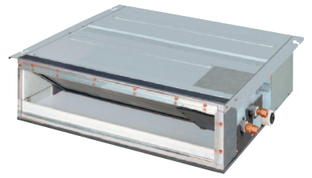
*Downward discharge is shut off and air is blown straight out (front discharge).

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

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

Slim Ceiling Mounted Duct Type

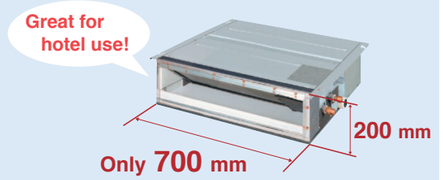
Slim design, quietness and static pressure switching



Suited to use in drop-ceilings!

FXDQ20PB / FXDQ25PB / FXDQ32PB

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



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

- Low operation sound level

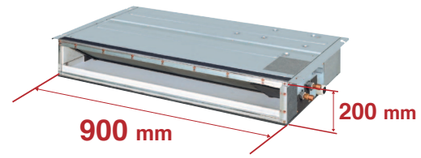
(dB(A))

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

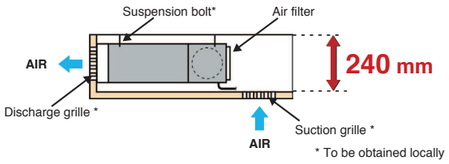
* The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).
* Values are based on the following conditions: FXDQ-PB: external static pressure of 10 Pa; FXDQ-NB: external static pressure of 15 Pa.

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.



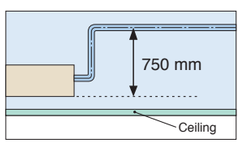
* 1,100 mm in width for the FXDQ63NB model.



* To be obtained locally

- External static pressure selectable by remote controller switching make this indoor unit a very comfortable and flexible model.
  10 Pa-30 Pa/factory set: 10 Pa for FXDQ-PB models.
  15 Pa-44 Pa/factory set: 15 Pa for FXDQ-NB models.

- FXDQ-PB and FXDQ-NB models are available in two types to suit different installation conditions.
  FXDQ-PB/NBVE: with a drain pump (750 mm lift) as a standard accessory
  FXDQ-PB/NBVET: without a drain pump



Middle Static Pressure Ceiling Mounted Duct Type

New

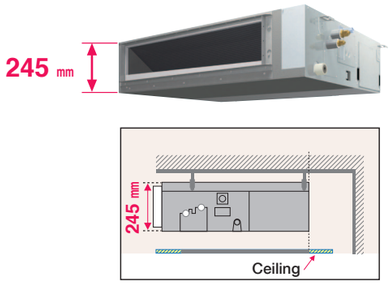
FXSQ20P / FXSQ25P / FXSQ32P
FXSQ40P / FXSQ50P / FXSQ63P
FXSQ80P / FXSQ100P / FXSQ125P
FXSQ140P

Middle external static pressure and slim design allow flexible installations

Installation flexibility

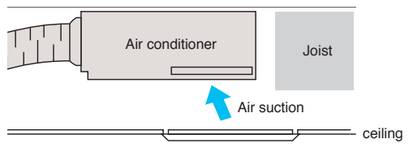
Slim design

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



Bottom suction possible

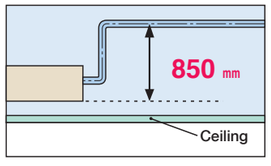
- Bottom suction is possible which facilitates installation and maintenance. Wiring connections and maintenance of control box can be done from under the unit with an optional shield plate for side plate*, extending the degree of freedom for installation in the ceiling.



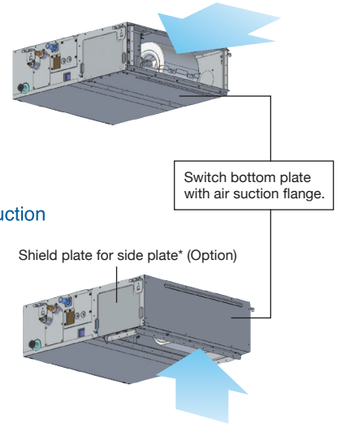
- Air suction direction can be altered from rear to bottom suction.

Standard DC drain pump

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



■ Rear suction



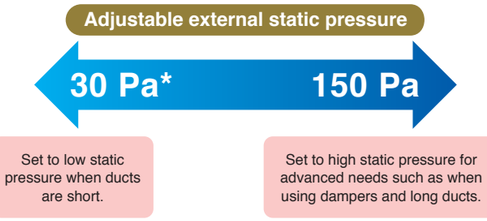
■ Bottom suction

*An optional shield plate for side plate is required if wiring connections and 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.



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

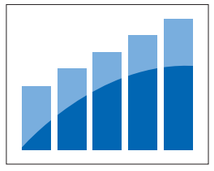
Comfort

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

(dB(A))

FXSQ-PVE	20/25	32	40	50	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

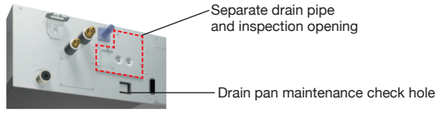
Airflow rate auto adjustment function

- 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.



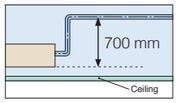
- The drain pan can be detached for easy cleaning.
  An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.

Ceiling Mounted Duct Type

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

Middle and high static pressure allows for flexible duct design

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

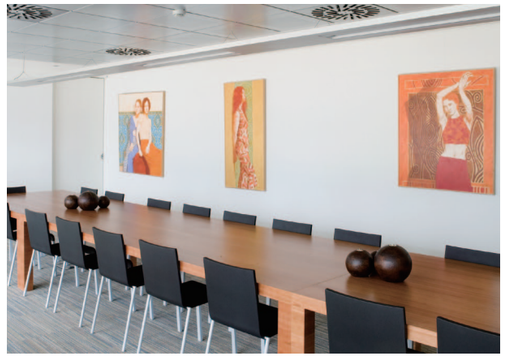


- Control of the airflow rate has been improved from 2-step to 3-step control.
- Low operation sound level

(dB(A))

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

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

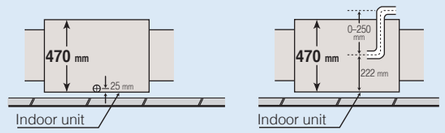


- Improved ease of installation
  - Airflow rate can be controlled using a remote controller during test operation. With the conventional model, the airflow rate was controlled from the PC board. It is automatically adjusted to the range between approximately ±10% of the rated HH tap airflow for FXMQ20P–125P.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

FXMQ200MA/FXMQ250MA

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

- Built-in Drain Pump (Option)
  Housing the drain pump inside the unit reduces the space required for installation.
  - Without drain pump
  - With drain pump



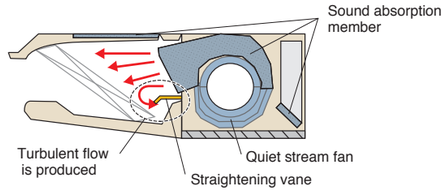
Ceiling Suspended Type

FXHQ32MA / FXHQ63MA
FXHQ100MA

Slim body with quiet and wide airflow

- Adoption of QUIET STREAM FAN

Uses the quiet stream fan and many more advanced technologies.

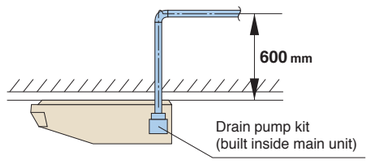


- Low operation sound level

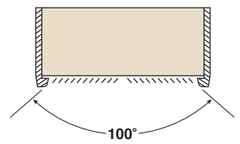
(dB(A))

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

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

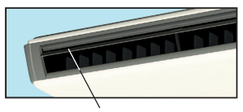


- Wide air discharge openings produce a spreading 100° airflow.



- Maintenance is easy
  - Non-dew Flap with no implanted bristles

Bristle-free Flap minimises contamination and makes cleaning simpler.



  - Easy-to-clean flat design
  - Maintenance is easier because everything can be performed from below the unit.
  - A long-life filter (maintenance free up to one year*) is equipped as standard accessory.

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

Wall Mounted Type

FXAQ20P / FXAQ25P
FXAQ32P / FXAQ40P
FXAQ50P / FXAQ63P

Stylish flat panel design harmonised with your interior décor

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

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

- Low operation sound level

(dB(A))

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

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

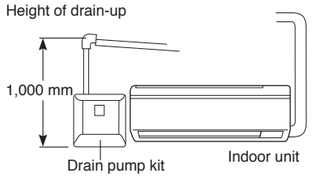
- Vertical auto-swing realises efficiency of air distribution. The louvre closes automatically when the unit stops.

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

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

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

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



Floor Standing Type

FXLQ20MA / FXLQ25MA
FXLQ32MA / FXLQ40MA
FXLQ50MA / FXLQ63MA

Suitable for perimeter zone air conditioning

- Floor Standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.

- The adoption of a fibre-less discharge grille featuring an original design to prevent condensation also helps prevent staining and makes cleaning easier.

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

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

Concealed Floor Standing Type

FXNQ20MA / FXNQ25MA
FXNQ32MA / FXNQ40MA
FXNQ50MA / FXNQ63MA

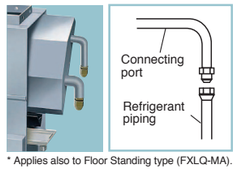
Designed to be concealed in the perimeter skirting-wall

- The unit is concealed in skirting-wall of perimeter, that enables to create high class interior design.

- The connecting port faces downward, greatly facilitating on-site piping work.

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

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



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

Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type

MODEL			FXFQ25SVM	FXFQ32SVM	FXFQ40SVM	FXFQ50SVM	FXFQ63SVM	FXFQ80SVM	FXFQ100SVM	FXFQ125SVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz							
Cooling capacity		kcal/h	2,400	3,100	3,900	4,800	6,100	7,700	9,600	12,000
		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
Heating capacity		kcal/h	2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800
		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600
		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Power consumption	Cooling	kW	0.031	0.031	0.041	0.080	0.095	0.095	0.194	0.219
	Heating	kW	0.027	0.027	0.037	0.075	0.090	0.090	0.180	0.199
Casing			Galvanised steel plate							
Airflow rate (H/M/L)		m^3/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
		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×D)		mm	246×840×840						288×840×840	
Machine weight		kg	19			23			26	
Piping connections	Liquid (Flare)	mm	ϕ6.4				ϕ9.5			
	Gas (Flare)		ϕ12.7				ϕ15.9			
	Drain		VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model		BYCQ125B-W1							
	Colour		Fresh white							
	Dimensions(H×W×D)	mm	50×950×950							
	Weight	kg	5.5							

Ceiling Mounted Cassette (Round Flow) Type

MODEL			FXFQ25LUV1	FXFQ32LUV1	FXFQ40LUV1	FXFQ50LUV1	FXFQ63LUV1	FXFQ80LUV1	FXFQ100LUV1	FXFQ125LUV1
Power supply			1-phase, 220-240 V, 50 Hz							
Cooling capacity		kcal/h	2,400	3,100	3,900	4,800	6,100	7,700	9,600	12,000
		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
Heating capacity		kcal/h	2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800
		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600
		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Power consumption	Cooling	kW	0.033	0.033	0.047	0.052	0.066	0.093	0.187	0.209
	Heating	kW	0.027	0.027	0.034	0.038	0.053	0.075	0.174	0.200
Casing			Galvanised steel plate							
Airflow rate (HH/H/L)		m^3/min	13/11.5/10	13/11.5/10	15/13/11	16/13.5/11	19/16.5/13.5	21/18/15	32/26/20	33/28/22.5
		cfm	459/406/353	459/406/353	530/459/388	565/477/388	671/583/477	742/636/530	1,130/918/706	1,165/989/794
Sound level (HH/H/L)		dB(A)	30/28.5/27	30/28.5/27	31/29/27	32/29.5/27	34/31/28	36/33.5/31	43/37.5/32	44/39/34
Dimensions (H×W×D)		mm	246×840×840						288×840×840	
Machine weight		kg	19.5				22		25	
Piping connections	Liquid (Flare)	mm	ϕ6.4				ϕ9.5			
	Gas (Flare)		ϕ12.7				ϕ15.9			
	Drain		VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model		BYCP125K-W1							
	Colour		Fresh white							
	Dimensions(H×W×D)	mm	50×950×950							
	Weight	kg	5.5							

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

Ceiling Mounted Cassette (Compact Multi Flow) Type

MODEL			FXZQ20MVE	FXZQ25MVE	FXZQ32MVE	FXZQ40MVE	FXZQ50MVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800
		Btu/h	7,500	9,600	12,300	15,400	19,100
		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400
		Btu/h	8,500	10,900	13,600	17,100	21,500
		kW	2.5	3.2	4.0	5.0	6.3
Power consumption	Cooling	kW	0.073		0.076	0.089	0.115
	Heating	kW	0.064		0.068	0.080	0.107
Casing			Galvanised steel plate				
Airflow rate (H/L)		m^3/min	9/7		9.5/7.5	11/8	14/10
		cfm	318/247		335/265	388/282	493/353
Sound level (H/L)	230 V	dB(A)	30/25		32/26	36/28	41/33
Dimensions (H×W×D)		mm	286×575×575				
Machine weight		kg	18				
Piping connections	Liquid (Flare)	mm	ϕ6.4				
	Gas (Flare)		ϕ12.7				
	Drain		VP20 (External Dia, 26/Internal Dia, 20)				
Panel (Option)	Model		BYFQ60B3W1				
	Colour		White (6.5Y9.5/0.5)				
	Dimensions(H×W×D)	mm	55×700×700				
	Weight	kg	2.7				

4-Way Flow Ceiling Suspended Type

MODEL			FXUQ71AVEB	FXUQ100AVEB
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz	
Cooling capacity		kcal/h	6,900	9,600
		Btu/h	27,300	38,200
		kW	8.0	11.2
Heating capacity		kcal/h	7,700	10,800
		Btu/h	30,700	42,700
		kW	9.0	12.5
Power consumption	Cooling	kW	0.090	0.200
	Heating	kW	0.073	0.179
Casing			Fresh white	
Airflow rate (H/M/L)		m^3/min	22.5/19.5/16	31/26/21
		cfm	794/688/565	1,094/918/741
Sound level (H/M/L)		dB(A)	40/38/36	47/44/40
Dimensions (H×W×D)		mm	198×950×950	
Machine weight		kg	26	27
Piping connections	Liquid (Flare)	mm	ϕ9.5	
	Gas (Flare)		ϕ15.9	
	Drain		VP20 (External Dia, 26/Internal Dia, 20)	

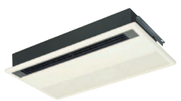
Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: (**FXZQ-M**) Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. (**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.

Indoor Units

Ceiling Mounted Cassette (Double Flow) Type

MODEL				FXCQ20MVE	FXCQ25MVE	FXCQ32MVE	FXCQ40MVE	FXCQ50MVE	FXCQ63MVE	FXCQ80MVE	FXCQ125MVE
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling capacity			kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	7,700	12,000
			Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	47,800
			kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity			kcal/h	2,200	2,800	3,400	4,300	5,400	6,900	8,600	13,800
			Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100	54,600
			kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power consumption	Cooling		kW	0.077	0.092	0.092	0.130	0.130	0.161	0.209	0.256
	Heating		kW	0.044	0.059	0.059	0.097	0.097	0.126	0.176	0.223
Casing				Galvanised steel plate							
Airflow rate (HH/M/L)			m^3/min	7/5	9/6.5	9/6.5	12/9	12/9	16.5/13	26/21	33/25
			cfm	247/177	318/230	318/230	424/318	424/318	582/459	918/741	1,165/883
Sound level (H/L)	220 V		dB(A)	32/27	34/28	34/28	34/29	34/29	37/32	39/34	44/38
Dimensions (H×W×D)			mm	305×775×600	305×775×600	305×775×600	305×990×600	305×990×600	305×1,175×600	305×1,665×600	305×1,665×600
Machine weight			kg	26.0	26.0	26.0	31.0	32.0	35.0	47.0	48.0
Piping connections	Liquid (Flare)		mm	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ9.5	ϕ9.5	ϕ9.5
	Gas (Flare)			ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9	ϕ15.9	ϕ15.9
	Drain			VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model			BYBC32G-W1			BYBC50G-W1		BYBC63G-W1	BYBC125G-W1	
	Colour			White (10Y9/0.5)							
	Dimensions(H×W×D)		mm	53×1,030×680	53×1,030×680	53×1,030×680	53×1,245×680	53×1,245×680	53×1,430×680	53×1,920×680	53×1,920×680
	Weight		kg	8.0	8.0	8.0	8.5	8.5	9.5	12.0	12.0

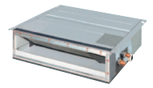
Ceiling Mounted Cassette Corner Type



MODEL				FXKQ25MAVE	FXKQ32MAVE	FXKQ40MAVE	FXKQ63MAVE
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz			
Cooling capacity			kcal/h	2,400	3,100	3,900	6,100
			Btu/h	9,600	12,300	15,400	24,200
			kW	2.8	3.6	4.5	7.1
Heating capacity			kcal/h	2,800	3,400	4,300	6,900
			Btu/h	10,900	13,600	17,100	27,300
			kW	3.2	4.0	5.0	8.0
Power consumption	Cooling		kW	0.066	0.066	0.076	0.105
	Heating		kW	0.046	0.046	0.056	0.085
Casing				Galvanised steel plate			
Airflow rate (H/L)			m^3/min	11/9	11/9	13/10	18/15
			cfm	388/318	388/318	459/353	635/530
Sound level (H/L)	220 V		dB(A)	38/33	38/33	40/34	42/37
Dimensions (H×W×D)			mm	215×1,110×710	215×1,110×710	215×1,110×710	215×1,310×710
Machine weight			kg	31	31	31	34
Piping connections	Liquid (Flare)		mm	ϕ 6.4	ϕ 6.4	ϕ 6.4	ϕ 9.5
	Gas (Flare)			ϕ 12.7	ϕ 12.7	ϕ 12.7	ϕ 15.9
	Drain				VP25 (External Dia, 32/Internal Dia, 25)		
Panel (Option)	Model			BYK45FJW1			BYK71FJW1
	Colour			White (10Y9/0.5)			
	Dimensions(H×W×D)		mm	70×1,240×800	70×1,240×800	70×1,240×800	70×1,440×800
	Weight		kg	8.5	8.5	8.5	9.5

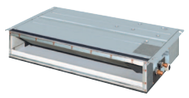
Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: (**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)



MODEL	with drain pump		FXDQ20PBVE	FXDQ25PBVE	FXDQ32PBVE
	without drain pump		FXDQ20PBVET	FXDQ25PBVET	FXDQ32PBVET
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz		
Cooling capacity		kcal/h	1,900	2,400	3,100
		Btu/h	7,500	9,600	12,300
		kW	2.2	2.8	3.6
Heating capacity		kcal/h	2,200	2,800	3,400
		Btu/h	8,500	10,900	13,600
		kW	2.5	3.2	4.0
Power consumption (FXDQ-PBVE)★1	Cooling	kW	0.086	0.086	0.089
	Heating	kW	0.067	0.067	0.070
Power consumption (FXDQ-PBVET)★1	Cooling	kW	0.067	0.067	0.070
	Heating	kW	0.067	0.067	0.070
Casing			Galvanised steel plate		
Airflow rate (HH/H/L)		m^3/min	8.0/7.2/6.4	8.0/7.2/6.4	8.0/7.2/6.4
		cfm	282/254/226	282/254/226	282/254/226
External static pressure		Pa	30-10★2		
Sound level (HH/H/L)★1★3		dB(A)	28/26/23	28/26/23	28/26/24
Dimensions (H×W×D)		mm	200×700×620	200×700×620	200×700×620
Machine weight		kg	23.0	23.0	23.0
Piping connections	Liquid (Flare)	mm	ϕ6.4	ϕ6.4	ϕ6.4
	Gas (Flare)		ϕ12.7	ϕ12.7	ϕ12.7
	Drain		VP20 (External Dia, 26/Internal Dia, 20)		

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



MODEL	with drain pump		FXDQ40NBVE	FXDQ50NBVE	FXDQ63NBVE
	without drain pump		FXDQ40NBVET	FXDQ50NBVET	FXDQ63NBVET
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz		
Cooling capacity		kcal/h	3,900	4,800	6,100
		Btu/h	15,400	19,100	24,200
		kW	4.5	5.6	7.1
Heating capacity		kcal/h	4,300	5,400	6,900
		Btu/h	17,100	21,500	27,300
		kW	5.0	6.3	8.0
Power consumption (FXDQ-PBVE)★1	Cooling	kW	0.160	0.165	0.181
	Heating	kW	0.147	0.152	0.168
Power consumption (FXDQ-PBVET)★1	Cooling	kW	0.147	0.152	0.168
	Heating	kW	0.147	0.152	0.168
Casing			Galvanised steel plate		
Airflow rate (HH/H/L)		m^3/min	10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
		cfm	371/335/300	441/388/353	583/512/459
External static pressure		Pa	44-15★2		
Sound level (HH/H/L)★1★3		dB(A)	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 weight		kg	27.0	28.0	31.0
Piping connections	Liquid (Flare)	mm	ϕ6.4	ϕ6.4	ϕ 9.5
	Gas (Flare)		ϕ12.7	ϕ12.7	ϕ15.9
	Drain		VP20 (External Dia, 26/Internal Dia, 20)		

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

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

Indoor Units

Middle Static Pressure Ceiling Mounted Duct Type

MODEL			FXSQ20PVE	FXSQ25PVE	FXSQ32PVE	FXSQ40PVE	FXSQ50PVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800
		Btu/h	7,500	9,600	12,300	15,400	19,100
		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400
		Btu/h	8,500	10,900	13,600	17,100	21,500
		kW	2.5	3.2	4.0	5.0	6.3
Power consumption	Cooling	kW	0.058 ★1		0.066 ★1	0.101 ★1	0.075 ★1
	Heating	kW	0.053 ★1		0.061 ★1	0.096 ★1	0.070 ★1
Casing			Galvanised steel plate				
Airflow rate (H/M/L)		m^3/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
		cfm	318/265/230	318/265/230	335/282/247	530/441/371	600/512/406
External static pressure		Pa	30-150 (50)★2				50-150 (50)★2
Sound level (H/M/L)		dB(A)	33/30/28		34/32/30	36/33/30	34/32/29
Dimensions (H×W×D)		mm	245×550×800			245×700×800	245×1,000×800
Machine weight		kg	25			27	35
Piping connections	Liquid (Flare)	mm	ϕ6.4				
	Gas (Flare)		ϕ12.7				
	Drain		VP25 (External Dia, 32/Internal Dia, 25)				

MODEL			FXSQ63PVE	FXSQ80PVE	FXSQ100PVE	FXSQ125PVE	FXSQ140PVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		kcal/h	6,100	7,700	9,600	12,000	13,800
		Btu/h	24,200	30,700	38,200	47,800	54,600
		kW	7.1	9.0	11.2	14.0	16.0
Heating capacity		kcal/h	6,900	8,600	10,800	13,800	15,500
		Btu/h	27,300	34,100	42,700	54,600	61,400
		kW	8.0	10.0	12.5	16.0	18.0
Power consumption	Cooling	kW	0.106 ★1	0.126 ★1	0.151 ★1	0.206 ★1	0.222 ★1
	Heating	kW	0.101 ★1	0.121 ★1	0.146 ★1	0.201 ★1	0.217 ★1
Casing			Galvanised steel plate				
Airflow rate (H/M/L)		m^3/min	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26	39/33.5/28
		cfm	741/618/512	812/688/565	1,130/953/794	1,306/1,112/918	1,377/1,183/988
External static pressure		Pa	50-150 (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		245×1,400×800		245×1,550×800
Machine weight		kg	35	37	46	47	52
Piping connections	Liquid (Flare)	mm	ϕ9.5				
	Gas (Flare)		ϕ15.9				
	Drain		VP25 (External Dia, 32/Internal Dia, 25)				

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

★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.

Ceiling Mounted Duct Type

MODEL			FXMQ20PVE	FXMQ25PVE	FXMQ32PVE	FXMQ40PVE	FXMQ50PVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800
		Btu/h	7,500	9,600	12,300	15,400	19,100
		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400
		Btu/h	8,500	10,900	13,600	17,100	21,500
		kW	2.5	3.2	4.0	5.0	6.3
Power consumption	Cooling	kW	0.056 ★1	0.056 ★1	0.060 ★1	0.151 ★1	0.128 ★1
	Heating	kW	0.044 ★1	0.044 ★1	0.048 ★1	0.139 ★1	0.116 ★1
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)		m^3/min	9/7.5/6.5	9/7.5/6.5	9.5/8/7	16/13/11	18/16.5/15
		cfm	318/265/230	318/265/230	335/282/247	565/459/388	635/582/530
External static pressure		Pa	30-100 (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	300×550×700	300×550×700	300×550×700	300×700×700	300×1,000×700
Machine weight		kg	25	25	25	28	36
Piping connections	Liquid (Flare)	mm	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4
	Gas (Flare)		ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7
	Drain		VP25 (External Dia, 32/Internal Dia, 25)				

MODEL			FXMQ63PVE	FXMQ80PVE	FXMQ100PVE	FXMQ125PVE	FXMQ140PVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		kcal/h	6,100	7,700	9,600	12,000	13,800
		Btu/h	24,200	30,700	38,200	47,800	54,600
		kW	7.1	9.0	11.2	14.0	16.0
Heating capacity		kcal/h	6,900	8,600	10,800	13,800	15,500
		Btu/h	27,300	34,100	42,700	54,600	61,400
		kW	8.0	10.0	12.5	16.0	18.0
Power consumption	Cooling	kW	0.138 ★1	0.185 ★1	0.215 ★1	0.284 ★1	0.405 ★1
	Heating	kW	0.127 ★1	0.173 ★1	0.203 ★1	0.272 ★1	0.380 ★1
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)		m^3/min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
		cfm	688/618/565	883/794/706	1,130/953/812	1,377/1,165/988	1,624/1,377/1,130
External static pressure		Pa	50-200 (100)★2	50-200 (100)★2	50-200 (100)★2	50-200 (100)★2	50-140 (100)★2
Sound level (HH/H/L)		dB(A)	42/40/38	43/41/39	43/41/39	44/42/40	46/45/43
Dimensions (H×W×D)		mm	300×1,000×700	300×1,000×700	300×1,400×700	300×1,400×700	300×1,400×700
Machine weight		kg	36	36	46	46	47
Piping connections	Liquid (Flare)	mm	ϕ9.5	ϕ9.5	ϕ9.5	ϕ9.5	ϕ9.5
	Gas (Flare)		ϕ15.9	ϕ15.9	ϕ15.9	ϕ15.9	ϕ15.9
	Drain		VP25 (External Dia, 32/Internal Dia, 25)				

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

★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.

Indoor Units

Ceiling Mounted Duct Type

MODEL			FXMQ200MAVE	FXMQ250MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz	
Cooling capacity		kcal/h	19,300	24,100
		Btu/h	76,400	95,500
		kW	22.4	28.0
Heating capacity		kcal/h	21,500	27,100
		Btu/h	85,300	107,500
		kW	25.0	31.5
Power consumption	Cooling	kW	1.294 *1	1.465 *1
	Heating	kW	1.294 *1	1.465 *1
Casing			Galvanised steel plate	
Airflow rate (H/L)		m^3/min	58/50	72/62
		cfm	2,047/1,765	2,542/2,189
External static pressure		Pa	132-221 *2	191-270 *2
Sound level(H/L)	220 V	dB(A)	48/45	48/45
Dimensions (H×W×D)		mm	470×1,380×1,100	470×1,380×1,100
Machine weight		kg	137	137
Piping connections	Liquid (Flare)	mm	ϕ9.5	ϕ9.5
	Gas (Brazing)		ϕ19.1	ϕ22.2
	Drain		PS1B	

Ceiling Suspended Type

MODEL			FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz		
Cooling capacity		kcal/h	3,100	6,100	9,600
		Btu/h	12,300	24,200	38,200
		kW	3.6	7.1	11.2
Heating capacity		kcal/h	3,400	6,900	10,800
		Btu/h	13,600	27,300	42,700
		kW	4.0	8.0	12.5
Power consumption	Cooling	kW	0.111	0.115	0.135
	Heating	kW	0.111	0.115	0.135
Casing			White (10Y9/0.5)		
Airflow rate (H/L)		m^3/min	12/10	17.5/14	25/19.5
		cfm	424/353	618/494	883/688
Sound level (H/L)		dB(A)	36/31	39/34	45/37
Dimensions (H×W×D)		mm	195×960×680	195×1,160×680	195×1,400×680
Machine weight		kg	24.0	28.0	33.0
Piping connections	Liquid (Flare)	mm	ϕ6.4	ϕ9.5	ϕ9.5
	Gas (Flare)		ϕ12.7	ϕ15.9	ϕ15.9
	Drain		VP20 (External Dia, 26/Internal Dia, 20)		

Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: **(FXMQ-MA)** Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  (FXHQ-MA) Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions

★1: Power consumption values are based on conditions of standard external static pressure.
★2: External static pressure is changeable to change over the connectors inside electrical box, this pressure means "Standard-High static pressure".

Wall Mounted Type

MODEL			FXAQ20PVE	FXAQ25PVE	FXAQ32PVE	FXAQ40PVE	FXAQ50PVE	FXAQ63PVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.019	0.028	0.030	0.020	0.033	0.050
	Heating	kW	0.029	0.034	0.035	0.020	0.039	0.060
Casing			White (3.0Y8.5/0.5)					
Airflow rate (H/L)		m^3/min	7.5/4.5	8/5	8.5/5.5	12/9	15/12	19/14
		cfm	265/159	282/177	300/194	424/318	530/424	671/494
Sound level (H/L)		dB(A)	35/31	36/31	38/31	39/34	42/37	47/41
Dimensions (H×W×D)		mm	290×795×238	290×795×238	290×795×238	290×1,050×238	290×1,050×238	290×1,050×238
Machine weight		kg	11.0	11.0	11.0	14.0	14.0	14.0
Piping connections	Liquid (Flare)	mm	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ9.5
	Gas (Flare)		ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9
	Drain		VP13 (External Dia, 18/Internal Dia, 13)					

Floor Standing Type/Concealed Floor Standing Type

FXLQ

FXNQ

MODEL			FXLQ20MAVE / FXNQ20MAVE	FXLQ25MAVE / FXNQ25MAVE	FXLQ32MAVE / FXNQ32MAVE	FXLQ40MAVE / FXNQ40MAVE	FXLQ50MAVE / FXNQ50MAVE	FXLQ63MAVE / FXNQ63MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.049	0.049	0.090	0.090	0.110	0.110
	Heating	kW	0.049	0.049	0.090	0.090	0.110	0.110
Casing			FXLQ: Ivory white (5Y7.5/1)/FXNQ: Galvanised steel plate					
Airflow rate (H/L)		m^3/min	7/6	7/6	8/6	11/8.5	14/11	16/12
		cfm	247/212	247/212	282/212	388/300	494/388	565/424
Sound level (H/L)	220 V	dB(A)	35/32	35/32	35/32	38/33	39/34	40/35
Dimensions (H×W×D)	FXLQ	mm	600×1,000×222	600×1,000×222	600×1,140×222	600×1,140×222	600×1,420×222	600×1,420×222
	FXNQ		610×930×220	610×930×220	610×1,070×220	610×1,070×220	610×1,350×220	610×1,350×220
Machine weight	FXLQ	kg	25.0	25.0	30.0	30.0	36.0	36.0
	FXNQ		19.0	19.0	23.0	23.0	27.0	27.0
Piping connections	Liquid (Flare)	mm	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ6.4	ϕ9.5
	Gas (Flare)		ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ12.7	ϕ15.9
	Drain		21O.D.					

Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: **(FXAQ-P)** Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
  (FXLQ-MA, FXNQ-MA) Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Outdoor Units

Heat Recovery

Standard Type

MODEL			REYQ8TY1(E)	REYQ10TY1(E)	REYQ12TY1(E)	REYQ14TY1(E)	REYQ16TY1(E)	REYQ18TY1(E)	REYQ20TY1(E)	REYQ22TY1(E)	REYQ24TY1(E)	REYQ26TY1(E)	REYQ28TY1(E)	REYQ30TY1(E)	REYQ32TY1(E)	REYQ34TY1(E)
Combination units			—	—	—	—	—	—	—	REYQ10TY1(E)	REYQ12TY1(E)	REYQ12TY1(E)	REYQ12TY1(E)	REYQ12TY1(E)	REYQ16TY1(E)	REYQ16TY1(E)
										REYQ12TY1(E)	REYQ12TY1(E)	REYQ14TY1(E)	REYQ16TY1(E)	REYQ18TY1(E)	REYQ16TY1(E)	REYQ18TY1(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz						3-phase 4-wire system, 380–415 V, 50 Hz							
Cooling capacity		kcal/h	19,300	24,100	28,800	34,400	38,700	43,000	48,200	52,900	57,600	63,200	67,500	71,800	77,400	81,700
		Btu/h	76,400	95,500	114,000	136,000	154,000	171,000	191,000	210,000	229,000	251,000	268,000	285,000	307,000	324,000
		kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	67.0	73.5	78.5	83.5	90.0	95.0
Heating capacity		kcal/h	21,500	27,100	32,300	38,700	43,000	48,200	54,200	59,300	64,500	71,000	75,300	80,400	86,000	91,200
		Btu/h	85,300	107,000	128,000	154,000	171,000	191,000	215,000	235,000	256,000	281,000	299,000	319,000	341,000	362,000
		kW	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	75.0	82.5	87.5	93.5	100	106
Power consumption	Cooling	kW	5.16	7.04	8.66	10.9	13.0	15.4	18.0	15.7	17.3	19.6	21.7	24.1	26.0	28.4
	Heating	kW	5.68	7.29	9.22	10.8	12.7	15.0	17.5	16.5	18.4	20.0	21.9	24.2	25.4	27.7
Capacity control		%	20-100	16-100	15-100	11-100	10-100	8-100	8-100	8-100	8-100	6-100	6-100	5-100	5-100	4-100
Casing colour			Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically Sealed Scroll Type						Hermetically Sealed Scroll Type							
	Motor output	kW	3.3x1	4.0x1	4.9x1	(3.0x1)+(3.1x1)	(3.4x1)+(3.7x1)	(3.6x1)+(5.0x1)	(4.0x1)+(6.1x1)	(4.0x1)+(4.9x1)	(4.9x1)+(4.9x1)	(4.9x1)+(3.0x1)+(3.1x1)	(4.9x1)+(3.4x1)+(3.7x1)	(4.9x1)+(3.6x1)+(5.0x1)	(3.4x1)+(3.7x1)+ (3.4x1)+(3.7x1)	(3.4x1)+(3.7x1)+ (3.6x1)+(5.0x1)
Airflow rate		m³/min	158	168	180	234	239	226	269	168+180	180+180	180+234	180+239	180+226	239+239	239+226
Dimensions (HxWxD)		mm	1,657x930x765			1,657x1,240x765			1,657x1,240x765	(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)			(1,657x1,240x765)+(1,657x1,240x765)	
Machine weight		kg	215	230	230	310	310	342	342	230+230	230+230	230+310	230+310	230+342	310+310	310+342
Sound level		dB(A)	56	57	59	60	61	62	65	61	62	63	63	64	64	65
Operation range	Cooling	°CDB	-5 to 43						-5 to 43							
	Heating	°CWB	-20 to 15.5						-20 to 15.5							
	Cooling & Heating	°CWB	-6 to 15.5						-6 to 15.5							
Refrigerant	Type		R-410A						R-410A							
	Charge	kg	9.7	9.8	9.9	11.8	11.8	11.8	11.8	9.8+9.9	9.9+9.9	9.9+11.8	9.9+11.8	9.9+11.8	11.8+11.8	11.8+11.8
Piping connections	Liquid	mm	ϕ9.5 (Brazing)	ϕ9.5 (Brazing)	ϕ12.7 (Brazing)	ϕ12.7 (Brazing)	ϕ12.7 (Brazing)	ϕ15.9 (Brazing)	ϕ15.9 (Brazing)	ϕ15.9 (Brazing)	ϕ15.9 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)
	Gas	mm	ϕ19.1 (Brazing)	ϕ22.2 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)
	High and low pressure gas	mm	ϕ15.9 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ22.2 (Brazing)	ϕ22.2 (Brazing)	ϕ22.2 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)

MODEL			REYQ36TY1(E)	REYQ38TY1(E)	REYQ40TY1(E)	REYQ42TY1(E)	REYQ44TY1(E)	REYQ46TY1(E)	REYQ48TY1(E)	REYQ50TY1(E)	REYQ52TY1(E)	REYQ54TY1(E)	REYQ56TY1(E)	REYQ58TY1(E)	REYQ60TY1(E)
Combination units			REYQ16TY1(E)	REYQ8TY1(E)	REYQ10TY1(E)	REYQ10TY1(E)	REYQ12TY1(E)	REYQ14TY1(E)	REYQ16TY1(E)	REYQ16TY1(E)	REYQ16TY1(E)	REYQ18TY1(E)	REYQ18TY1(E)	REYQ18TY1(E)	REYQ20TY1(E)
			REYQ20TY1(E)	REYQ10TY1(E)	REYQ12TY1(E)	REYQ16TY1(E)	REYQ16TY1(E)	REYQ16TY1(E)	REYQ16TY1(E)	REYQ16TY1(E)	REYQ18TY1(E)	REYQ18TY1(E)	REYQ18TY1(E)	REYQ20TY1(E)	REYQ20TY1(E)
			—	REYQ20TY1(E)	REYQ18TY1(E)	REYQ16TY1(E)	REYQ16TY1(E)	REYQ16TY1(E)	REYQ16TY1(E)	REYQ18TY1(E)	REYQ18TY1(E)	REYQ18TY1(E)	REYQ20TY1(E)	REYQ20TY1(E)	REYQ20TY1(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz						3-phase 4-wire system, 380–415 V, 50 Hz						
Cooling capacity		kcal/h	86,900	91,200	96,300	101,000	107,000	112,000	116,000	120,000	125,000	129,000	134,000	139,000	144,000
		Btu/h	345,000	362,000	382,000	403,000	423,000	444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000
		kW	101	106	112	118	124	130	135	140	145	150	156	162	168
Heating capacity		kcal/h	97,200	103,000	108,000	114,000	119,000	125,000	129,000	134,000	139,000	144,000	151,000	157,000	163,000
		Btu/h	386,000	409,000	427,000	450,000	471,000	495,000	512,000	532,000	553,000	573,000	597,000	621,000	645,000
		kW	113	120	125	132	138	145	150	156	162	168	175	182	189
Power consumption	Cooling	kW	31.0	30.2	31.1	33.0	34.7	36.9	39.0	41.4	43.8	46.2	48.8	51.4	54.0
	Heating	kW	30.2	30.5	31.5	32.7	34.6	36.2	38.1	40.4	42.7	45.0	47.5	50.0	52.5
Capacity control		%	4-100	4-100	4-100	4-100	4-100	3-100	3-100	3-100	3-100	3-100	3-100	3-100	3-100
Casing colour			Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically Sealed Scroll Type						Hermetically Sealed Scroll Type						
	Motor output	kW	(3.4x1)+(3.7x1)+ (4.0x1)+(6.1x1)	(3.3x1)+(4.0x1)+ (4.0x1)+(6.1x1)	(4.0x1)+(4.9x1)+ (3.6x1)+(5.0x1)	(4.0x1)+(3.4x1)+ (3.7x1)+(3.4x1)+ (3.7x1)	(4.9x1)+(3.4x1)+ (3.7x1)+(3.4x1)+ (3.7x1)	(3.0x1)+(3.1x1)+ (3.4x1)+(3.7x1)+ (3.4x1)+(3.7x1)	(3.4x1)+(3.7x1)+ (3.4x1)+(3.7x1)+ (3.4x1)+(3.7x1)	(3.4x1)+(3.7x1)+ (3.4x1)+(3.7x1)+ (3.6x1)+(5.0x1)	(3.4x1)+(3.7x1)+ (3.6x1)+(5.0x1)+ (3.6x1)+(5.0x1)	(3.6x1)+(5.0x1)+ (3.6x1)+(5.0x1)+ (3.6x1)+(5.0x1)	(3.6x1)+(5.0x1)+ (3.6x1)+(5.0x1)+ (4.0x1)+(6.1x1)	(3.6x1)+(5.0x1)+ (4.0x1)+(6.1x1)+ (4.0x1)+(6.1x1)	(4.0x1)+(6.1x1)+ (4.0x1)+(6.1x1)+ (4.0x1)+(6.1x1)
Airflow rate		m³/min	239+269	158+168+269	168+180+226	168+239+239	180+239+239	234+239+239	239+239+239	239+239+226	239+226+226	226+226+226	226+226+269	226+269+269	269+269+269
Dimensions (HxWxD)		mm	(1,657x1,240x765)+ (1,657x1,240x765)	(1,657x930x765)+(1,657x930x765)+ (1,657x1,240x765)		(1,657x930x765)+(1,657x1,240x765)+ (1,657x1,240x765)		(1,657x1,240x765)+ (1,657x1,240x765)+ (1,657x1,240x765)	(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)						
Machine weight		kg	310+342	215+230+342	230+230+342	230+310+310	230+310+310	310+310+310	310+310+310	310+310+342	310+342+342	342+342+342	342+342+342	342+342+342	342+342+342
Sound level		dB(A)	66	66	65	65	65	65	66	66	66	67	68	69	70
Operation range	Cooling	°CDB	-5 to 43						-5 to 43						
	Heating	°CWB	-20 to 15.5						-20 to 15.5						
	Cooling & Heating	°CWB	-6 to 15.5						-6 to 15.5						
Refrigerant	Type		R-410A						R-410A						
	Charge	kg	11.8+11.8	9.7+9.8+11.8	9.8+9.9+11.8	9.8+11.8+11.8	9.9+11.8+11.8	11.8+11.8+11.8	11.8+11.8+11.8	11.8+11.8+11.8	11.8+11.8+11.8	11.8+11.8+11.8	11.8+11.8+11.8	11.8+11.8+11.8	11.8+11.8+11.8
Piping connections	Liquid	mm	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)
	Gas	mm	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)
	High and low pressure gas	mm	ϕ28.6 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)

Note: 1. Models with (E) feature components treated for heat and rust corrosion resistance, such as external panels, fan motor, and electric component box, in addition to the fins of the heat exchanger. These models are designed specifically for use in areas which are subject to salt damage and atmospheric pollution. Please contact Daikin for more information.

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

Outdoor Units — Heat Recovery

High-COP Type

MODEL			REYQ16THY1(E)	REYQ18THY1(E)	REYQ20THY1(E)	REYQ24THY1(E)
Combination units			REYQ8TY1(E)	REYQ8TY1(E)	REYQ8TY1(E)	REYQ8TY1(E)
			REYQ8TY1(E)	REYQ10TY1(E)	REYQ12TY1(E)	REYQ8TY1(E)
			—	—	—	REYQ8TY1(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz			
Cooling capacity		kcal/h	38,500	43,300	48,100	57,800
		Btu/h	153,000	172,000	191,000	229,000
		kW	44.8	50.4	55.9	67.2
Heating capacity		kcal/h	43,000	48,600	53,800	64,500
		Btu/h	171,000	193,000	213,000	256,000
		kW	50.0	56.5	62.5	75.0
Power consumption	Cooling	kW	10.3	12.2	13.8	15.5
	Heating	kW	11.4	13.0	14.9	17.0
Capacity control		%	10-100	8-100	8-100	7-100
Casing colour			Ivory white (5Y7.5/1)			
Compressor	Type		Hermetically Sealed Scroll Type			
	Motor output	kW	(3.3×1)+(3.3×1)	(3.3×1)+(4.0×1)	(3.3×1)+(4.9×1)	(3.3×1)+(3.3×1)+(3.3×1)
Airflow rate		m³/min	158+158	158+168	158+180	158+158+158
Dimensions (HxWxD)		mm	(1,657×930×765)+(1,657×930×765)			(1,657×930×765)+(1,657×930×765)+(1,657×930×765)
Machine weight		kg	215+215	215+230	215+230	215+215+215
Sound level		dB(A)	59	60	61	61
Operation range	Cooling	°CDB	-5 to 43			
	Heating	°CWB	-20 to 15.5			
	Cooling & Heating	°CWB	-6 to 15.5			
Refrigerant	Type		R-410A			
	Charge	kg	9.7+9.7	9.7+9.8	9.7+9.9	9.7+9.7+9.7
Piping connections	Liquid	mm	ϕ12.7 (Brazing)	ϕ15.9 (Brazing)	ϕ15.9 (Brazing)	ϕ15.9 (Brazing)
	Gas	mm	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ34.9 (Brazing)
	High and low pressure gas	mm	ϕ22.2 (Brazing)	ϕ22.2 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)

MODEL			REYQ26THY1(E)	REYQ28THY1(E)	REYQ30THY1(E)	REYQ32THY1(E)
Combination units			REYQ8TY1(E)	REYQ8TY1(E)	REYQ8TY1(E)	REYQ8TY1(E)
			REYQ8TY1(E)	REYQ8TY1(E)	REYQ10TY1(E)	REYQ12TY1(E)
			REYQ10TY1(E)	REYQ12TY1(E)	REYQ12TY1(E)	REYQ12TY1(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz			
Cooling capacity		kcal/h	62,600	67,300	72,200	76,900
		Btu/h	248,000	267,000	286,000	305,000
		kW	72.8	78.3	83.9	89.4
Heating capacity		kcal/h	70,100	75,300	80,800	86,000
		Btu/h	278,000	299,000	321,000	341,000
		kW	81.5	87.5	94.0	100
Power consumption	Cooling	kW	17.4	19.0	20.9	22.5
	Heating	kW	18.7	20.6	22.2	24.1
Capacity control		%	6-100	6-100	5-100	5-100
Casing colour			Ivory white (5Y7.5/1)			
Compressor	Type		Hermetically Sealed Scroll Type			
	Motor output	kW	(3.3×1)+(3.3×1)+(4.0×1)	(3.3×1)+(3.3×1)+(4.9×1)	(3.3×1)+(4.0×1)+(4.9×1)	(3.3×1)+(4.9×1)+(4.9×1)
Airflow rate		m³/min	158+158+168	158+158+180	158+168+180	158+180+180
Dimensions (HxWxD)		mm	(1,657×930×765)+(1,657×930×765)+(1,657×930×765)			
Machine weight		kg	215+215+230	215+215+230	215+230+230	215+230+230
Sound level		dB(A)	61	62	62	63
Operation range	Cooling	°CDB	-5 to 43			
	Heating	°CWB	-20 to 15.5			
	Cooling & Heating	°CWB	-6 to 15.5			
Refrigerant	Type		R-410A			
	Charge	kg	9.7+9.7+9.8	9.7+9.7+9.9	9.7+9.8+9.9	9.7+9.9+9.9
Piping connections	Liquid	mm	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)
	Gas	mm	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)
	High and low pressure gas	mm	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)

Note: 1. Models with (E) feature components treated for heat and rust corrosion resistance, such as external panels, fan motor, and electric component box, in addition to the fins of the heat exchanger. These models are designed specifically for use in areas which are subject to salt damage and atmospheric pollution. Please contact Daikin for more information.

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

Outdoor Unit Combinations

Standard Type

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
8	22.4	200	REYQ8T	REYQ8T	–	100 to 260 (400)	13 (20)
10	28.0	250	REYQ10T	REYQ10T	–	125 to 325 (500)	16 (25)
12	33.5	300	REYQ12T	REYQ12T	–	150 to 390 (600)	19 (30)
14	40.0	350	REYQ14T	REYQ14T	–	175 to 455 (700)	22 (35)
16	45.0	400	REYQ16T	REYQ16T	–	200 to 520 (800)	26 (40)
18	50.0	450	REYQ18T	REYQ18T	–	225 to 585 (900)	29 (45)
20	56.0	500	REYQ20T	REYQ20T	–	250 to 650 (1,000)	32 (50)
22	61.5	550	REYQ22T	REYQ10T + REYQ12T	BHFP26P90	275 to 715 (880)	35 (44)
24	67.0	600	REYQ24T	REYQ12T × 2		300 to 780 (960)	39 (48)
26	73.5	650	REYQ26T	REYQ12T + REYQ14T		325 to 845 (1,040)	42 (52)
28	78.5	700	REYQ28T	REYQ12T + REYQ16T		350 to 910 (1,120)	45 (56)
30	83.5	750	REYQ30T	REYQ12T + REYQ18T		375 to 975 (1,200)	48 (60)
32	90.0	800	REYQ32T	REYQ16T × 2		400 to 1,040 (1,280)	52 (64)
34	95.0	850	REYQ34T	REYQ16T + REYQ18T		425 to 1,105 (1,360)	55 (64)
36	101	900	REYQ36T	REYQ16T + REYQ20T		450 to 1,170 (1,440)	58 (64)
38	106	950	REYQ38T	REYQ8T + REYQ10T + REYQ20T	BHFP26P136	475 to 1,235 (1,235)	61 (61)
40	112	1,000	REYQ40T	REYQ10T + REYQ12T + REYQ18T		500 to 1,300 (1,300)	64 (64)
42	118	1,050	REYQ42T	REYQ10T + REYQ16T × 2		525 to 1,365 (1,365)	
44	124	1,100	REYQ44T	REYQ12T + REYQ16T × 2		550 to 1,430 (1,430)	
46	130	1,150	REYQ46T	REYQ14T + REYQ16T × 2		575 to 1,495 (1,495)	
48	135	1,200	REYQ48T	REYQ16T × 3		600 to 1,560 (1,560)	
50	140	1,250	REYQ50T	REYQ16T × 2 + REYQ18T		625 to 1,625 (1,625)	
52	145	1,300	REYQ52T	REYQ16T + REYQ18T × 2		650 to 1,690 (1,690)	
54	150	1,350	REYQ54T	REYQ18T × 3		675 to 1,755 (1,755)	
56	156	1,400	REYQ56T	REYQ18T × 2 + REYQ20T		700 to 1,820 (1,820)	
58	162	1,450	REYQ58T	REYQ18T + REYQ20T × 2		725 to 1,885 (1,885)	
60	168	1,500	REYQ60T	REYQ20T × 3		750 to 1,950 (1,950)	

Note: *1. For multiple connection of 22 HP systems and above, the outdoor unit multi connection piping kit (separately sold) is required.
*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 14 for notes on connection capacity of indoor units.

High-COP Type

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
16	44.8	400	REYQ16TH	REYQ8T x 2	BHFP26P90	200 to 520 (640)	26 (32)
18	50.4	450	REYQ18TH	REYQ8T + REYQ10T		225 to 585 (720)	29 (36)
20	55.9	500	REYQ20TH	REYQ8T + REYQ12T		250 to 650 (800)	32 (40)
24	67.2	600	REYQ24TH	REYQ8T x 3	BHFP26P136	300 to 780 (780)	39 (39)
26	72.8	650	REYQ26TH	REYQ8Tx 2 + REYQ10T		325 to 845 (845)	42 (42)
28	78.3	700	REYQ28TH	REYQ8Tx 2 + REYQ12T		350 to 910 (910)	45 (45)
30	83.9	750	REYQ30TH	REYQ8T+ REYQ10T+ REYQ12T		375 to 975 (975)	48 (48)
32	89.4	800	REYQ32TH	REYQ8T+ REYQ12Tx 2		400 to 1,040 (1,040)	52 (52)

Note: *1. The outdoor unit multi connection piping kit (separately sold) is required for multiple connection.
*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 14 for notes on connection capacity of indoor units.

BS Units

Individual BS Unit

MODEL				BSQ100AV1	BSQ160AV1	BSQ250AV1
Power supply				1-phase, 220-240 V, 50 Hz		
No. of branches				1		
Total capacity index of connectable indoor units				20 to 100	More than 100 but 160 or less	More than 100 but 250 or less
No. of connectable indoor units				Max. 5	Max. 8	Max. 8
Casing				Galvanised steel plate		
Dimensions (H×W×D)			mm	207×388×326		
Piping connections	Indoor Unit	Liquid	mm	ϕ9.5 (Brazing)★1	ϕ9.5 (Brazing)	ϕ9.5 (Brazing)
		Gas		ϕ15.9 (Brazing)★1	ϕ15.9 (Brazing)★2	ϕ22.2 (Brazing)★3
	Outdoor Unit	Liquid	mm	ϕ9.5 (Brazing)	ϕ9.5 (Brazing)	ϕ9.5 (Brazing)
		Suction gas		ϕ15.9 (Brazing)	ϕ15.9 (Brazing)★2	ϕ22.2 (Brazing)★3
		High and low pressure gas		ϕ12.7 (Brazing)	ϕ12.7 (Brazing)★2	ϕ19.1 (Brazing)★3
Machine weight			kg	11	11	14
Sound level			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 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

MODEL				BS4Q14AV1	BS6Q14AV1	BS8Q14AV1	BS10Q14AV1	BS12Q14AV1	BS16Q14AV1
Power supply				1-phase, 220-240 V, 50 Hz					
No. of branches				4	6	8	10	12	16
Capacity index of connectable indoor units of branch				Max. 140					
Capacity index of connectable indoor units				Max. 400	Max. 600	Max. 750			
No. of connectable indoor units per branch				5					
Casing				Galvanised steel plate					
Dimensions (H×W×D)			mm	298×370×430	298×580×430		298×820×430		298×1060×430
Piping connections	Indoor Unit	Liquid	mm	ϕ9.5,ϕ6.4 Brazing★1					
		Gas		ϕ15.9, ϕ12.7 Brazing★1					
	Outdoor Unit	Liquid	mm	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
		Suction gas		ϕ22.2 Brazing (ϕ19.1)★2	ϕ28.6 Brazing★2		ϕ28.6 Brazing(ϕ34.9)★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	ϕ28.6 Brazing★2		
Machine weight			kg	17	24	26	35	38	50
Sound level			dB(A)	38(45)★3	39(47)★3		40(48)★3		41(49)★3
Drain 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.

Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type

No.	Item \ Type			FXFQ25S	FXFQ32S	FXFQ40S	FXFQ50S	FXFQ63S	FXFQ80S	FXFQ100S	FXFQ125S
1	Decoration panel			BYCQ125B-W1							
2	Sealing material of air discharge outlet			KDBHQ55B140							
3	Panel spacer			KDBP55H160FA							
4	Filter related	High efficiency filter unit 65%		KAFP556B80						KAFP556B160	
		High efficiency filter unit 90%		KAFP557B80						KAFP557B160	
		Replacement high efficiency filter 65%		KAFP552B80						KAFP552B160	
		Replacement high efficiency filter 90%		KAFP553B80						KAFP553B160	
		Filter chamber		KDDFP55B160							
		Long life replacement filter		KAFP551K160							
		Ultra long-life filter		KAFP55B160							
		Replacement ultra long-life filter		KAFP55H160H							
5	Fresh air intake kit	Chamber type	Without T joint-pipe and fan	KDDQ55B140							
			With T joint-pipe without fan	KDDP55B160K							
		Direct installation type		KDDP55X160							
6	Branch duct chamber			KDJP55B80						KDJP55B160	
7	Insulation kit for high humidity			KDTP55K80						KDTP55K160	

Ceiling Mounted Cassette (Round Flow) Type

No.	Item \ Type			FXFQ25LU	FXFQ32LU	FXFQ40LU	FXFQ50LU	FXFQ63LU	FXFQ80LU	FXFQ100LU	FXFQ125LU
1	Decoration panel			BYCP125K-W1							
2	Sealing material of air discharge outlet			KDBH55K160F							
3	Panel spacer			KDBP55H160FA							
4	Filter related	High efficiency filter unit 65%		KAFP556B80						KAFP556B160	
		High efficiency filter unit 90%		KAFP557B80						KAFP557B160	
		Replacement high efficiency filter 65%		KAFP552B80						KAFP552B160	
		Replacement high efficiency filter 90%		KAFP553B80						KAFP553B160	
		Filter chamber		KDDFP55B160							
		Long life replacement filter		KAFP551K160							
		Ultra long-life filter		KAFP55B160							
		Replacement ultra long-life filter		KAFP55H160H							
5	Fresh air intake kit	Chamber type	Without T joint-pipe and fan	KDDP55B160							
			With T joint-pipe without fan	KDDP55B160K							
		Direct installation type		KDDP55X160							
6	Branch duct chamber			KDJP55B80						KDJP55B160	
7	Chamber connection kit			KKSJ55KA160							
8	Insulation kit for high humidity			KDTP55K80						KDTP55K160	

Ceiling Mounted Cassette (Compact Multi Flow) Type

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

4-Way Flow Ceiling Suspended Type

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

Ceiling Mounted Cassette (Double Flow) Type

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

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

Option List

VRV IV

Indoor Units

Ceiling Mounted Cassette Corner Type

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

Slim Ceiling Mounted Duct Type

No.	Item	Type	FXDQ20PB	FXDQ25PB	FXDQ32PB	FXDQ40NB	FXDQ50NB	FXDQ63NB
1	Insulation kit for high humidity		KDT25N32			KDT25N50		KDT25N63

Middle Static Pressure Ceiling Mounted Duct Type

No.	Item	Type	FXSQ20P FXSQ25P FXSQ32P	FXSQ40P	FXSQ50P FXSQ63P FXSQ80P	FXSQ100P FXSQ125P	FXSQ140P
1	High efficiency filter *1	65%	KAFP632B36	KAFP632B56	KAFP632B80	KAFP632B160	KAF632B160B
		90%	KAFP633B36	KAFP633B56	KAFP633B80	KAFP633B160	KAF633B160B
2	Filter chamber (for rear suction) *1		KDDFP63B36	KDDFP63B56	KDDFP63B80	KDDFP63B160	KDDF63B160B
3	Long-life filter *1		KAFP631B36	KAFP631B56	KAFP631B80	KAFP631B160	KAF631B160B
4	Service panel	White	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W	
		Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T	
5	Air discharge adaptor		KDAP25A36A	KDAP25A56A	KDAP25A71A	KDAP25A140A	KDAP25A160A *2
6	Shield plate for side plate		KDBD63A160				–

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	Type	FXMQ20P FXMQ25P FXMQ32P	FXMQ40P	FXMQ50P FXMQ63P FXMQ80P	FXMQ100P FXMQ125P FXMQ140P	FXMQ200MA FXMQ250MA
1	Drain pump kit		–				KDU30L250VE
2	High efficiency filter	65%	KAF372AA36	KAF372AA56	KAF372AA80	KAF372AA160	KAFJ372L280
		90%	KAF373AA36	KAF373AA56	KAF373AA80	KAF373AA160	KAFJ373L280
3	Filter chamber		KDDF37AA36	KDDF37AA56	KDDF37AA80	KDDF37AA160	KDJ3705L280
4	Long life replacement filter		KAF371AA36	KAF371AA56	KAF371AA80	KAF371AA160	KAFJ371L280
5	Long life filter chamber kit		KAF375AA36	KAF375AA56	KAF375AA80	KAF375AA160	
6	Service panel	White	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W	–
		Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T	
7	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A	

Ceiling Suspended Type

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

Wall Mounted Type

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

Floor Standing Type

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

Concealed Floor Standing Type

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

Outdoor Units

High-COP Type

No.	Item	Type	REYQ16THY1(E) REYQ18THY1(E)	REYQ20THY1(E)	REYQ24THY1(E) REYQ26THY1(E) REYQ28THY1(E) REYQ30THY1(E) REYQ32THY1(E)
1	Distributive piping	REFNET header	KHRP25M33H, KHRP25M72H (Max. 8 branch) (Max. 8 branch)	KHRP25M33H, KHRP25M72H, KHRP25M73H (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)	
		REFNET joint	KHRP25A22T, KHRP25A33T, KHRP25A72T	KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP25A73T	
2	Pipe size reducer		KHRP25A72TP, KHRP25M72HP	KHRP25A72TP, KHRP25M72HP, KHRP25A73TP, KHRP25M73HP	
3	Outdoor unit multi connection piping kit		BHFP26P90		BHFP26P136

Standard Type

No.	Item	Type	REYQ8TY1(E)	REYQ10TY1(E) REYQ12TY1(E) REYQ14TY1(E) REYQ16TY1(E) REYQ18TY1(E)
1	Distributive piping	REFNET header	KHRP25M33H (Max. 8 branch)	KHRP25M33H, KHRP25M72H (Max. 8 branch) (Max. 8 branch)
		REFNET joint	KHRP25A22T, KHRP25A33T	KHRP25A22T, KHRP25A33T, KHRP25A72T
2	Pipe size reducer		–	KHRP25A72TP, KHRP25M72HP
3	Outdoor unit multi connection piping kit		–	

No.	Item	Type	REYQ20TY1(E)	REYQ22TY1(E) REYQ24TY1(E) REYQ26TY1(E) REYQ28TY1(E) REYQ30TY1(E) REYQ32TY1(E) REYQ34TY1(E) REYQ36TY1(E)	REYQ38TY1(E) REYQ40TY1(E) REYQ42TY1(E) REYQ44TY1(E) REYQ46TY1(E) REYQ48TY1(E) REYQ50TY1(E) REYQ52TY1(E) REYQ54TY1(E) REYQ56TY1(E) REYQ58TY1(E) REYQ60TY1(E)
1	Distributive piping	REFNET header	KHRP25M33H, KHRP25M72H, KHRP25M73H (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)		
		REFNET joint	KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP25A73T		
2	Pipe size reducer		KHRP25A72TP, KHRP25M72HP, KHRP25A73TP, KHRP25M73HP		
3	Outdoor unit multi connection piping kit		–	BHFP26P90	BHFP26P136

BS Units

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	BS16Q14AV
1	Closed pipe kit		KHFP26A100C					
2	Joint kit		KHRP26A250T					
3	Quiet kit		KDDN26A4	KDDN26A8		KDDN26A12		KDDN26A16

Control Systems

Operation Control System Optional Accessories

No.	Item \ Type		FXFQ-S	FXFQ-LU	FXZQ-M	FXUQ-A	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB
1	Remote controller	Wireless	BRC7F634F		BRC7E530W	BRC7CB58	BRC4C62	BRC4C61	BRC4C65
		Wired	BRC1C62						
2	Navigation remote controller (Wired remote controller)		BRC1E62 Note 7						
3	Wired remote controller with weekly schedule timer		—	BRC1D61		—	BRC1D61		
4	Simplified remote controller (Exposed type)		—						BRC2C51
5	Remote controller for hotel use (Concealed type)		—						BRC3A61
6	Adaptor for wiring		★KRP1C63		★KRP1BA57	—	★KRP1B61	KRP1B61	★KRP1B56
7-1	Wiring adaptor for electrical appendices (1)		★KRP2A62		★KRP2A62	—	★KRP2A61	KRP2A61	★KRP2A53
7-2	Wiring adaptor for electrical appendices (2)		★KRP4AA53		★KRP4AA53	★KRP4AA53	★KRP4AA51	KRP4AA51	★KRP4A54
8	Remote sensor (for indoor temperature)		KRCS01-4B		KRCS01-1B	KRCS01-4B	KRCS01-1B		
9	Installation box for adaptor PCB☆		Note 2, 3 KRP1H98		Note 4, 6 KRP1BA101	KRP1BA97	Note 2, 3 KRP1B96	—	Note 4, 6 KRP1BA101
10	External control adaptor for outdoor unit		★DTA104A62		★DTA104A62	—	★DTA104A61	DTA104A61	★DTA104A53
11	Adaptor for multi tenant		★DTA114A61		—				

No.	Item \ Type		FXSQ-P	FXMQ-P	FXMQ-MA	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA
1	Remote controller	Wireless	BRC4C65		BRC4C62	BRC7EA63W	BRC7EA618	BRC4C62
		Wired	BRC1C62					
2	Navigation remote controller (Wired remote controller)		BRC1E62 Note 7					
3	Simplified remote controller (Exposed type)		BRC2C51	BRC2C51	BRC2C51	—		BRC2C51
4	Remote controller for hotel use (Concealed type)		BRC3A61	BRC3A61	BRC3A61	—		BRC3A61
5	Adaptor for wiring		★KRP1C64	★KRP1C64	KRP1B61	KRP1BA54	—	KRP1B61
6-1	Wiring adaptor for electrical appendices (1)		★KRP2A61	★KRP2A61	KRP2A61	★KRP2A62	★KRP2A61	KRP2A61
6-2	Wiring adaptor for electrical appendices (2)		★KRP4AA51	★KRP4AA51	KRP4AA51	★KRP4AA52	★KRP4AA51	KRP4AA51
7	Remote sensor (for indoor temperature)		KRCS01-4B	KRCS01-4B	KRCS01-1B			
8	Installation box for adaptor PCB☆		Note 2, 3 KRP4A98	Note 2, 3 KRP4A96	—	Note 3 KRP1CA93	Note 2, 3 KRP4AA93	—
9	External control adaptor for outdoor unit		★DTA104A61	★DTA104A61	DTA104A61	★DTA104A62	★DTA104A61	DTA104A61
10	Adaptor for multi tenant		★DTA114A61	★DTA114A61	—	—	★DTA114A61	—
11	External control adaptor for cooling/heating		—					
12	Remote controller with key		—					

Note: 1. Installation box☆is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box☆is necessary for second adaptor.
6. Installation box☆is necessary for each adaptor.
7. Individual airflow direction, auto airflow rate and sensing sensor control can be set only via wired remote controller BRC1E62. Cannot be set via other remote controllers. Available functions depend on the type of indoor unit.

System Configuration

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

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

Building Management System

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

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

Individual Control Systems

Navigation remote controller (Wired remote controller) (Option)

BRC1E62

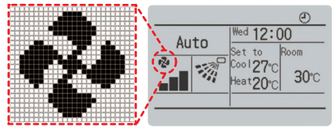
Clear display

•Dot matrix display

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

•Backlight display

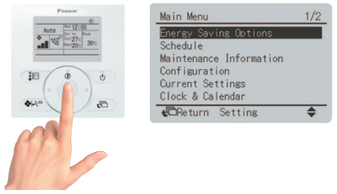
· Backlight display helps operating in dark rooms.



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.



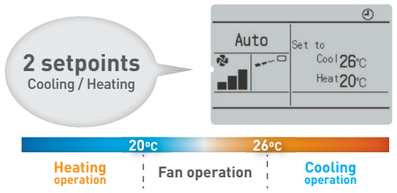
•Guide on display

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

Energy saving

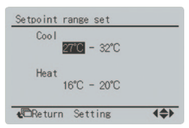
•Auto operation mode

· 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.

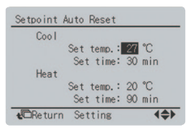


•Off timer

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

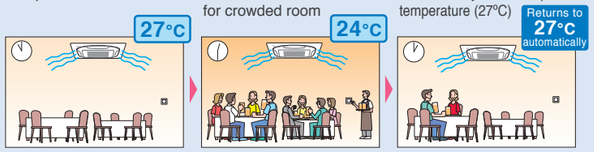
•Setpoint auto reset

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



Restaurant sample

Restaurant opened	Full tables at lunchtime	After 30 minutes*
Temperature is set to 27°C	Then is lowered to 24°C for crowded room	Automatically returns to preset temperature (27°C)



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

Convenience

•Setback (default:OFF)

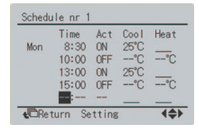
Maintains the room temperature in a specific range during unoccupied period by temporarily starting air conditioner that was turned OFF.

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

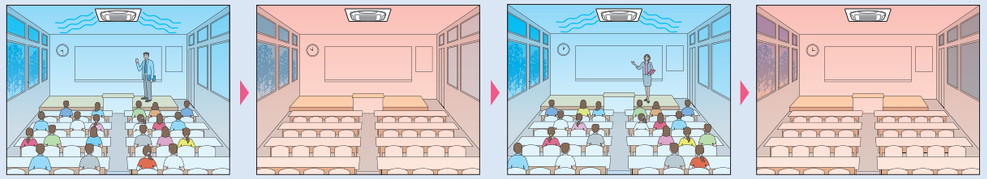
•Weekly schedule

· 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)



College classroom sample (a summer Monday case)

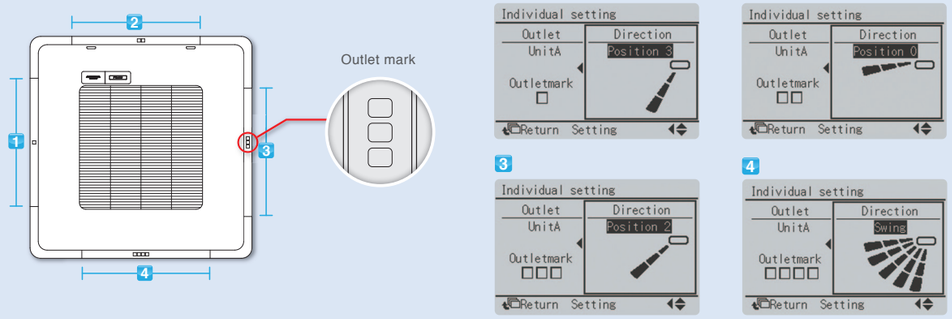
1) 8:30 ON	2) 10:00 OFF	3) 13:00 ON	4) 15:00 OFF
The first period starts and the air conditioner starts the cooling operation.	In the second period, the classroom is unoccupied and the air conditioner stops.	When the third period starts, operation starts again.	After the third period, the classroom becomes vacant again and the air conditioner stops.



Comfort

•Individual airflow direction (*1)

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



•Auto airflow rate (*2)

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

*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

Wired remote controller (Option)

BRC1C62

- 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 changeover**

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.

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

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

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

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

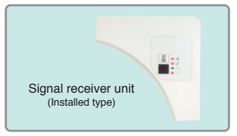
Wireless remote controller (Option)

Wireless remote controller

Signal receiver unit
(Separate type)

- The same operation modes and settings as with wired remote controllers are possible.
  * 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.

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



* Wireless remote controller and signal receiver unit are sold as a set.
* Refer to page 55 for the name of each model.

Simplified remote controller (Option)

Exposed type
(BRC2C51)

Concealed type
(For hotel use)
(BRC3A61)

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

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

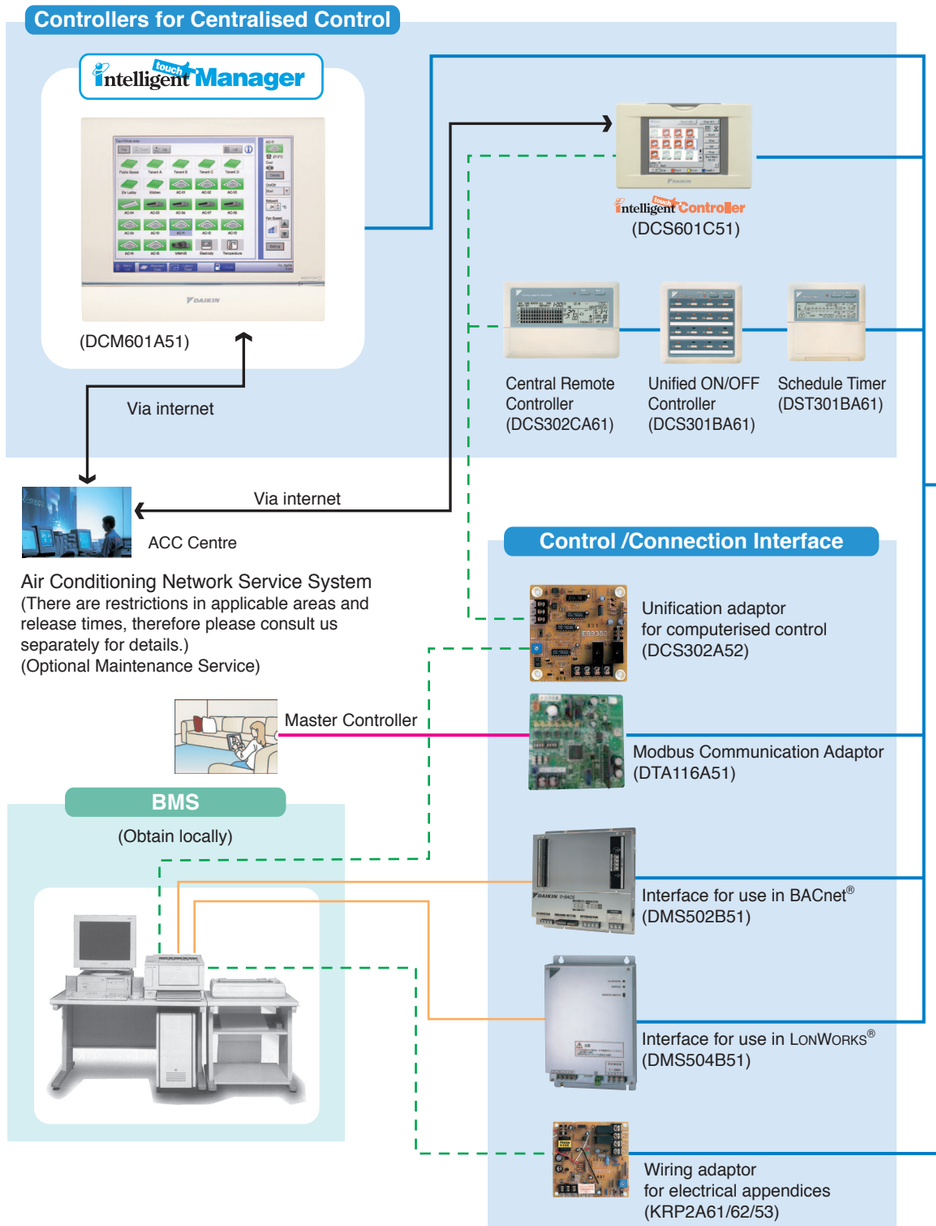
Wide variation of remote controllers for indoor units

	FXFQ-S	FXFQ-LU	FXZQ	FXCQ	FXUQ	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 55 for the name of each model.

Integrated Building Monitoring System

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



DIII-NET Line

BACnet®/Ethernet or LONWORKS® Network Communication Line

Contact Signal Line

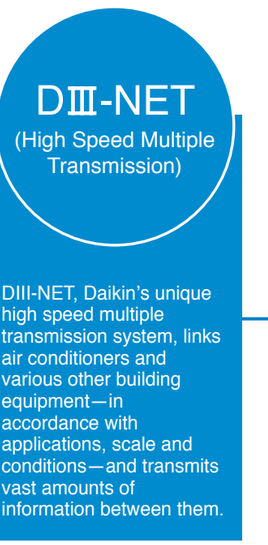
RS485 Modbus Line

The DIII-NET system provides for:

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

DIII-NET
(High Speed Multiple Transmission)

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



Interface Adaptor for SkyAir Series (DTA112BA51)

Central Control Adaptor Kit (DTA107A55)

Interface Adaptor for DIII-NET use (KRP928BB2S)

Di unit (DEC101A51)
Dio unit (DEC102A51)

* No adaptor is required for some indoor units.

Building services equipment

- Electrical equipment
- Supply water and drainage equipment
- Automatic fire alarm
- Parking equipment
- Lift
- Ventilation equipment
- Lighting
- Crime and fire prevention equipment

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

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

Advanced Control Systems

intelligent touch Manager

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.

intelligent touch Manager System Overview

Features

■ Central control

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

■ Remote access

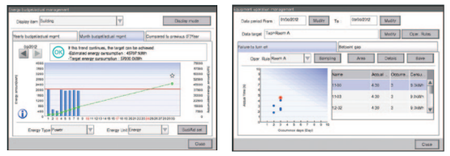
- Remote access with a PC allows total air conditioning management using the same type of screens as those displayed in the *intelligent touch Manager.*
- Authorised users can centrally control individual air conditioning units from their own computers.

■ Automatic control

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

■ Energy management

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



■ Troubleshooting

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

■ Scalability

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

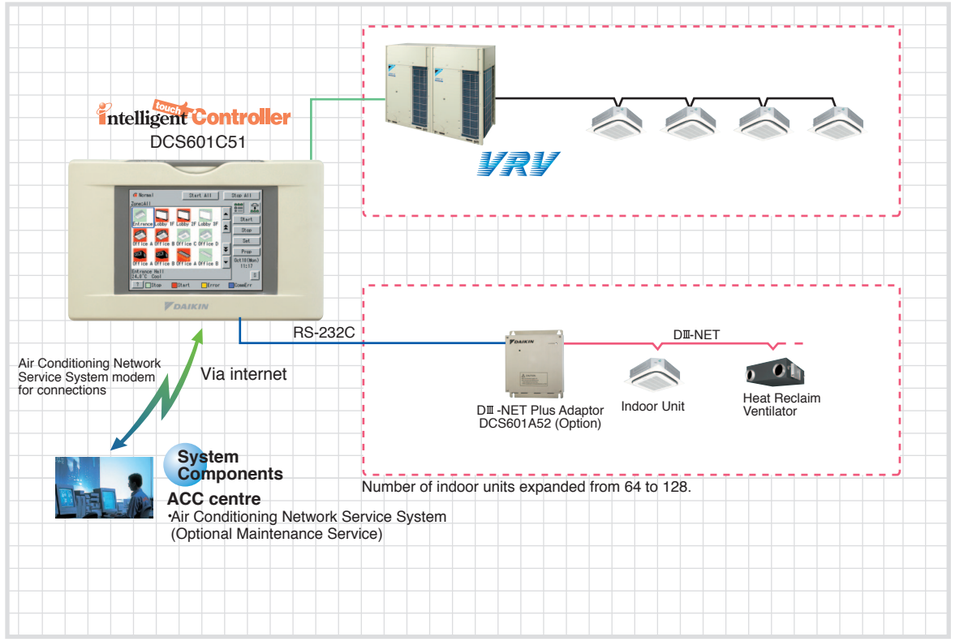
■ Connectivity

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

Advanced Control Systems

intelligent touch Controller

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

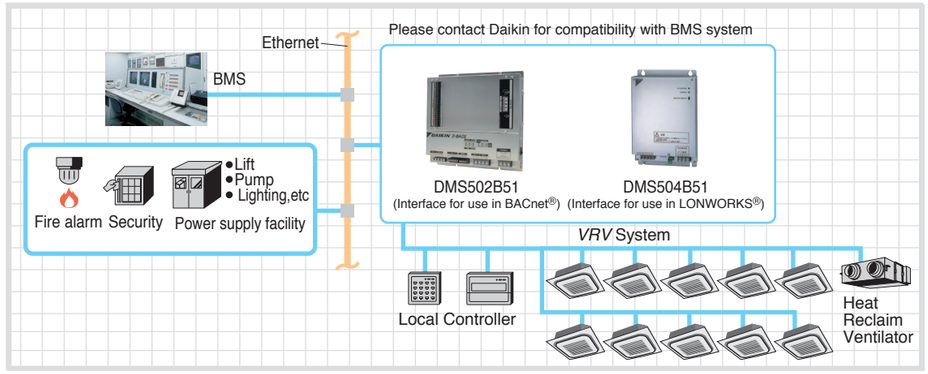


Features

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

Interface for BACnet® and LONWORKS®

Integrated control systems that recognise the trend of open control systems



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

DMS502B51 Interface for use in BACnet®

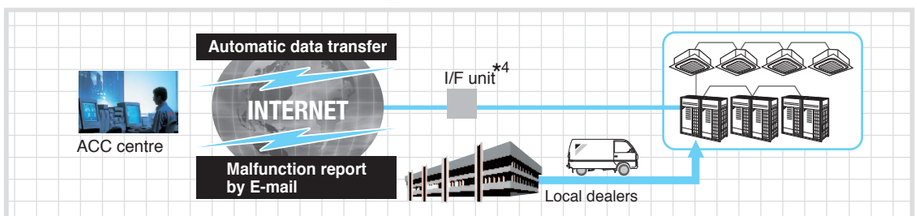
- Support for Heat Reclaim Ventilator VAM series
- Selectable temperature unit
- BTL Certification
- PPD data (Optional Di board is required.)
- ISO 16484-5 (Does not support IEEE 802.3 protocol for BACnet®)
- Up to 40 outdoor units and 256 indoor unit groups on one gateway (optional adaptor)

DMS504B51 Interface for use in LONWORKS®

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

Air Conditioning Network Service System

Maintenance services that boost profits and customer satisfaction

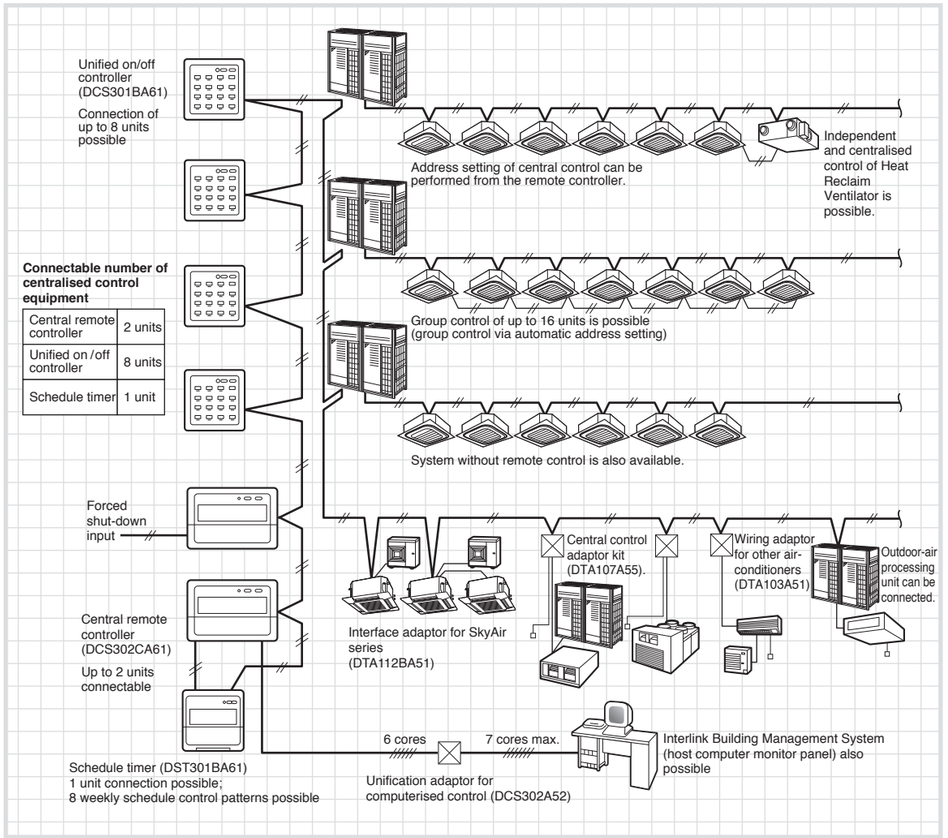


- 24 hour on-line diagnostic system
- Energy saving and extension of aircon operating life
- Maintenance management via A/C network service system reports
- Reliable service at shortest lead time

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

Centralised Control Systems

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



- Certain indoor units limit the functions of some control systems.

For more details, please refer to the Engineering Data.

Residential central remote controller* (Option)

DCS303A51

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

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

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

Central remote controller (Option)

DCS302CA61

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

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

Unified ON/OFF controller (Option)

DCS301BA61

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

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

Schedule timer (Option)

DST301BA61

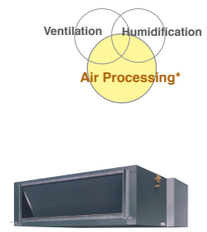
Max. 128 indoor units can be operated as programmed schedule.

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

Air Treatment Equipment Lineup

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★1, due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure★2 offers more flexibility for installation. The Heat Reclaim Ventilator VKM-GAM series units, equipped with a DX-coil and a humidifier, provide further advanced features, such as temperature adjustment to suit conditions indoors and to prevent cold air from blowing on people directly during heating operation. The series also realises significant energy savings by exercising heat recovery.

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

		Outdoor-Air Processing Unit	Heat Reclaim Ventilator		
			VKM-GAM Type	VKM-GA Type	VAM-GJ Type
					
Connections with *VRV* IV	Refrigerant Piping	Connectable	Connectable		Not connectable
	Wiring	Connectable	Connectable		Connectable
	After-cool & After-heat Control	Available	Available		Not available
Heat Exchange Element		–	Energy savings obtained		Energy savings obtained
Humidifier		–	Fitted	–	–
High Efficiency Filter		Option	Option		Option
Ventilation System		Air supply only	Air supply & air exhaust		Air supply & air exhaust
Power Supply		220-240 V, 50 Hz	220-240 V, 50 Hz		220-240 V/220 V, 50 Hz/60 Hz
Airflow Rate		1080 m^3/h 1680 m^3/h 2100 m^3/h	500 m^3/h 800 m^3/h 1000 m^3/h		150 m^3/h 250 m^3/h 350 m^3/h 500 m^3/h 650 m^3/h 800 m^3/h 1000 m^3/h 1500 m^3/h 2000 m^3/h

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

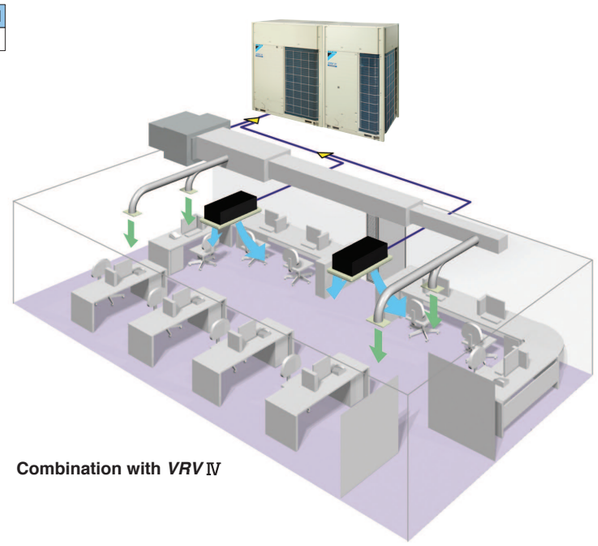
Outdoor-Air Processing Unit

Combine fresh air treatmentand air conditioning, supplied from a single system.

Lineup

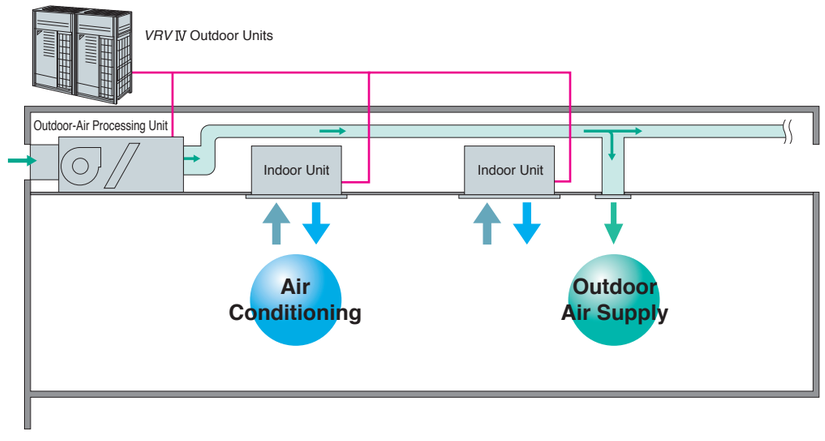
Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250

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.



Combination with *VRV* Ⅳ

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

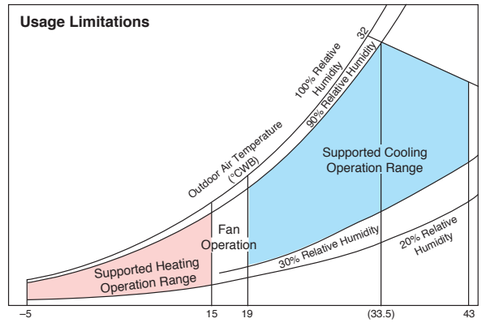
- The unit introduces outdoor air and adjusts the outdoor air temperature via fixed discharge temperature control, thereby reducing the air conditioning load.
  * The system can operate with outdoor-air temperatures ranging from -5 to 43°C. Heating performance is somewhat adversely affected when the 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 m³/h

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

Usage Limitations



Notes:
1. 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
2. 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.
3. 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 supply			1-phase 220-240 V (also required for indoor units), 50 Hz		
Cooling capacity *1		kcal/h	12,000	19,300	24,100
		Btu/h	47,800	76,400	95,500
		kW	14.0	22.4	28.0
Heating capacity *1		kcal/h	7,700	12,000	15,000
		Btu/h	30,400	47,400	59,400
		kW	8.9	13.9	17.4
Power consumption		kW	0.359	0.548	0.638
Casing			Galvanised steel plate		
Dimensions (HXWXD)		mm	470X744X1,100	470X1,380X1,100	
Fan	Motor output	kW	0.380		
	Airflow rate	m^3/min	18	28	35
		cfm	635	988	1,236
	External static pressure 220 V/240 V	Pa	185/225	225/275	205/255
Air filter			*2		
Refrigerant piping	Liquid	mm	ϕ 9.5 (flare)		
	Gas	mm	ϕ 15.9 (flare)	ϕ 19.1 (brazing)	ϕ 22.2 (brazing)
	Drain	mm	PS1B female thread		
Machine weight		kg	86	123	
Sound level *3 220 V/240 V		dB(A)	42/43	47/48	
Connectable outdoor units *4			8 HP and above		10 HP and above
Operation range (Fan mode operation between 15 and 19°C)		Cooling	19 to 43°C		
		Heating	-5 to 15°C		
Range of the discharge temperature *5		Cooling	13 to 25°C		
		Heating	18 to 30°C		

Notes: *1. Specifications are based on the following conditions;
- Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
- 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 system.

OPTIONS

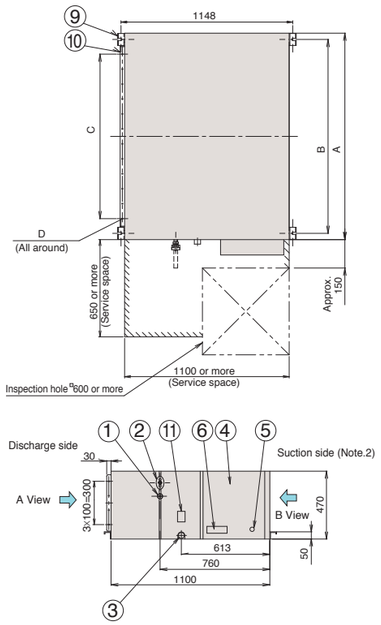
Indoor unit

Model			FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Operation/control	Operation remote controller		BRC1E62/BRC1C62		
	Central remote controller		DCS302CA61		
	Unified ON/OFF controller		DCS301BA61		
	Schedule timer		DST301BA61		
	Wiring adaptor for electrical appendices (1)		KRP2A61		
	Wiring adaptor for electrical appendices (2)		KRP4AA51		
Filters	Long-life replacement filter		KAFJ371L140	KAFJ371L280	
	High-efficiency filter	Colourimetric method 65%	KAFJ372L140	KAFJ372L280	
		Colourimetric method 90%	KAFJ373L140	KAFJ373L280	
	Filter chamber *1		KDJ3705L140	KDJ3705L280	
Drain pump kit			KDU30L250VE		
Adaptor for wiring			KRP1B61		

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

Dimensions

FXMQ125/200/250MFV1



*These diagrams are based on FXMQ200 and FXMQ250MFV1.

Local connection piping size

Model	Gas piping diameter	Liquid piping diameter
FXMQ125MFV1	ϕ15.9	ϕ9.5
FXMQ200MFV1	ϕ19.1 attached piping	ϕ9.5
FXMQ250MFV1	ϕ22.2 attached piping	ϕ9.5

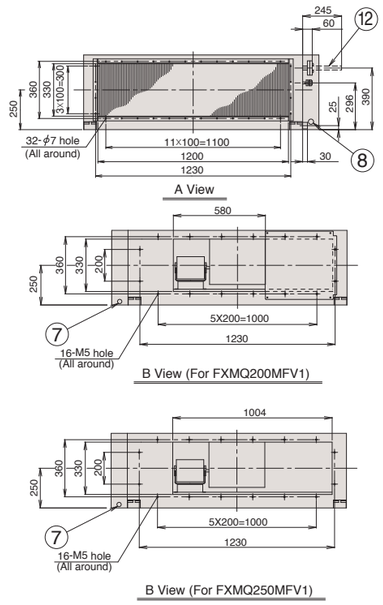
Table of dimensions

Model	A	B	C	D
FXMQ125MFV1	744	685	5X100=500	20-ϕ4.7 hole
FXMQ200MFV1	1380	1296	11X100=1100	32-ϕ4.7 hole
FXMQ250MFV1	1380	1296	11X100=1100	32-ϕ4.7 hole

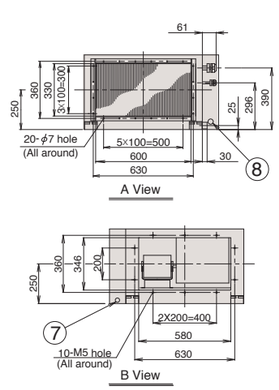
Notes:
1. The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (② in the diagram) has a different bore form with FXMQ125MFV1.
2. An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side.[Use a filter with dust 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
③ Drain piping connection
④ Electric parts box
⑤ Ground terminal
⑥ Name plate
⑦ Power supply wiring connection
⑧ Transmission wiring connection
⑨ Hanger bracket
⑩ Discharge companion flange
⑪ Water supply port
⑫ Attached piping (Note. 1)

FXMQ200/250MFV1

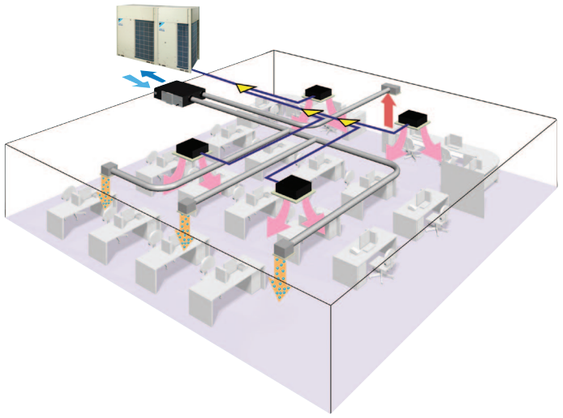


FXMQ125MFV1



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

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



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

With DX Coil 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)

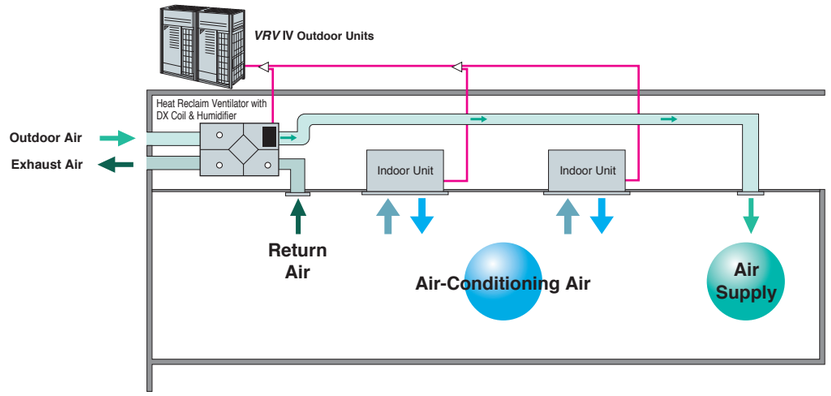
DX-coil

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.



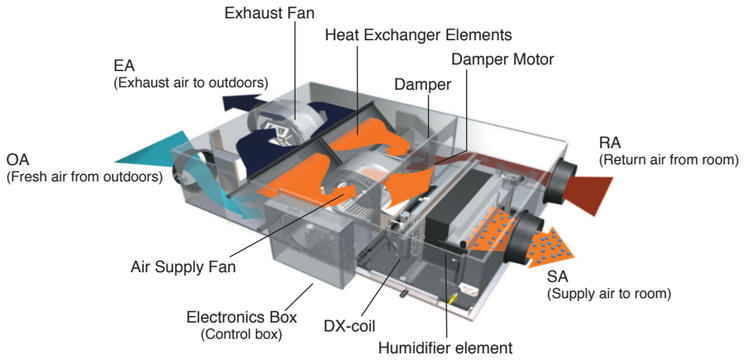
Connection Conditions

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

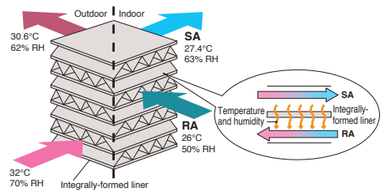
- When the Heat Reclaim Ventilator VKM series units are connected, the total connection capacity index must be 50% to 130% of the capacity index of the outdoor units.

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

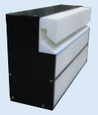
HEP Element
(Anti-mould)



Operation of the heat exchanger element

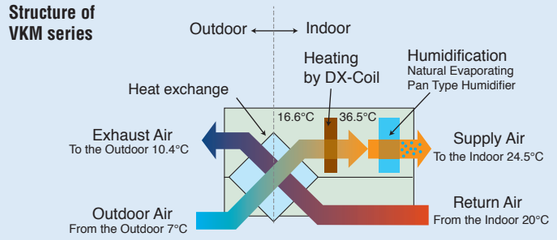


DX-coil (Direct expansion coil)



Humidifier element

Heating and humidification process



Humidification:5.4kg/h (VKM100GAMV1)

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

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

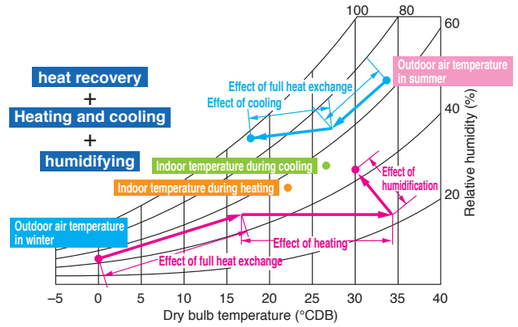
Efficient outdoor air introduction with heat exchanger and cooling/heating operation

Indoor unit with outdoor air treatment

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

Other features

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



Specifications

MODEL				VKM50GAMV1 *	VKM80GAMV1 *	VKM100GAMV1*	VKM50GAV1	VKM80GAV1	VKM100GAV1
Refrigerant				R-410A					
Power Supply				1-phase, 220–240 V, 50 Hz					
Airflow Rate & Static Pressure (Note 7)	Ultra-high	Airflow rate	m^3/h	500	750	950	500	750	950
		Static pressure	Pa	160	140	110	180	170	150
	High	Airflow rate	m^3/h	500	750	950	500	750	950
		Static pressure	Pa	120	90	70	150	120	100
	Low	Airflow rate	m^3/h	440	640	820	440	640	820
		Static pressure	Pa	100	70	60	110	80	70
Power Consumption	Heat exchange mode	Ultra-high	W	560	620	670	560	620	670
		High		490	560	570	490	560	570
		Low		420	470	480	420	470	480
	Bypass mode	Ultra-high	W	560	620	670	560	620	670
		High		490	560	570	490	560	570
		Low		420	470	480	420	470	480
Fan Type				Sirocco Fan					
Motor Output			kW	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2
Sound Level (Note 5) (220/230/240 V)	Heat exchange mode	Ultra-high	dB(A)	37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41
		High		35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39
		Low		32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5
	Bypass mode	Ultra-high	dB(A)	37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41
		High		35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39
		Low		32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5
Humidification Capacity (Note 4)			kg/h	2.7	4.0	5.4	—		
Temp. Exchange Efficiency	Ultra-high		%	76	78	74	76	78	74
	High			76	78	74	76	78	74
	Low			77.5	79	76.5	77.5	79	76.5
Enthalpy Exchange Efficiency (Cooling)	Ultra-high		%	64	66	62	64	66	62
	High			64	66	62	64	66	62
	Low			67	68	66	67	68	66
Enthalpy Exchange Efficiency (Heating)	Ultra-high		%	67	71	65	67	71	65
	High			67	71	65	67	71	65
	Low			69	73	69	69	73	69
Casing				Galvan ised Steel Plate					
Insulating Material				Self-Extinguishable Urethane Foam					
Heat Exchanging System				Air to Air Cross Flow Total Heat (Sensible + Latent Heat) Exchange					
Heat Exchanger Element				Specially Processed Nonflammable Paper					
Air Filter				Multidirectional Fibrous Fleeces					
DX-coil Capacity	Cooling (Note 2)		kW	2.8	4.5	5.6	2.8	4.5	5.6
	Heating (Note 3)			3.2	5.0	6.4	3.2	5.0	6.4
Dimensions	Height		mm	387	387	387	387	387	387
	Width			1,764	1,764	1,764	1,764	1,764	1,764
	Depth			832	1,214	1,214	832	1,214	1,214
Connection Duct Diameter			mm	ϕ200	ϕ250		ϕ200	ϕ250	
Machine Weight		Net	kg	102	120	125	96	109	114
		Gross (Note 8)		107	129	134	—		
Unit Ambient Condition		Around Unit		0°C–40°C DB, 80%RH or less					
		OA (Note 9)		-15°C–40°C DB, 80%RH or less					
		RA (Note 9)		0°C–40°C DB, 80%RH or less					

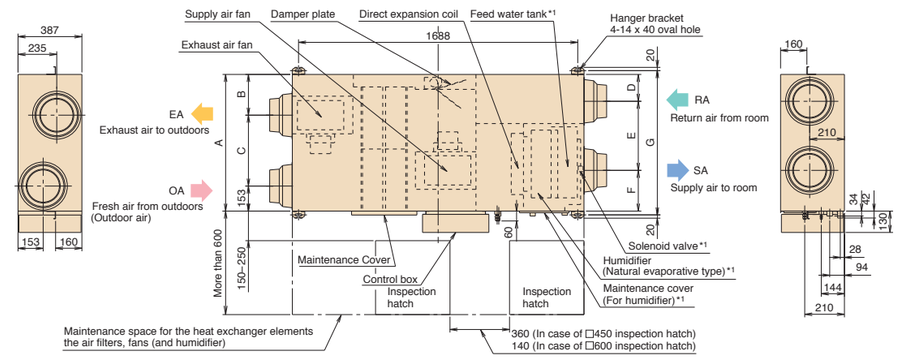
Notes:
1. Cooling and heating capacities are based on the following conditions. Fan is based on High and Ultra-high.
   When calculating the capacity as indoor units, use the following figures:
   VKM50GAMV1/GV1: 3.5 kW, VKM80GAMV1/GV1: 5.6 kW, VKM100GAMV1/GV1: 7.0 kW
2. Indoor temperature: 27°C DB,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

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

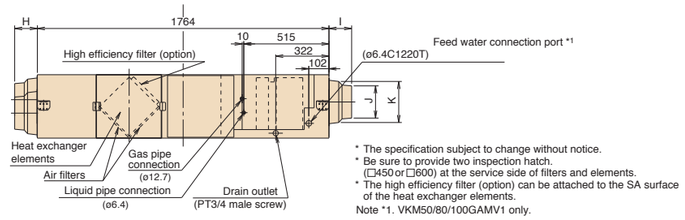
* Life of humidifying element is about 3 years (4,000 hours) under the supply water conditions of hardness: 150 mg/l. (Life of humidifying element is about 1 year (1,500 hours) under the supply water conditions of hardness: 400 mg/l.)
Annual operating hours: 10 hours/day x 26 days/month x 5 months =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

Dimensions

VKM50/80/100GA(M)V1



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



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

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

Options

Item \ Type			VKM50/80/100GA(M)V1
Controlling device	Remote controller		BRC1E62/BRC1C62 *1
	Centralised controlling device	Residential central remote controller	DCS303A51 *2
		Central remote controller	DCS302CA61
		Unified ON/OFF controller	DCS301BA61
		Schedule timer	DST301BA61
	PC Board Adaptor	Wiring adaptor for electrical appendices	KRP2A61
		For humidifier running ON signal output	KRP50-2
		For heater control kit	BRP4A50
		For wiring — Type (indoor unit of *VRV*)	FXFQ-S FXFQ-LU / FXZQ-M / FXUQ-A / FXCQ-M / FXKQ-MA / FXDQ-PB FXDQ-NB / FXSQ-P / 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 KRP1H98 / Note 4, 6 KRP1BA101 / — / Notes 2, 3 KRP1B96 / — / Notes 4, 6 KRP1BA101 / Note 2, 3 KRP4A98 / 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.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box ☆ is necessary for second adaptor.
6. Installation box ☆ is necessary for each adaptor.
7. *1 Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When operating interlocked with other air conditioners, use the remote controllers of the air conditioners.
   *2 For residential use only. When connected with a Heat Reclaim Ventilator (VKM), you can only switch the power ON/OFF. Cannot be used with other centralised control equipment.

Item \ Type			VKM50GA(M)V1	VKM80GA(M)V1	VKM100GA(M)V1
Additional function	Silencer		—	KDDM24B100	
	Air suction/ Discharge grille	Nominal pipe diameter mm	—	ϕ 250 mm	
		White	K-DGL200B	K-DGL250B	
		Nominal pipe diameter mm	ϕ 200	ϕ 250	
	High efficiency filter		KAF242H80M	KAF242H100M	
	Air filter for replacement		KAF241G80M	KAF241G100M	
Flexible duct (1 m)			K-FDS201D	K-FDS251D	
Flexible duct (2 m)			K-FDS202D	K-FDS252D	

Heat Reclaim Ventilator — VAM series

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

Model Names

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

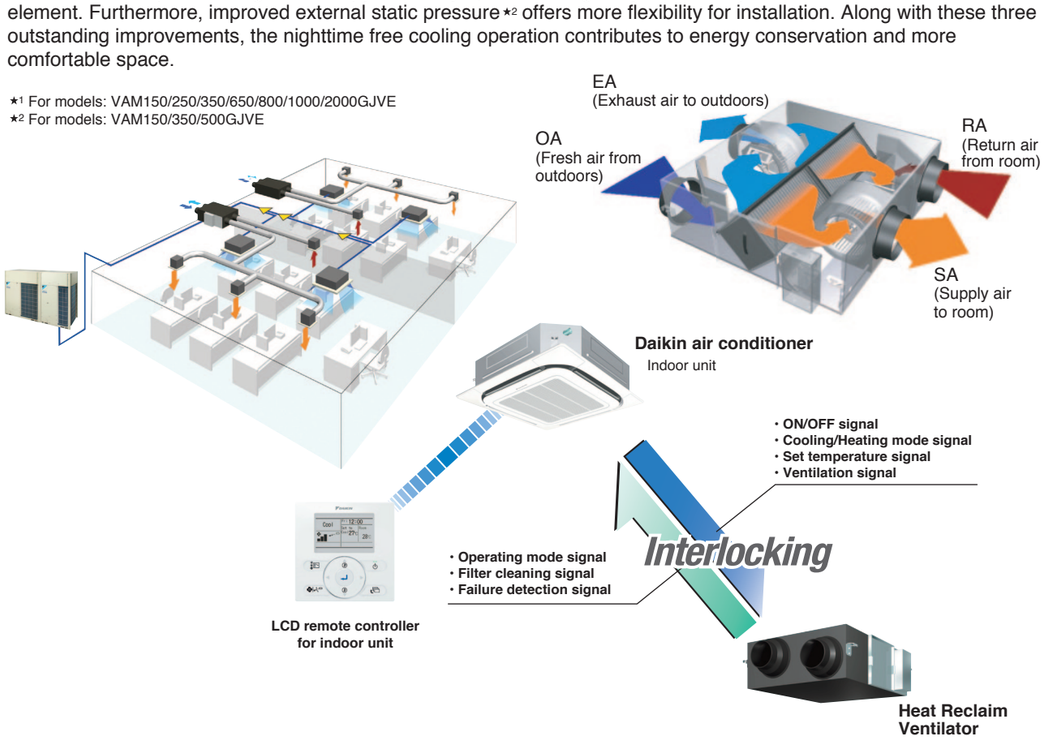
Heat Reclaim Ventilator remote controller*
BRC301B61 (Option)

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

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

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

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



Compact Equipment

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

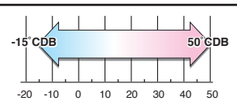
* For VAM500GJVE

Energy Conservation

Air conditioning load reduced by approximately 31%!

Cold Climate Compatible

Standard operation at temperatures down to -15°C.



Air conditioning load reduced by approximately 31%!

Total heat exchange ventilation — 23%

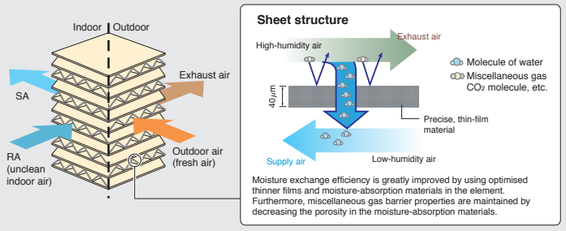
This unit recovers heat energy lost through ventilation and curbs room temperature changes caused by ventilation, thereby conserving energy and reducing the load on the air conditioning system.

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

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

Moisture absorption increased by approx. 10%!

Thickness of the partition sheet **40 μm**



\+

Auto-ventilation Mode Changeover Switching — 6%

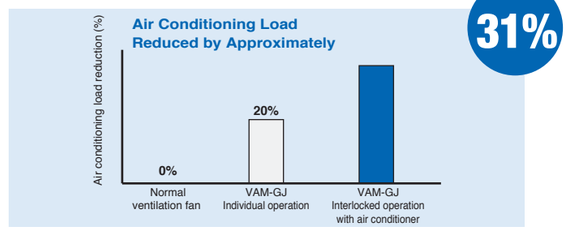
Automatically switches the ventilation mode (Total Heat Exchange Mode/Bypass Mode) according to the operating status of the air conditioner.

\+

Pre-cool, Pre-heat Control — 2%

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

=



- The air conditioning load reduction values may vary according to weather and other environmental conditions at the location of the machine's installation.
- The air conditioning load reduction values are based on the following conditions;
  Application: Tokyo office building
  Building form: 6 floors above ground, 2 floors underground, floor area 2,100 m^2
  Personnel density: 0.25 person/m^2
  Ventilation volume: 25 m^3/h
  Indoor air conditioning level: summer 25°C 50% RH, intermediate seasons 24°C 50% RH, winter 22°C 40% RH
  Operating time: 2745 hours (9 hours per day, approx. 25 days per month)
  Calculation method: simulation based on "MICRO-HASP/1982" of the Japan Building Mechanical and Electrical Engineers Association.

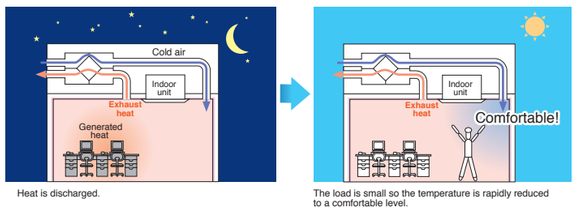
Nighttime free cooling operation*1

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

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

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

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



*Interlocked operation with an air conditioner

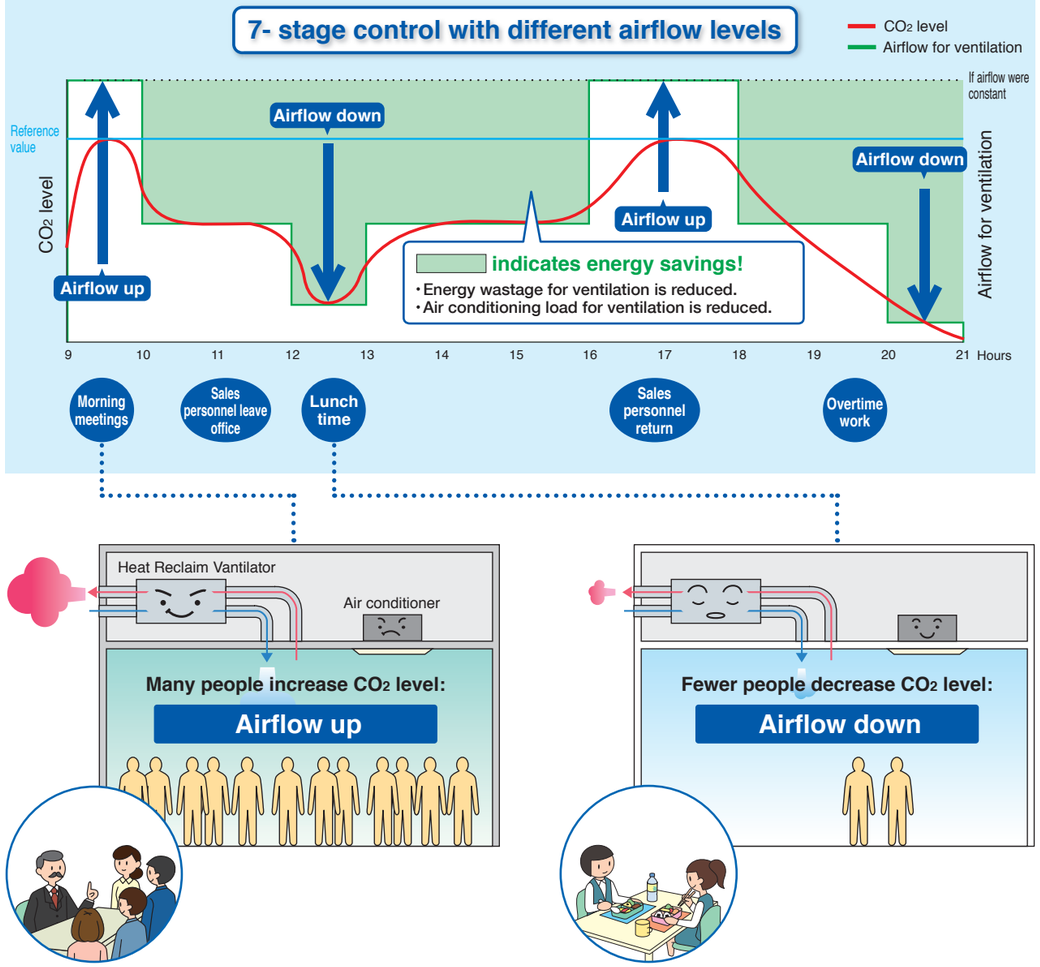
*1 This function can be operated only when interlocked with air conditioners.
*2 Value is based on the following conditions:
- Cooling operation performed from April to October.
- Calculated for air conditioning sensible heat load only (latent heat load not included).

Heat Reclaim Ventilator — VAM series

CO_2 Sensor Optional Kit Connection

The CO_2 sensor controls airflow so that it best matches the changes in CO_2 level. This prevents energy losses from over-ventilation while maintaining indoor air quality with optional CO_2 sensor.

● **Example of CO_2 sensor operation in an office room:**



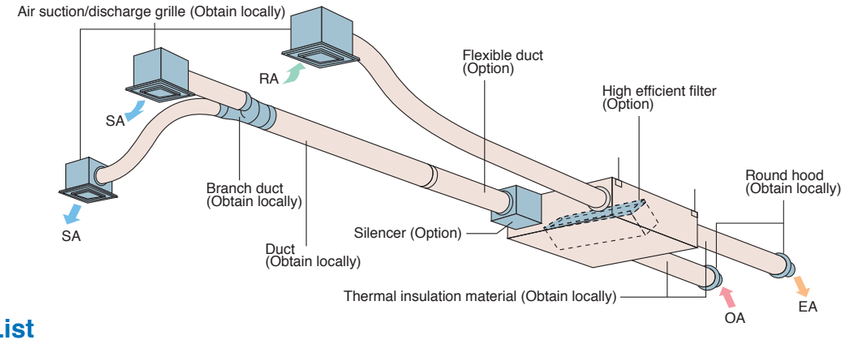
Specifications

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

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

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

Options



Option List

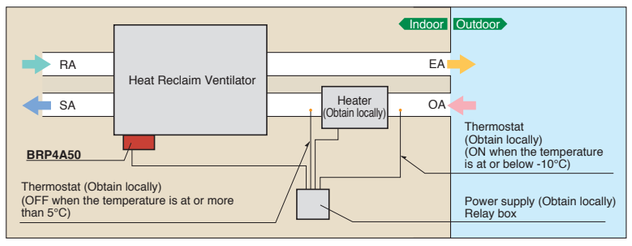
Item			Type	VAM150 · 250 · 350 · 500 · 650 · 800 · 1000 · 1500 · 2000GJVE										
Controlling device	Heat Reclaim Ventilator remote controller			BRC301B61										
	Centralised controlling device	Residential central remote controller		DCS303A51 *1										
		Central remote controller		DCS302CA61										
		Unified ON/OFF controller		DCS301BA61										
		Schedule timer		DST301BA61										
	PC Board Adaptor	Wiring adaptor for electrical appendices		KRP2A61										
		For humidifier		KRP50-2										
		Installation box for adaptor PCB		KRP50-2A90 (Mounted electric component assy of Heat Reclaim Ventilator)										
		For heater control kit		BRP4A50										
		For wiring	Type (indoor unit of *VRV*)	FXFQ-S FXFQ-LU	FXZQ-M	FXUQ-A	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB	FXSQ-P	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 KRP1H98	Note 4, 6 KRP1BA101	—	Notes 2, 3 KRP1B96	—	Notes 4, 6 KRP1BA101	Note 2, 3 KRP4A98	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.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box ☆ is necessary for second adaptor.
6. Installation box ☆ is necessary for each adaptor.
7. *1 For residential use only. When connected with a Heat Reclaim Ventilator (VAM), you can only switch the power ON/OFF. Cannot be used with other centralised control equipment.

Item			Type	VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Additional function	Silencer			—			KDDM24B50	KDDM24B100			KDDM24B100×2	
		Nominal pipe diameter	mm	—			ϕ 200		ϕ 250			
	High efficiency filter			KAF242H25M		KAF242H50M		KAF242H65M	KAF242H80M	KAF242H100M	KAF242H80MX2	KAF242H100MX2
	Air filter for replacement			KAF241G25M		KAF241G50M		KAF241G65M	KAF241G80M	KAF241G100M	KAF241G80MX2	KAF241G100MX2
Flexible duct (1 m)				K-FDS101D	K-FDS151D		K-FDS201D		K-FDS251D			
Flexible duct (2 m)				K-FDS102D	K-FDS152D		K-FDS202D		K-FDS252D			
Duct adaptor				—							YDFA25A1	
		Nominal pipe diameter	mm	—							ϕ 250	
CO_2 sensor				—		BRYMA65			BRYMA100		BRYMA65	BRYMA100

PC board adaptor for heater control kit (BRP4A50)

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



Notes when installing

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