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

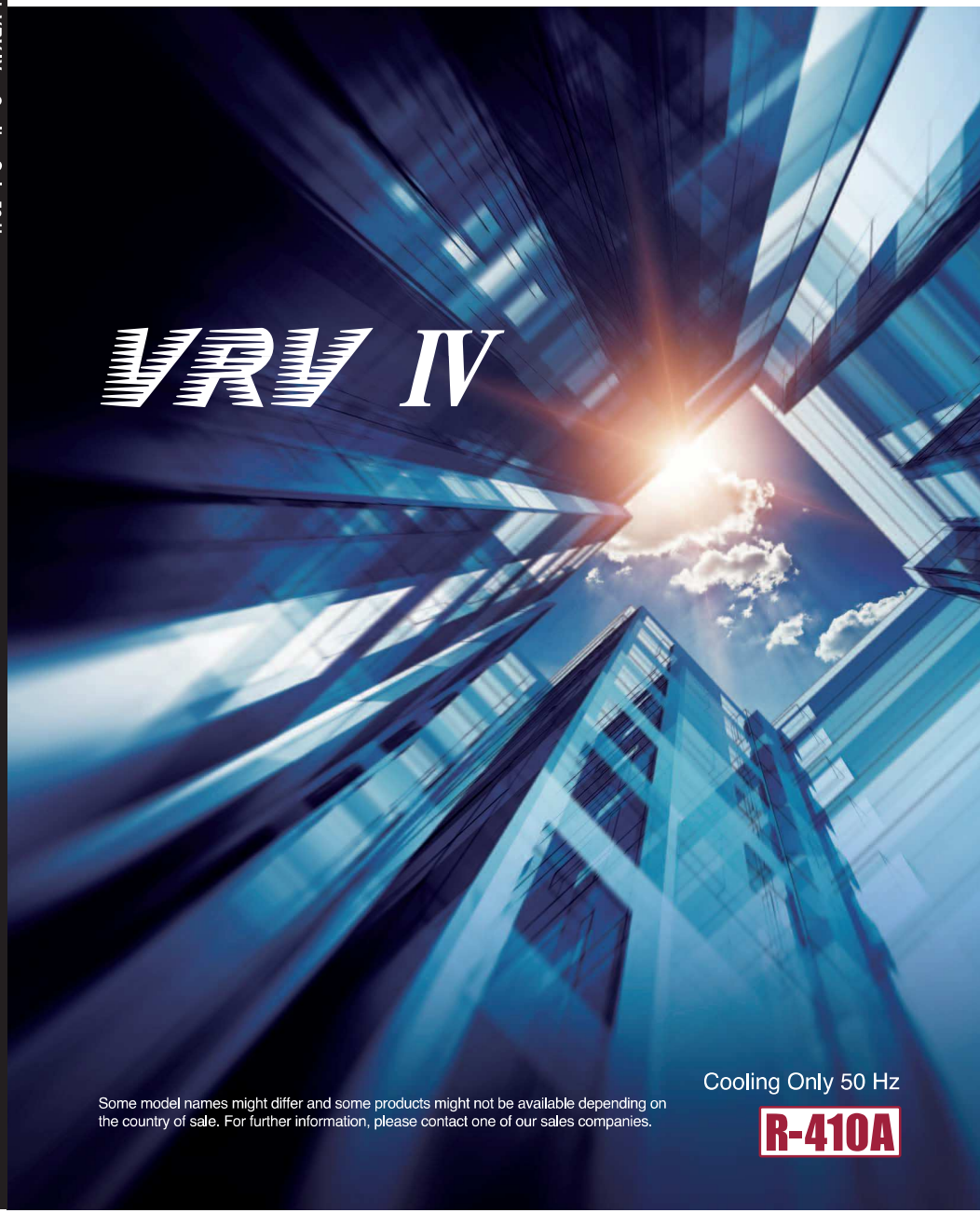
1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore,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

DAIKIN VRV IV Cooling Only 50 Hz

DAIKIN

PCVMT1613aprv

VRV IV



Some model names might differ and some products might not be available depending on the country of sale. For further information, please contact one of our sales companies.

Cooling Only 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
3 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

Excellent Operation Performance

VRV IV

Enhanced Lineup to 3 types

High-COP Type

Enables further energy saving
12 HP-50 HP with 4 new models lineup

	VRV III	VRV IV	
COP	3.94	4.39	11% Increase
Installation Space	1.66 m²	2.13 m²	
Product Weight	490 kg	555 kg	

Standard Type

Offers higher capacity of up to 60 HP
6 HP-60 HP with 3 new models lineup

	VRV III	VRV IV	
COP	3.94	3.99	14% Decrease
Installation Space	1.66 m²	1.42 m²	
Product Weight	490 kg	380 kg	22% Decrease

Space Saving Type

New series with compact & lightweight design
18 HP-50 HP with 17 new models lineup

	VRV III	VRV IV	
COP	3.94	3.11	43% Decrease
Installation Space	1.66 m²	0.95 m²	
Product Weight	490 kg	320 kg	35% Decrease

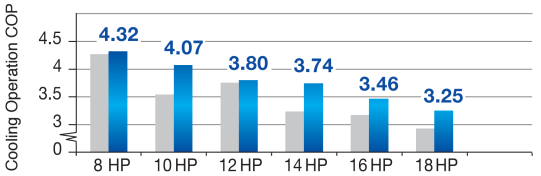
Lineup

HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
High-COP Type				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
Standard Type	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Space Saving Type							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					

Energy saving

Higher Coefficient of Performance (COP)

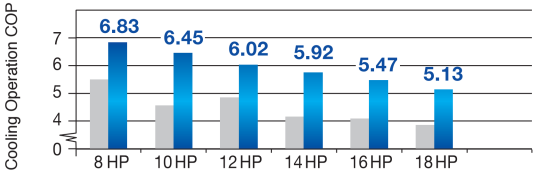
COP at 100% operation load



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

Higher Coefficient of Performance (COP)

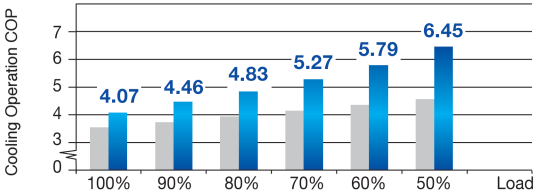
COP at 50% operation load



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

Higher Coefficient of Performance (COP)

COP for 10 HP



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

Realising compact technology with performance

VRV Ⅲ 20 HP

VRV IV 20 HP

43% Decrease
Installation space

As a leading global innovator, Daikin advanced from the conventional 2 module combination to a single module for 20 HP model. This allows the installation area to reduce by 43% as compared to the previous ***VRV*** Ⅲ 20 HP model.

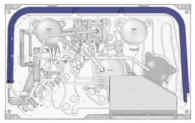
With this unbridled passion for high quality and advanced technology solutions, the new 20 HP is designed with the following considerations:

Design considerations

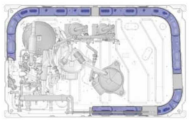
1. Increase surface area of heat exchanger for better performance
2. Easy maintenance
3. Sufficient cooling for electrical component
4. Eliminate suction resistance issue to enhance air flow volume.

Increase surface area of heat exchanger

The unique 4-sided all round heat exchanger ensure sufficient surface area for the heat exchanger as oppose to conventional 3-sided heat exchanger. This improves the heat exchanger performance without increasing the footprint.reduced.



VRV Ⅲ



VRV IV

Easy maintenance

In previous ***VRV*** Ⅲ design, the electrical component is usually situated on the front surface which requires the whole electrical component to be removed before maintenance can be carried out.

With the new design, the electrical component is strategically located on the top which ease the maintenance process.

Moreover, the heat exchanger on the front side can be extended to take up the previous space used for the electrical component and improve its performance.

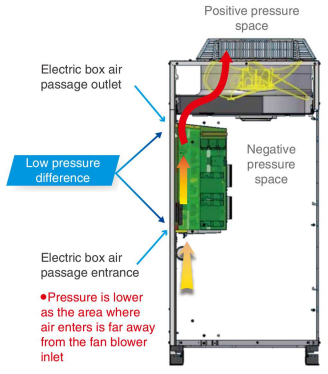
VRV Ⅲ

VRV IV

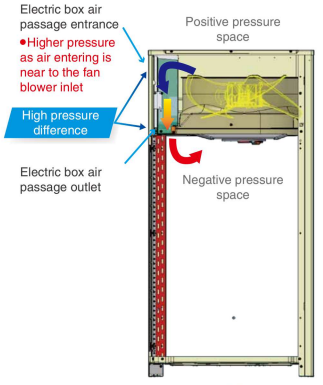
Sufficient cooling for electrical component

The new 20 HP model is designed with the electrical box strategically located between a region of positive and negative pressure. This design allows a larger air flow from negative pressure to positive pressure due to the higher pressure difference.

The small holes created in the electric box are now close to the fan blower inlet, thus a significant pressure difference can still be achieved unlike that of ***VRV*** Ⅲ.



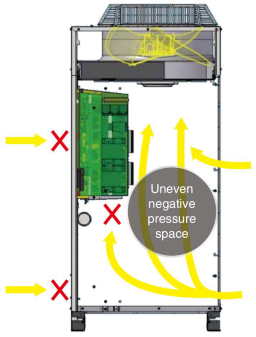
VRV Ⅲ



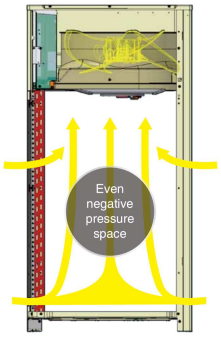
VRV IV

Eliminate suction resistance issue

Without affecting the fan volume, the electric component is re-designed to the top and free up the dead space that existed in previous ***VRV*** Ⅲ models. This eliminates the problem of suction resistance.



VRV Ⅲ



VRV IV

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

Customise your *VRV* for optimal annual efficiency

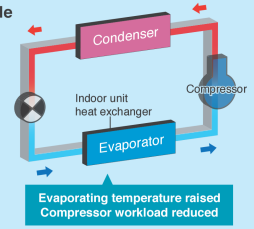
The new ***VRV* IV** system now features VRT technology.
VRT automatically adjusts refrigerant temperature to individual building and climate requirement, thus further improving annual energy efficiency and maintaining comfort.
With this excellent technology, running costs are reduced.

Variable Refrigerant Temperature

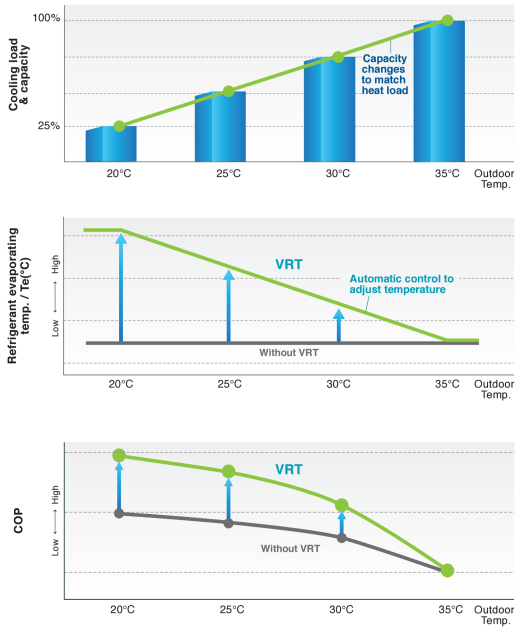
How is energy reduced?

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

■ **Refrigerant cycle**
(During cooling)



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



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

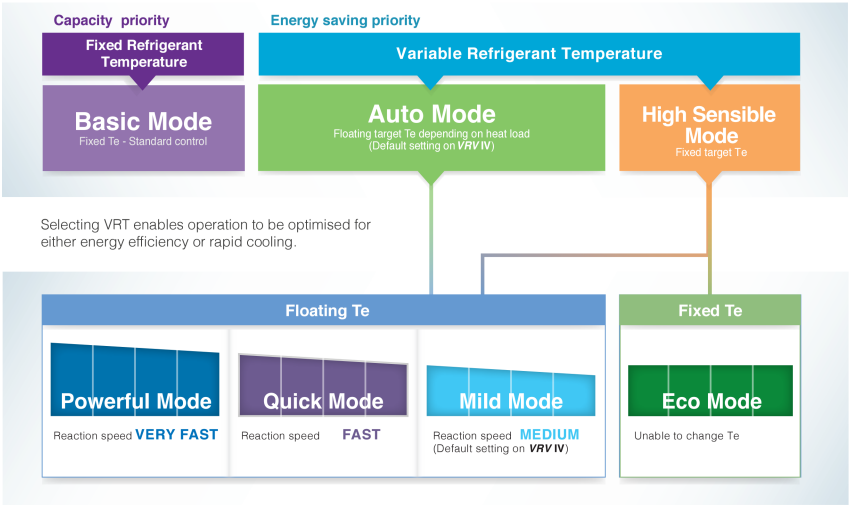
In case of fixed evaporating temperature, excessive cooling, thermo on-off loss, and other inefficiencies occur.

Automatic control adjusts evaporating temperature to heat load change.

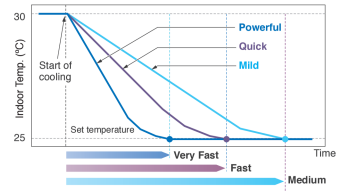
Energy efficiency is improved without sacrificing comfort.

New system more energy saving

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



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

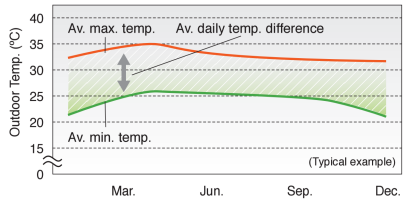


Powerful Mode	• **Can boost capacity above 100% if needed.** The refrigerant temperature can go lower in cooling than the set minimum. • **Gives priority to very fast reaction speed.** The refrigerant temperature goes down fast to keep the room setpoint stable.
Quick Mode	• **Gives priority to fast reaction speed.** The refrigerant temperature goes down fast to keep the room setpoint stable.
Mild Mode	• **Gives priority to efficiency.** The refrigerant temperature goes down 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.



Main Features

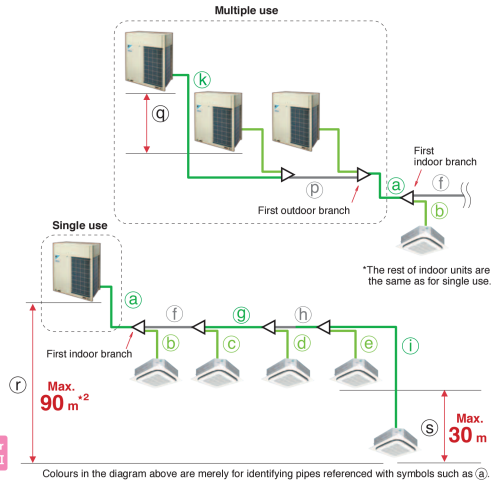
More options for installation location

Long piping length

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

For connection of only *VRV* indoor units

- **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** (15 m higher than *VRV* III)



		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 the last outdoor unit	10 m	k+p	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 are 50 m or more, the diameter of the main liquid piping size must be increased. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio **50%–200%**

Connection ratio =

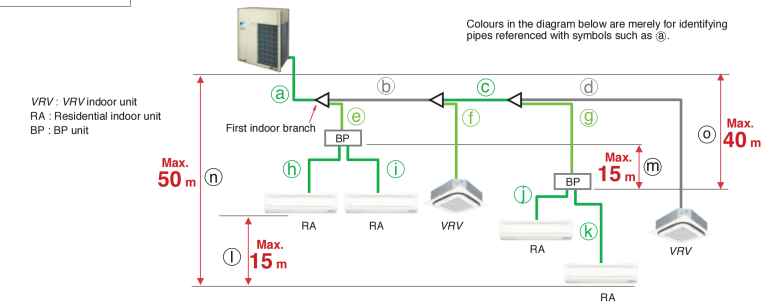
$$\frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$$

Conditions of *VRV* indoor unit connection capacity

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

*1 For the FXFQ25LU,FXFQ25S and FXVQ models, maximum connection ratio is 130% for the entire range of outdoor units.
Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.
*Refer to page 69-70 for outdoor unit combination details.

For mixed combination of *VRV* and residential indoor units



When a mixed combination of *VRV* and residential indoor units is connected or when only residential indoor units are connected

			Actual piping length	Example
Maximum allowable piping length	Refrigerant piping length		100 m	a+b+c+g+k, a+b+c+d
	Total piping length		250 m	a+b+c+d+e+f+g+h+i+j+k
	Between BP unit and indoor unit	If indoor unit capacity index < 60.	2 m–15 m	h, i, j, k
		If indoor unit capacity index is 60.	2 m–12 m	
		If indoor unit capacity index is 71.	2 m–8 m	
	Between the first indoor branch and the farthest BP unit or between the first indoor branch and the farthest *VRV* indoor unit		50 m*1	b+c+g, b+c+d
Minimum allowable piping length	Between outdoor unit and the first indoor branch		5 m	a

			Level Difference	Example
Maximum allowable level difference	Between the indoor units		15 m	l
	Between BP units		15 m	m
	Between the outdoor unit and the indoor unit	If the outdoor unit is above.	50 m	n
		If the outdoor unit is below.	40 m	n
	Between the outdoor unit and the BP unit		40 m	o

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

*When a mixed combination of *VRV* and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 50% to 130%. Refer to page 70 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

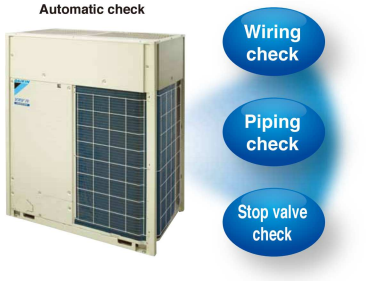
Reliable and Stable System

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.
- Confirms and corrects the actual piping length.
- Automatically check whether the stop valve in each outdoor unit is in normal status to ensure the smooth operation of air conditioning system.



Ease of installation

Compact & lightweight design

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

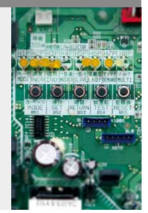
VRV Ⅲ 12 HP → ***VRV*** Ⅳ 12 HP

Installation Space	0.95 m²	0.71 m²	25% Decrease
Product Weight	285 kg	195 kg	32% Decrease

Simplified commissioning and after-sales service

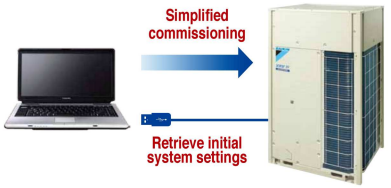
Function of information display by luminous digital tube

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. 

VRV configurator

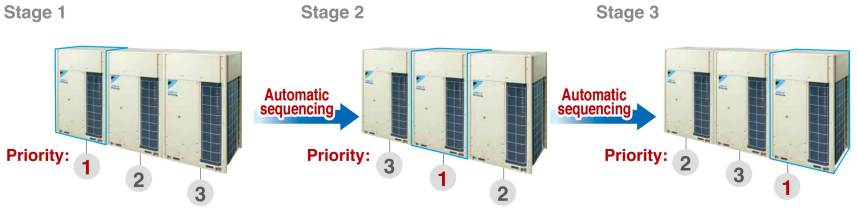
- The ***VRV*** configurator is an advanced software solution that allows for easy system configuration and commissioning.
- Less time is required on the roof configuring the outdoor unit.
- Multiple systems at different sites can be managed in exactly the same way, thus offering simplified commissioning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



Outdoor unit sequencing technology

Automatic sequencing operation

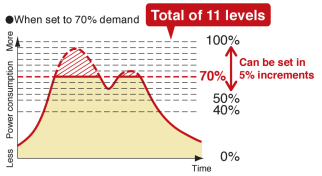
During start-up, Daikin ***VRV*** **IV** unit sequencing operation will be automatically enabled to ensure balanced operation of each outdoor unit to improve longevity of equipment and stable operation.



I-demand function

Limit to power consumption can be set precisely to one of 11 levels. Peak power cut-off can be accomplished according to each user situation.

*Set on the circuit board of the outdoor unit.



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

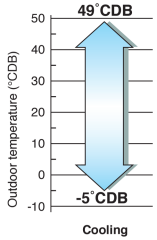
If malfunction occurs in an outdoor unit...
Emergency operation can be conveniently set and enabled by the remote controller for indoor unit (for systems composed of two or more outdoor units).

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 RXQ14-20TAYM models).

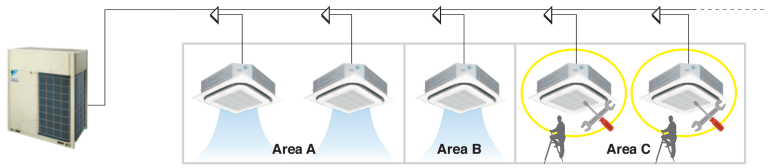
Wide operation temperature range

The versatile operation range of the ***VRV* IV** system works to reduce limitations on installation locations.
The operation temperature range for cooling can be performed with outdoor temperatures as high as 49˚C.



Ease of Maintenance

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



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

Comfort

Lower operation sound

Improve heat exchanger efficency, helps to reduced operation sound.

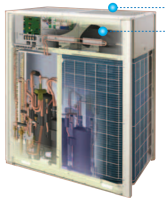
Sound level(dB(A))

	6 HP	8 HP	10 HP	12 HP
VRV III	57	57	58	60
VRV IV	55	56	57	59

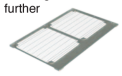
1-2 dB(A) reduction than conventional model

Large airflow, high static pressure and quiet technology

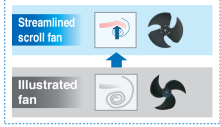
Without increasing operation sound, advanced analytic technologies are utilised to optimise fan design and increase airflow rate and high external static pressure.



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



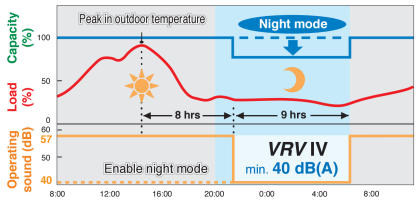
Streamlined scroll fan
The sharp edge of each fan blade has a certain curvature, reducing both the vibration and the pressure loss.



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.



Note: · 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.

Advanced Technologies Achieve Excellent Performance

VRV IV

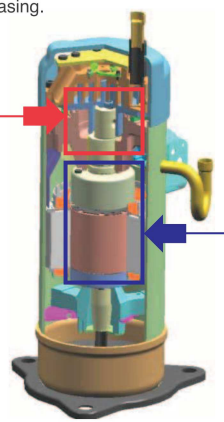
Large capacity all DC inverter compressor in compact casing

Large capacity all DC inverter compressor using high tension strength material, realise 12 HP compressor using 8 HP casing.

Development of high strength material

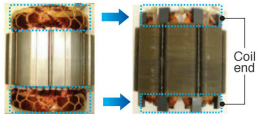
Gives 2.4 times tensile strength compare to conventional material
New Material: 600 MPa
Conventional Material : 250 MPa
Increase compression chamber volume by using thin spiral design.

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



Small type high efficiency concentrated winding motor

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



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

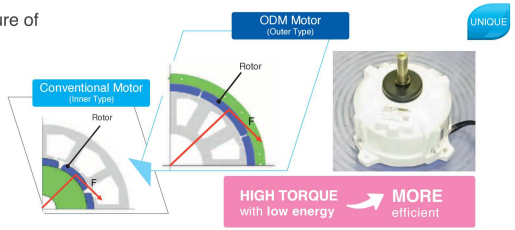
Improve motor efficiency in low rpm range (improve intermediate efficiency).

ODM Motor

Only Daikin adapted ODM motor with feature of stable rotation and volumetric efficiency

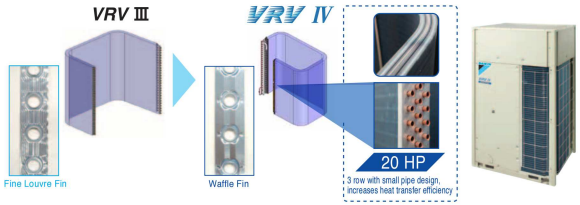
Advantages of ODM

Thanks to large diameter of the rotor,
① Large torque with same electromagnetic force
② Stable rotation in all range, and can be operated with small number of rotations



Highly integrated heat exchanger

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



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

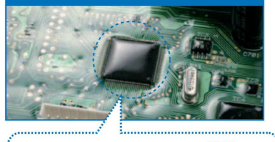
Change fin shape from fine louvre to waffle fin. Fin pitch can be reduced fin pitch from 2.0 mm to 1.4 mm, to realise unit efficiency which increased heat exchanger area.

Various advanced control main PC board

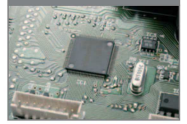
SMT* packaging technology

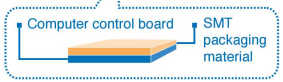
- SMT packaging technology adopted by the whole computer control panel improves the anti-clutter performance.
- Protects your computer boards from the adverse effect of sandy and humid weather.

Computer control board surface adopting SMT packaging technology



Conventional computer control board surface



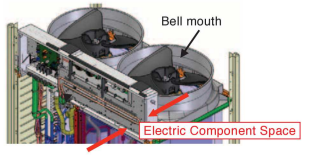


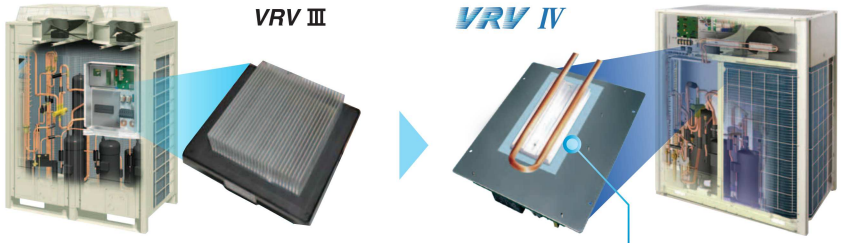
*SMT: Surface mounted technology

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.





The main heat generating parts (inverter power module) in the electric component is adopted to reduce the size of the refrigerant cooling technology

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

Cooling Only

The outdoor unit capacity is up to 60 HP in increment of 2 HP.

- ***VRV* IV** outdoor unit offers a higher capacity of up to 60 HP, responding to the needs of large-sized building.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system flexibility to a new level.
- With the outdoor unit capacity increased in increment of 2 HP, customers' needs can be precisely met.
- Outdoor units with anti-corrosion specifications (-E type on request) are designed specifically for use in areas which are subject to salt damage and atmospheric pollution.

Lineup

HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
High-COP Type				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
Standard Type	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Space Saving Type							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					

High-COP Type

•Double Outdoor Units

12, 14, 16 HP

RXQ12TAHYM(E)
RXQ14TAHYM(E)
RXQ16TAHYM(E)

•Triple Outdoor Units

18, 20, 22, 24, 26, 28, 30, 32 HP

RXQ18TAHYM(E) RXQ24TAHYM(E) RXQ30TAHYM(E)
RXQ20TAHYM(E) RXQ26TAHYM(E) RXQ32TAHYM(E)
RXQ22TAHYM(E) RXQ28TAHYM(E)

34, 38 HP

RXQ34TAHYM(E)
RXQ38TAHYM(E)

36, 40 HP

RXQ36TAHYM(E)
RXQ40TAHYM(E)

42, 44, 46, 48, 50 HP

RXQ42TAHYM(E) RXQ48TAHYM(E)
RXQ44TAHYM(E)
RXQ46TAHYM(E)
RXQ50TAHYM(E)

Standard Type

•Single Outdoor Units

6, 8, 10, 12 HP

RXQ6TAYM(E)
RXQ8TAYM(E)
RXQ10TAYM(E)
RXQ12TAYM(E)

14, 16 HP

RXQ14TAYM(E)
RXQ16TAYM(E)

•Double Outdoor Units

18, 20 HP

RXQ18TANYM(E)
RXQ20TANYM(E)

22, 24, 26 HP

RXQ22TANYM(E)
RXQ24TANYM(E)
RXQ26TANYM(E)

28, 30, 32 HP

RXQ28TANYM(E)
RXQ30TANYM(E)
RXQ32TANYM(E)

•Triple Outdoor Units

34, 36 HP

RXQ34TANYM(E)
RXQ36TANYM(E)

38, 40 HP

RXQ38TANYM(E)
RXQ40TANYM(E)

42, 44 HP

RXQ42TANYM(E)
RXQ44TANYM(E)

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

RXQ46TANYM(E) RXQ54TANYM(E)
RXQ48TANYM(E) RXQ56TANYM(E)
RXQ50TANYM(E) RXQ58TANYM(E)
RXQ52TANYM(E) RXQ60TANYM(E)

Space Saving Type

•Single Outdoor Units

18, 20 HP

RXQ18TAYM(E)
RXQ20TAYM(E)

•Double Outdoor Units

22, 24 HP

RXQ22TASYM(E)
RXQ24TASYM(E)

26, 28, 30, 32 HP

RXQ26TASYM(E) RXQ30TASYM(E)
RXQ28TASYM(E) RXQ32TASYM(E)

•Double Outdoor Units

34, 36, 38, 40 HP

RXQ34TASYM(E) RXQ38TASYM(E)
RXQ36TASYM(E) RXQ40TASYM(E)

•Triple Outdoor Units

42, 44 HP

RXQ42TASYM(E)
RXQ44TASYM(E)

46, 48, 50 HP

RXQ46TASYM(E)
RXQ48TASYM(E)
RXQ50TASYM(E)

Indoor Unit Lineup

Enhanced range of choices

A mixed combination of *VRV* indoor units and residential indoor units is enabled all in one system, opening the door to stylish and quiet indoor units.

VRV indoor units

24 types 109 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	16 HP	20 HP
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	500
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFQ-SVM			●	●	●	●	●		●	●	●					
Ceiling Mounted Cassette (Round Flow)	FXFQ-LUV1			●	●	●	●	●		●	●	●					
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE		●	●	●	●	●										
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		●	●	●	●	●	●		●		●					
Ceiling Mounted Cassette Corner	FXKQ-MAVE			●	●	●		●									
Slim Ceiling Mounted Duct (Standard Series)	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)					●	●	●									
Slim Ceiling Mounted Duct (Compact Series)	New FXDQ-SPV1		New	New	New	New	New	New									
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													●	●		
Outdoor-Air Processing Unit	FXMQ-MFV1	Page 93										●		●	●		
4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●						
Ceiling Suspended	FXHQ-MAVE				●			●			●						
Wall Mounted	FXAQ-PVE		●	●	●	●	●	●									
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●									
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●									
Floor Standing Duct	New FXVQ-NY1											New		New	New	New	New
	FXVQ-NY16 (high static pressure type)																New
Clean Room Air Conditioner	New FXBQ-PVE					New	New	New									
	FXBPQ-PVE							New									
Air Handling Unit	AHUR	Page 108												8–120 HP			

Residential indoor units with connection to BP units

6 types 18 models

Type	Model Name	Rated Capacity (kW)	25	35	50	60	71
		Capacity Index	25	35	50	60	71
Slim Ceiling Mounted Duct	FDKS-EAVMB	(700 mm width type)	●	●			
	FDKS-C(A)VMB	(900/1,100 mm width type)	●	●	●	●	
Wall Mounted	New FTKJ-NVMW		New	New	New		
	New FTKJ-NVMS		New	New	New		
	FTKS-DVM		●	●			
	FTKS-BVMA				●		
	FTKS-FVM				●	●	●

Note: BP units are necessary for residential indoor units. Only single outdoor unit (RXQ6-20TA) can be connected.

VRV indoor units combine with indoor units, all in one system.

Max. 64 indoor units

VRV indoor units only

Max. 32 indoor units

Residential indoor units only

Max. 32 indoor units

Residential indoor units *VRV* indoor units

*Refer to page 69-70 for the maximum number of connectable indoor units.

Indoor Unit Lineup

VRV IV

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

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow) Type

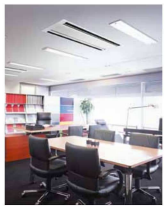
FXFQ-LUV1

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

Ceiling Mounted Cassette (Double Flow) Type

FXCQ-MVE

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



Slim Ceiling Mounted Duct Type (Standard Series)

FXDQ-PBVE(T)

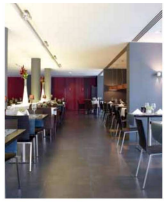
FXDQ-NBVE(T)

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 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 (Compact Multi Flow) Type

FXZQ-MVE

Quiet, compact, and designed for user comfort

Ceiling Mounted Cassette Corner Type

FXKQ-MAVE

Slim design for flexible installation

Slim Ceiling Mounted Duct Type (Compact Series)

New FXDQ-SPV1

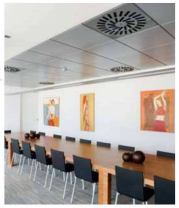
Slim and compact design for easy and flexible installation

Ceiling Mounted Duct Type

FXMQ-PVE

FXMQ-MAVE

High external static pressure allows flexible installations



Outdoor-Air Processing Unit

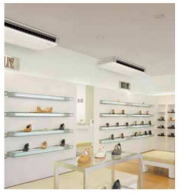
FXMQ-MFV1

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

Ceiling Suspended Type

FXHQ-MAVE

Slim body with quiet and wide airflow



Floor Standing Type

FXLQ-MAVE

Concealed Floor Standing Type

FXNQ-MAVE

Suitable for perimeter zone air conditioning

Clean Room Air Conditioner

New FXBQ-PVE

New FXBPQ-PVE

Suitable for hospitals and other clean spaces

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

Wall Mounted Type

FXAQ-PVE

Stylish flat panel design harmonised with your interior décor

Floor Standing Duct Type

New FXVQ-NY1

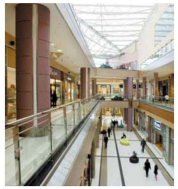
New FXVQ-NY16 (high static pressure type)

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

Air Handling Unit

AHUR

Integrate your air handling unit in a total solution for large size spaces such as factories and large stores.



Residential Indoor Units with connection to BP units

Slim Ceiling Mounted Duct Type

FDKS-EAVMB

FDKS-C(A)VMB

Slim and smooth design suits your shallow ceiling

Wall Mounted Type

New FTKJ-NVMW

New FTKJ-NVMS

Elegant appearance with European style

Wall Mounted Type

FTKS-DVM

FTKS-BVMA

FTKS-FVM

Stylish flat panel harmonises with your interior décor

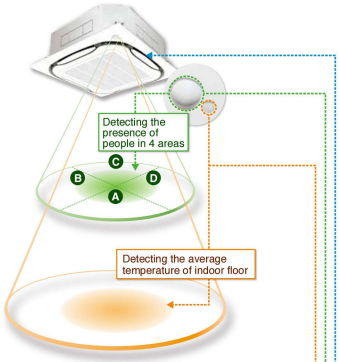
VRV Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type

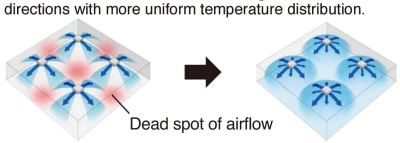
FXFQ25S / FXFQ32S / FXFQ40S
FXFQ50S / FXFQ63S / FXFQ80S
FXFQ100S / FXFQ125S

Round flow with sensing

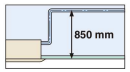
Presence of people and floor temperature can be detected to provide comfort and energy savings



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



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

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

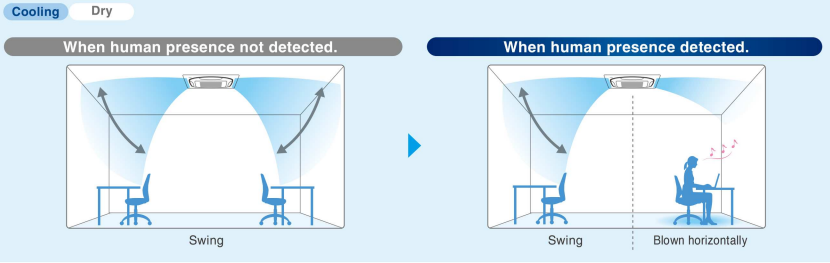
The sensor detects the floor temperature and automatically adjusts operation of the indoor unit to reduce the temperature difference between the ceiling and the floor.

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

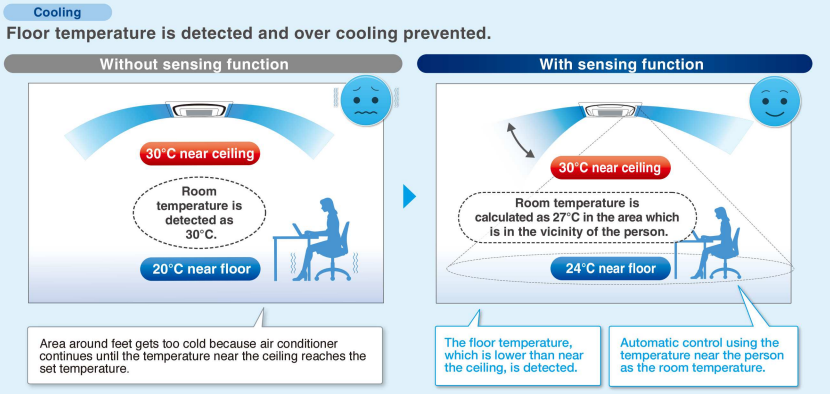
Draft prevention function (default: OFF) *1. 2 — Auto airflow direction mode



- 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 *1. 2 — Auto airflow direction mode + Auto airflow rate mode



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.

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.

VRV Indoor Units

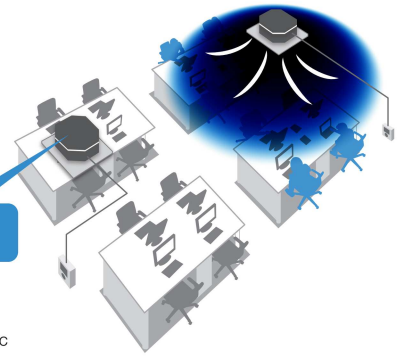
Ceiling Mounted Cassette (Round Flow with Sensing) Type

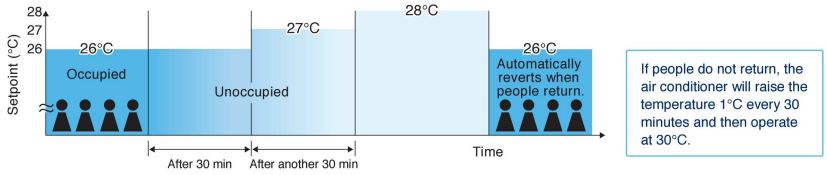
Sensing sensor mode*1*2

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.





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

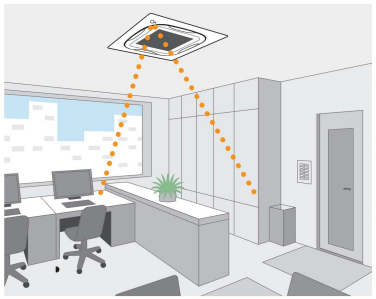
Shift temperature and time can be selected from 0.5 to 4°C in 0.5°C increments and 15, 30, 45, 60, 90 or 120 minutes respectively with remote controller.

Sensing sensor stop mode (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.

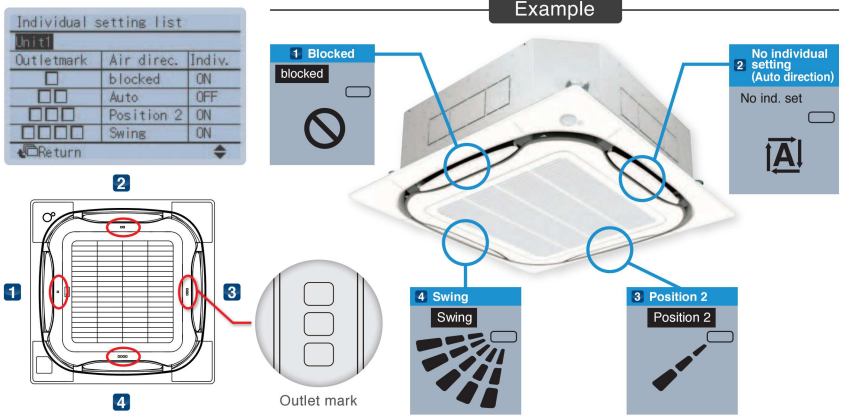


*1.These functions are not available when using the group control system.
*2.User can set these functions with remote controller.
*3.Please note that upon re-entering the room, air conditioner will not switch on automatically.

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.)

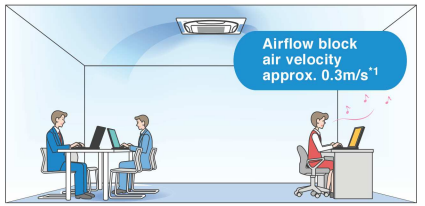


Airflow block function*1

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

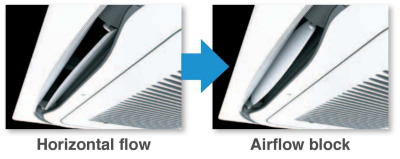
The system automatically saves energy by detecting whether or not the room is occupied. The set temperature is shifted automatically if the room is unoccupied.

- 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).

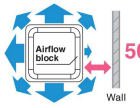


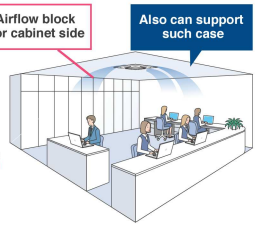
Airflow block function prevents uncomfortable drafts by reducing air velocity to approx. 0.3m/s.*c

Easy setup with remote controller



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.

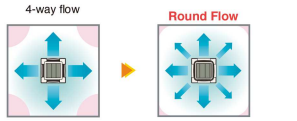
VRV Indoor Units

Ceiling Mounted Cassette (Round Flow) Type

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

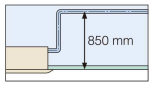
360° airflow improves temperature distribution and offers a comfortable living environment

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

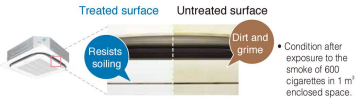


* As of April 2004, the release date for Japan.

- 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.

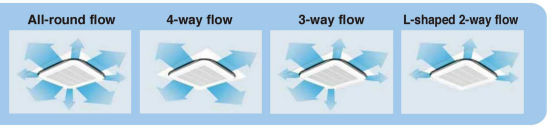


- Control of the airflow rate can be selected from 3-step control.
- Low operation sound level
- The horizontal louvres prevent dew condensation. Their non-flocking surfaces, which repel dirt, are easy to clean.

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

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

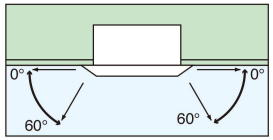
(230 V)(dB(A))

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

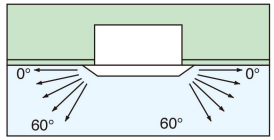
- Comfortable airflow

1. Wide discharge angle: 0° to 60°

- Auto swing

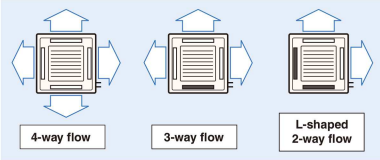


- Fixed angles: 5 levels

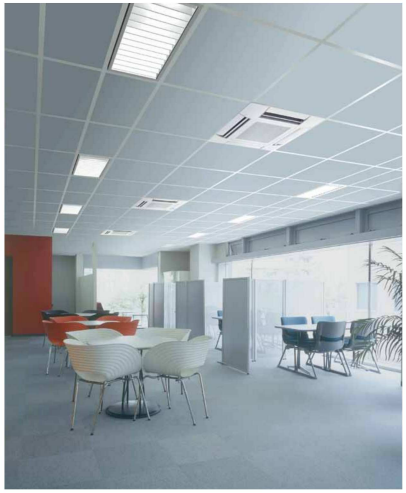


*Angles can be also set on site to prevent drafts (0°-35°) or soiling of the ceiling (25°-60°), other than standard setting (0°-60°).

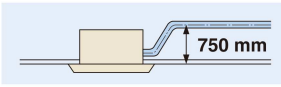
2. 2-, 3-, and 4-way airflow patterns are available, enabling installation in the corner of a room.



*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.



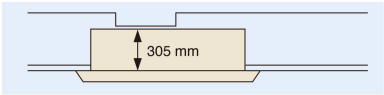
VRV Indoor Units

Ceiling Mounted Cassette (Double Flow) Type

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

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

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



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

●Low operation sound level

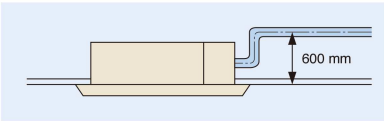
(220V)(dB(A))

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

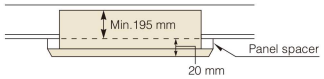
●Major maintenance work can be performed by removing the panel. A flat-type suction grille and a detachable blade make cleaning easy.

Ceiling Mounted Cassette Corner Type

FXKQ25MA / FXKQ32MA
FXKQ40MA / FXKQ63MA

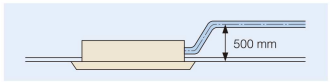
Slim design for flexible installation

●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.

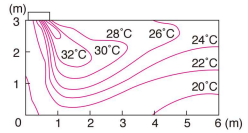


●Single-flow type allows effective air discharge from corner or from drop-ceiling.

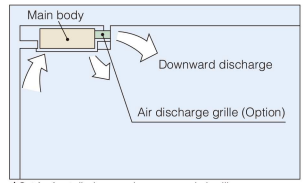
●Drain pump is equipped as standard accessory with 500 mm lift.



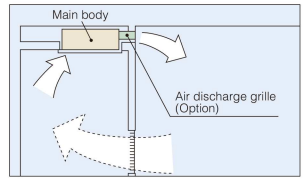
●Providing 3 different settings of standard, draft prevention and ceiling soiling prevention, the auto swing mechanism realises even distribution of airflow and room temperature.



●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

VRV Indoor Units

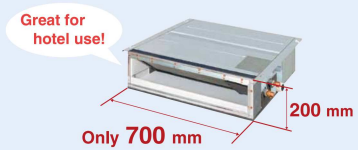
Slim Ceiling Mounted Duct Type (Standard Series)

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

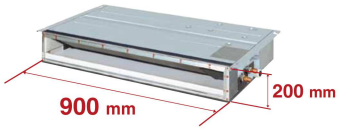
(dB(A))

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

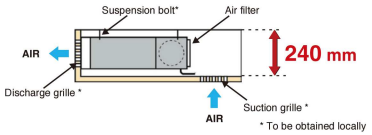
* The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).
* Values are based on the following conditions:
FXDQ-PB: external static pressure of 10 Pa; FXDQ-NB: external static pressure of 15 Pa.

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.

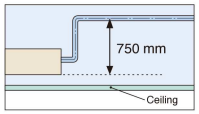


* 1,100 mm in width for the FXDQ63NB model.



- 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



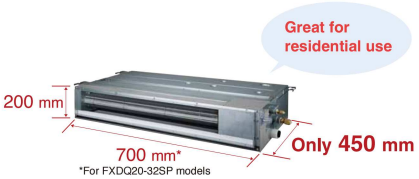
Slim Ceiling Mounted Duct Type (Compact Series)

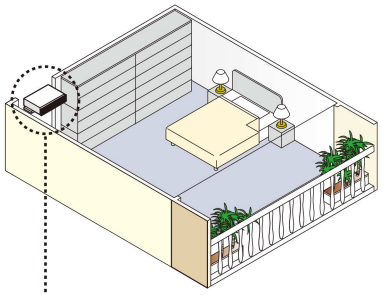
New

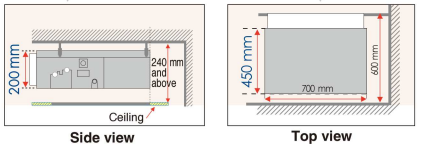
FXDQ20SP / FXDQ25SP
FXDQ32SP / FXDQ40SP
FXDQ50SP / FXDQ63SP

Slim and compact design for easy and flexible installation

- It comes with a slim and compact design with a height of only 200 mm that requires as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab. The depth of the product is only 450 mm which is suitable to install in limited spaces.

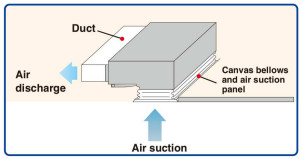


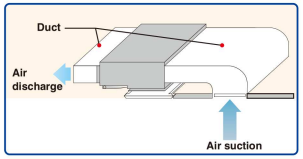




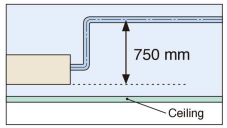
Side view Top view

- It is available in two types – ceiling return and ordinary duct to suit different installation conditions.





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



VRV Indoor Units

Middle Static Pressure Ceiling Mounted Duct Type

New

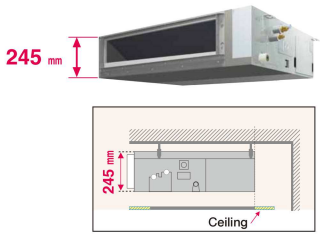
FXSQ20P / FXSQ25P / FXSQ32P
FXSQ40P / FXSQ50P / FXSQ63P
FXSQ80P / FXSQ100P / FXSQ125P
FXSQ140P

Middle external static pressure and slim design allow flexible installations

Installation flexibility

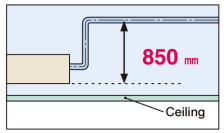
Slim design

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



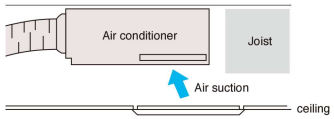
Standard DC drain pump

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



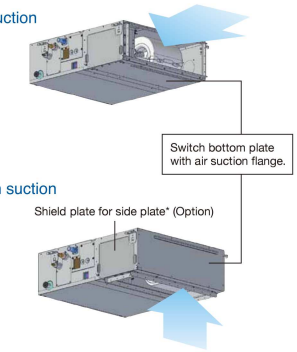
Bottom suction possible

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



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

■Rear suction



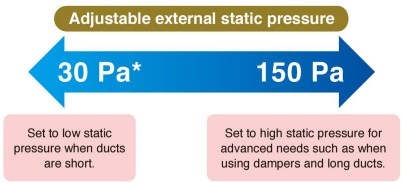
■Bottom suction

*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

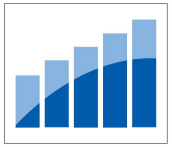
Comfort

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

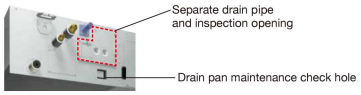
Easy installation

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

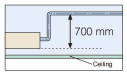
VRV Indoor Units

Ceiling Mounted Duct Type

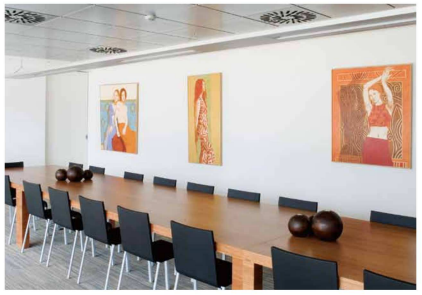
FXMQ20P / FXMQ25P / FXMQ32P
FXMQ40P / FXMQ50P / FXMQ63P
FXMQ80P / FXMQ100P / FXMQ125P
FXMQ140P

Middle and high static pressure allows for flexible duct design

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



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

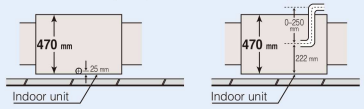


- Improved ease of maintenance
  - The drain pan can be detached for easy cleaning. An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.
- An antibacterial treatment that uses silver ions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

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

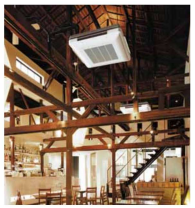


4-Way Flow Ceiling Suspended Type

FXUQ71A / FXUQ100A

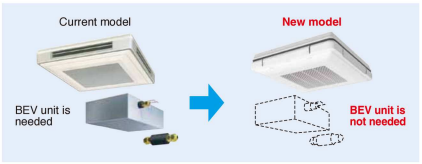
This slim and stylish indoor unit achieves optimum air distribution, and can be installed without the need for ceiling cavity

- Unit body and suction panel adopted round shapes and realised a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bare ceilings.
- Flaps close automatically when the unit stops, which gives a simple appearance.

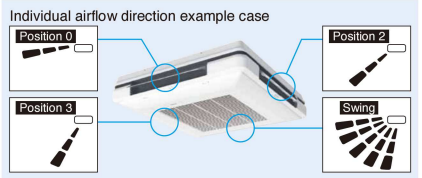


- Unified slim height of 198 mm for all models that gives the unified impression even when models with different capacities are installed in the same area.

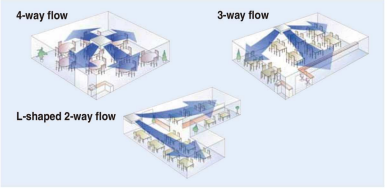
- Built-in electronic expansion valve eliminates the need for a BEV unit, which improves flexibility of installation.



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



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



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

VRV Indoor Units

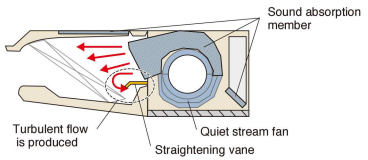
Ceiling Suspended Type

FXHQ32MA / FXHQ63MA
FXHQ100MA

Slim body with quiet and wide airflow

●Adoption of QUIET STREAM FAN

Uses the quiet stream fan and many more advanced technologies.



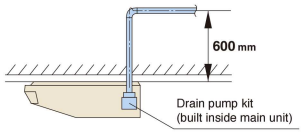
●Low operation sound level

(dB(A))

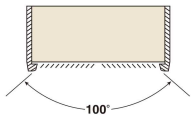
FXHQ-MA	32	63	100
Sound level (H/L)	36/31	39/34	45/37

●Installation is easy

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



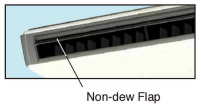
●Wide air discharge openings produce a spreading 100° airflow.



●Maintenance is easy

•Non-dew Flap with no implanted bristles

Bristle-free Flap minimises contamination and makes cleaning simpler.



•Easy-to-clean flat design

•Maintenance is easier because everything can be performed from below the unit.

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

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

Wall Mounted Type

FXAQ20P / FXAQ25P
FXAQ32P / FXAQ40P
FXAQ50P / FXAQ63P

Stylish flat panel design harmonised with your interior décor

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

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

●Low operation sound level

(dB(A))

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

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

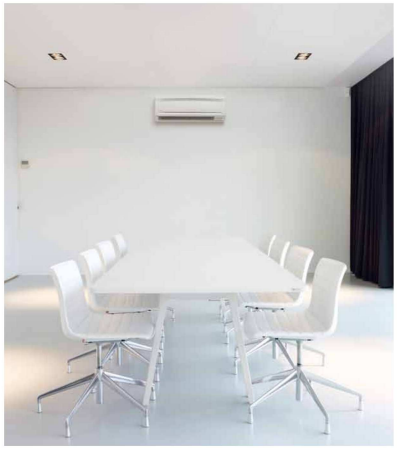
●Vertical auto-swing realises efficiency of air distribution. The louvre closes automatically when the unit stops.

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

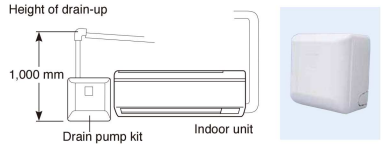
●Discharge angle is automatically set at the same angle as the previous operation when restarting.
(Initial setting: 10° for cooling and 70° for heating)

●Flexible installation

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



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



VRV Indoor Units

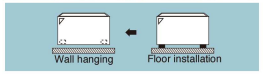
Floor Standing Type

FXLQ20MA / FXLQ25MA
FXLQ32MA / FXLQ40MA
FXLQ50MA / FXLQ63MA

Suitable for perimeter zone air conditioning

- Floor Standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.
- The adoption of a fibre-less discharge grille featuring an original design to prevent condensation also helps prevent staining and makes cleaning easier.
- A long-life filter (maintenance free up to one year*) is equipped as standard accessory.

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



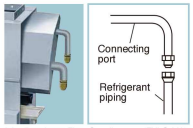
Concealed Floor Standing Type

FXNQ20MA / FXNQ25MA
FXNQ32MA / FXNQ40MA
FXNQ50MA / FXNQ63MA

Designed to be concealed in the perimeter skirting-wall

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

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



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

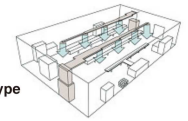
Floor Standing Duct Type

New

FXVQ125N / FXVQ200N
FXVQ250N / FXVQ400N
FXVQ500N

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

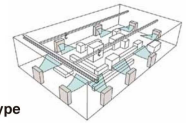
- Large airflow type that fits for spacious areas such as factories and large stores.
- Various installations can be supported from full-scale duct connection airflow to direct airflow that allows for easy installation.
- Full-scale duct connection airflow allows for air conditioning evenly in spacious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



Duct connection airflow type

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

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

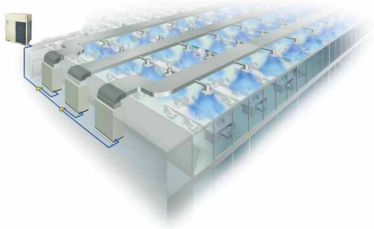


Direct airflow type

- The high static pressure type driven by the belt drive system allows for use of air discharge outlets in various shapes as well as long ducts. Highly flexible installation is possible.
- Design with high maintainability that allows major services and maintenance services to be performed at the front.
- A long-life filter (maintenance free up to one year*) is equipped as a standard accessory.

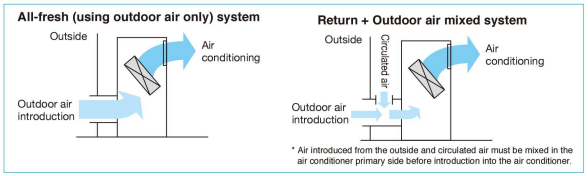
* 8 hr/day, 26 day/month. For dust concentration of 0.15 mg/m³

- A wide range of optional accessories are available such as high-efficiency filters.



- Outdoor air intake mode is useable as an outdoor-air processing air conditioner.

*When using the unit as an outdoor-air processing unit, there are some restrictions. Strictly follow the restrictions specified in the Engineering Data Book.



* Air introduced from the outside and circulated air must be mixed in the air conditioner primary side before introduction into the air conditioner.

VRV Indoor Units

Clean Room Air Conditioner

New

〈Integrated outlet unit model〉
FXBQ40P / FXBQ50P / FXBQ63P
〈Separate outlet unit model〉
FXBPQ63P

Suitable for hospitals and other clean spaces

Easily provides the high cleanliness environment required by various industries

Daikin's clean room air conditioners are specially designed to achieve an environment cleanliness class 10,000.
These air conditioners easily realize a cleanliness-class environment and help create a proper environment of hospitals, food and beverage factories, electronics factories, and other spaces that require clean air.

Select the air flow system and installation method to match the layout and purpose of the room

Two types of clean air conditioners are available – an integrated unit model and a separate outlet unit model.
It is also possible to configure the air flow system to ceiling intake or floor-level intake according to the panel selected.
This flexible design enables the air conditioner to easily adopt to any room layout or use.

Instances of installation by type (for a hospital)

Type		Ceiling intake type (high speed contracted flow/high ceiling model)	Floor-level intake type (gentle wind distribution/high cleanness class model)
Features		Construction work is simple and a ceiling installation is possible. Dust filtering and air-conditioning can be started immediately.	Easy to increase the cleanness and air-conditioning effect. A low flow speed prevents drying of the affected part and the experience of drafts.
Cleanness class*1		100,000 to 10,000	10,000
Wind speed		1.0m/s or higher	Approximately 0.5m/s
Blow method	Integrated outlet unit model	● Concentrated air conditioning centered directly under the unit ● Easy installation Applications: Surgery prep rooms, recovery rooms, nurse stations, etc.	● Total air conditioning with an emphasis on cleanliness Applications: Operating theatres, delivery rooms, etc.
	Separate outlet unit model	● Somewhat concentrated air conditioning centered directly under the outlet ● Can provide air conditioning in rooms with irregular shapes Applications: CCU*2, sterile rooms, etc.	● Total air conditioning with an emphasis on cleanliness ● Maintenance possible from a different room Applications: Premature nurseries, newborn nurseries, ICU*3, etc.

*1. Cleanliness class. A scale expressing the cleanliness of air established by NASA (National Aeronautics and Space Administration). Class 10,000 represents a state of less than 10,000 minute particles of diameter under 0.5 μm per cubic foot. For comparison, the cleanliness of a typical office is around class 1,000,000.
*2. CCU (Cardiac Care Unit). A ward dedicated to the admission of patients with myocardial infarctions and other heart diseases.
*3. ICU (Intensive Care Unit). A ward for the careful treatment and nursing of patients with serious illnesses, injuries, or recovering from operations.

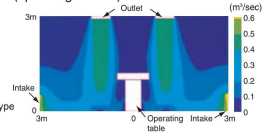
Can be easily installed in existing buildings

A simple structure makes it easy to realize a highly clean environment with the same installation work as for a typical air conditioner. Can be easily installed in new buildings, existing structures, and refurbishments.

Prevents uncomfortable drafts with a low flow speed of approximately 0.5m/s

The floor-level intake system has a low flow speed of approximately 0.5 m/s, improving dust filtration and eliminating the feeling of drafts. Broadly air-conditions the room with a gentle air flow and creates a comfortable environment.

● Air flow distribution diagram (operating theatre)



*Analysis of the floor-level intake type with the integrated outlet model.

Filtration

Class 10,000 clean room condition achieved with a HEPA filter (sold separately)

The low pressure-loss HEPA filter (sold separately) demonstrates superior dust filtering performance and easily accomplishes an air cleanliness of class 10,000.

The HEPA filter has a structure incorporating a pleated glass fiber filter medium, making it highly efficient and suitable for clean rooms, etc.

■HEPA filter

*It may not be possible to maintain cleanliness in rooms with low air tightness.

Installation example (in a medical facility)

Antibacterial

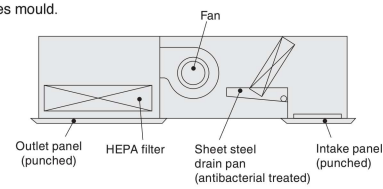
Suppresses the propagation of bacteria in the duct with a proprietary antibacterial coating

The filter implements an antibacterial treatment with a new coating combining a silver-based inorganic antibacterial material (an organic antibacterial material that is effective against germs) that prevents mould.
This enhances the antibacterial properties of the duct.
An antibacterial treatment using a silver-based organic substance reduces mould.

Antibacterial fiber used in the intake filter

With a long-life filter employing anti-mould antibacterial fiber near the intake, cleaning performance is further enhanced.

*Please be aware that antibacterial products suppress the propagation of bacteria but do not have a sterilizing effect. Also, mould may grow in places where dust or soot accumulates.
*A material for which the registered safety was verified by Japanese chemicals and dangerous substances regulation law (Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc) is used for the antibacterial material.
*Periodic maintenance is required (such as cleaning the air filter and washing the inside to the unit).

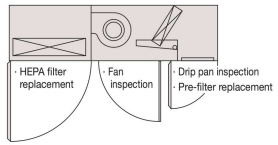


Labor-saving

Filter maintenance unnecessary for about five years
Easy access from underneath unit provides easy maintenance

The HEPA filter has an exceptionally long life and does not require maintenance for about five years. Daikin has aimed to reduce maintenance work from a variety of perspectives, including a service access system that eliminates the necessity for service panels.

*The maintenance period differs significantly according to the cleanliness of the room and hours of air conditioner operation.



Warning

● **Because the ceiling intake type provides concentrated air conditioning that blows directly under the outlet. Accordingly, please be aware of the following.**
- Sufficient heating may not be achieved near the floor or at locations far from the outlet.
- In the case of utilization in a hospital, some patients may be susceptible to cool drafts, so please ensure that they do not come directly under the outlet.
- Install multiple units using two or more outdoor unit systems for installations to rooms such as operating rooms where the failure of the air conditioner may have serious consequences.
- In order to maintain static pressure in a room, the indoor fan continues to operate even when an abnormality occurs due to the thermostat shutting off, defrost operation, protection device operation, or similar issue.
- When incorporating outdoor air from the fresh air intake, install a damper or similar device to the duct routing and have it interlocked with the indoor fan so that the outdoor air is shut out when the fan stops.
  The air that incorporates the suction filter may flow backward and allow dust trapped in the filter to return to the room.
- When using gas to disinfect hospital operating rooms where this unit is installed, stop operation and cover the air inlet and outlet with plastic sheets to prevent the gas from reaching and damaging the air conditioner.

● **Use the floor-level intake type in the following kind of locations.**
- Locations in which heating of the lower part or the entire room is important.
- Locations necessitating a particularly high cleanliness factor and in which there are many people.

Residential Indoor Units with connection to BP units

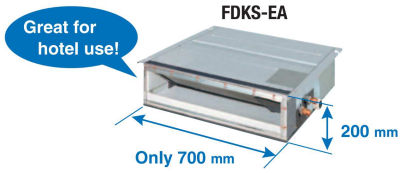
Slim Ceiling Mounted Duct Type

〈700 mm width type〉
FDKS25EA / FDKS35EA
〈900/1,000 mm width type〉
FDKS25CA / FDKS35CA
FDKS50C / FDKS60C

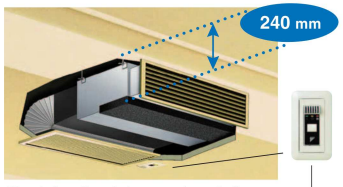
Standard accessory
Note: Remote controllers other than the standard accessory wireless remote controller cannot be used.

Slim and smooth design suits your shallow ceiling

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



	FDKS25EA	FDKS35EA	FDKS25CA	FDKS35CA
Dimensions (H x W x D)	200 x 700 x 620 mm		200 x 900 x 620 mm	
Weight	21 kg		25 kg	
Airflow rate (H)	8.7 m³/min		9.5 m³/min	10 m³/min
External static pressure	30 Pa		40 Pa	



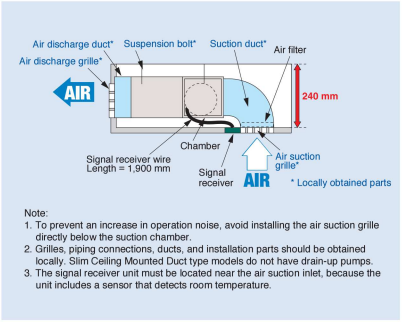
Signals from the wireless remote controller are transmitted to the signal receiver.

- Low operation sound level (H/L/SL)

FDKS25	FDKS35	FDKS50	FDKS60
35/31/29 dB (A)	35/31/29 dB (A)	37/33/31 dB (A)	38/34/32 dB (A)

- Home Leave Operation prevents large rises or falls in the indoor temperature by continuing operation* while you are sleeping or out of your home. This means that an air-conditioned welcome awaits when you wake or return. It also means that the indoor temperature can quickly return to your favourite comfort setting.

* Home Leave Operation can be selected for any temperature from 18 to 32˚C for cooling operation and 10 to 30˚C for heating operation.
* Home Leave Operation function must be set using the remote controller when going to sleep or leaving the house, and after waking up or returning home.



Note:
1. To prevent an increase in operation noise, avoid installing the air suction grille directly below the suction chamber.
2. Grilles, piping connections, ducts, and installation parts should be obtained locally. Slim Ceiling Mounted Duct type models do not have drain-up pumps.
3. The signal receiver unit must be located near the air suction inlet, because the unit includes a sensor that detects room temperature.

Wall Mounted Type

New **FTKJ25N / FTKJ35N / FTKJ50N**

Standard accessory

reddot award 2014 winner

German Design Award SPECIAL MENTION 2015

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

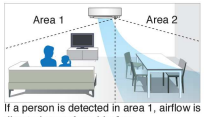
Elegant appearance with European style

Elegant Appearance with Curved Panel

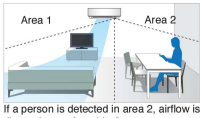
- The sleek design of the FTKJ-N indoor unit features a uniquely European style. This elegant body houses state-of-the-art technology which delivers superior performance. The FTKJ-N series offers a versatile choice for home-owners, designers and architects alike.

Two-Area Intelligent Eye

- A combination of Comfort Airflow Mode and Intelligent Eye directs airflow away from people to avoid drafts. If there is no movement in a room for 20 minutes, Intelligent Eye automatically adjusts the set temperature by approximately 2°C to save energy.



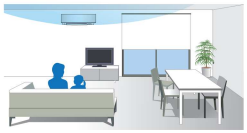
If a person is detected in area 1, airflow is directed away from him/her.



If a person is detected in area 2, airflow is directed away from him/her.

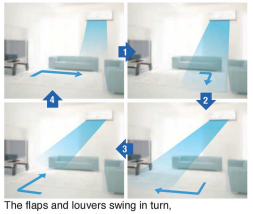
Comfort Airflow Mode

- Comfort Airflow Mode prevents uncomfortable drafts from blowing directly on to a person's body. During cooling operation, the flap moves upwards to prevent cold drafts. During heating operation, the flap turns vertically downwards to drive warm air to the floor.



3D Airflow

- 3D Airflow combines Vertical and Horizontal Auto-Swing to reduce indoor temperature fluctuation. This function circulates air to every part of a room for uniform cooling or heating of even large spaces. To start 3D Airflow, push both the Vertical and Horizontal Auto-Swing buttons. The flaps and louvers swing in turn.



The flaps and louvers swing in turn, expanding the comfort zone.

Residential Indoor Units with connection to BP units

Wall Mounted Type

FTKS25D / FTKS35D

Standard accessory*

FTKS50B

Standard accessory*

FTKS50F / FTKS60F / FTKS71F

Standard accessory*

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

Stylish flat panel harmonises with your interior décor

●Wall Mounted indoor units achieve quiet sound levels of 22 dB (A).

(H/L/SL)

FTKS25D	FTKS35D	FTKS50F	FTKS60F	FTKS71F
37/25/22 dB (A)	39/26/23 dB (A)	43/34/31 dB (A)	45/36/33 dB (A)	46/37/34 dB (A)

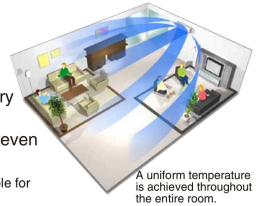
●Intelligent Eye with its infrared sensor automatically controls air conditioner operation according to human movement in a room. When there is no movement, it adjusts the temperature by 2˚C for energy savings.

When you are in the room

When you go out

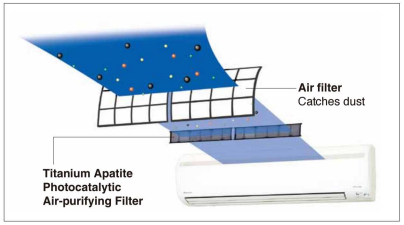
●3-D Airflow combines Vertical and Horizontal Auto-Swing to circulate air to every part of a room for uniform cooling of even large spaces.

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



A uniform temperature is achieved throughout the entire room.

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



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

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

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type

MODEL			FXFQ25SVM	FXFQ32SVM	FXFQ40SVM	FXFQ50SVM
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
		Btu/h	9,600	12,300	15,400	19,100
		kW	2.8	3.6	4.5	5.6
Power consumption	Cooling	kW	0.031		0.041	0.080
Casing			Galvanised steel plate			
Airflow rate (H/M/L)		m³/min	12.5/11.5/10.0	12.5/11.5/10.0	14.5/13.0/11.0	22.0/17.5/13.5
		cfm	441/406/353		512/459/388	777/618/477
Sound level (H/M/L)		dB(A)	30/28.5/27		31/29/27	36/32/28
Dimensions (H×W×D)		mm	246×840×840			
Machine weight		kg	19			23
Piping connections	Liquid (Flare)	mm	ϕ6.4			
	Gas (Flare)		ϕ12.7			
	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			

MODEL			FXFQ63SVM	FXFQ80SVM	FXFQ100SVM	FXFQ125SVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz			
Cooling capacity		kcal/h	6,100	7,700	9,600	12,000
		Btu/h	24,200	30,700	38,200	47,800
		kW	7.1	9.0	11.2	14.0
Power consumption	Cooling	kW	0.095		0.194	0.219
Casing			Galvanised steel plate			
Airflow rate (H/M/L)		m³/min	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	830/653/477	830/688/530	1,165/918/671	1,218/971/741
Sound level (H/M/L)		dB(A)	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	23		26	
Piping connections	Liquid (Flare)	mm	ϕ9.5			
	Gas (Flare)		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			

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

VRV Indoor Units

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
Power consumption	Cooling	kW	0.033	0.033	0.047	0.052	0.066	0.093	0.187	0.209
Casing			Galvanised steel plate							
Airflow rate (HH/H/L)		m³/min	13/11.5/10	13/11.5/10	15/13/11	16/13.5/11	19/16.5/13.5	21/18/15	32/26/20	33/28/22.5
		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							

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
Power consumption	Cooling	kW	0.073		0.076	0.089	0.115
Casing			Galvanised steel plate				
Airflow rate (H/L)		m³/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, 50 Hz-240 V, 50 Hz	dB(A)	30/25-32/26		32/26-34/28	36/28-37/29	41/33-42/35
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				

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

Ceiling Mounted Cassette (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
Power consumption	Cooling	kW	0.077	0.092	0.092	0.130	0.130	0.161	0.209	0.256
Casing			Galvanised steel plate							
Airflow rate (HH/M/L)		m³/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
	240 V		34/29	36/30	36/30	37/32	37/32	39/34	41/36	46/40
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
Power consumption	Cooling	kW	0.066	0.066	0.076	0.105
Casing			Galvanised steel plate			
Airflow rate (H/L)		m³/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
	240 V		40/35	40/35	42/36	44/39
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

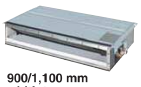
Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See 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.

VRV Indoor Units

Slim Ceiling Mounted Duct Type (Standard Series)

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
Power consumption (FXDQ-PBVE)*1	Cooling kW	0.086	0.086	0.089
Power consumption (FXDQ-PBVET)*1	Cooling kW	0.067	0.067	0.070
Casing		Galvanised steel plate		
Airflow rate (HH/H/L)	m³/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		28/26/24
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
Piping connections Gas (Flare)	mm	ϕ12.7	ϕ12.7	ϕ12.7
Piping connections Drain	mm	VP20 (External Dia, 26/Internal Dia, 20)		



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
Power consumption (FXDQ-PBVE)*1	Cooling kW	0.160	0.165	0.181
Power consumption (FXDQ-PBVET)*1	Cooling kW	0.147	0.152	0.168
Casing		Galvanised steel plate		
Airflow rate (HH/H/L)	m³/min	10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
	cfm	371/335/300	441/388/353	583/512/459
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	ϕ9.5
Piping connections Gas (Flare)	mm	ϕ12.7	ϕ12.7	ϕ15.9
Piping connections Drain	mm	VP20 (External Dia, 26/Internal Dia, 20)		

Note: Specifications are based on the following conditions:
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (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).

Slim Ceiling Mounted Duct Type (Compact Series)

MODEL		FXDQ20SPV1	FXDQ25SPV1	FXDQ32SPV1
Power supply		1-phase, 220-240 V, 50 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
Power consumption*1	Cooling kW	0.072	0.075	0.078
Casing		Galvanised steel plate		
Airflow rate (HH/H/L)	m³/min	8.7/7.6/6.5	9.0/8.0/7.0	10.0/9.0/8.0
	cfm	307/268/229	318/282/247	353/318/282
External static pressure	Pa	30-10*2		
Sound level (HH/H/L)*1*3	dB(A)	33/31/29		34/32/30
Dimensions (H×W×D)	mm	200×700×450		
Machine weight	kg	17		
Piping connections Liquid (Flare)	mm	ϕ6.4		
Piping connections Gas (Flare)	mm	ϕ12.7		
Piping connections Drain	mm	VP20 (External Dia, 26/Internal Dia, 20)		

MODEL		FXDQ40SPV1	FXDQ50SPV1	FXDQ63SPV1
Power supply		1-phase, 220-240 V, 50 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
Power consumption*1	Cooling kW	0.180	0.180	0.196
Casing		Galvanised steel plate		
Airflow rate (HH/H/L)	m³/min	15.0/13.0/10.5		20.0/16.0/12.5
	cfm	530/459/371		706/565/441
External static pressure	Pa	50-20*2		40-20*2
Sound level (HH/H/L)*1*3	dB(A)	35/33/31		37/35/33
Dimensions (H×W×D)	mm	200×900×450		200×1,100×450
Machine weight	kg	20		23
Piping connections Liquid (Flare)	mm	ϕ6.4		ϕ9.5
Piping connections Gas (Flare)	mm	ϕ12.7		ϕ15.9
Piping connections Drain	mm	VP20 (External Dia, 26/Internal Dia, 20)		

Note: Specifications are based on the following conditions:
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (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: FXDQ20-32SP: external static pressure of 10 Pa; FXDQ40-63SP: external static pressure of 20 Pa.
★2 : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factorysetting is 10 Pa for FXDQ20-32SP models and 20 Pa for FXDQ40-63SP models.)
★3 : The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

VRV Indoor Units

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
Power consumption	Cooling	kW	0.058 *1	0.058 *1	0.066 *1	0.101 *1	0.075 *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	245X550X800			245X700X800	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
Power consumption	Cooling	kW	0.106 *1	0.126 *1	0.151 *1	0.206 *1	0.222 *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.
- 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 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
Power consumption	Cooling	kW	0.056 *1	0.056 *1	0.060 *1	0.151 *1	0.128 *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	300X550X700	300X550X700	300X550X700	300X700X700	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
Power consumption	Cooling	kW	0.138 *1	0.185 *1	0.215 *1	0.284 *1	0.405 *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.
- 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.

VRV 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
Power consumption	Cooling	kW	1.294 *1	1.465 *1
Casing			Galvanised steel plate	
Airflow rate (H/L)		m³/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
	240 V		49/46	49/46
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	

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
Power consumption	Cooling	kW	0.090	0.200
Casing			Fresh white	
Airflow rate (H/M/L)		m³/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.
- 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.
  (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

★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".

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
Power consumption	Cooling	kW	0.111	0.115	0.135
Casing			White (10Y9/0.5)		
Airflow rate (H/L)		m³/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)		

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
Power consumption	Cooling	kW	0.019	0.028	0.030	0.020	0.033	0.050
Casing			White (3.0Y8.5/0.5)					
Airflow rate (H/L)		m³/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)					

Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1 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.

VRV Indoor Units

Floor Standing Type/Concealed Floor Standing Type

FXLQ

FXNQ

MODEL			FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE
			FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Power consumption	Cooling	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
	240 V		37/34	37/34	37/34	40/35	41/36	42/37
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.
- 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 in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Floor Standing Duct Type

MODEL			FXVQ125NY1	FXVQ200NY1	FXVQ250NY1	FXVQ400NY1	FXVQ500NY1	FXVQ500NY16
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz					
Cooling capacity		kcal/h	12,000	19,300	24,100	38,700	48,200	
		Btu/h	47,800	76,400	95,500	154,000	191,000	
		kW	14.0	22.4	28.0	45.0	56.0	
Power consumption	Cooling	kW	0.53	1.33	1.61	3.97	2.62	5.25
Casing colour			Ivory white (5Y7.5/1)					
Dimensions (H×W×D)		mm	1,670×750×510	1,670×950×510	1,670×1,170×510	1,900×1,170×720	1,900×1,470×720	
Machine weight		kg	118	144	169	236	281	306
Sound level *1		dB(A)	52	56	60	65	62	67
Piping connections	Liquid	mm	ϕ9.5 (Brazing)			ϕ12.7 (Brazing)	ϕ15.9 (Brazing)	
	Gas	mm	ϕ15.9 (Brazing)	ϕ19.1 (Brazing)	ϕ22.2 (Brazing)	ϕ28.6 (Brazing)		
	Drain	mm	Rp1 (PS 1B internal thread)					
Air filter	Type		Long-life filter (anti-mould resin net)					
Fan	Motor output	kW	0.75	1.5		3.7		5.5
	Airflow rate	m^3/min	43	69	86	134	165	172
		cfm	1,518	2,436	3,036	4,730	5,825	6,072
	External static pressure *2	Pa	152	217	281	420	142	469
	Drive system		Belt drive system					

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

*1: Sound level : measured when the air discharge outlet duct (2 m) is attached (anechoic chamber conversion value). It increases by approximately 5 dB(A) when the plenum chamber is installed to deliver direct airflow.
*2: The value is the external static pressure with standard pulley.

Clean Room Air Conditioner

Type			Intergrated outlet unit model			Separate outlet unit model
MODEL	Indoor unit		FXBQ40PVE	FXBQ50PVE	FXBQ63PVE	FXBPQ63PVE
	Outlet unit		Integrated with the indoor unit			BAF82A63
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz			
Cooling capacity		kcal/h	3,900	4,800	6,100	6,100
		Btu/h	15,400	19,100	24,200	24,200
		kW	4.5	5.6	7.1	7.1
Power consumption	Cooling	kW	0.31	0.31	0.45	0.45
Intake filter efficiency *1			70% by gravimetric method			
Outlet HEPA filter efficiency *2			99.97% by DOP method *5			
Indoor unit weight		kg	140 *3		185 *3	120 *6
Casing			Galvanised steel plate			
Airflow rate (H/L)		m^3/min	19.5/17.5		26/22.5	
		cfm	688/618		918/794	
Sound level (H/L) *4		dB(A)	44/42			
Dimensions (H×W×D)		mm	492×1,788×1,000		492×1,788×1,300	492×1,078×1,300
Outlet unit weight		kg	–			65 *3
Piping connections	Liquid (Flare)	mm	ϕ6.4		ϕ9.5	
	Gas (Flare)		ϕ12.7		ϕ15.9	
	Drain		PT1B			
Filter(Option)	HEPA filter	Model	BAFH82A50		BAFH82A63	
Panel (Option)	Ceiling intake type		BYB82A50C		BYB82A63C	BYB82A63CP
	Floor-level intake type		BYB82A50W		BYB82A63W	BYB82A63WP

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

*1: An intake air filter is only attached to the ceiling intake type.
*2: HEPA filter sold separately. The dust collection efficiency of HEPA filter is 99.97%. However, air may slightly leak around the filter when installing.
*3: Weight including HEPA filter and panel.
*4: Anechoic chamber conversion value under JIS B 8616 test conditions. Value usually increases slightly in practice due to surrounding conditions.
*5: The clean air conditioner does not support DOP testing (leak test) based on GMP standards (Standards for Manufacturing Control and Quality Control for Medical Devices) due to slight leakage at time of product installation.
*6: Weight including panel.

*In the case of an installation in an operating theatre etc. where an air conditioner malfunction may have serious consequences, please build in redundancy with two or more outdoor units.

Residential indoor units with connection to BP units

Slim Ceiling Mounted Duct Type

MODEL			FDKS25EAVMB	FDKS35EAVMB	FDKS25CAVMB	FDKS35CAVMB	FDKS50CVMB	FDKS60CVMB
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz					
Airflow rates (H)		m³/min (cfm)	8.7 (307)		9.5 (335)	10.0 (353)	12.0 (424)	16.0 (565)
Sound levels (H/L/SL)*		dB (A)	35/31/29				37/33/31	38/34/32
Fan speed			5 steps, quiet and automatic					
Temperature control			Microcomputer control					
Dimensions (H×W×D)		mm	200×700×620		200×900×620			200×1,100×620
Machine weight		kg	21		25		27	30
Piping connections	Liquid (Flare)	mm	ϕ6.4					
	Gas (Flare)		ϕ9.5				ϕ12.7	
	Drain		VP20 (External Dia. 26/Internal Dia. 20)					
Heat insulation			Both liquid and gas pipes					
External static pressure		Pa	30		40			

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

Wall Mounted Type

MODEL			FTKJ25NVMW	FTKJ25NVMS	FTKJ35NVMW	FTKJ35NVMS	FTKJ50NVMW	FTKJ50NVMS
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel colour			White	Silver	White	Silver	White	Silver
Airflow rates (H)		m³/min (cfm)	8.9 (313)		10.9 (385)			
Sound levels (H/L/SL)		dB (A)	38/25/19		45/26/20		46/35/29	
Fan speed			5 steps, quiet and automatic					
Temperature control			Microcomputer control					
Dimensions (H×W×D)		mm	303×998×212					
Machine weight		kg	12					
Piping connections	Liquid (Flare)	mm	ϕ6.4					
	Gas (Flare)		ϕ9.5				ϕ12.7	
	Drain		ϕ18.0					
Heat insulation			Both liquid and gas pipes					

Wall Mounted Type

MODEL			FTKS25DVM	FTKS35DVM	FTKS50BVMA	FTKS50FVM	FTKS60FVM	FTKS71FVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel colour			White					
Airflow rates (H)		m³/min (cfm)	8.7 (307)	8.9 (314)	11.4 (402)	14.7 (519)	16.2 (572)	17.4 (614)
Sound levels (H/L/SL)		dB (A)	37/25/22	39/26/23	44/35/32	43/34/31	45/36/33	46/37/34
Fan speed			5 steps, quiet and automatic					
Temperature control			Microcomputer control					
Dimensions (H×W×D)		mm	283×800×195		290×795×238	290×1,050×238		
Machine weight		kg	9			12		
Piping connections	Liquid (Flare)	mm	ø6.4					
	Gas (Flare)		ø9.5		ø12.7			ø15.9
	Drain		ø18.0					
Heat insulation			Both liquid and gas pipes					

BP Units for connection to residential indoor units

MODEL			BPMKS967A3	BPMKS967A2
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz	
Number of ports			3 (connectable to 1-3 indoor units)	2 (connectable to 1-2 indoor units)
Power consumption		W	10	
Running current		A	0.05	
Dimensions (H×W×D)		mm	180×294 (+356*)×350	
Machine weight		kg	8	7.5
Number of wiring connections			3 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 4 for interunit wiring (BP-indoor unit)	
Piping connections (Brazing)	Liquid	Main	mm	ϕ9.5×1	
		Branch	mm	ϕ6.4×3	ϕ6.4×2
	Gas	Main	mm	ϕ19.1×1	
		Branch	mm	ϕ15.9×3	ϕ15.9×2
Heat insulation			Both liquid and gas pipes	
Connectable indoor units			2.5 kW class to 7.1 kW class residential indoor units	
Min. rated capacity of connectable indoor units		kW	2.5	
Max. rated capacity of connectable indoor units		kW	20.8	14.2

Note: * Total auxiliary piping length.

Outdoor Units

High-COP Type







MODEL			RXQ12TAHYM(E)	RXQ14TAHYM(E)	RXQ16TAHYM(E)	RXQ18TAHYM(E)	RXQ20TAHYM(E)	RXQ22TAHYM(E)	RXQ24TAHYM(E)	RXQ26TAHYM(E)	RXQ28TAHYM(E)	RXQ30TAHYM(E)	RXQ32TAHYM(E)	RXQ34TAHYM(E)	RXQ36TAHYM(E)	RXQ38TAHYM(E)	RXQ40TAHYM(E)
Combination units			RXQ6TAYM(E)	RXQ6TAYM(E)	RXQ8TAYM(E)	RXQ6TAYM(E)	RXQ6TAYM(E)	RXQ6TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)
			RXQ6TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ6TAYM(E)	RXQ6TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)
			—	—	—	RXQ6TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)
Power supply			3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz							3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz							
Cooling capacity		kcal/h	27,500	33,000	38,500	41,300	46,800	52,300	57,800	62,600	67,300	72,200	76,900	82,500	87,700	92,000	98,000
		Btu/h	109,000	131,000	153,000	164,000	186,000	207,000	229,000	248,000	267,000	286,000	305,000	327,000	348,000	365,000	389,000
		kW	32.0	38.4	44.8	48.0	54.4	60.8	67.2	72.8	78.3	83.9	89.4	95.9	102	107	114
Power consumption		kW	7.26	8.81	10.4	10.9	12.4	14.0	15.5	17.2	19.2	20.9	22.8	24.7	26.6	28.3	30.2
Capacity control		%	10-100	10-100	10-100	7-100	7-100	7-100	7-100	6-100	6-100	5-100	5-100	5-100	4-100	4-100	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	(2.4X1)+(2.4X1)	(2.4X1)+(3.4X1)	(3.4X1)+(3.4X1)	(2.4X1)+(2.4X1)+(2.4X1)	(2.4X1)+(2.4X1)+(3.4X1)	(2.4X1)+(3.4X1)+(3.4X1)	(3.4X1)+(3.4X1)+(3.4X1)	(3.4X1)+(3.4X1)+(4.1X1)	(3.4X1)+(3.4X1)+(5.2X1)	(3.4X1)+(4.1X1)+(5.2X1)	(3.4X1)+(5.2X1)+(5.2X1)	(3.4X1)+(5.2X1)+(2.9X1)+(3.3X1)	(3.4X1)+(2.9X1)+(3.3X1)+(2.9X1)+(3.3X1)	(5.2X1)+(5.2X1)+(2.9X1)+(3.3X1)	(5.2X1)+(2.9X1)+(3.3X1)+(2.9X1)+(3.3X1)
Airflow rate		m³/min	119+119	119+157	157+157	119+119+119	119+119+157	119+157+157	157+157+157	157+157+165	157+157+178	157+165+178	157+178+178	157+178+233	157+233+233	178+178+233	178+233+233
Dimensions (HxWxD)		mm	(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)+(1,657X1,240X765)	(1,657X930X765)+(1,657X1,240X765)+(1,657X1,240X765)	(1,657X930X765)+(1,657X930X765)+(1,657X1,240X765)	(1,657X930X765)+(1,657X1,240X765)+(1,657X1,240X765)
Machine weight		kg	185+185	185+185	185+185	185+185+185	185+185+185	185+185+185	185+185+185	185+185+195	185+185+195	185+195+195	185+195+195	185+195+285	185+285+285	195+195+285	195+285+285
Sound level		dB(A)	58	59	59	60	60	60	61	61	62	62	63	63	64	64	64
Operation range		°CDB	-5 to 49							-5 to 49							
Refrigerant	Type		R-410A							R-410A							
	Charge	kg	5.9+5.9	5.9+5.9	5.9+5.9	5.9+5.9+5.9	5.9+5.9+5.9	5.9+5.9+5.9	5.9+5.9+5.9	5.9+5.9+6.0	5.9+5.9+6.3	5.9+6.0+6.3	5.9+6.3+6.3	5.9+6.3+10.3	5.9+10.3+10.3	6.3+6.3+10.3	6.3+10.3+10.3
Piping connections	Liquid	mm	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)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)
	Gas	mm	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)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (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.
   - 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

High-COP Type

MODEL			RXQ42TAHYM(E)	RXQ44TAHYM(E)	RXQ46TAHYM(E)	RXQ48TAHYM(E)	RXQ50TAHYM(E)
Combination units			RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ16TAYM(E)	RXQ16TAYM(E)
			RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ16TAYM(E)	RXQ16TAYM(E)	RXQ16TAYM(E)
			RXQ14TAYM(E)	RXQ16TAYM(E)	RXQ16TAYM(E)	RXQ16TAYM(E)	RXQ18TAYM(E)
Power supply			3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz				
Cooling capacity		kcal/h	103,000	108,000	112,000	116,000	120,000
		Btu/h	409,000	427,000	444,000	461,000	478,000
		kW	120	125	130	135	140
Power consumption		kW	32.1	34.4	36.7	39.0	41.4
Capacity control		%	4-100	3-100	3-100	3-100	3-100
Casing colour			Ivory white (5Y7.5/1)				
Compressor	Type		Hermetically Sealed Scroll Type				
	Motor output	kW	(2.9X1)+(3.3X1)+ (2.9X1)+(3.3X1)+ (2.9X1)+(3.3X1)	(2.9X1)+(3.3X1)+ (2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1)	(2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1)+ (3.6X1)+(3.7X1)	(3.6X1)+(3.7X1)+ (3.6X1)+(3.7X1)+ (3.6X1)+(3.7X1)	(3.6X1)+(3.7X1)+ (3.6X1)+(3.7X1)+ (4.4X1)+(4.0X1)
Airflow rate		m³/min	233+233+233	233+233+233	233+233+233	233+233+233	233+233+233
Dimensions (HxWxD)		mm	(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)	(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)	(1,657X1,240X765)+ (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	285+285+285	285+285+285	285+285+285	285+285+285	285+285+285
Sound level		dB(A)	65	65	65	66	66
Operation range		°CDB	-5 to 49				
Refrigerant	Type		R-410A				
	Charge	kg	10.3+10.3+10.3	10.3+10.3+10.4	10.3+10.4+10.4	10.4+10.4+10.4	10.4+10.4+10.5
Piping connections	Liquid	mm	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)

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.
•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.

Standard Type

MODEL			RXQ6TAYM(E)	RXQ8TAYM(E)	RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	RXQ16TAYM(E)
Combination units			—	—	—	—	—	—
Power supply			3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz					
Cooling capacity		kcal/h	13,800	19,300	24,100	28,800	34,400	38,700
		Btu/h	54,600	76,400	95,500	114,000	136,000	154,000
		kW	16.0	22.4	28.0	33.5	40.0	45.0
Power consumption		kW	3.63	5.18	6.88	8.82	10.7	13.0
Capacity control		%	20-100	20-100	16-100	15-100	11-100	10-100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll Type					
	Motor output	kW	2.4X1	3.4X1	4.1X1	5.2X1	(2.9X1)+(3.3X1)	(3.6X1)+(3.7X1)
Airflow rate		m³/min	119	157	165	178	233	233
Dimensions (HxWxD)		mm	1,657X930X765	1,657X930X765	1,657X930X765	1,657X930X765	1,657X1,240X765	1,657X1,240X765
Machine weight		kg	185	185	195	195	285	285
Sound level		dB(A)	55	56	57	59	60	61
Operation range		°CDB	-5 to 49					
Refrigerant	Type		R-410A					
	Charge	kg	5.9	5.9	6.0	6.3	10.3	10.4
Piping connections	Liquid	mm	φ9.5 (Brazing)			φ12.7 (Brazing)		
	Gas	mm	φ19.1 (Brazing)		φ22.2 (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.
•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

Standard Type

																	
MODEL		RXQ18TANYM(E)	RXQ20TANYM(E)	RXQ22TANYM(E)	RXQ24TANYM(E)	RXQ26TANYM(E)	RXQ28TANYM(E)	RXQ30TANYM(E)		RXQ32TANYM(E)	RXQ34TANYM(E)	RXQ36TANYM(E)	RXQ38TANYM(E)	RXQ40TANYM(E)	RXQ42TANYM(E)	RXQ44TANYM(E)	RXQ46TANYM(E)	
Combination units		RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)		RXQ14TAYM(E)	RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ8TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	
		RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ16TAYM(E)		RXQ18TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	RXQ16TAYM(E)	RXQ14TAYM(E)	
		—	—	—	—	—	—	—		—	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ18TAYM(E)	RXQ16TAYM(E)	RXQ16TAYM(E)	RXQ16TAYM(E)	RXQ18TAYM(E)	
Power supply		3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz								3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz								
Cooling capacity	kcal/h	43,300	48,100	53,700	58,500	63,200	68,800	73,100		77,400	81,700	86,900	91,200	96,300	102,000	107,000	112,000	
	Btu/h	172,000	191,000	213,000	232,000	251,000	273,000	290,000		307,000	324,000	345,000	362,000	382,000	406,000	423,000	444,000	
	kW	50.4	55.9	62.4	68.0	73.5	80.0	85.0		90.0	95.0	101	106	112	119	124	130	
Power consumption	kW	12.1	14.0	15.9	17.6	19.5	21.4	23.7		26.1	24.5	26.5	29.4	30.6	32.5	34.8	36.8	
Capacity control	%	8-100	8-100	7-100	6-100	6-100	5-100	5-100		5-100	5-100	5-100	4-100	4-100	4-100	4-100	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)+(4.1X1)	(3.4X1)+(5.2X1)	(3.4X1)+(2.9X1)+(3.3X1)	(4.1X1)+(2.9X1)+(3.3X1)	(5.2X1)+(2.9X1)+(3.3X1)	(2.9X1)+(3.3X1)+(2.9X1)+(3.3X1)	(2.9X1)+(3.3X1)+(3.6X1)+(3.7X1)		(2.9X1)+(3.3X1)+(4.4X1)+(4.0X1)	(4.1X1)+(5.2X1)+(5.2X1)	(5.2X1)+(5.2X1)+(5.2X1)	(3.4X1)+(5.2X1)+(4.4X1)+(4.0X1)	(5.2X1)+(5.2X1)+(3.6X1)+(3.7X1)	(5.2X1)+(2.9X1)+(3.3X1)+(3.6X1)+(3.7X1)	(5.2X1)+(3.6X1)+(3.7X1)+(3.6X1)+(3.7X1)	(2.9X1)+(3.3X1)+(2.9X1)+(3.3X1)+(4.4X1)+(4.0X1)	
Airflow rate	m³/min	157+165	157+178	157+233	165+233	178+233	233+233	233+233		233+233	165+178+178	178+178+178	157+178+233	178+178+233	178+233+233	178+233+233	233+233+233	
Dimensions (HxWxD)	mm	(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X1,240X765)	(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)	(1,657X930X765)+(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)+(1,657X1,240X765)	(1,657X930X765)+(1,657X930X765)+(1,657X1,240X765)	(1,657X930X765)+(1,657X1,240X765)+(1,657X1,240X765)	(1,657X930X765)+(1,657X1,240X765)+(1,657X1,240X765)	(1,657X1,240X765)+(1,657X1,240X765)+(1,657X1,240X765)	
Machine weight	kg	185+195	185+195	185+285	195+285	195+285	285+285	285+285		285+285	195+195+195	195+195+195	185+195+285	195+195+285	195+285+285	195+285+285	285+285+285	
Sound level	dB(A)	60	61	61	62	63	63	64		64	63	64	64	65	65	65	66	
Operation range	°CDB	-5 to 49								-5 to 49								
Refrigerant	Type	R-410A								R-410A								
	Charge kg	5.9+6.0	5.9+6.3	5.9+10.3	6.0+10.3	6.3+10.3	10.3+10.3	10.3+10.4		10.3+10.5	6.0+6.3+6.3	6.3+6.3+6.3	5.9+6.3+10.5	6.3+6.3+10.4	6.3+10.3+10.4	6.3+10.4+10.4	10.3+10.3+10.5	
Piping connections	Liquid mm	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)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	
	Gas mm	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)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (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.
   - 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

Standard Type

MODEL			RXQ48TANYM(E)	RXQ50TANYM(E)	RXQ52TANYM(E)	RXQ54TANYM(E)	RXQ56TANYM(E)	RXQ58TANYM(E)	RXQ60TANYM(E)
Combination units			RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ16TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ20TAYM(E)
			RXQ16TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ20TAYM(E)	RXQ20TAYM(E)
			RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ20TAYM(E)	RXQ20TAYM(E)	RXQ20TAYM(E)
Power supply			3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz						
Cooling capacity		kcal/h	116,000	120,000	125,000	129,000	134,000	139,000	144,000
		Btu/h	461,000	478,000	495,000	512,000	532,000	553,000	573,000
		kW	135	140	145	150	156	162	168
Power consumption		kW	39.1	41.5	43.8	46.2	48.8	51.4	54.0
Capacity control		%	3-100	3-100	3-100	3-100	3-100	3-100	3-100
Casing colour			Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically Sealed Scroll Type						
	Motor output	kW	(2.9X1)+(3.3X1)+(3.6X1)+(3.7X1)+(4.4X1)+(4.0X1)	(2.9X1)+(3.3X1)+(4.4X1)+(4.0X1)+(4.4X1)+(4.0X1)	(3.6X1)+(3.7X1)+(4.4X1)+(4.0X1)+(4.4X1)+(4.0X1)	(4.4X1)+(4.0X1)+(4.4X1)+(4.0X1)+(4.4X1)+(4.0X1)	(4.4X1)+(4.0X1)+(4.4X1)+(4.0X1)+(4.6X1)+(5.5X1)	(4.4X1)+(4.0X1)+(4.6X1)+(5.5X1)+(4.6X1)+(5.5X1)	(4.6X1)+(5.5X1)+(4.6X1)+(5.5X1)+(4.6X1)+(5.5X1)
Airflow rate		m³/min	233+233+233	233+233+233	233+233+233	233+233+233	233+233+268	233+268+268	268+268+268
Dimensions (HxWxD)		mm	(1,657X1,240X765)+(1,657X1,240X765)+(1,657X1,240X765)	(1,657X1,240X765)+(1,657X1,240X765)+(1,657X1,240X765)	(1,657X1,240X765)+(1,657X1,240X765)+(1,657X1,240X765)	(1,657X1,240X765)+(1,657X1,240X765)+(1,657X1,240X765)	(1,657X1,240X765)+(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	285+285+285	285+285+285	285+285+285	285+285+285	285+285+320	285+320+320	320+320+320
Sound level		dB(A)	66	66	66	67	68	69	70
Operation range		°CDB	-5 to 49						
Refrigerant	Type		R-410A						
	Charge	kg	10.3+10.4+10.5	10.3+10.5+10.5	10.4+10.5+10.5	10.5+10.5+10.5	10.5+10.5+11.8	10.5+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)
	Gas	mm	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (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.
•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.

Space Saving Type

MODEL			RXQ18TAYM(E)	RXQ20TAYM(E)	RXQ22TASYM(E)	RXQ24TASYM(E)
Combination units			—	—	RXQ10TAYM(E)	RXQ12TAYM(E)
					RXQ12TAYM(E)	RXQ12TAYM(E)
					—	—
Power supply			3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz			
Cooling capacity		kcal/h	43,000	48,200	52,900	57,600
		Btu/h	171,000	191,000	210,000	229,000
		kW	50.0	56.0	61.5	67.0
Power consumption		kW	15.4	18.0	15.7	17.6
Capacity control		%	10-100	8-100	8-100	8-100
Casing colour			Ivory white (5Y7.5/1)			
Compressor	Type		Hermetically Sealed Scroll Type			
	Motor output	kW	(4.4X1)+(4.0X1)	(4.6X1)+(5.5X1)	(4.1X1)+(5.2X1)	(5.2X1)+(5.2X1)
Airflow rate		m³/min	233	268	165+178	178+178
Dimensions (HxWxD)		mm	1,657X1,240X765	1,657X1,240X765	(1,657X930X765)+(1,657X930X765)	(1,657X930X765)+(1,657X930X765)
Machine weight		kg	285	320	195+195	195+195
Sound level		dB(A)	62	65	61	62
Operation range		°CDB	-5 to 49			
Refrigerant	Type		R-410A			
	Charge	kg	10.5	11.8	6.0+6.3	6.3+6.3
Piping connections	Liquid	mm	φ15.9 (Brazing)	φ15.9 (Brazing)	φ15.9 (Brazing)	φ15.9 (Brazing)
	Gas	mm	φ28.6 (Brazing)	φ28.6 (Brazing)	φ28.6 (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.
•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

Space Saving Type

																
MODEL			RXQ26TASYM(E)	RXQ28TASYM(E)	RXQ30TASYM(E)	RXQ32TASYM(E)	RXQ34TASYM(E)	RXQ36TASYM(E)		RXQ38TASYM(E)	RXQ40TASYM(E)	RXQ42TASYM(E)	RXQ44TASYM(E)	RXQ46TASYM(E)	RXQ48TASYM(E)	RXQ50TASYM(E)
Combination units			RXQ8TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ16TAYM(E)	RXQ18TAYM(E)		RXQ18TAYM(E)	RXQ20TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)
			RXQ18TAYM(E)	RXQ16TAYM(E)	RXQ18TAYM(E)	RXQ20TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)		RXQ20TAYM(E)	RXQ20TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ16TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)
			—	—	—	—	—	—		—	—	RXQ18TAYM(E)	RXQ20TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ20TAYM(E)
Power supply			3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz							3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz						
Cooling capacity		kcal/h	62,300	67,500	71,800	77,000	81,700	86,000		91,200	96,300	101,000	106,000	111,000	115,000	120,000
		Btu/h	247,000	268,000	285,000	305,000	324,000	341,000		362,000	382,000	399,000	420,000	440,000	457,000	478,000
		kW	72.4	78.5	83.5	89.5	95.0	100		106	112	117	123	129	134	140
Power consumption		kW	20.6	21.8	24.2	26.8	28.4	30.8		33.4	36.0	33.0	35.6	37.2	39.6	42.2
Capacity control		%	7-100	6-100	6-100	5-100	5-100	5-100		4-100	4-100	4-100	4-100	4-100	4-100	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)+(4.4X1)+(4.0X1)	(5.2X1)+(3.6X1)+(3.7X1)	(5.2X1)+(4.4X1)+(4.0X1)	(5.2X1)+(4.6X1)+(5.5X1)	(3.6X1)+(3.7X1)+(4.4X1)+(4.0X1)	(4.4X1)+(4.0X1)+(4.4X1)+(4.0X1)		(4.4X1)+(4.0X1)+(4.6X1)+(5.5X1)	(4.6X1)+(5.5X1)+(4.6X1)+(5.5X1)	(5.2X1)+(5.2X1)+(4.4X1)+(4.0X1)	(5.2X1)+(5.2X1)+(4.6X1)+(5.5X1)	(5.2X1)+(3.6X1)+(3.7X1)+(4.4X1)+(4.0X1)	(5.2X1)+(4.4X1)+(4.0X1)+(4.4X1)+(4.0X1)	(5.2X1)+(4.4X1)+(4.0X1)+(4.6X1)+(5.5X1)
Airflow rate		m³/min	157+233	178+233	178+233	178+268	233+233	233+233		233+268	268+268	178+178+233	178+178+268	178+233+233	178+233+233	178+233+268
Dimensions (HxWxD)		mm	(1,657X930X765)+(1,657X1,240X765)	(1,657X930X765)+(1,657X1,240X765)	(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)+(1,657X1,240X765)	(1,657X930X765)+(1,657X930X765)+(1,657X1,240X765)	(1,657X930X765)+(1,657X930X765)+(1,657X1,240X765)	(1,657X930X765)+(1,657X1,240X765)+(1,657X1,240X765)	(1,657X930X765)+(1,657X1,240X765)+(1,657X1,240X765)	(1,657X930X765)+(1,657X1,240X765)+(1,657X1,240X765)
Machine weight		kg	185+285	195+285	195+285	195+320	285+285	285+285		285+320	320+320	195+195+285	195+195+320	195+285+285	195+285+285	195+285+320
Sound level		dB(A)	63	63	64	66	65	65		67	68	65	67	66	66	67
Operation range		°CDB	-5 to 49							-5 to 49						
Refrigerant	Type		R-410A							R-410A						
	Charge	kg	5.9+10.5	6.3+10.4	6.3+10.5	6.3+11.8	10.4+10.5	10.5+10.5		10.5+11.8	11.8+11.8	6.3+6.3+10.5	6.3+6.3+11.8	6.3+10.4+10.5	6.3+10.5+10.5	6.3+10.5+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	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (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)

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.
   - 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

For connection of only VRV indoor units

High-COP Type

HP	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
12	300	RXQ12TAH	RXQ6TAx 2	BHFP22P100	150 to 390 (480)	19 (24)
14	350	RXQ14TAH	RXQ6TA+ RXQ8TA		175 to 455 (560)	22 (28)
16	400	RXQ16TAH	RXQ8TA x 2		200 to 520 (640)	26 (32)
18	450	RXQ18TAH	RXQ6TA x 3	BHFP22P151	225 to 585 (585)	29 (29)
20	500	RXQ20TAH	RXQ6TAx 2+ RXQ8TA		250 to 650 (650)	32 (32)
22	550	RXQ22TAH	RXQ6TA+ RXQ8TAx 2		275 to 715 (715)	35 (35)
24	600	RXQ24TAH	RXQ8TAx 3		300 to 780 (780)	39 (39)
26	650	RXQ26TAH	RXQ8TAx 2 + RXQ10TA		325 to 845 (845)	42 (42)
28	700	RXQ28TAH	RXQ8TAx 2 + RXQ12TA		350 to 910 (910)	45 (45)
30	750	RXQ30TAH	RXQ8TA+ RXQ10TA+ RXQ12TA		375 to 975 (975)	48 (48)
32	800	RXQ32TAH	RXQ8TA+ RXQ12TAx 2		400 to 1,040 (1,040)	52 (52)
34	850	RXQ34TAH	RXQ8TA+ RXQ12TA+ RXQ14TA		425 to 1,105 (1,105)	55 (55)
36	900	RXQ36TAH	RXQ8TA+ RXQ14TA x 2		450 to 1,170 (1,170)	58 (58)
38	950	RXQ38TAH	RXQ12TAx 2+ RXQ14TA		475 to 1,235 (1,235)	61 (61)
40	1,000	RXQ40TAH	RXQ12TA+ RXQ14TAx 2		500 to 1,300 (1,300)	64 (64)
42	1,050	RXQ42TAH	RXQ14TAx 3		525 to 1,365 (1,365)	
44	1,100	RXQ44TAH	RXQ14TAx 2+ RXQ16TA		550 to 1,430 (1,430)	
46	1,150	RXQ46TAH	RXQ14TA+ RXQ16TAx 2		575 to 1,495 (1,495)	
48	1,200	RXQ48TAH	RXQ16TAx 3		600 to 1,560 (1,560)	
50	1,250	RXQ50TAH	RXQ16TAx 2 + RXQ18TA		625 to 1,625 (1,625)	

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 9 for notes on connection capacity of indoor units.

Space Saving Type

HP	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
18	450	RXQ18TA	RXQ18TA	–	225 to 585 (900)	29 (45)
20	500	RXQ20TA	RXQ20TA	–	250 to 650 (1,000)	32 (50)
22	550	RXQ22TAS	RXQ10TA + RXQ12TA	BHFP22P100	275 to 715 (880)	35 (44)
24	600	RXQ24TAS	RXQ12TA x 2		300 to 780 (960)	39 (48)
26	650	RXQ26TAS	RXQ8TA + RXQ18TA		325 to 845 (1,040)	42 (52)
28	700	RXQ28TAS	RXQ12TA + RXQ16TA		350 to 910 (1,120)	45 (56)
30	750	RXQ30TAS	RXQ12TA + RXQ18TA		375 to 975 (1,200)	48 (60)
32	800	RXQ32TAS	RXQ12TA + RXQ20TA		400 to 1,040 (1,280)	52 (64)
34	850	RXQ34TAS	RXQ16TA + RXQ18TA		425 to 1,105 (1,360)	55 (64)
36	900	RXQ36TAS	RXQ18TA x 2		450 to 1,170 (1,440)	58 (64)
38	950	RXQ38TAS	RXQ18TA + RXQ20TA		475 to 1,235 (1,520)	61 (64)
40	1,000	RXQ40TAS	RXQ20TA x 2		500 to 1,300 (1,600)	64 (64)
42	1,050	RXQ42TAS	RXQ12TA x 2 + RXQ18TA	BHFP22P151	525 to 1,365 (1,365)	
44	1,100	RXQ44TAS	RXQ12TA x 2 + RXQ20TA		550 to 1,430 (1,430)	
46	1,150	RXQ46TAS	RXQ12TA + RXQ16TA + RXQ18TA		575 to 1,495 (1,495)	
48	1,200	RXQ48TAS	RXQ12TA + RXQ18TA x 2		600 to 1,560 (1,560)	
50	1,250	RXQ50TAS	RXQ12TA + RXQ18TA + RXQ20TA		625 to 1,625 (1,625)	

Note: *1 For multiple connection of 22 HP 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 9 for notes on connection capacity of indoor units.

Standard Type

HP	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
6	150	RXQ6TA	RXQ6TA	–	75 to 195 (300)	9 (15)
8	200	RXQ8TA	RXQ8TA	–	100 to 260 (400)	13 (20)
10	250	RXQ10TA	RXQ10TA	–	125 to 325 (500)	16 (25)
12	300	RXQ12TA	RXQ12TA	–	150 to 390 (600)	19 (30)
14	350	RXQ14TA	RXQ14TA	–	175 to 455 (700)	22 (35)
16	400	RXQ16TA	RXQ16TA	–	200 to 520 (800)	26 (40)
18	450	RXQ18TAN	RXQ8TA + RXQ10TA	BHFP22P100	225 to 585 (720)	29 (36)
20	500	RXQ20TAN	RXQ8TA + RXQ12TA		250 to 650 (800)	32 (40)
22	550	RXQ22TAN	RXQ8TA + RXQ14TA		275 to 715 (880)	35 (44)
24	600	RXQ24TAN	RXQ10TA + RXQ14TA		300 to 780 (960)	39 (48)
26	650	RXQ26TAN	RXQ12TA + RXQ14TA		325 to 845 (1,040)	42 (52)
28	700	RXQ28TAN	RXQ14TA x 2		350 to 910 (1,120)	45 (56)
30	750	RXQ30TAN	RXQ14TA + RXQ16TA		375 to 975 (1,200)	48 (60)
32	800	RXQ32TAN	RXQ14TA + RXQ18TA		400 to 1,040 (1,280)	52 (64)
34	850	RXQ34TAN	RXQ10TA + RXQ12TA x 2	BHFP22P151	425 to 1,105 (1,105)	55 (55)
36	900	RXQ36TAN	RXQ12TA x 3		450 to 1,170 (1,170)	58 (58)
38	950	RXQ38TAN	RXQ8TA + RXQ12TA + RXQ18TA		475 to 1,235 (1,235)	61 (61)
40	1,000	RXQ40TAN	RXQ12TA x 2 + RXQ16TA		500 to 1,300 (1,300)	64 (64)
42	1,050	RXQ42TAN	RXQ12TA + RXQ14TA + RXQ16TA		525 to 1,365 (1,365)	
44	1,100	RXQ44TAN	RXQ12TA + RXQ16TA x 2		550 to 1,430 (1,430)	
46	1,150	RXQ46TAN	RXQ14TA x 2 + RXQ18TA		575 to 1,495 (1,495)	
48	1,200	RXQ48TAN	RXQ14TA + RXQ16TA + RXQ18TA		600 to 1,560 (1,560)	
50	1,250	RXQ50TAN	RXQ14TA + RXQ18TA x 2		625 to 1,625 (1,625)	
52	1,300	RXQ52TAN	RXQ16TA + RXQ18TA x 2		650 to 1,690 (1,690)	
54	1,350	RXQ54TAN	RXQ18TA x 3		675 to 1,755 (1,755)	
56	1,400	RXQ56TAN	RXQ18TA x 2 + RXQ20TA		700 to 1,820 (1,820)	
58	1,450	RXQ58TAN	RXQ18TA + RXQ20TA x 2		725 to 1,885 (1,885)	
60	1,500	RXQ60TAN	RXQ20TA x 3		750 to 1,950 (1,950)	

Note: *1 For multiple connection of 18 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 9 for notes on connection capacity of indoor units.

For mixed combination of VRV and residential indoor units or connection of only residential indoor units

Model name*1	kW	HP	Capacity index	Total capacity index of connectable indoor units*2 Combination (%)*2			Maximum number of connectable indoor units
				50%	100%	130%	
RXQ6TAYM	16.0	6	150	75	150	195	9
RXQ8TAYM	22.4	8	200	100	200	260	13
RXQ10TAYM	28.0	10	250	125	250	325	16
RXQ12TAYM	33.5	12	300	150	300	390	19
RXQ14TAYM	40.0	14	350	175	350	455	22
RXQ16TAYM	45.0	16	400	200	400	520	26
RXQ18TAYM	50.0	18	450	225	450	585	29
RXQ20TAYM	56.0	20	500	250	500	650	32

Note: *1 Only single outdoor unit (RXQ6-20TAYM) can be connected.
*2 Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor unit.

VRV 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%		KAFP556C80						KAFP556C160	
		High efficiency filter unit 90%		KAFP557C80						KAFP557C160	
		Replacement high efficiency filter 65%		KAFP552B80						KAFP552B160	
		Replacement high efficiency filter 90%		KAFP553B80						KAFP553B160	
		Filter chamber		KDDFP55C160							
		Long life replacement filter		KAFP551K160							
		Ultra long-life filter unit		KAFP55C160							
		Replacement ultra long-life filter		KAFP55H160H							
5	Fresh air intake kit	Chamber type	Without T-duct joint	KDDQ55B140 (Components: KDDP55C160-1, KDDQ55B140-2) *1							
			With T-duct joint	KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) *1							
		Direct installation type		KDDP55X160A							
6	Branch duct chamber			KDJP55B80						KDJP55B160	
7	Insulation kit for high humidity			KDTP55K80						KDTP55K160	

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

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%		KAFP556C80						KAFP556C160	
		High efficiency filter unit 90%		KAFP557C80						KAFP557C160	
		Replacement high efficiency filter 65%		KAFP552B80						KAFP552B160	
		Replacement high efficiency filter 90%		KAFP553B80						KAFP553B160	
		Filter chamber		KDDFP55C160							
		Long life replacement filter		KAFP551K160							
		Ultra long-life filter unit		KAFP55C160							
		Replacement ultra long-life filter		KAFP55H160H							
5	Fresh air intake kit	Chamber type	Without T-duct joint	KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) *1							
			With T-duct joint	KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) *1							
		Direct installation type		KDDP55X160A							
6	Branch duct chamber			KDJP55B80						KDJP55B160	
7	Chamber connection kit			KKSJ55KA160							
8	Insulation kit for high humidity			KDTP55K80						KDTP55K160	

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

Ceiling Mounted Cassette (Compact Multi Flow) Type

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

Ceiling Mounted Cassette (Double Flow) Type

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

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

Ceiling Mounted Cassette Corner Type

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

Slim Ceiling Mounted Duct Type (Standard Series)

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	

4-Way Flow Ceiling Suspended Type

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

Ceiling Suspended Type

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

Wall Mounted Type

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

VRV Indoor Units

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	

Floor Standing Duct Type

No.	Item \ Type				FXVQ125N	FXVQ200N	FXVQ250N	FXVQ400N	FXVQ500N
1	Discharge and Suction	Replacement long life filter			KAFJ261L140	KAFJ261L224	KAFJ261L280	KAFJ261M450	KAFJ261M560
2		Ultra long-life filter			–			KAFSJ9A400	KAFSJ9A560
3		Front suction filter chamber for high efficiency filter	Front suction base flange		KD-9A140	KD-9A200	KD-9A280	KD-9A400	KD-9A560
4			Suction grille		KDGF-9A140	KDGF-9A200	KDGF-9A280	KDGF-9A400	KDGF-9A560
5			Filter chamber for high efficiency filter *1, 2	Replacement long-life filter *1, 2, 3	KAF-91A140	KAF-91A200	KAF-91A280	KAF-91A400	KAF-91A560
6				Replacement high efficiency filter 65% *1, 3	KAF-92A140	KAF-92A200	KAF-92A280	KAF-92A400	KAF-92A560
7				Replacement high efficiency filter 90% *2, 3	KAF-93A140	KAF-93A200	KAF-93A280	KAF-93A400	KAF-93A560
8				Filter chamber *1, 2	KDDF-9A140	KDDF-9A200	KDDF-9A280	KDDF-9A400	KDDF-9A560
9		Plenum chamber *4			KPCJ140A	KPC5J	KPC8J	KPCJ400A	KPC15JA
10		Pulley for plenum chamber *4			KPP8JA	KPP9JA	KPP10JA	–	
11		Fresh air intake kit			KD106D10			KDFJ906A560	
12		Rear suction kit			KDFJ905A140	KDFJ905A200	KDFJ905A280	KDFJ905A400	KDFJ905A560
13		Discharge grille for plenum side			KD101A10			KD101A20	
14	Wood base				KKWJ9A140	KWF1G5P	KWF1G8P	KKWJ9A400	KWF1G15
15	Vibration isolating frame				K-ABSG1406A	K-ABSG1407A	K-ABSG1408A	K-ABSG1409A	K-ABSG1410A

Note: *1. When ordering a filter chamber for high efficiency filter (65%), please order with all the respective parts.
*2. When ordering a filter chamber for high efficiency filter (90%), please order with all the respective parts.
*3. When replacing with a new filter, please order the replacement filters with the corresponding filter model name.
*4. Use the plenum chamber and pulley for plenum chamber in combination.

Clean Room Air Conditioner

No.	Item \ Type		FXBQ40PVE	FXBQ50PVE	FXBQ63PVE	FXBPQ63PVE
1	Outlet unit		–			BAF82A63
2	Filter	HEPA filter	BAFH82A50		BAFH82A63	
3	Panel	Ceiling intake type	BYB82A50C		BYB82A63C	BYB82A63CP
4		Floor-level intake type	BYB82A50W		BYB82A63W	BYB82A63WP
5	Outside air intake duct flange		KDFJ82A80			

Residential Indoor Units with connection to BP units

Slim Ceiling Mounted Duct Type

No.	Item \ Type	FDKS25EAVMB	FDKS35EAVMB	FDKS25CAVMB	FDKS35CAVMB	FDKS50CVMB	FDKS60CVMB
1	Insulation kit for high humidity	KDT25N32		KDT25N50			KDT25N63

Wall Mounted Type

No.	Item \ Type	FTKJ25NVMW FTKJ25NVMS	FTKJ35NVMW FTKJ35NVMS	FTKJ50NVMW FTKJ50NVMS	FTKS25DVM FTKS35DVM	FTKS50BVMA	FTKS50FVM FTKS60FVM FTKS71FVM
1	Titanium apatite photocatalytic air-purifying filter	KAF970A46				KAF952A42	KAF952B42

Note: Filter is a standard accessory. It should be replaced approximately 3 years.

BP Units for connection to residential indoor units

No.	Item \ Type	BPMKS967A2	BPMKS967A3
1	REFNET joint	KHRP26A22T	

Note: A single BP unit does not require a REFNET joint. 2 BP units require only 1 REFNET joint, and 3 BP units require only 2 REFNET joints.

Outdoor Units

High-COP Type

Optional Accessories		RXQ12TAHYM(E) RXQ14TAHYM(E) RXQ16TAHYM(E)
Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T
Outdoor unit multi connection piping kit		BHFP22P100

Optional Accessories		RXQ18TAHYM(E) RXQ20TAHYM(E) RXQ22TAHYM(E)	RXQ24TAHYM(E) RXQ26TAHYM(E) RXQ28TAHYM(E) RXQ30TAHYM(E) RXQ32TAHYM(E)	RXQ34TAHYM(E)
Distributive piping	REFNET header	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)	
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
Pipe size reducer		–	KHRP26M73TP, KHPR26M73HP	
Outdoor unit multi connection piping kit		BHFP22P151		

Optional Accessories		RXQ36TAHYM(E)	RXQ38TAHYM(E)	RXQ40TAHYM(E)	RXQ42TAHYM(E) RXQ44TAHYM(E) RXQ46TAHYM(E) RXQ48TAHYM(E) RXQ50TAHYM(E)
Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
Pipe size reducer		KHRP26M73TP, KHPR26M73HP			
Outdoor unit multi connection piping kit		BHFP22P151			

Standard Type

Optional Accessories		RXQ6TAYM(E) RXQ8TAYM(E) RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E) RXQ16TAYM(E)
Distributive piping	REFNET header	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)	
	REFNET joint	KHRP26A22T KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T	

Optional Accessories		RXQ18TANYM(E) RXQ20TANYM(E)	RXQ22TANYM(E)	RXQ24TANYM(E) RXQ26TANYM(E)	RXQ28TANYM(E) RXQ30TANYM(E) RXQ32TANYM(E)
Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch), KHRP26M72H (Max. 8 branch)		KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch)	
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T		KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
Pipe size reducer		–		KHRP26M73TP, KHPR26M73HP	
Outdoor unit multi connection piping kit					

Optional Accessories		RXQ34TANYM(E) RXQ36TANYM(E)	RXQ38TANYM(E) RXQ40TANYM(E)	RXQ42TANYM(E) RXQ44TANYM(E)	RXQ46TANYM(E) RXQ48TANYM(E) RXQ50TANYM(E) RXQ52TANYM(E) RXQ54TANYM(E) RXQ56TANYM(E) RXQ58TANYM(E) RXQ60TANYM(E)
Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
Pipe size reducer		KHRP26M73TP, KHPR26M73HP			
Outdoor unit multi connection piping kit		BHFP22P151			

Space Saving Type

Optional Accessories		RXQ18TAYM(E) RXQ20TAYM(E)
Disinbutive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T

Optional Accessories		RXQ22TASYM(E)	RXQ24TASYM(E)	RXQ26TASYM(E) RXQ28TASYM(E) RXQ30TASYM(E) RXQ32TASYM(E)	RXQ34TASYM(E) RXQ36TASYM(E) RXQ38TASYM(E) RXQ40TASYM(E)
Disinbutive piping	REFNET header	KHRP26M22H (Max.4 branch), KHRP26M33H (Max.8 branch), KHRP26M72H (Max.8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)		
	REFNET joint	KHRP26A22T, KHRP26M33T, KHRP26M72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T		
Pipe size reducer		–	KHRP26M73TP, KHRP26M73HP		
Outdoor unit connection piping kit		BHFP22P100			

Optional Accessories		RXQ42TASYM(E) RXQ44TASYM(E)	RXQ46TASYM(E) RXQ48TASYM(E) RXQ50TASYM(E)
Disinbutive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)	
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
Pipe size reducer		KHRP26M73TP, KHRP26M73HP	
Outdoor unit connection piping kit		BHFP22P151	

Control Systems

Operation Control System Optional Accessories

For *VRV* indoor unit use

No.	Item \ Type		FXFQ-S FXFQ-LU	FXZQ-M	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB	FXDQ-SP	FXSQ-P	FXMQ-P
1	Remote controller	Wireless	BRC7F635F	BRC7E531W	BRC7C67	BRC4C63	BRC4C66			
		Wired	BRC1C62							
2	Navigation remote controller (Wired remote controller)		BRC1E62 Note 7							
3	Simplified remote controller (Exposed type)		—				BRC2C51			
4	Remote controller for hotel use (Concealed type)		—				BRC3A61			
5	Adaptor for wiring		★KRP1C63	★KRP1BA57	★KRP1B61	KRP1B61	★KRP1B56	—	★KRP1C64	
6-1	Wiring adaptor for electrical appendices (1)		★KRP2A62	★KRP2A62	★KRP2A61	KRP2A61	★KRP2A53	—	★KRP2A61	
6-2	Wiring adaptor for electrical appendices (2)		★KRP4AA53	★KRP4AA53	★KRP4AA51	KRP4AA51	★KRP4A54	—	★KRP4AA51	
7	Remote sensor (for indoor temperature)		KRCS01-4B	KRCS01-1B	KRCS01-1B				KRCS01-4B	
8	Installation box for adaptor PCB☆		Note 2, 3 KRP1H98A	Note 4, 6 KRP1BA101	Note 2, 3 KRP1B96	—	Note 4, 6 KRP1BA101	—	Notes 2, 3 KRP4A98	Notes 2, 3 KRP4A96
9	External control adaptor for outdoor unit		★DTA104A62	★DTA104A62	★DTA104A61	DTA104A61	★DTA104A53	—	★DTA104A61	
10	Adaptor for multi tenant		★DTA114A61	—					★DTA114A61	

No.	Item \ Type		FXMQ-MA	FXUQ-A	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXVQ-N	FXBQ-P FXBPQ-P
1	Remote controller	Wireless	BRC4C64	BRC7CB59	BRC7EA66	BRC7EA619	BRC4C64	—	BRC4C64
		Wired	BRC1C62					BRC1C62 Note 8	BRC1C62
2	Navigation remote controller (Wired remote controller)		BRC1E62 Note 7					BRC1E62 Note 9	BRC1E62 Note 7
3	Simplified remote controller (Exposed type)		BRC2C51	—			BRC2C51	—	BRC2C51
4	Remote controller for hotel use (Concealed type)		BRC3A61	—			BRC3A61	—	BRC3A61
5	Adaptor for wiring		KRP1B61	—	KRP1BA54	—	KRP1B61	KRP1C67	KRP1B61
6-1	Wiring adaptor for electrical appendices (1)		KRP2A61	—	★KRP2A62	★KRP2A61	KRP2A61	KRP2A62	KRP2A61
6-2	Wiring adaptor for electrical appendices (2)		KRP4AA51	★KRP4AA53	★KRP4AA52	★KRP4AA51	KRP4AA51	—	KRP4AA51
7	Remote sensor (for indoor temperature)		KRCS01-1B	KRCS01-4B	KRCS01-1B				
8	Installation box for adaptor PCB☆		—	KRP1BA97	Note 3 KRP1CA93	Note 2, 3 KRP4AA93	—		
9	External control adaptor for outdoor unit		DTA104A61	—	★DTA104A62	★DTA104A61	DTA104A61	Note 10 DTA104A62	DTA104A61
10	Adaptor for multi tenant		—			★DTA114A61	—		
11	External control adaptor for cooling/heating		—					KRP6A1 Note 10	—
12	Remote controller with key		—					KRCB37-1	—

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.
8. Since the control panel is equipped as standard, use the option for 2 remote control system.
9. When using BRC1E62, be sure to remove the control panel and since BRC1E62 cannot be stored inside the indoor unit, please place it separately.
10. Remove the group control adaptor which is a standard equipment before mounting KRP6A1 and DTA104A62. KRP6A1 and DTA104A62 cannot be mounted to the same indoor unit at the same time.

For residential indoor unit use

No.	Item \ Type		FDKS-EA, C(A)	FTKJ-N	FTKS-D,B,F
1	Remote controller	Wireless type	— Note 1		
2	Wiring adaptor for time clock/remote controller Note 2 (Normal open pulse contact/normal open contact)		KRP413AB1S		
3	Remote controller loss prevention chain		KKF917A4	KKF910A4	KKF917A4
4	Interface adaptor for DIII-NET use		KRP928BB2S		

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

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	5-room centralised controller for residential indoor units	For FDKS, FTKJ, FTKS	Note 3 KRC72A	• Up to 5 indoor units can be controlled. This is a low cost system which can only control ON/OFF.
3	Interface adaptor for residential indoor units		KRP928BB2S	• 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. * To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
4	Interface adaptor for SkyAir-series		Note 4 ★DTA112BA51	
5	Central control adaptor kit	For UAT(Y)-K(A),FD-K	★DTA107A55	
6	Wiring adaptor for other air-conditioner		★DTA103A51	
7	DIII-NET Expander Adaptor		DTA109A51	• Up to 1024 units can be centrally controlled in 64 different groups. • Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor.
7-1	Mounting plate		KRP4A92	• Fixing plate for DTA109A51

Note: 1. Installation box for ★ adaptor must be obtained locally.
2. For residential use only. Cannot be used with other centralised control equipment.
3. A wiring adaptor (KRP413AB1S) is also required for each indoor unit.
4. 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			Hardware	*1 SVM series	SVMPR2	• *VRV* Smart phone Control System for residence
2-7					SVMPS1	• Tenant Billing System with PPD
2-8	*VRV* Smart Phone Control System				SVMPR1	• *VRV* Smart Phone Control System for residence with DTA116A51.
2-9	Di unit				DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.
2-10	Dio unit				DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input.
3	Communication interface	*2 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		*3 Interface for use in LONWORKS®			DMS504B51	• Interface unit to allow communications between *VRV* and BMS. Operation and monitoring of air-conditioning systems through LonWorks® communication.
5		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. HTTP interface (DCM007A51) is also required.
*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. Installation box for ★ adaptor must be obtained locally.

Individual Control Systems for *VRV* Indoor Units

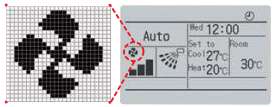
Navigation remote controller (Wired remote controller) (Option)

BRC1E62

Clear display

•Dot matrix display

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



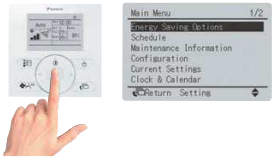
•Backlight display

· Backlight display helps operating in dark rooms.

Simple operation

•Large buttons and arrow keys

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



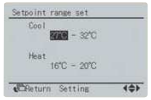
•Guide on display

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

Energy saving

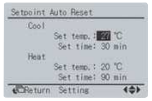
•Setpoint range set

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



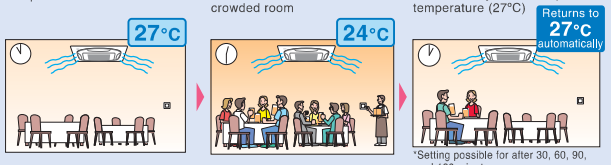
•Setpoint auto reset

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



Restaurant sample

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.

•Off timer

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

Convenience

•Setback (default:OFF)

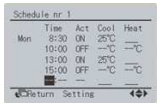
Maintains the room temperature in a specific range during unoccupied period by temporarily starting air conditioner that was turned OFF.

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

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.

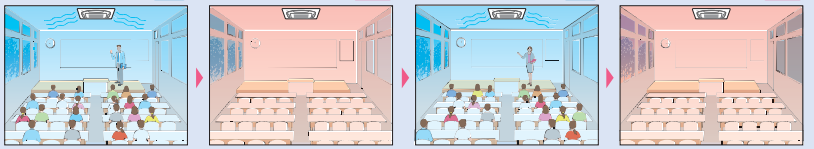
•Weekly schedule

· 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)

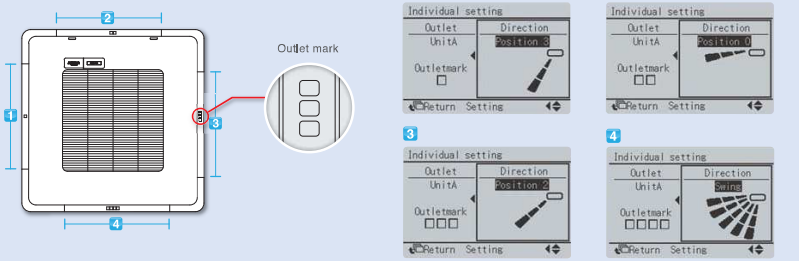
1) 8:30 ON	2) 10:00 OFF	3) 13:00 ON	4) 15:00 OFF
The first period starts and the air conditioner starts the cooling operation.	In the second period, the classroom is unoccupied and the air conditioner stops.	When the third period starts, operation starts again.	After the third period, the classroom becomes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

Wired remote controller (Option)

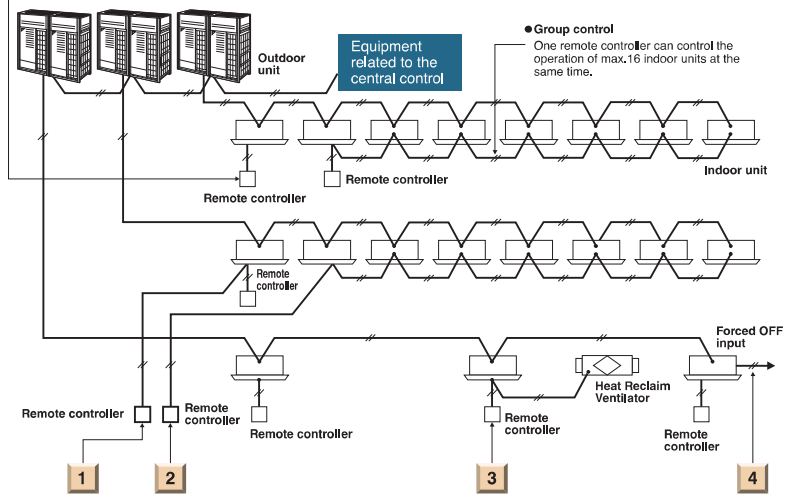
BRC1C62

- 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.
- **Group control** — One remote controller can control the operation of max. 16 indoor units at the same time.



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

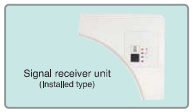
Signal receiver unit (Separate type)

- 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.

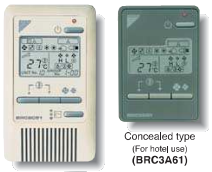
- A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.
  - A signal receiver unit (installed type) for a Ceiling Mounted Cassette (Round Flow, Compact Multi Flow, Double Flow) type, Ceiling Suspended type and Wall Mounted type is mounted into the indoor unit.

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 77 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	FXZQ	FXCQ	FXKQ	FXDQ	FXSQ	FXMQ	FXUQ	FXHQ	FXAQ	FXL(N)Q	FXVQ	FXB(P)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 77 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.

Building Control System

intelligent Manager

intelligent Manager (DCM601A51)

Via internet

ACC Centre

Via internet

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

Home Automation Master Controller

BMS

(Obtain locally)

Controllers for Centralised Control

intelligent Controller (DCS601C51)

Residential central remote controller (DCS303A51)

Control /Connection Interface

Unification adaptor for computerised control (DCS302A52)

Home Automation Interface Adaptor (DTA116A51)

Interface for use in BACnet® (DMS502B51)

Interface for use in LONWORKS® (DMS504B51)

Wiring adaptor for electrical appendices (KRP2A61/62/53)

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.

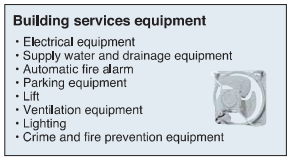
Interface Adaptor for SkyAir Series (DTA112BA51)

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.



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.

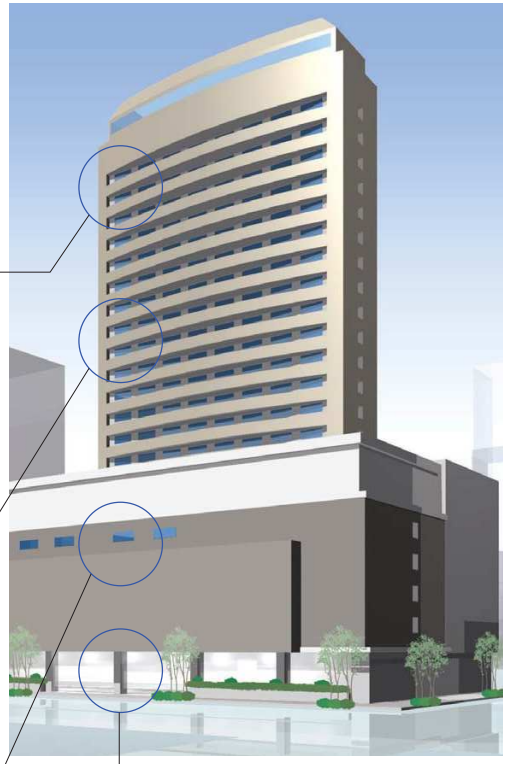
Advanced Control Systems for *VRV* Indoor Units

intelligent touch Manager

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

DCM009A51

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

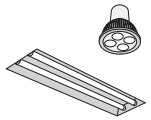


Individual air-conditioning control

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

Lighting control DALI-compatible

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



Air-conditioning control for large spaces

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

Building equipment control

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

Pump

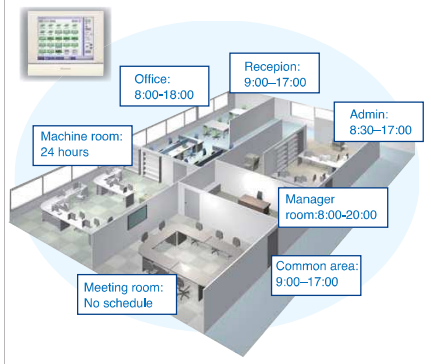
Fan

For Energy Saving & Comfort

intelligent Touch Manager maximises the advantages of *VRV* features

intelligent Touch Manager is an advanced multi-zone controller that provides the most cost-effective way to control and monitor the Daikin *VRV* system.
The 10.4" LCD touch screen is easy to use with three different screen views to include the floor plan layout view, icon view and list view and menus for system configurations.
It is also easy to use with standardized remote Web Access from your PC.
It can manage a total of 650 management points consisting of up to 512 Daikin indoor unit groups(up to 1024 indoor units) along with building equipment control / monitoring with Digital Inputs / Output (Di/Dio) , Analog Inputs / Output (Ai/Ao) and Pulse input (Pi) optional devices.

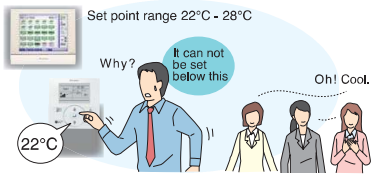
Schedule the operation time for each application.



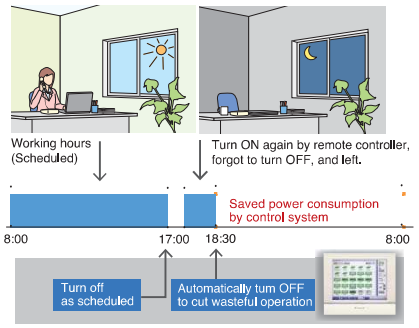
Define the setpoint range that users can change.

With Remote controller

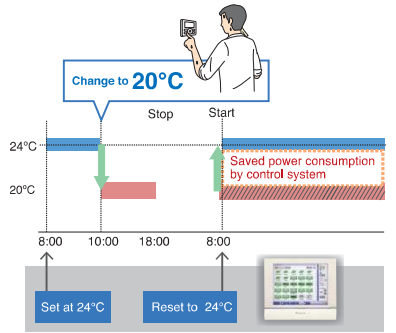
With Control System



Turn the unit OFF if a user didn't.



Reset setpoint regularly.



Advanced Control Systems for *VRV* Indoor Units

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

Lighting control (Option)

Connection to DALI - compatible lighting control system

Simple wiring (daisy chain) enables management of LED lighting by the *intelligent Touch Manager*.
Various air conditioning and lighting control is enabled through the interlock with occupancy sensors and illuminance sensors.

DALI-compatible

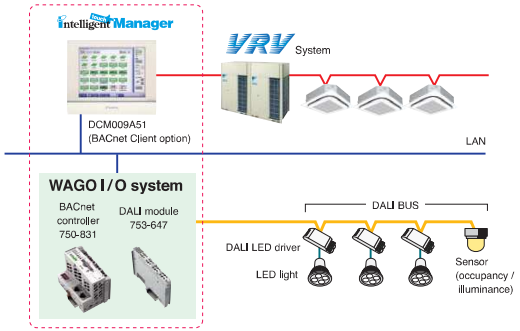
Please contact your local sales office for details.

Lighting control achieved by the *intelligent Touch Manager*

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

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

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



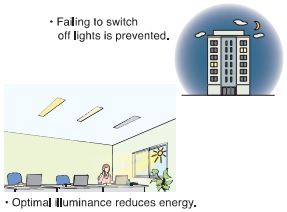
[Overview of control]

- Up to 5 DALI modules can be connected to a single BACnet controller.
- Up to 64 DALI LED drivers (64 addresses) can be connected to a single DALI module.
- 64 DALI addresses can be freely assigned to up to 16 groups using a single DALI module. (Each group corresponds to a management point of the *intelligent Touch Manager*.)
- Up to 16 scenes can be set to a single DALI module.
- Up to 12 sensors (occupancy, illuminance) can be connected to a single DALI module.
- DALI BAS simplifies wiring and setting work by daisy chain wiring and automatic address setting.

Easy maintenance and energy saving by lighting control

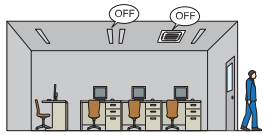
Case1

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



Case2

Occupancy sensors are used to eliminate both wasteful lighting and air conditioning.
When a room is unoccupied, the air conditioning stops and the lighting is switched off.



Case3

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

Lighting maintenance becomes easier and quicker.

The layout screen enables quick identification of specific locations.

Tenant Management (PPD* Option)

Reporting the power consumption of *VRV* system for each tenant

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

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

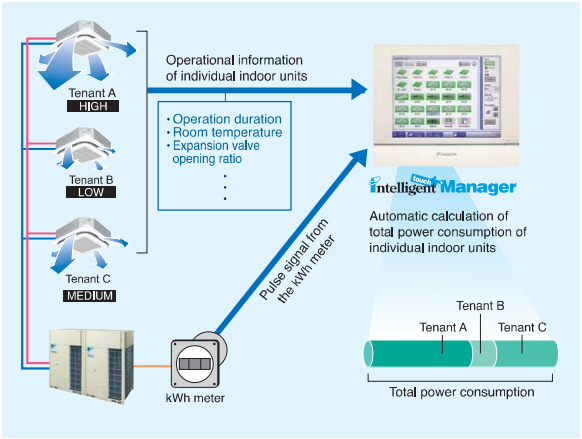
Operational information of individual indoor units are monitored, based on distribution of power consumption of outdoor units.

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

It is easy to output PPD data.

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

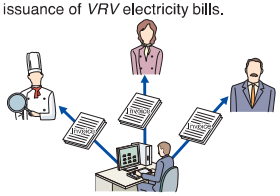
*PPD (Power Proportional Distribution) is Daikin's proprietary calculation method.



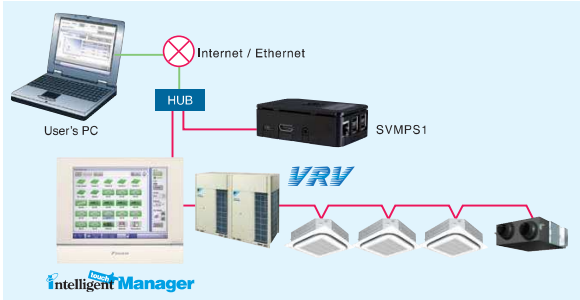
Air conditioning bills can be issued by one click

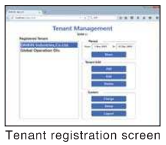
Electricity bills can be easily calculated for each tenant (Option)

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



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




Tenant registration screen

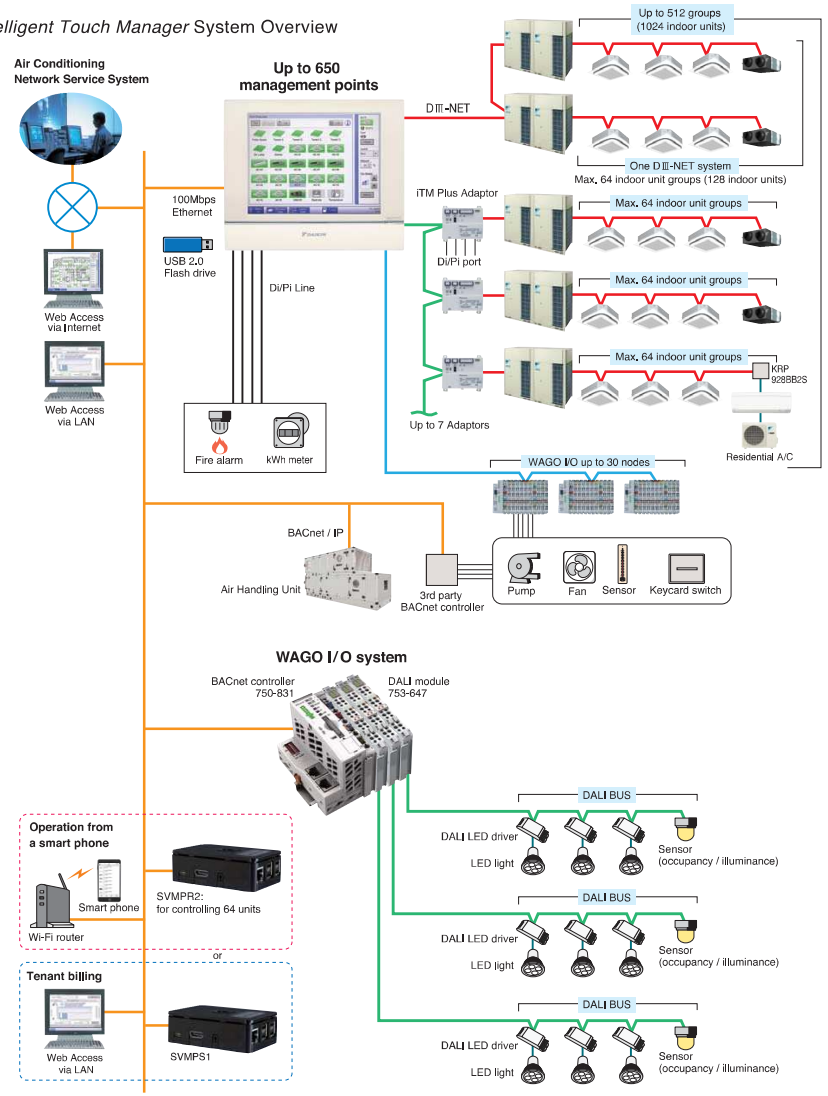

Setup screen


VRV electricity bill screen

Advanced Control Systems for *VRV* Indoor Units

System structure

intelligent Touch Manager System Overview



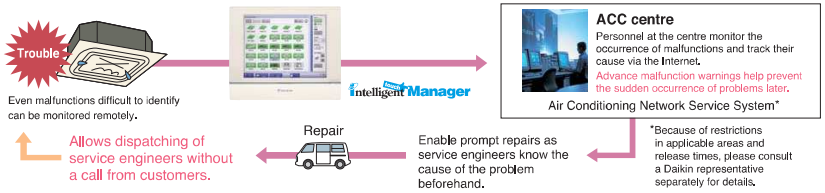
Air Conditioning Network Service System

Preventive Maintenance

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

Enhanced convenience with link to the Air Conditioning Network Service System

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



Daikin Offers a Variety of Control Systems

Convenient controllers that offer more freedom to administrators

DCS601C51

intelligent Touch Controller

Ease of use and expanded control functions

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

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

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

Dedicated interfaces make Daikin air conditioners freely compatible with open networks

DMS502B51 (Interface for use in BACnet®)

BACnet®

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

DMS504B51 (Interface for use in LONWORKS®)

LONWORKS®

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

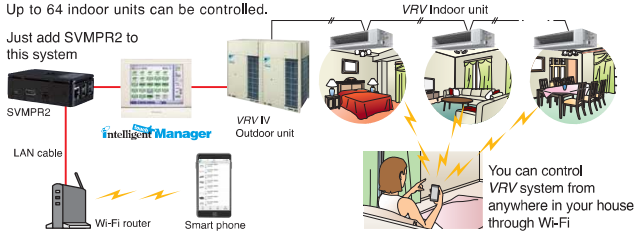
Note: 1.BACnet® is a registered trademark of American Society of Heating , Refrigerating and Air-Conditioning Engineers(ASHRAE).
2.LONWORKS® is a trademark of Echelon Corporation registered in the United States and other countries.

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

For house *VRV* Smart Phone Control System

Up to 64 indoor units can be controlled.

Just add SVMPR2 to this system

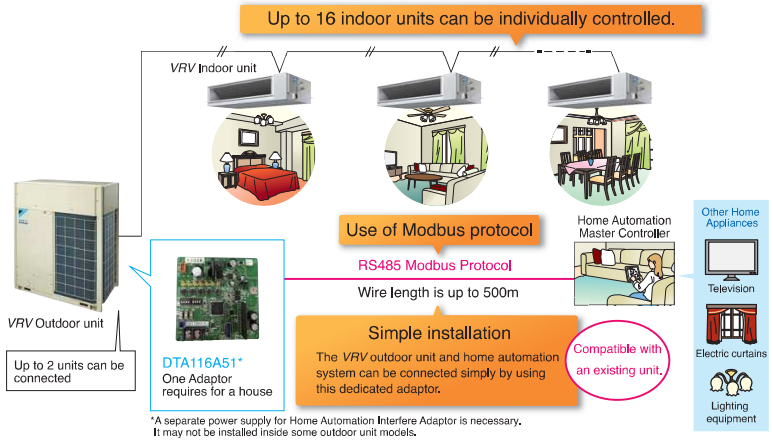


Advanced Control Systems for *VRV* Indoor Units

Home Automation Interface Adaptor

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

Image to use Home Automation Interface Adaptor DTA116A51



*A separate power supply for Home Automation Interfere Adaptor is necessary. It may not be installed inside some outdoor unit models.

■ Functions

● Monitor

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

● Control

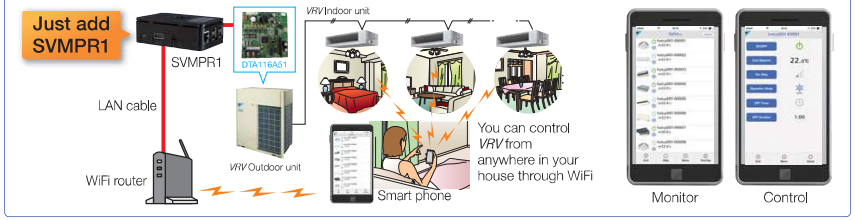
On/Off	On/Off control of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Cooling/Heating setpoint
Fan direction	Swing, Stop, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Filter sign reset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

● Retrieve system information

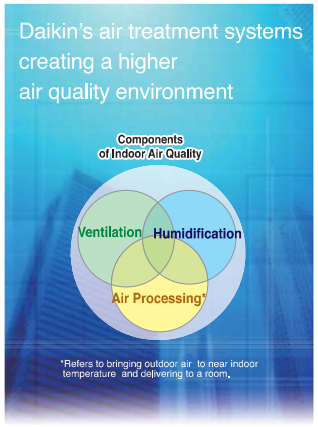
Connected indoor units	DIII-NET address of connected indoor units can be retrieved.
Indoor unit capabilities	Indoor unit capabilities such as operation mode, fan control, setpoint HV can be retrieved.

VRV Smart Phone Control System

***VRV* Smart Phone Control System can be realized by SVMPR1 which is a new product to utilize DTA116A51.**

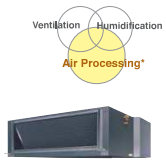


★ Modbus is a registered trademark of Schneider Electric S.A.



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★2offers 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.

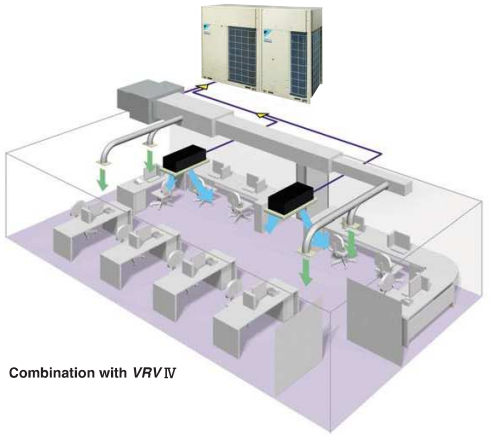
Outdoor-Air Processing Unit

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

Lineup

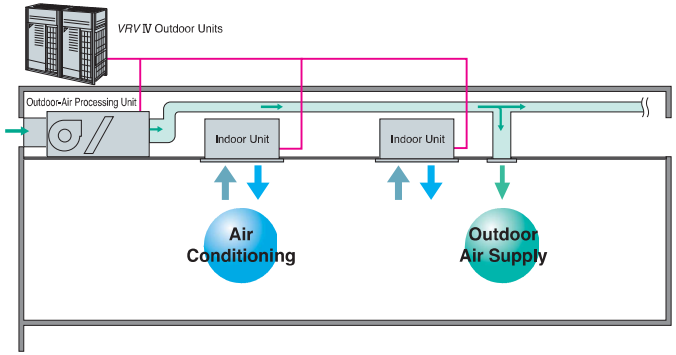
Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250

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



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.

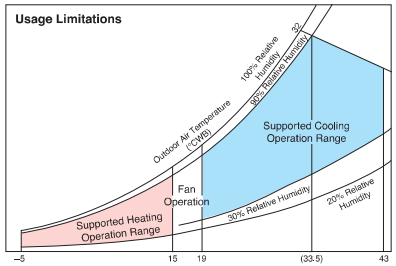
- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
- When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must 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.



Note:
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.

Note:
- 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
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		m³/min	18	28	35
			cfm	635	988	1,236
	External static pressure	220 V/240 V	Pa	185/225	225/275	205/255
Air 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				6 HP and above	8 HP and above	10 HP and above
Operation range (Fan mode operation between 15 and 19°C)			Cooling	19 to 43°C		
Range of the discharge temperature *5			Cooling	13 to 25°C		

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

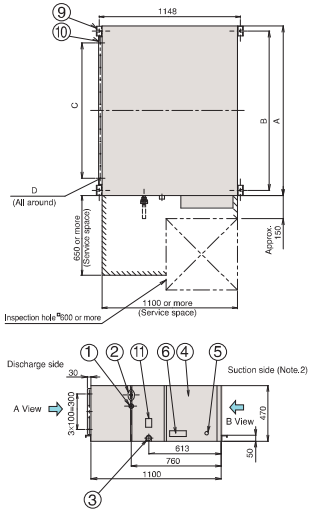
Indoor unit

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		

Note: *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

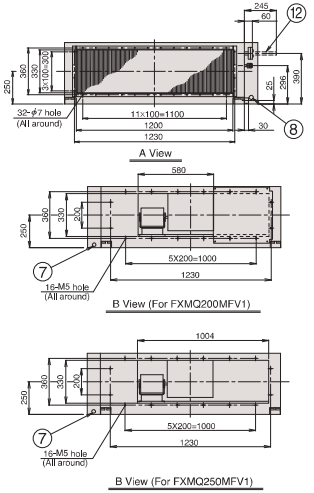
Table of dimensions

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

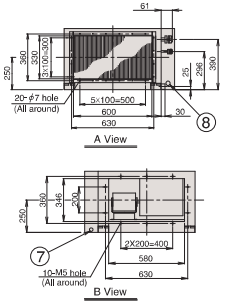
Notes:
1. The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (② in the diagram) has a different bore form with FXMQ125MFV1.
2. An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side. [Use a filter with dust 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

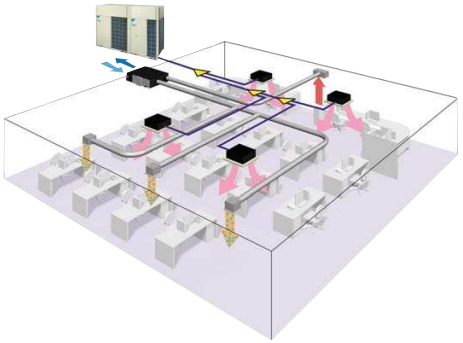


FXMQ125MFV1



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.



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

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.

Humidifier

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

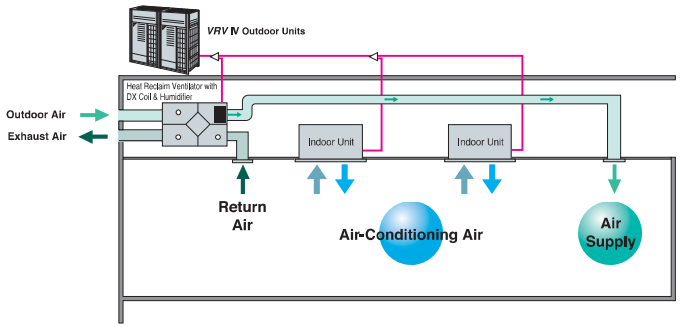
DX-coil

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.



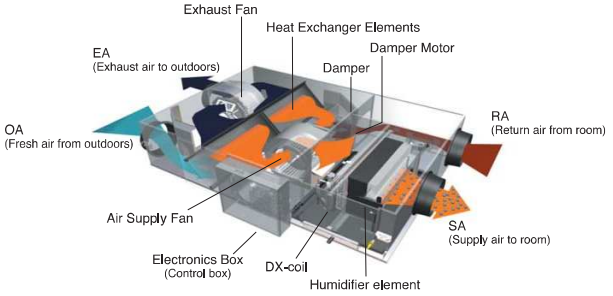
Connection Conditions

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

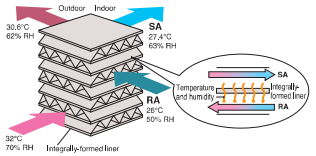
- When the Heat Reclaim Ventilator VKM series units are connected, the total connection capacity index must be 50% to 130% of the capacity index of the outdoor units.

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

HEP Element
(Anti-mould)



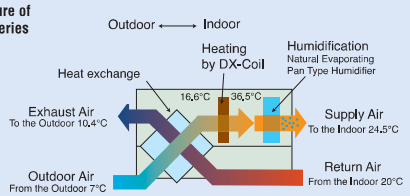
Operation of the heat exchanger element



DX-coil (Direct expansion coil)

Humidifier element

Heating and humidification process



Humidification:5.4kg/h (VKM100GAMV1)

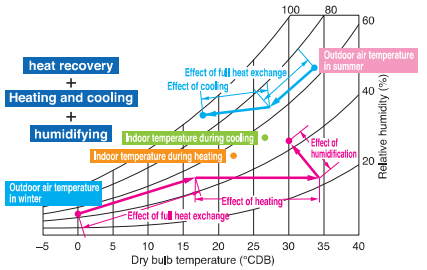
The Outdoor air is heated from 16.6°C to 36.5°C with DX-coil, Natural Evaporating Pan Type Humidifier is passed and humidification capacity is improved.

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				Galvanised Steel Plate					
Insulating Material				Self-Extinguishable Urethane Foam					
Heat Exchanging System				Air to Air Cross Flow Total Heat (Sensible + Latent Heat) Exchange					
Heat Exchanger Element				Specially Processed Nonflammable Paper					
Air Filter				Multidirectional Fibrous Fleeces					
DX-coil Capacity	Cooling (Note 2)		kW	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					

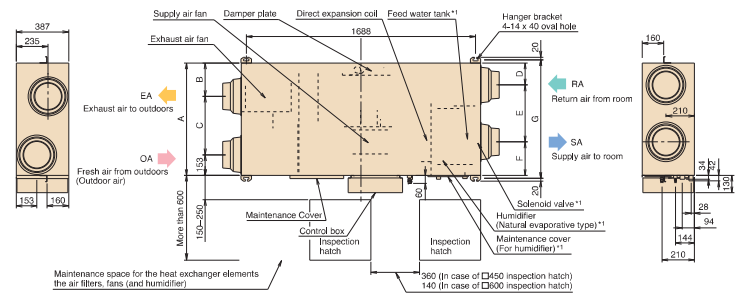
Note: 1. Cooling and heating capacities are based on the following conditions. Fan is based on High and Ultra-high.
When calculating the capacity as indoor units, use the following figures:
VKM50GAMV1/GV1: 3.5 kW, VKM80GAMV1/GV1: 5.6 kW, VKM100GAMV1/GV1: 7.0 kW
2. Indoor temperature: 27°C DB, 19°C WB,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

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

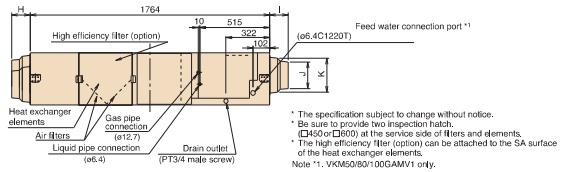
* Life of humidifying element is about 3 years (4,000 hours) under the supply water conditions of hardness: 150 mg/l. (Life of humidifying element is about 1 year (1,500 hours) under the supply water conditions of hardness: 400 mg/l.)
Annual operating hours: 10 hours/day x 26 days/month x 5 months =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

Dimensions

VKM50/80/100GA(M)V1



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



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

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

Options

Item		Type	VKM50/80/100GA(M)V1
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 / FXCQ-M / FXKQ-MA / FXDQ-PB FXDQ-NB / FXSQ-P / FXMQ-P / FXMQ-MA / FXUQ-A / FXHQ-MA / FXAQ-P / FXLQ-MA FXNQ-MA / FXVQ-N / FXBQ-P FXBPQ-P
			KRP1C93★ / KRP1BA57★ / KRP1B61★ / KRP1B61 / KRP1B56★ / KRP1C64★ / KRP1B61 / KRP1C67 / KRP1BA54 / — / KRP1B61 / KRP1C67 / KRP1B61
		Installation box for adaptor PCB☆	Notes 2, 3 KRP1H98A / Note 4, 6 KRP1BA101 / Notes 2, 3 KRP1B96 / — / Notes 4, 6 KRP1BA101 / Notes 2, 3 KRP4A98 / Notes 2, 3 KRP4A96 / — / — / Note 3 KRP1CA93 / Notes 2, 3 KRP4AA93 / — / — / —

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. *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

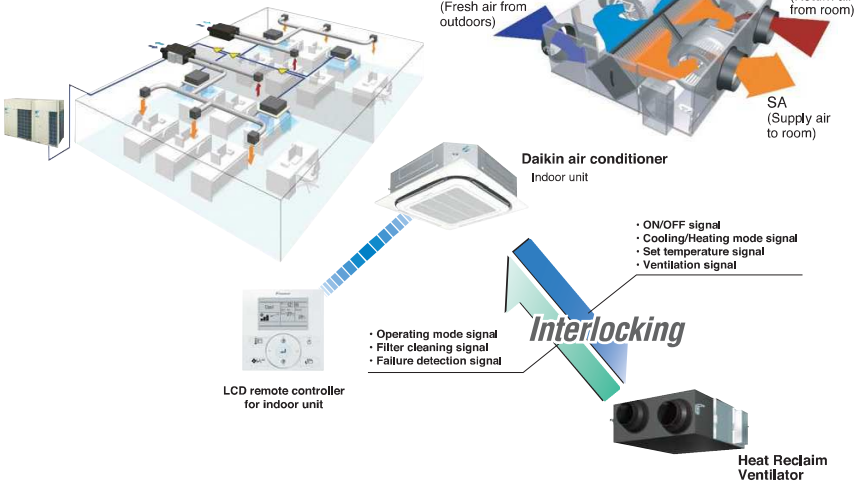
Heat Reclaim Ventilator remote controller*
BRC301B61 (Option)

* 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.

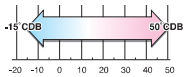
* For VAM500GJVE

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%

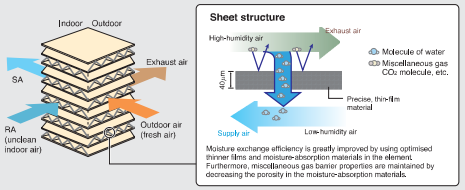
This unit recovers heat energy lost through ventilation and curbs room temperature changes caused by ventilation, thereby conserving energy and reducing the load on the air conditioning system.

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.

\+

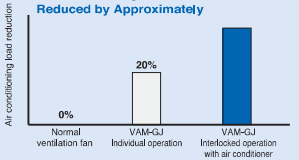
Pre-cool, Pre-heat Control — 2%

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 m²
  Personnel density: 0.25 person/m²
  Ventilation volume: 25 m³/h
  Indoor air conditioning level: summer 25°C 50% RH, intermediate seasons 24°C 50% RH, winter 22°C 40% RH
  Operating time: 2745 hours (9 hours per day, approx. 25 days per month)
  Calculation method: simulation based on "MICRO-HASP/1982" of the Japan Building Mechanical and Electrical Engineers Association.

Air Conditioning Load Reduced by Approximately 31%



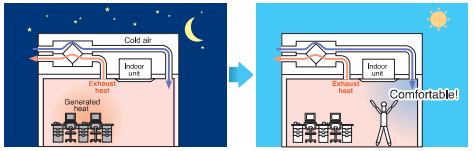
Nighttime free cooling operation.*1

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

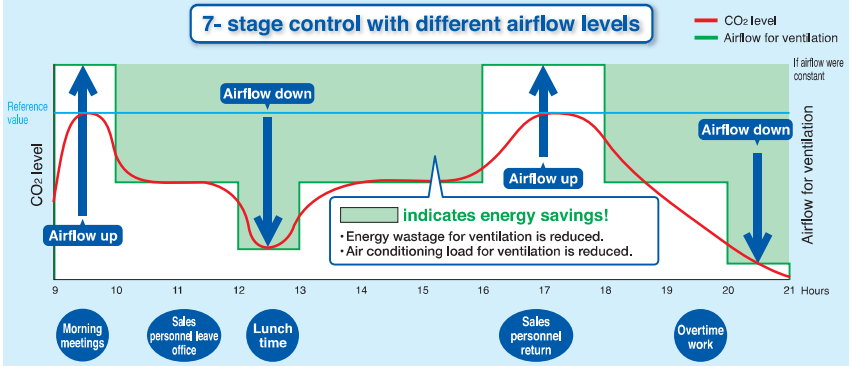
*1. This function can be operated only when interlocked with air conditioners.
*2. Value is based on the following conditions:
- Cooling operation performed from April to October.
- Calculated for air conditioning sensible heat load only (latent heat load not included).

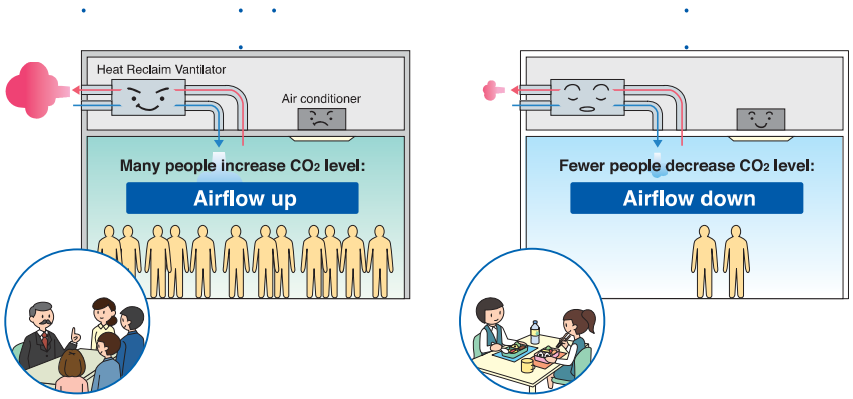
Heat Reclaim Ventilator — VAM series

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:



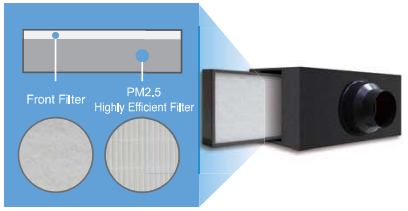


Heat Reclaim Ventilator — PM2.5 filtration unit (Option)

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

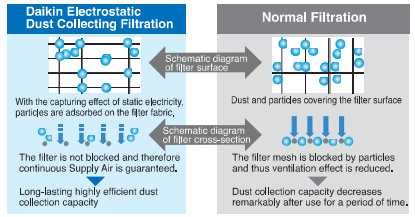
Double-layered efficient filtration

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



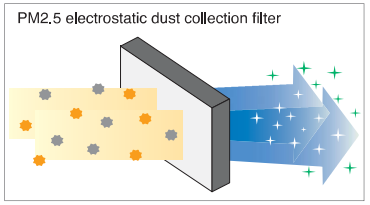
Electrostatic dust collection filter: more efficient and longer lasting effect

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

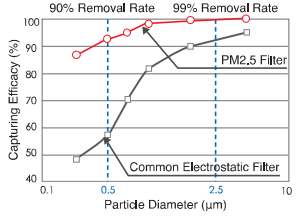


Filtering PM2.5 efficiently for healthier and more comfortable environments

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



*Test results by the Heating, Ventilation and Air Conditioning Lab at Tongji University
Test environment: temperature 25-26°CDB, humidity 58-60%RH



Extra-High Performance Filter Against Sulfur Oxides and Nitrogen Oxides

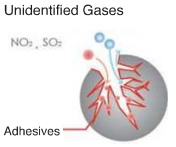
Effective Use of Active Carbon Material to Enlarge the Adsorption Area

As an expert in the research and development of filters, DAIKIN has specifically selected active carbon material as the main substance to constitute the filter against sulfur oxides and nitrogen oxides. The material's usable pore surface is fully exploited, thus extending the filter's durability.

Note: Surface area of active carbon: 700 m²/g
Given a newspaper page of 40,6 cm wide by 54,6 cm long, each gram of active carbon has a surface area of 3,000 newspaper pages.

Intelligent Identification, Super-effective Adhesion

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



Note: The figures are based on in-house tests under the following lab conditions: temperature 22 to 25°CDB, humidity 35 to 40% RH, air flow rate 0.2 m/s.

Specifications

Heat Reclaim Ventilator — VAM series

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 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	387X1,111×832	387X1,111×1,214	785X1,619×832	785X1,619X1,214
Machine Weigh			kg	24		32		45	55	67	129	157
Heat Exchange System				Air to air cross flow total heat (Sensible heat +latent heat) exchange								
Heat Exchange Element Material				Specially processed nonflammable paper								
Air Filter				Multidirectional fibrous fleeces								
Fan	Type			Sirocco fan								
	Airflow Rate (50/60 Hz)	Ultra-High	m³/h	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000
		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								

Note:
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 500m³/h) to approximately 11 dB(A) (models with the airflow rate of 650m³/h or more) greater than the indicated value. Furthermore, fan rotation and noise from the discharge grille may increase depending on the on-site duct resistance conditions. Please consider noise countermeasures when installing the unit.
10. With large models in particular (1500 and 2000m³/h models), if the supply air (SA) grille is installed near the main unit, the noise of the main unit may be heard from the discharge grille via the duct, and this will result in a marked increase in noise. In such cases, if peripheral effects are included (such as reverberation of the floor and walls, combination with other equipment, and background noise), sound level may be as much as 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.)

PM2.5 Filtration Unit

Models			BAF249A150	BAF249A300	BAF249A350	BAF249A500
Heat Reclaim Ventilator Models			VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE
Dimensions (H x W x D)		mm	220×603×366	220×603×366	300×623×366	300×623×366
Connection Duct Diameter		mm	ϕ100	ϕ150	ϕ150	ϕ200
Airflow Rate		m³/h	150	250	350	500
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42
	Filter Lifetime [1]		1 year			
	Filtration Efficiency [2]		99% or higher			
	Filter Material No. [3]		BAF244A300		BAF244A500	

Note:
1. Annual usage: 400 hrs/month x 12 months = 4,800 hrs
2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more; 90% or higher removal rate of ultra-fine particles with diameters of 0.5 μm.
3. Filters come with applicable filtration units with a one-year life. They can be purchased and replaced according to their model numbers.

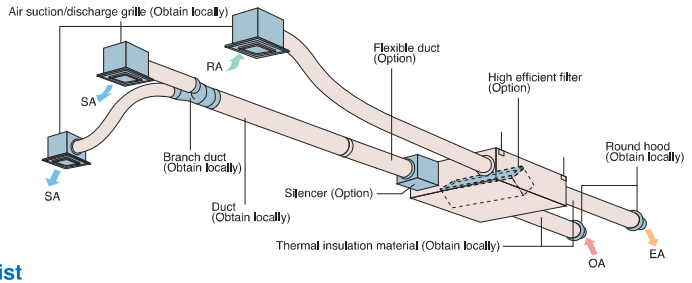
PM2.5 with Activated Carbon Filtration Unit

Models			BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C
Heat Reclaim Ventilator Models			VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE
Dimensions (H x W x D)		mm	220×603×366	220×603×366	300×623×366	300×623×366
Connection Duct Diameter		mm	ϕ100	ϕ150	ϕ150	ϕ200
Airflow Rate		m³/h	150	250	350	500
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42
	Filter Lifetime [1]		1 year			
	Filtration Efficiency [2]		99% or higher			
	Filter Material No. [3]		BAF244A300		BAF244A500	
Activated Carbon Filter	Initial Pressure Drop	Pa	3	5	5	9
	Filter Lifetime		1 year			
	Filter Material No. [3]		BAF244A300C		BAF244A500C	
Total Initial Pressure Drop for PM2.5 with Activated Carbon Filtration Unit		Pa	37	35	36	51

Note:
1. Annual usage: 400 hrs / month x 12 months = 4,800 hrs.
2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more; 90% or higher removal rate of ultra-fine particles with diameters of 0.5 μm.
3. Filters come with applicable filtration units with a one-year life. They can be purchased and replaced according to their model numbers.

Air Handling Unit

Options



Option List

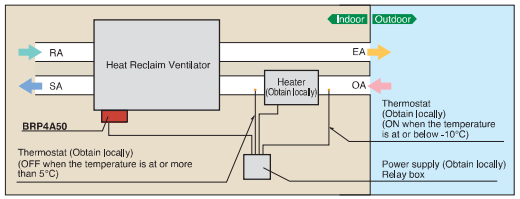
Item			Type	VAM150 · 250 · 350 · 500 · 650 · 800 · 1000 · 1500 · 2000GJVE												
Controlling device	Heat Reclaim Ventilator remote controller			BRC301B61												
	Centralised controlling device	Residential central remote controller		DCS303A51 *1												
		Central remote controller		DCS302CA61												
		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	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB	FXSQ-P	FXMQ-P	FXMQ-MA	FXUQ-A	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXVQ-N	FXBQ-P FXBPQ-P
				KRP1C63★	KRP1BA57★	KRP1B61★	KRP1B61	KRP1B56★	KRP1C64★	KRP1B61	KRP1C67	KRP1BA54	–	KRP1B61	KRP1C67	KRP1B61
		Installation box for adaptor PCB☆		Notes 2, 3 KRP1H98A	Note 4, 6 KRP1BA101	Notes 2, 3 KRP1B96	–	Notes 4, 6 KRP1BA101	Notes 2, 3 KRP4A96	Notes 2, 3 KRP4A96	–	–	Note 3 KRP1CA93	Notes 2, 3 KRP4AA93	–	–	–

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. *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.



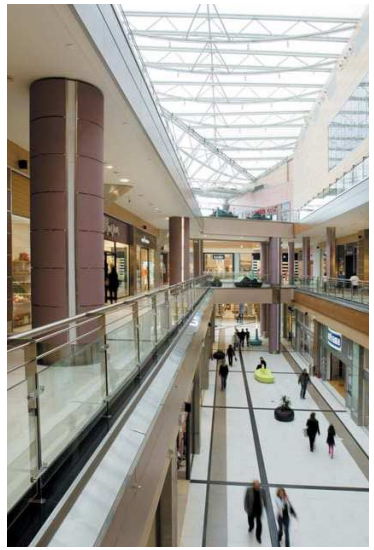
Notes when installing

- 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.

Air Handling Unit

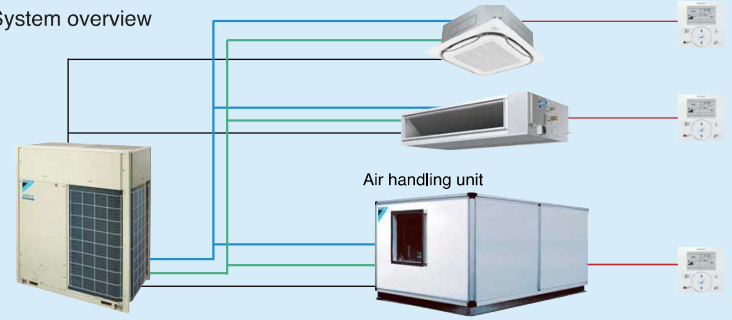
Integrate your air handling unit in a total solution for large size spaces such as factories and large stores.

AHUR
Capacity range : 8 – 120 HP



- Easy design and installation
  - The system is easy to design and install since no additional water systems such as boilers, tanks and gas connections etc are required.
- Inverter controlled units
- Control of air temperature via standard Daikin wired remote control for standard series

System overview



Daikin communication wire (F1, F2 communication)
Other communication wire
Liquid pipe
Gas pipe

Daikin air handling units can be connected to *VRV* IV systems.
This combination can be built to order as a system. Outdoor air series is also possible. Please contact your local sales office for details.