



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.

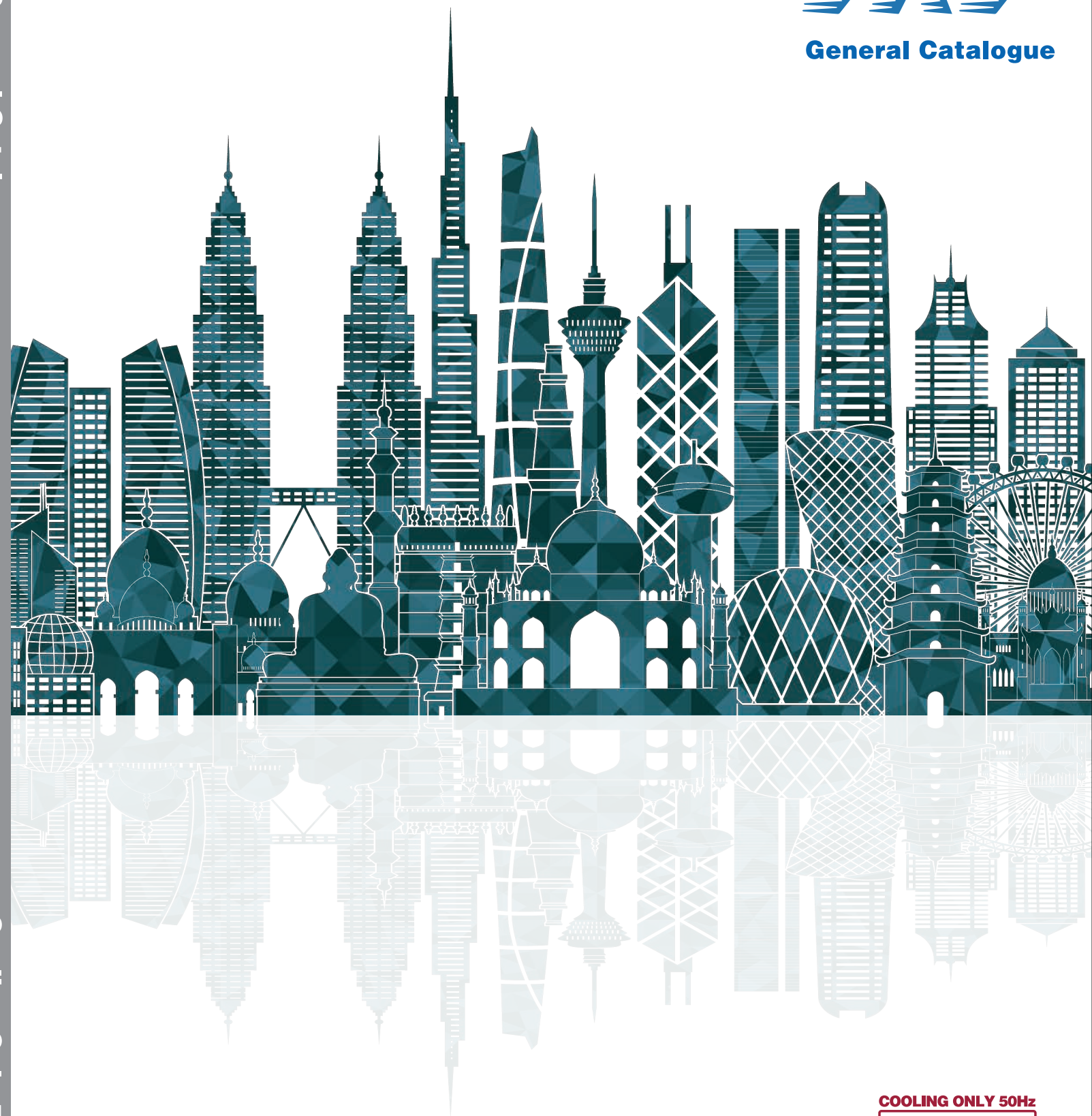
Cautions on product corrosion

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.



APCVDT1613

VRF
General Catalogue



COOLING ONLY 50Hz

R-410A

The 1st Generation

VRF series released in 1982

<The birth of innovative products that changed the history of air conditioning technology>



Conceptual diagram of a multi air conditioner for buildings



- 2.5 years development term
- Completion of development in May, 1982
- Technical award of Japan Society of Refrigerating & Air-conditioning Engineers in 1983

VRV II-S series



VRV II M series

Adopted the new R-410A refrigerant



VRV K Plus series



VRV G series

-Heat pump-



VRV H series

Made possible to connect to BMS using the DIII-NET



VRV L series

Adopted the new R-407C refrigerant



VRV KA series



VRV K series



VRV G series

-Heat recovery-



VRV F series

-Cooling only-



VRV C series

-Cooling only-



'82

'84

'88

'90

'92

'95

'96

'99

'00

'02

'04

'05

'06

'07

'08

'10

'11

'12

'14

'15

'16



VRV II MA series



VRV III-C series

-Low outdoor temp. area use-



VRV III-Q series

-Replacement use-



VRV-WIII series



VRV Multi function series

-Cooling/heating, hot water supply-



VRV IV

-Heat recovery-



VRV IV Q series

-Replacement use-



VRV IV S series



VRV IV W series

-Water Cooled system-



VRV IV Heat Recovery Hot Water System



VRV IV

-Cooling only / Heat pump-



VRV III Connection to residential indoor unit series



VRV III-S series



VRV III series



VRV-WII series

Development history

To meet the needs of the times, we've continued to develop technology continuously as the leading air conditioning manufacturer in the world.



Expansion of the country of sale

Sales is undergoing in more than 70 countries

Europe

- Italy
France
Germany
Spain
Russia
UK
- Austria
Belgium
Bulgaria
Croatia
Cyprus
Czech
- Lithuania
Macedonia
Netherlands
Poland
Portugal
Finland
- Greece
Hungary
Ireland
Romania
Serbia
Slovakia
- Sweden
Switzerland
Turkey
Ukraine
...

Middle East

- UAE
Saudi Arabia
Bahrain
Jordan
Oman
Qatar
...

Asia

- India
Vietnam
Thailand
Indonesia
Malaysia
Singapore
- Cambodia
Myanmar
Philippine
Maldives
Nepal
Seychelles
Sri Lanka
...

Asia

- Japan
China
...
- Korea
Taiwan
...

Oceania

- Australia
Fiji
New Caledonia
New Zealand
Tahiti
...

North America

- USA
Mexico
- Canada
Puerto Rico
...

South America

- Brazil
Argentina
Chile
Panama
Peru
...

The influence of VRV - Central system market in Japan



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Wide variety of series models to supply total air solutions

From home to large buildings, and from newly constructed to renovated buildings, *VRV* meets a wide range of air conditioning needs and supplies total air solutions.

VRV IV

P.09

Cooling Only



RXQ-TA

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																												

Achieves excellent performance to meet the needs in various buildings


Next generation *VRV* IV series offers better energy savings, comfort, and ease of installation to meet an ever wider variety of needs.

It also enables a mixed combination of stylish and quiet *VRV* indoor units and residential indoor units in one system.

VRV IV S SERIES

P.33

Cooling Only



RXMQ-A

Lineup

HP	4	5	6	8	9
Cooling Only					


Especially designed for residential, small offices and shops

VRV IV S series aims to provide sufficient capacity, along with the compact size required by residential, small offices and shops. Outdoor units are designed to be slim and space saving, and offer 5 models to suit your needs.

VRV IV Q SERIES

P.43

Cooling Only



New

RQQ-T

Lineup

HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Standard Type																						
Space Saving Type																						

For quick & high quality replacement use


VRV III-Q series, a replacement *VRV* unit, can be installed using existing refrigerant piping, so renovation of the air conditioning system can be carried out quickly and smoothly.

This minimises inconveniences to activities and users in the building.

VRV IV W SERIES

P.65

Cooling Only



New

RWEYQ-T

Lineup

HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Cooling Only																

Water cooled system suitable for tall multi-storied buildings


Water cooled *VRV* III series utilises water as a heat source. The temperature of heat source water can be from 10°C to 45°C, and outdoor air temperature does not affect heating capacity.

The outside unit is compact and saves space in the machine room.

VRV IV HEAT RECOVERY HOT WATER SYSTEM

P.87

Cooling Only



RWHQ-T

HWHQ30A

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																												























Comfortable air conditioning and energy-efficient hot water heating

This energy-efficient, multifunction system recovers waste heat generated by air conditioning, as energy to heat hot water. It is suitable for different business applications and provides flexible combination of *VRV* IV indoor units achieving comfort and aesthetic.








Wide range indoor unit lineup creating

various comfortable airflow

VRV indoor units

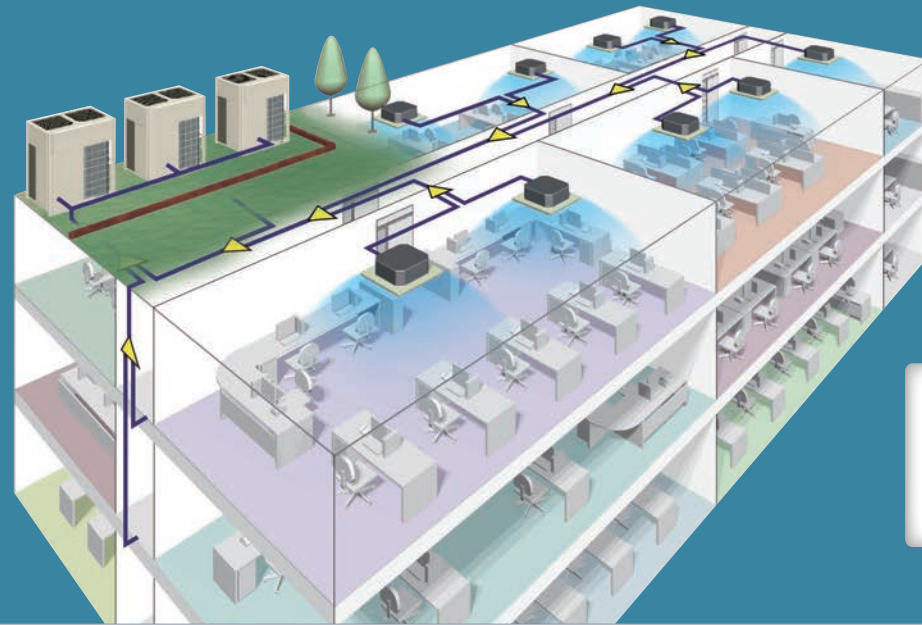
Type	Model Name	Capacity Range	20	25	32	40	50	63	71	80	100	125	140	200	250	400	500
		0.8HP	1HP	1.25HP	1.6HP	2HP	2.5HP	3HP	3.2HP	4HP	5HP	6HP	8HP	10HP	16HP	20HP	
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	500
Ceiling Mounted Cassette(Round Flow with Sensing)	FXFQ-SVM			●	●	●	●	●		●	●	●					
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)	FXDQ-SPV1		●	●	●	●	●	●									
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE		●	●	●	●	●	●		●	●	●	●				
Ceiling Mounted Duct	FXMQ-PVE		●	●	●	●	●	●		●	●	●	●				
	FXMQ-MAVE													●	●		
Outdoor-Air Processing Unit	FXMQ-MFV1											●		●	●		
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	FXVQ-NY1	 (high static pressure type)										●		●	●	●	●
	FXVQ-NY16																●
Clean Room Air Conditioner	FXBQ-PVE					●	●	●									
	FXBPQ-PVE							●									
Air Handling Unit	AHUR												6 - 120 HP				
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Airflow rate 500-1000 m³/h														
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h														

Residential indoor units with connection to BP units

Type	Model Name	Rated Capacity (kW)	25	35	50	60	71
			2.5	3.5	5.0	6.0	7.1
		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	FTKJ-NVMW		●	●	●		
	FTKJ-NVMS		●	●	●		
	FTKS-DVM		●	●			
	FTKS-BVMA				●		
	FTKS-FVM				●	●	●

Note: For indoor units connectability, please refer to the indoor unit product lineups under individual outdoor unit series.





RXQ-TA

Cooling Only

6 HP - 60 HP
(16 kW) (168 kW)

Enhanced Lineup to 3 types

High-COP Type



20 HP
(54.4 kW)

- Enables further energy saving
- 12 HP(32 kW)-50 HP(140 kW) with 4 new models lineup

Standard Type



20 HP
(55.9 kW)

- Offers higher capacity of up to 60 HP
- 6 HP(16 kW)-60 HP(168 kW) with 3 new models lineup

Space Saving Type



20 HP
(56 kW)

- New series with compact & lightweight design
- 18 HP(50 kW)-50 HP(140 kW) with 17 new models lineup

	VRV III	VRV IV
COP during cooling operation	3.94	4.39
Installation Space	1.66 m ²	2.13 m ²
Product Weight	490 kg	555 kg

	VRV III	VRV IV
COP during cooling operation	3.94	3.99
Installation Space	1.66 m ²	1.42 m ²
Product Weight	490 kg	380 kg

	VRV III	VRV IV
COP during cooling operation	3.94	3.11
Installation Space	1.66 m ²	0.95 m ²
Product Weight	490 kg	320 kg

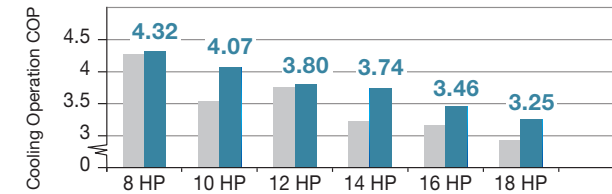
Lineup

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

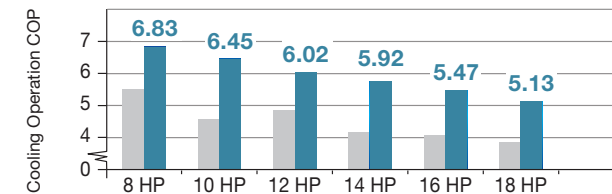
Energy saving

Higher Coefficient of Performance (COP)

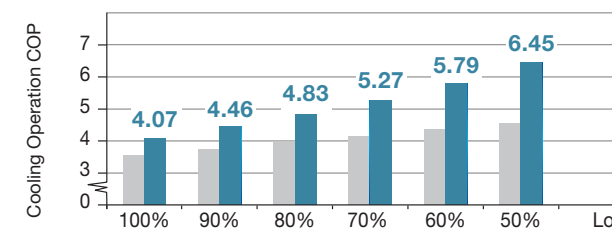
COP at 100% operation load



COP at 50% operation load



COP for 10 HP



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

Comfort

Lower operation sound

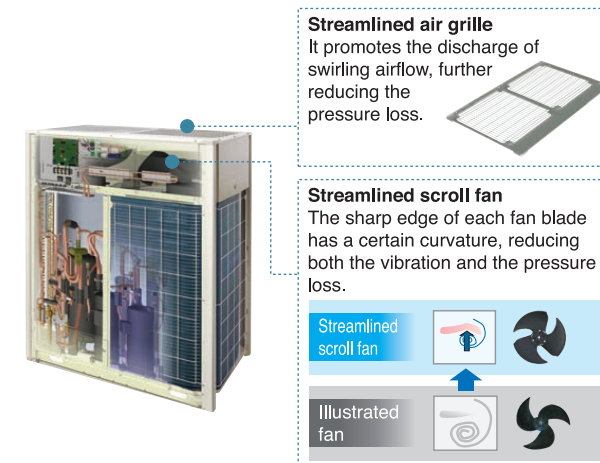
Improves heat exchanger efficiency, helps to reduce operation sound.

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

1~2 dB(A) less 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.



Ease of installation

Compact & lightweight design

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



VRV III 12 HP(33.5 kW)

VRV IV 12 HP(33.5 kW)

VRV III 12 HP (33.5 kW)

VRV IV 12 HP (33.5 kW)

Installation Space
0.95 m²

Installation Space
0.71 m²

25% Decrease

Product Weight
285 kg

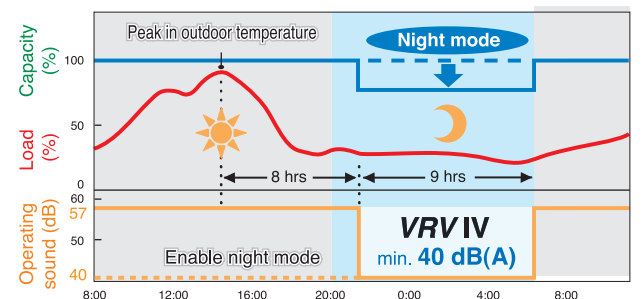
Product Weight
195 kg

32% Decrease

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 the night mode 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.



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

Realising compact technology with performance



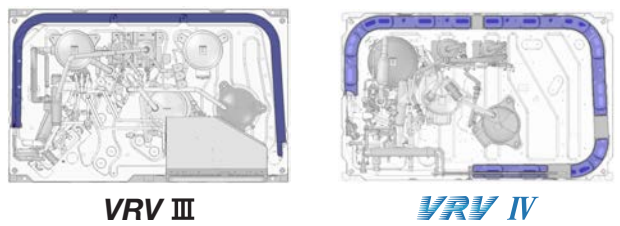
As a leading global innovator, Daikin advanced from the conventional 2 module combination to a single module for 20 HP model. This allows the installation area to reduce by 43% as compared to the previous VRV III 20 HP model.

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.

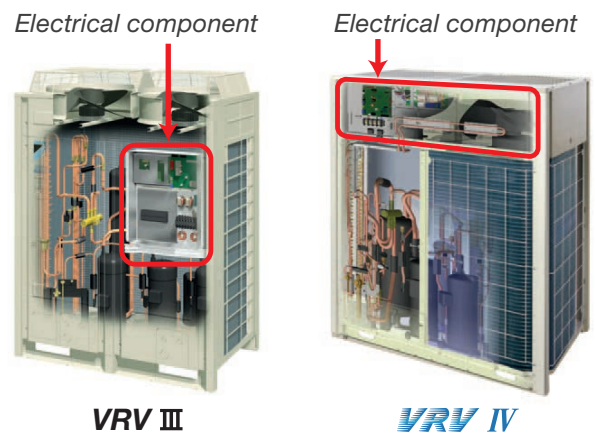


Easy maintenance

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.

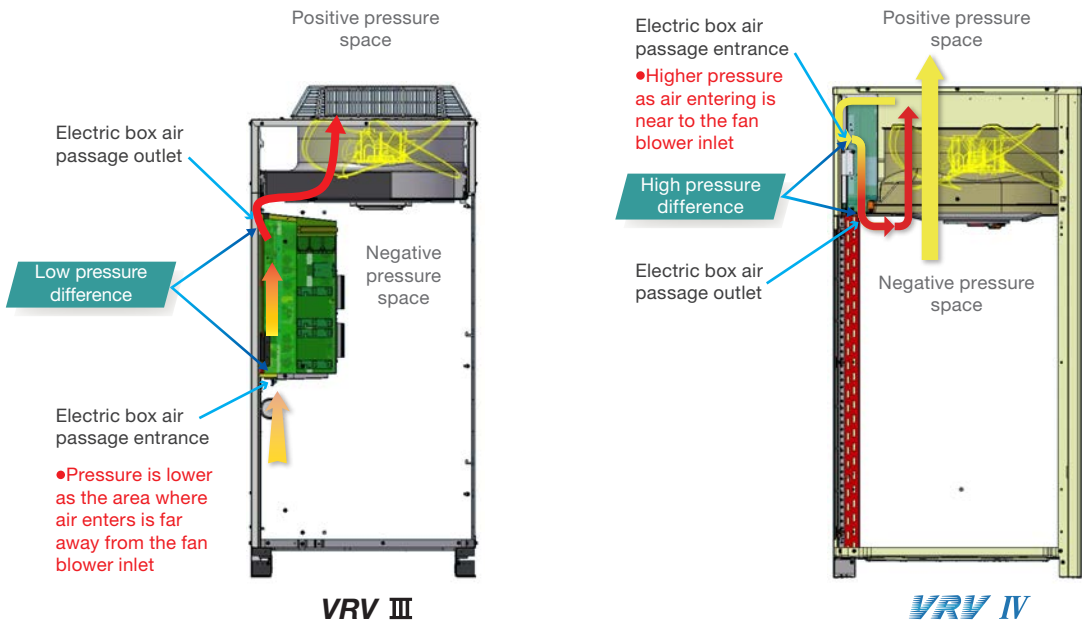
Moreover, the heat exchanger on the front side can be extended to take up the previous space used for the electrical component and improve its performance.



Sufficient cooling for electrical component

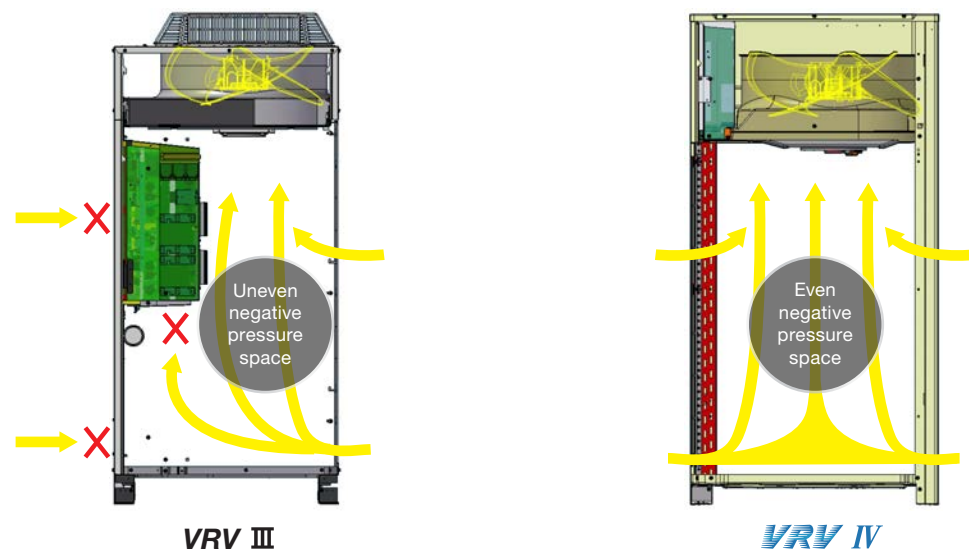
The new 20 HP model is designed with the electrical box strategically located between a region of positive and negative pressure. This design allows a larger air flow from negative pressure to positive pressure due to the higher pressure difference.

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.



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.



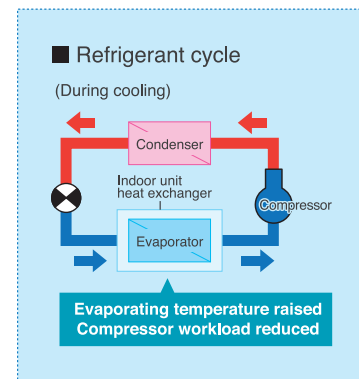
State-of-the-art energy saving technology for VRV system Customise your VRV system for optimal annual efficiency

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

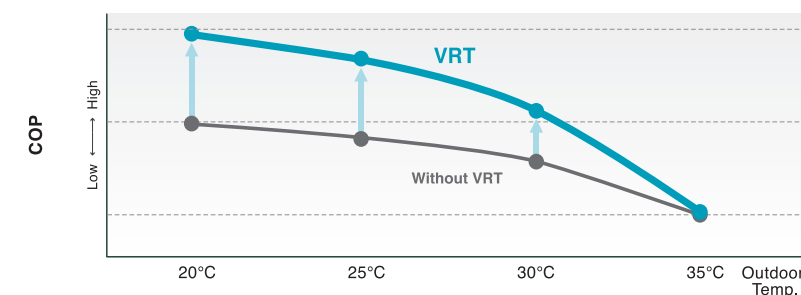
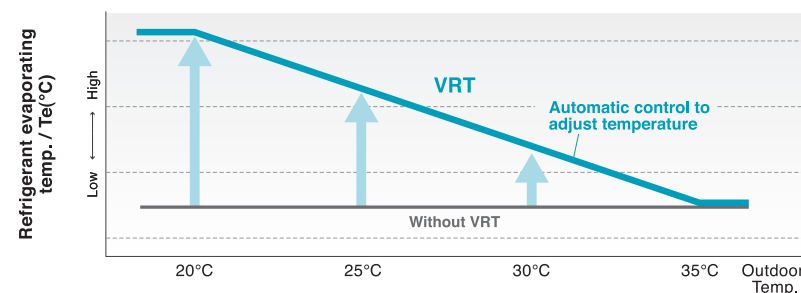
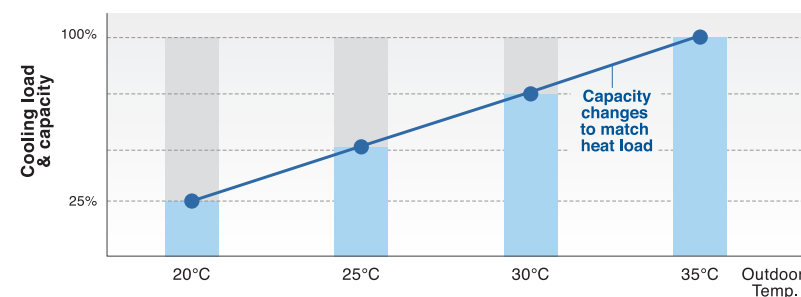


How is energy reduced?

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



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



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

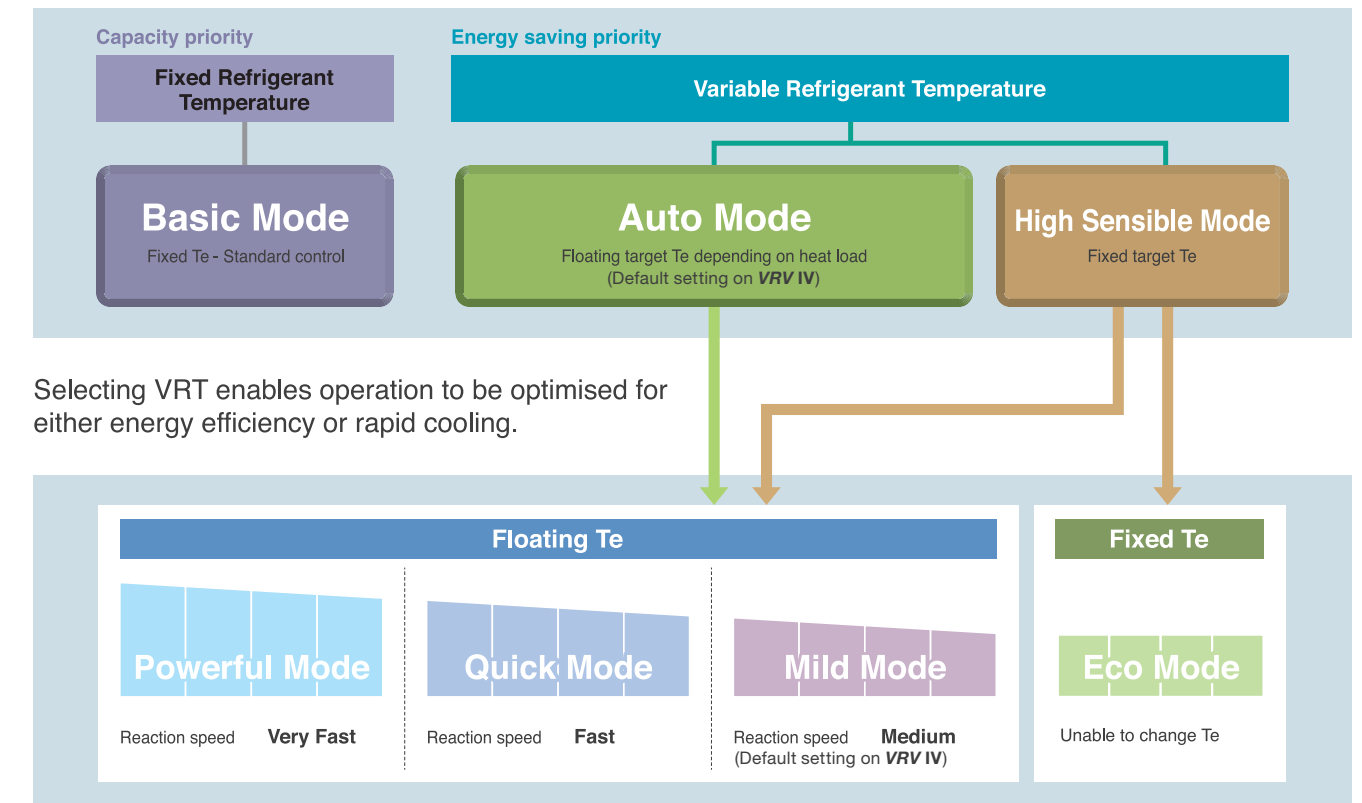
In case of fixed evaporating temperature, excessive cooling, thermo on-off loss, and other inefficiencies occur.

Automatic control adjusts evaporating temperature to heat load change.

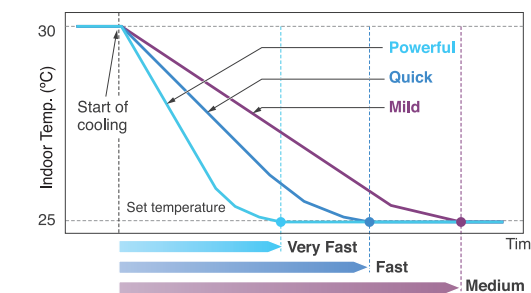
Energy efficiency is improved without sacrificing comfort.

New system, saving more energy

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



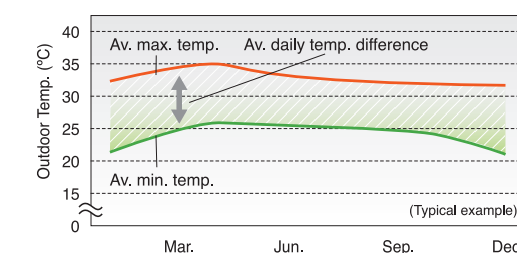
VRT offers quicker cool down to shorten uncomfortable pull down time.



Powerful mode	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Gives priority to fast reaction speed. The refrigerant temperature goes down fast to keep the room setpoint stable.
Mild mode	<ul style="list-style-type: none"> Gives priority to efficiency. The refrigerant temperature goes down gradually giving priority to the efficiency of the system instead of the reaction speed.

Recommended to use in these situations

Cooling only areas with different daily temperature.



VRT is particularly effective at night when temperatures are low.

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

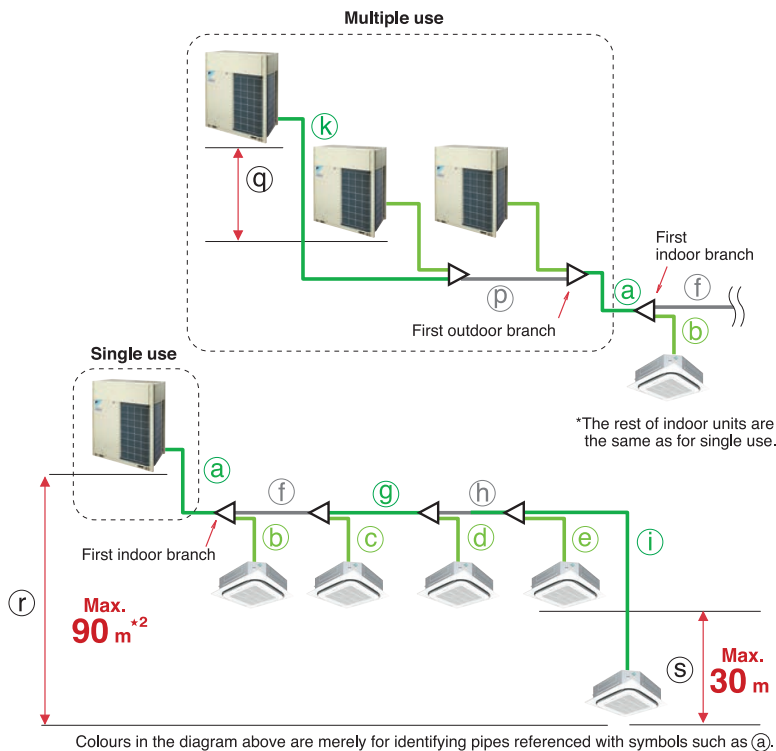
Max. actual piping length 165 m

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 If the outdoor unit is below. 90 m*2	r
			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%

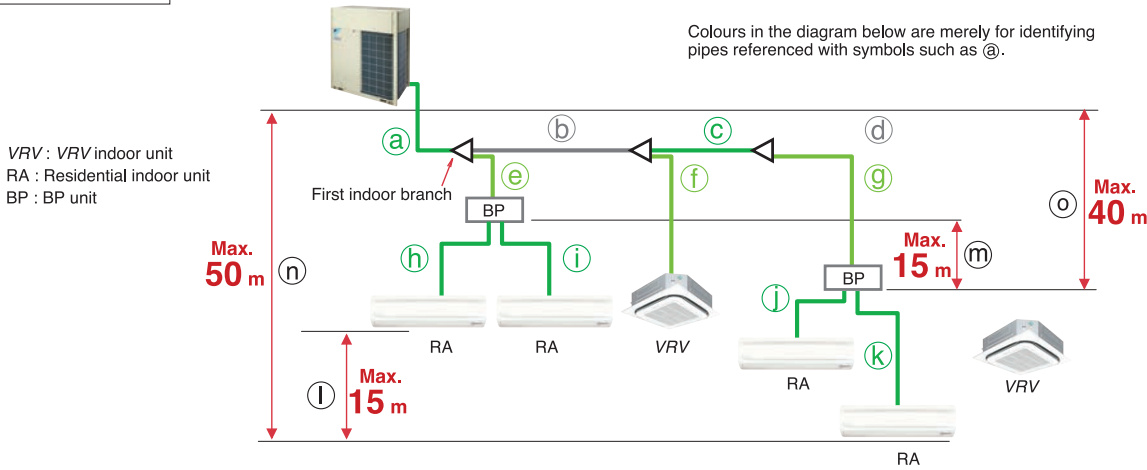
Connection ratio = $\frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$

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 23-24 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 If indoor unit capacity index is 60. 2 m—12 m If indoor unit capacity index is 71. 2 m—8 m	h, i, j, k
	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	
	Minimum allowable piping length	Between outdoor unit and the first indoor branch	5 m

		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 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 24 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 louver
- Outstanding heat dissipation effect in both hierarchical and intensive arrangement

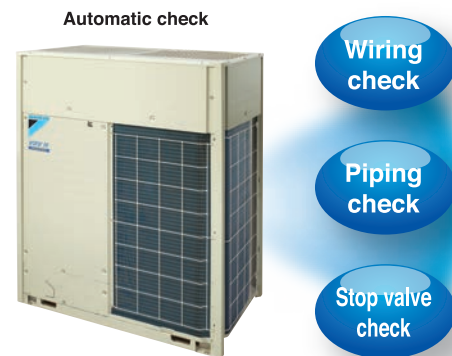


Multiple advanced features ensuring more accurate test operation and stable system

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.

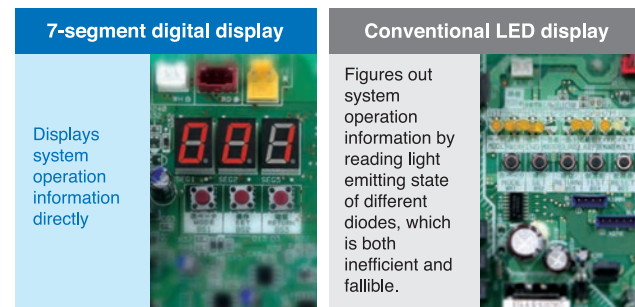
- Automatically checks the wirings between outdoor units and indoor units to confirm whether there is a defective wiring.
- Confirms and corrects the actual piping length.
- Automatically checks whether the stop valve in each outdoor unit is in normal status to ensure the smooth operation of air conditioning system.



Simplified commissioning and after-sales service

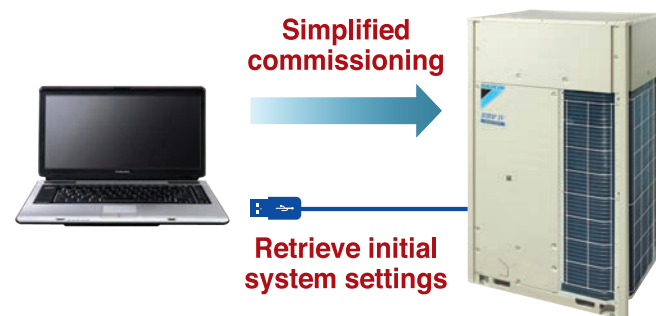
Function of information display by luminous digital tube

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



VRV configurator

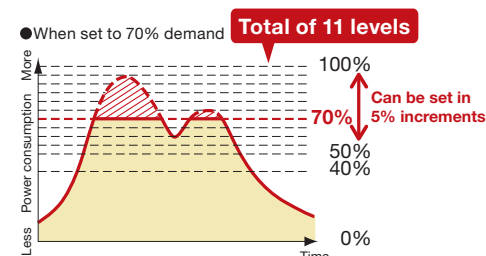
- The **VRV** configurator is an advanced software solution that allows for easy system configuration and commissioning.
- Less time is required on the roof for outdoor unit configuration.
- Multiple systems at different sites can be managed in the exact same way, thus offering simplified commissioning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



I-demand function

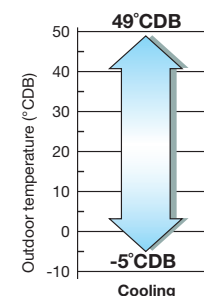
Limit to power consumption can be set precisely to one of 11 levels. Peak power cut-off can be accomplished according to each user situation.

*Set on the circuit board of the outdoor unit.



Wide operation temperature range

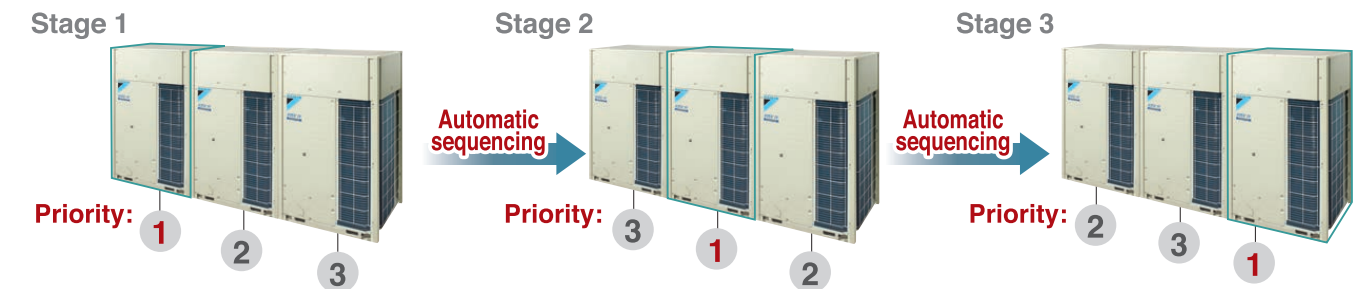
The versatile operation range of the **VRV IV** system works to reduce limitations on installation locations. The operation temperature range for cooling can be performed with outdoor temperatures as high as 49°C.



Outdoor unit sequencing technology

Automatic sequencing operation

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



Double backup operation functions responding resiliently to various unexpected situations

Double backup operation functions

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

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

Unit backup operation function

If malfunction occurs in an outdoor unit...

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



Compressor backup operation function

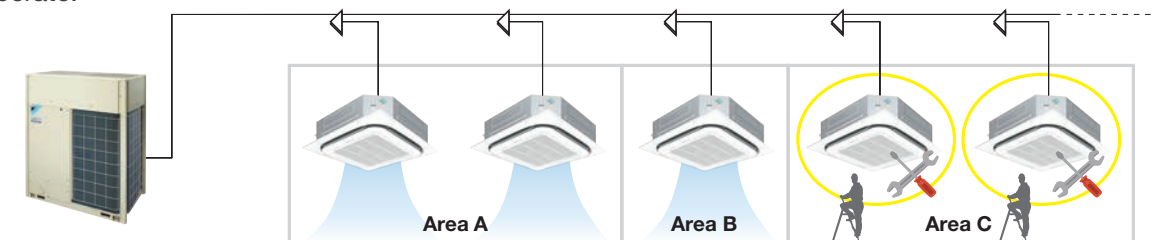
If malfunction occurs in a compressor...

Emergency operation can be easily set and enabled by the outdoor unit (for a single outdoor unit system, RXQ14-20TAYM models).



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.



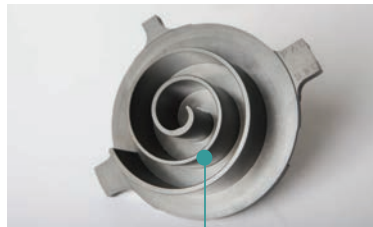
* Field setting is required.
This feature does not apply to BP unit connection.
For more information, please contact Daikin sales office.

Large capacity all DC inverter compressor in compact casing

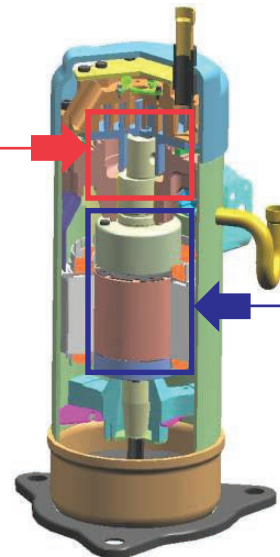
Large capacity all DC inverter compressor using high tension strength material, resulting in 12 HP (33.5 kW) compressor using 8 HP (22.4 kW) casing.

Development of high strength material

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

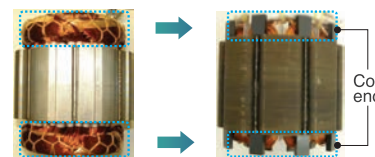


As a result of having thinned a wall - thickness of the scroll, compression chamber volume increase 50%



Small type high efficiency concentrated winding motor

Distributed winding motor (Current 8 HP (22.4 kW) compressor)
Concentrated winding motor (New 12 HP (33.5 kW) compressor)



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

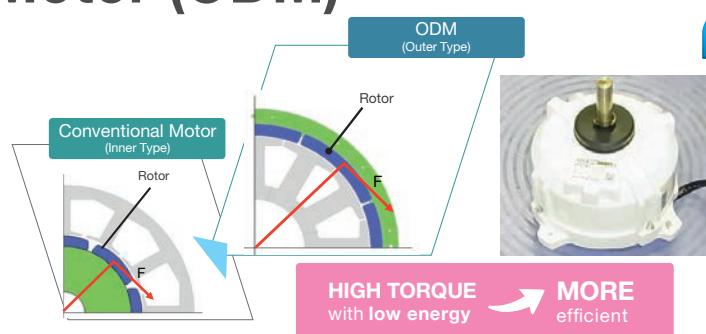
Improve motor efficiency in low rpm range (improve intermediate efficiency).

Outer Rotor DC Motor (ODM)

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

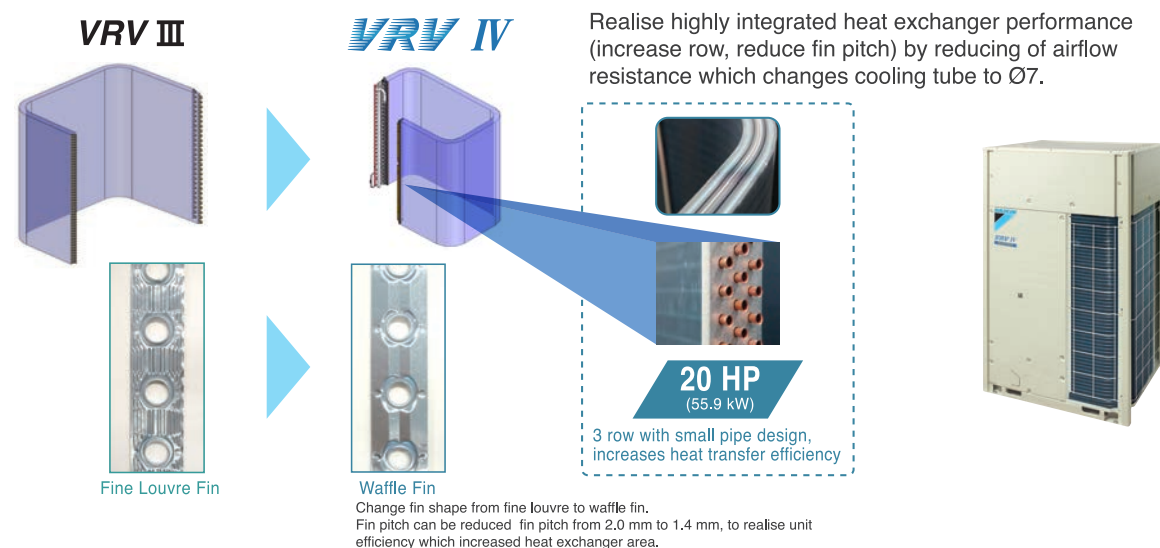
Advantages of ODM

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.

20 HP
(55.9 kW)

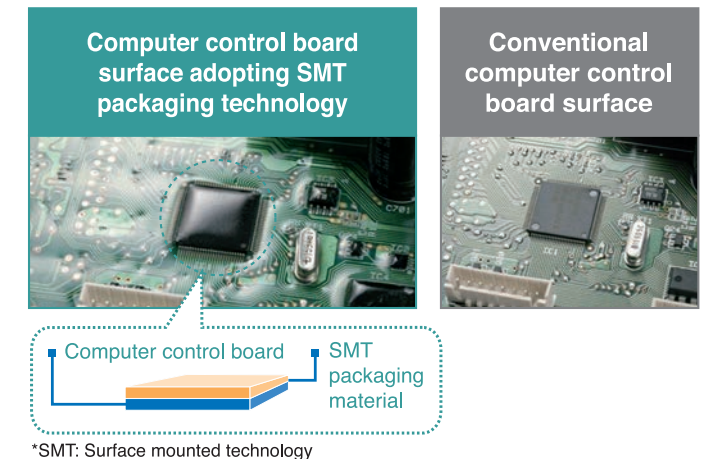
3 row with small pipe design, increases heat transfer efficiency

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

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.

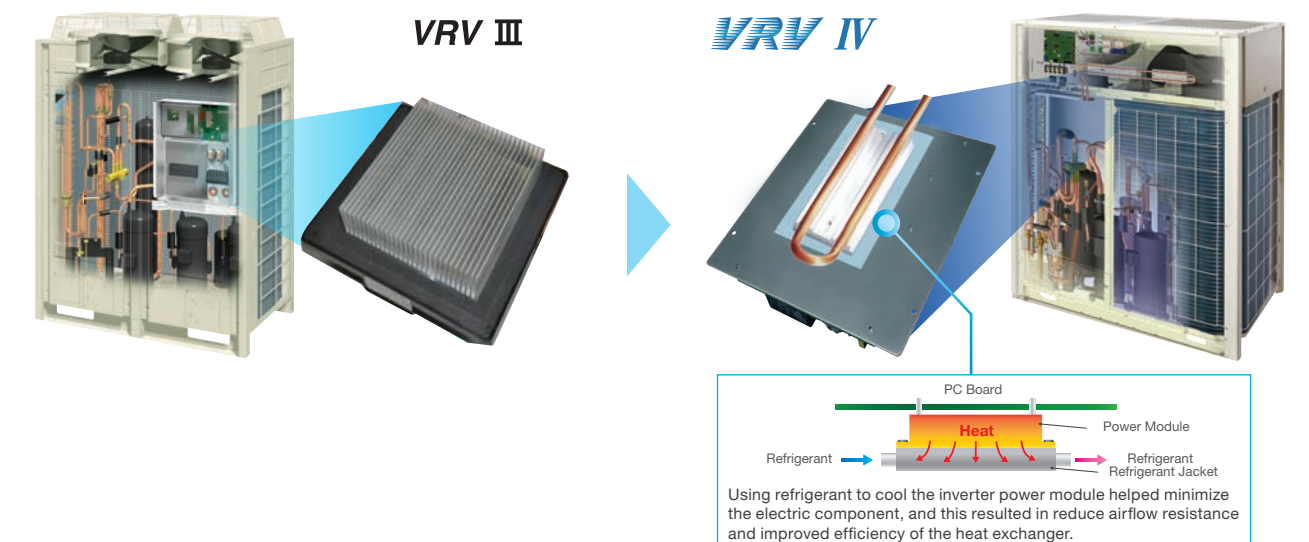
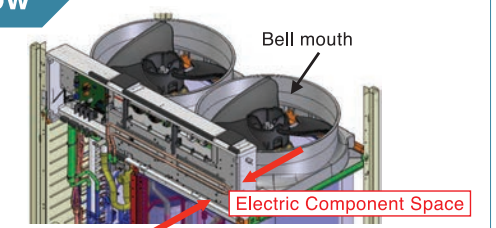


*SMT: Surface mounted technology

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.



PC Board
Power Module
Refrigerant
Refrigerant Jacket
Heat
Using refrigerant to cool the inverter power module helped minimize the electric component, and this resulted in reduce airflow resistance and improved efficiency of the heat exchanger.

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 rate.

Outdoor Units

The outdoor unit capacity is up to 60 HP (168 kW) 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) RXQ50TAHYM(E)
RXQ46TAHYM(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



RXQ18TASYM(E)
RXQ20TASYM(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)

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	RXQ6TA x 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		225 to 585 (585)	29 (29)
20	500	RXQ20TAH	RXQ6TA x 2 + RXQ8TA	BHFP22P151	250 to 650 (650)	32 (32)
22	550	RXQ22TAH	RXQ6TA + RXQ8TA x 2		275 to 715 (715)	35 (35)
24	600	RXQ24TAH	RXQ8TA x 3		300 to 780 (780)	39 (39)
26	650	RXQ26TAH	RXQ8TA x 2 + RXQ10TA		325 to 845 (845)	42 (42)
28	700	RXQ28TAH	RXQ8TA x 2 + RXQ12TA		350 to 910 (910)	45 (45)
30	750	RXQ30TAH	RXQ8TA + RXQ10TA + RXQ12TA		375 to 975 (975)	48 (48)
32	800	RXQ32TAH	RXQ8TA + RXQ12TA x 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	RXQ12TA x 2 + RXQ14TA		475 to 1,235 (1,235)	61 (61)
40	1,000	RXQ40TAH	RXQ12TA + RXQ14TA x 2		500 to 1,300 (1,300)	64 (64)
42	1,050	RXQ42TAH	RXQ14TA x 3		525 to 1,365 (1,365)	
44	1,100	RXQ44TAH	RXQ14TA x 2 + RXQ16TA		550 to 1,430 (1,430)	
46	1,150	RXQ46TAH	RXQ14TA + RXQ16TA x 2		575 to 1,495 (1,495)	
48	1,200	RXQ48TAH	RXQ16TA x 3		600 to 1,560 (1,560)	
50	1,250	RXQ50TAH	RXQ16TA x 2 + RXQ18TA		625 to 1,625 (1,625)	

Notes: *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 15 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	BHFP22P151	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		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)	

Notes: *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 15 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	BHFP22P151	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		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)	

Notes: *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 15 for notes on connection capacity of indoor units.

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























Model name ^{*1}	kW	HP	Capacity index	Total capacity index of connectable indoor units ^{*2}			Maximum number of connectable indoor units
				Combination (%) ^{*2}			
				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

Notes: *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.








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

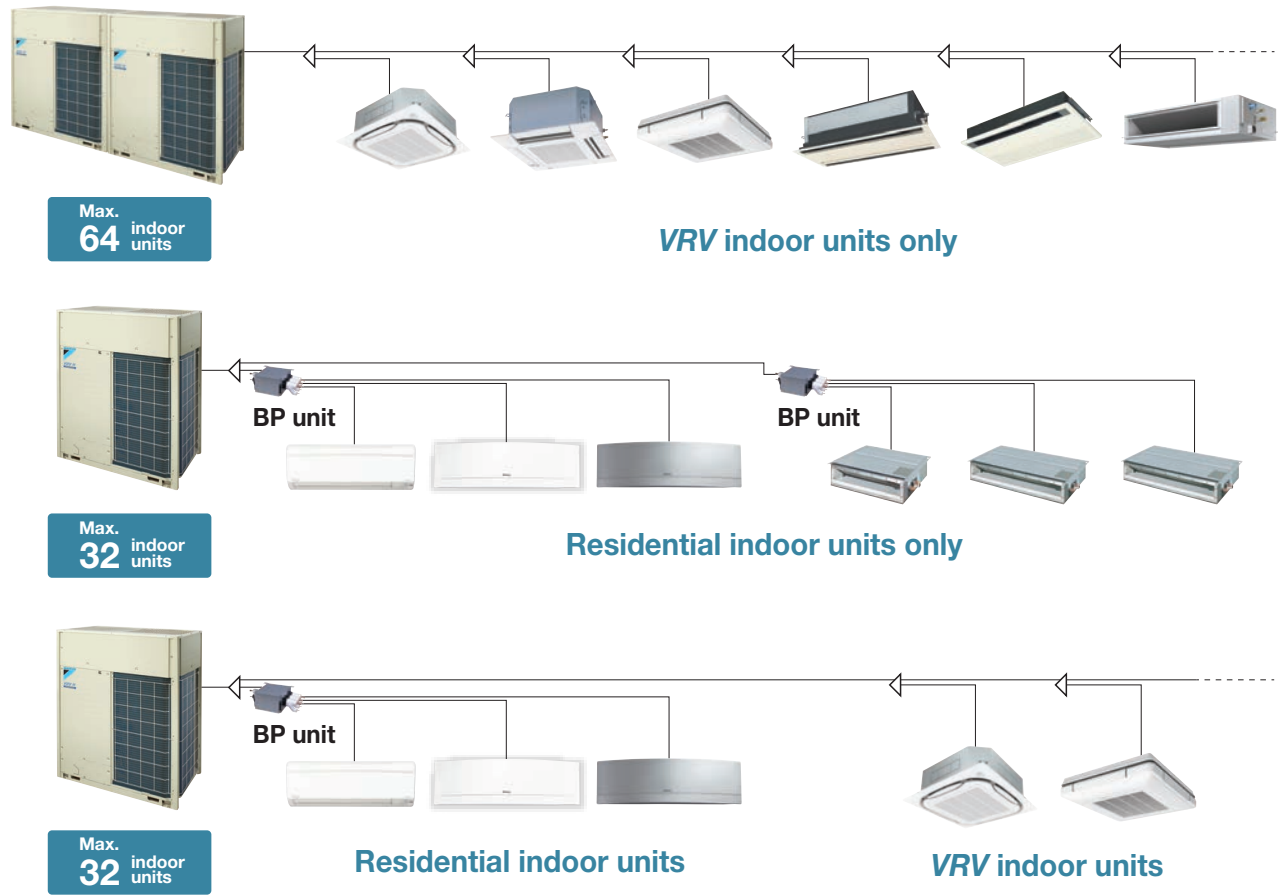
Type	Model Name	Capacity Range	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	500
Ceiling Mounted Cassette(Round Flow with Sensing)	FXFQ-SVM																
Ceiling Mounted Cassette (Round 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)	FXDQ-SPV1																
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE																
Ceiling Mounted Duct	FXMQ-PVE																
	FXMQ-MAVE																
Outdoor-Air Processing Unit	FXMQ-MFV1																
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	FXVQ-NY1	 (high static pressure type)															
	FXVQ-NY16																
Clean Room Air Conditioner	FXBQ-PVE																
	FXBPQ-PVE																
Air Handling Unit	AHUR		6-120 HP														
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Airflow rate 500-1000 m³/h														
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h														

Residential indoor units with connection to BP units

Type	Model Name	Rated Capacity (kW)	25	35	50	60	71
			2.5	3.5	5.0	6.0	7.1
Slim Ceiling Mounted Duct	FDKS-EAVMB	 (700 mm width type)	●	●			
	FDKS-C(A)VMB	 (900/1,100 mm width type)	●	●	●	●	
Wall Mounted	FTKJ-NVMW		●	●	●		
	FTKJ-NVMS		●	●	●		
	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 residential indoor units, all in one system.



*Refer to page 23-24 for the maximum number of connectable indoor units.

VRV IV Outdoor Units Cooling Only RXQ-TA
High-COP Type

MODEL			RXQ12TAHYM(E)	RXQ14TAHYM(E)	RXQ16TAHYM(E)	RXQ18TAHYM(E)	RXQ20TAHYM(E)	RXQ22TAHYM(E)	RXQ24TAHYM(E)	
Combination units			RXQ6TAYM(E)	RXQ6TAYM(E)	RXQ8TAYM(E)	RXQ6TAYM(E)	RXQ6TAYM(E)	RXQ6TAYM(E)	RXQ8TAYM(E)	
			RXQ6TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ6TAYM(E)	RXQ6TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	
			—	—	—	RXQ6TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
Cooling capacity		kcal/h	27,500	33,000	38,500	41,300	46,800	52,300	57,800	
		Btu/h	109,000	131,000	153,000	164,000	186,000	207,000	229,000	
Power consumption		kW	32.0	38.4	44.8	48.0	54.4	60.8	67.2	
		kW	7.26	8.81	10.4	10.9	12.4	14.0	15.5	
Capacity control		%	10-100	10-100	10-100	7-100	7-100	7-100	7-100	
Casing colour			Ivory white (5Y7.5/1)							
Compressor		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)
			ℓ/s	1,983+1,983	1,983+2,616	2,616+2,616	1,983+1,983+1,983	1,983+1,983+2,616	1,983+2,616+2,616	2,616+2,616+2,616
Airflow rate		m³/min	119+119	119+157	157+157	119+119+119	119+119+157	119+157+157	157+157+157	
Dimensions (HxWxD)		mm	(1,657×930×765)+(1,657×930×765)			(1,657×930×765)+(1,657×930×765)+(1,657×930×765)				
Machine weight		kg	185+185	185+185	185+185	185+185+185	185+185+185	185+185+185	185+185+185	
Sound level		dB(A)	58	59	59	60	60	60	61	
Operation range		Cooling	°CDB	-5 to 49						
Refrigerant		Type	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
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)
		Gas	mm	φ28.6(Brazing)	φ28.6(Brazing)	φ28.6(Brazing)	φ28.6(Brazing)	φ28.6(Brazing)	φ28.6(Brazing)	φ34.9(Brazing)

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, 380-415 V/380 V, 50/60 Hz				
Cooling capacity		kcal/h	103,000	108,000	112,000	116,000	120,000
		Btu/h	409,000	427,000	440,000	461,000	478,000
		kW	120	125	130	135	140
Power consumption	Cooling	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)
			ℓ/s	3,883+3,883+3,883	3,883+3,883+3,883	3,883+3,883+3,883	3,883+3,883+3,883
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)				
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)

RXQ26TAHYM(E)	RXQ28TAHYM(E)	RXQ30TAHYM(E)	RXQ32TAHYM(E)	RXQ34TAHYM(E)	RXQ36TAHYM(E)	RXQ38TAHYM(E)	RXQ40TAHYM(E)
RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)
RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)
RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)
3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
62,600	67,300	72,200	76,900	82,500	87,700	92,000	98,000
248,000	267,000	286,000	305,000	327,000	348,000	365,000	389,000
72.8	78.3	83.9	89.4	95.9	102	107	114
17.2	19.2	20.9	22.8	24.7	26.6	28.3	30.2
6-100	6-100	5-100	5-100	5-100	4-100	4-100	4-100
Ivory white (5Y7.5/1)							
Hermetically Sealed Scroll Type							
(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)
2,616+2,616+2,749	2,616+2,616+2,966	2,616+2,749+2,966	2,616+2,966+2,966	2,616+2,966+3,883	2,616+3,883+3,883	2,966+2,966+3,883	2,966+3,883+3,883
157+157+165	157+157+178	157+165+178	157+178+178	157+178+233	157+233+233	178+178+233	178+233+233
(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)
185+185+195	185+185+195	185+195+195	185+195+195	185+195+285	185+285+285	195+195+285	195+285+285
61	62	62	63	63	64	64	64
-5 to 49							
R-410A							
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
φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(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)

Notes: 1. Models with (E) are the outdoor units with anti-corrosion specifications. Please refer to Engineering Data Book for details.
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.

VRV IV Outdoor Units Cooling Only RXQ-TA
Standard Type

MODEL			RXQ6TAYM(E)	RXQ8TAYM(E)	RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	RXQ16TAYM(E)
Combination units			—	—	—	—	—	—
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
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	Cooling	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		ℓ/s	1,983	2,616	2,749	2,966	3,883	3,883
		m³/min	119	157	165	178	233	233
Dimensions (HxWxD)		mm	1,657x930x765				1,657x1,240x765	
Machine weight		kg	185	185	195	195	285	285
Sound level		dB(A)	55	56	57	59	60	61
Operation range	Cooling	°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)		

RXQ18TANYM(E)	RXQ20TANYM(E)	RXQ22TANYM(E)	RXQ24TANYM(E)	RXQ26TANYM(E)	RXQ28TANYM(E)	RXQ30TANYM(E)	RXQ32TANYM(E)
RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ8TAYM(E)	RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)
RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ16TAYM(E)	RXQ18TAYM(E)
3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
43,300	48,100	53,700	58,500	63,200	68,800	73,100	77,400
172,000	191,000	213,000	232,000	251,000	273,000	290,000	307,000
50.4	55.9	62.4	68.0	73.5	80.0	85.0	90.0
12.1	14.0	15.9	17.6	19.5	21.4	23.7	26.1
8-100	8-100	7-100	6-100	6-100	5-100	5-100	5-100
Ivory white (5Y7.5/1)							
Hermetically Sealed Scroll Type							
(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)
2,616+2,749	2,616+2,966	2,616+3,883	2,749+3,883	2,966+3,883	3,883+3,883	3,883+3,883	3,883+3,883
157+165	157+178	157+233	165+233	178+233	233+233	233+233	233+233
(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)		(1,657x1,240x765)+(1,657x1,240x765)			
185+195	185+195	185+285	195+285	195+285	285+285	285+285	285+285
60	61	61	62	63	63	64	64
-5 to 49							
R-410A							
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
φ15.9(Brazing)	φ15.9(Brazing)	φ15.9(Brazing)	φ15.9(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(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)

MODEL			RXQ34TANYM(E)	RXQ36TANYM(E)	RXQ38TANYM(E)	RXQ40TANYM(E)	RXQ42TANYM(E)	RXQ44TANYM(E)
Combination units			RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ8TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)
			RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ14TAYM(E)	RXQ16TAYM(E)
			RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ18TAYM(E)	RXQ16TAYM(E)	RXQ16TAYM(E)	RXQ16TAYM(E)
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
Cooling capacity		kcal/h	81,700	86,900	91,200	96,300	102,000	107,000
		Btu/h	324,000	345,000	362,000	382,000	406,000	423,000
		kW	95.0	101	106	112	119	124
Power consumption	Cooling	kW	24.5	26.5	29.4	30.6	32.5	34.8
Capacity control		%	5-100	5-100	4-100	4-100	4-100	4-100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type	Hermetically Sealed Scroll Type						
	Motor output	kW	(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)
Airflow rate	ℓ/s		2,749+2,966+2,966	2,966+2,966+2,966	2,616+2,966+3,883	2,966+2,966+3,883	2,966+3,883+3,883	2,966+3,883+3,883
	m³/min		165+178+178	178+178+178	157+178+233	178+178+233	178+233+233	178+233+233
Dimensions (HxWxD)		mm	(1,657x930x765)+(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)		(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)	
Machine weight		kg	195+195+195	195+195+195	185+195+285	195+195+285	195+285+285	195+285+285
Sound level		dB(A)	63	64	64	65	65	65
Operation range		°CDB	-5 to 49					
Refrigerant	Type	R-410A						
	Charge	kg	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
Piping connections	Liquid	mm	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)
	Gas	mm	φ34.9(Brazing)	φ41.3(Brazing)	φ41.3(Brazing)	φ41.3(Brazing)	φ41.3(Brazing)	φ41.3(Brazing)

RXQ46TANYM(E)	RXQ48TANYM(E)	RXQ50TANYM(E)	RXQ52TANYM(E)	RXQ54TANYM(E)	RXQ56TANYM(E)	RXQ58TANYM(E)	RXQ60TANYM(E)
RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ14TAYM(E)	RXQ16TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ20TAYM(E)
RXQ14TAYM(E)	RXQ16TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ20TAYM(E)
RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ20TAYM(E)	RXQ20TAYM(E)	RXQ20TAYM(E)
3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
112,000	116,000	120,000	125,000	129,000	134,000	139,000	144,000
444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000
130	135	140	145	150	156	162	168
36.8	39.1	41.5	43.8	46.2	48.8	51.4	54.0
3-100	3-100	3-100	3-100	3-100	3-100	3-100	3-100
Ivory white (5Y7.5/1)							
Hermetically Sealed Scroll Type							
(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(4.4x1)+(4.0x1)	(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)
3,883+3,883+3,883	3,883+3,883+3,883	3,883+3,883+3,883	3,883+3,883+3,883	3,883+3,883+3,883	3,883+3,883+4,466	3,883+4,466+4,466	4,466+4,466+4,466
233+233+233	233+233+233	233+233+233	233+233+233	233+233+233	233+233+268	233+268+268	268+268+268
(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)							
285+285+285	285+285+285	285+285+285	285+285+285	285+285+285	285+285+320	285+320+320	320+320+320
66	66	66	66	67	68	69	70
-5 to 49							
R-410A							
10.3+10.3+10.5	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
φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(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)

Notes: 1. Models with (E) are the outdoor units with anti-corrosion specifications. Please refer to Engineering Data Book for details.
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.

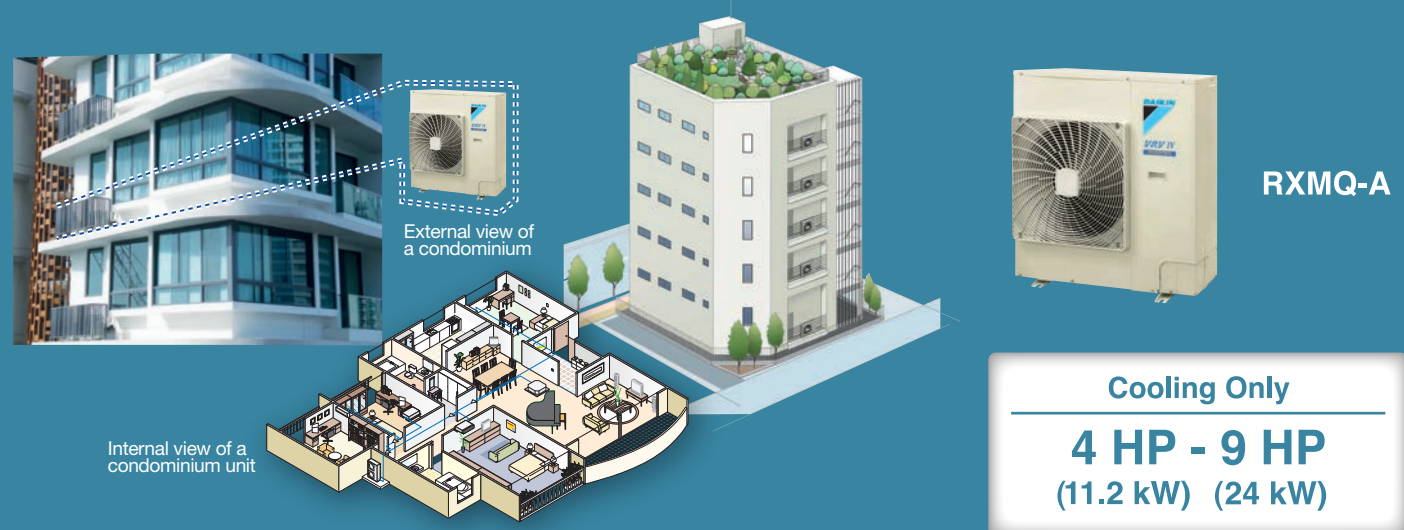
VRV IV Outdoor Units Cooling Only RXQ-TA
Space Saving Type

MODEL			RXQ18TAYM(E)	RXQ20TAYM(E)	RXQ22TASYM(E)	RXQ24TASYM(E)	RXQ26TASYM(E)
Combination units			—	—	RXQ10TAYM(E)	RXQ12TAYM(E)	RXQ8TAYM(E)
					RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ18TAYM(E)
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				
Cooling capacity		kcal/h	43,000	48,200	52,900	57,600	62,300
		Btu/h	171,000	191,000	210,000	229,000	247,000
		kW	50.0	56.0	61.5	67.0	72.4
Power consumption	Cooling	kW	15.4	18.0	15.7	17.6	20.6
Capacity control		%	10-100	8-100	8-100	8-100	7-100
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)	(3.4x1)+(4.4x1)+(4.0x1)
Airflow rate		ℓ/s	3,883	4,466	2,749+2,966	2,966+2,966	2,616+3,883
		m³/min	233	268	165+178	178+178	157+233
Dimensions (HxWxD)		mm	1,657x1,240x765			(1,657x930x765)+(1,657x930x765)	
Machine weight		kg	285	320	195+195	195+195	185+285
Sound level		dB(A)	62	65	61	62	63
Operation range		°CDB	-5 to 49				
Refrigerant	Type		R-410A				
	Charge	kg	10.5	11.8	6.0+6.3	6.3+6.3	5.9+10.5
Piping connections	Liquid	mm	φ15.9(Brazing)	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)	φ34.9(Brazing)

MODEL			RXQ42TASYM(E)	RXQ44TASYM(E)	RXQ46TASYM(E)	RXQ48TASYM(E)	RXQ50TASYM(E)	
Combination units			RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(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, 380-415 V/380 V, 50/60 Hz					
Cooling capacity		kcal/h	101,000	106,000	111,000	115,000	120,000	
		Btu/h	399,000	420,000	440,000	457,000	478,000	
		kW	117	123	129	134	140	
Power consumption	Cooling	kW	33.0	35.6	37.2	39.6	42.2	
Capacity control		%	4-100	4-100	4-100	4-100	3-100	
Casing colour			Ivory white (5Y7.5/1)					
Compressor		Type	Hermetically Sealed Scroll Type					
		Motor output	kW	(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		ℓ/s	2,966+2,966+3,883	2,966+2,966+4,466	2,966+3,883+3,883	2,966+3,883+3,883	2,966+3,883+4,466	
		m³/min	178+178+233	178+178+268	178+233+233	178+233+233	178+233+268	
Dimensions (HxWxD)		mm	(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765) (1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)					
Machine weight		kg	195+195+285	195+195+320	195+285+285	195+285+285	195+285+320	
Sound level		dB(A)	65	67	66	66	67	
Operation range		°CDB	-5 to 49					
Refrigerant		Type	R-410A					
		Charge	kg	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)
		Gas	mm	φ41.3(Brazing)	φ41.3(Brazing)	φ41.3(Brazing)	φ41.3(Brazing)	φ41.3(Brazing)

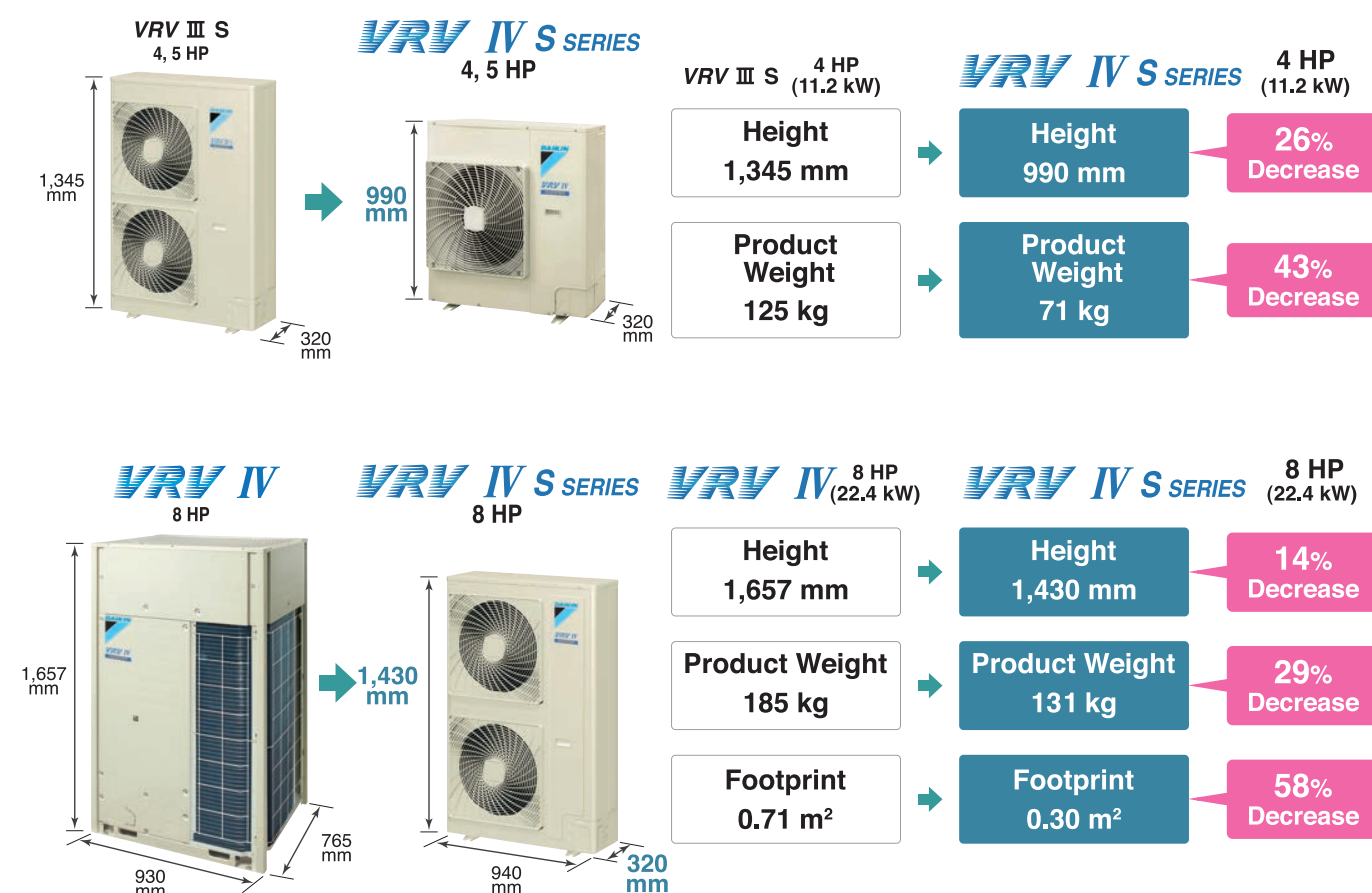
RXQ28TASYM(E)	RXQ30TASYM(E)	RXQ32TASYM(E)	RXQ34TASYM(E)	RXQ36TASYM(E)	RXQ38TASYM(E)	RXQ40TASYM(E)
RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ12TAYM(E)	RXQ16TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ20TAYM(E)
RXQ16TAYM(E)	RXQ18TAYM(E)	RXQ20TAYM(E)	RXQ18TAYM(E)	RXQ18TAYM(E)	RXQ20TAYM(E)	RXQ20TAYM(E)
3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz						
67,500	71,800	77,000	81,700	86,000	91,200	96,300
268,000	285,000	305,000	324,000	341,000	362,000	382,000
78.5	83.5	89.5	95.0	100	106	112
21.8	24.2	26.8	28.4	30.8	33.4	36.0
6-100	6-100	5-100	5-100	5-100	4-100	4-100
Ivory white (5Y7.5/1)						
Hermetically Sealed Scroll Type						
(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)
2,966+3,883	2,966+3,883	2,966+4,466	3,883+3,883	3,883+3,883	3,883+4,466	4,466+4,466
178+233	178+233	178+268	233+233	233+233	233+268	268+268
(1,657x930x765)+(1,657x1,240x765)			(1,657x1,240x765)+(1,657x1,240x765)			
195+285	195+285	195+320	285+285	285+285	285+320	320+320
63	64	66	65	65	67	68
-5 to 49						
R-410A						
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
φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)	φ19.1(Brazing)
φ34.9(Brazing)	φ34.9(Brazing)	φ34.9(Brazing)	φ34.9(Brazing)	φ41.3(Brazing)	φ41.3(Brazing)	φ41.3(Brazing)

Notes: 1. Models with (E) are the outdoor units with anti-corrosion specifications. Please refer to Engineering Data Book for details.
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.



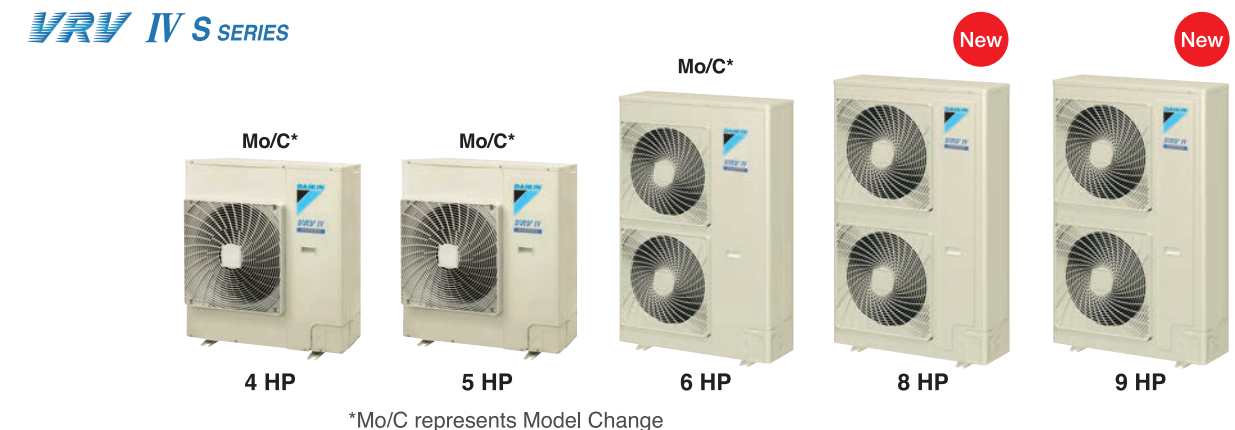
Compact & Lightweight Design

The new design has been optimised for the VRV IV S series, with the height of 4 HP and 5 HP models reduced to only 990 mm. This design gives the building a sleek look externally and provides the occupants with a clear, unobstructed view of the scenery. The VRV IV S series is now slim and compact, with outdoor units that require minimal installation space.



Enhanced lineup

To suit a variety of room sizes, VRV IV S series expands the range to 8 HP and 9 HP.



Lineup

Model Name	RXMQ4AVE	RXMQ5AVE	RXMQ6AVE	RXMQ8AY1	RXMQ9AY1
Power Supply	1-phase, 220-230 V/220 V, 50/60 Hz			3-phase, 380-415 V, 50 Hz	
Capacity Range	4 HP (11.2 kW)	5 HP (14.0 kW)	6 HP (16.0 kW)	8 HP (22.4 kW)	9 HP (24.0 kW)
Capacity Index	100	125	150	200	215

Wide variety of indoor units

Indoor units can be selected from 2 lineups, both VRV and residential indoor units, to match rooms and preferences. A mixed combination of VRV indoor units and residential indoor units can be included into one system, opening the door to stylish and quiet indoor units.

Elegant appearance with European style



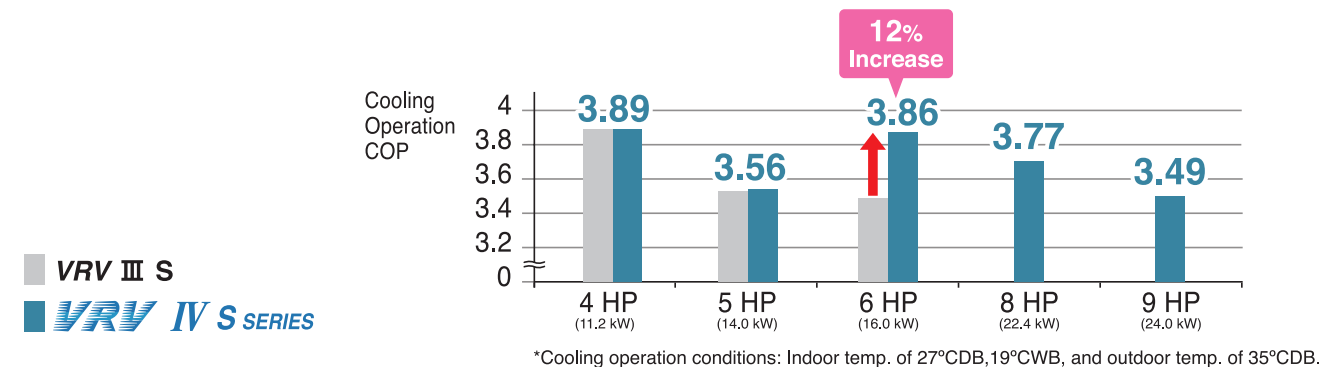
New FTKJ-N series indoor unit



Energy saving

Higher Coefficient of Performance (COP)

VRV IV S series provides greater energy saving as compared to VRV III S series, especially for 6 HP.



Quiet operation

Nighttime quiet operation function

Operation sound level selectable from 3 steps for the night mode

Mode 1. Automatic mode

Set on the outdoor PCB. Time of maximum temperature is memorised. The low operating mode will initiate 8 hours*1 after the peak temperature in the daytime, and normal operation will resume 10 hours*2 after that. The operation sound level for the night mode can be selected from 49 dB(A) (Step 1), 46 dB(A) (Step 2) and 43 dB(A) (Step 3).*3

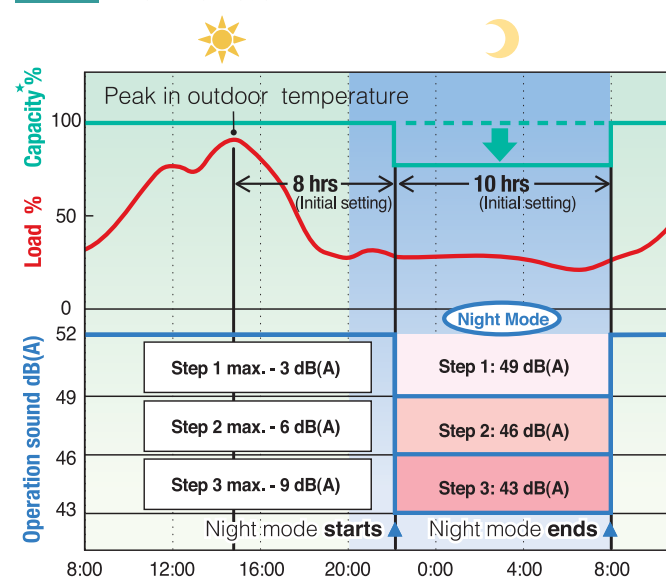
Mode 2. Manual mode

Starting time and ending time can be input. (An external control adaptor for outdoor unit, DTA104A53/61/62, and a locally obtained timer are necessary.)

Mode 3. Combined mode

Combinations of modes 1 and 2 can be used depending on your needs.

Mode 1. Automatic mode



Note: • This function is available in setting at site.
• The relationship of outdoor temperature (load) and time shown in the graph is just an example.
* The capacity reduction rate differs depending on the operation sound level step selected.

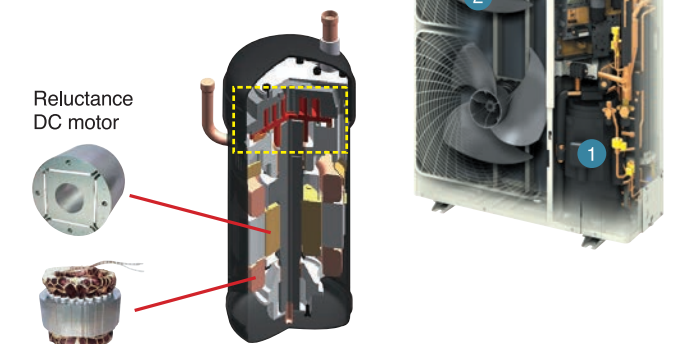
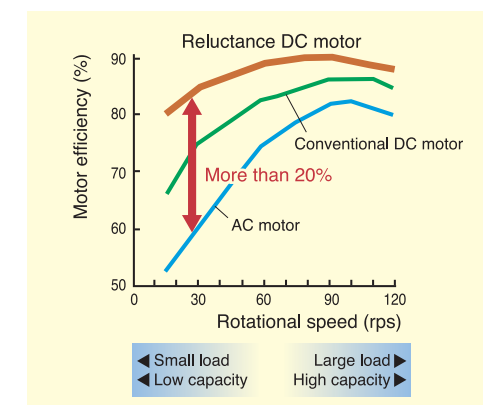
*1. Initial setting. Can be selected from 6, 8 and 10 hours.
*2. Initial setting. Can be selected from 8, 9 and 10 hours.
*3. In case of 4 class outdoor unit during cooling operation

Collection of cutting-edge technologies realises efficient and quiet operation

The high efficiency compressor to achieve a higher COP

1 Compressor equipped with Reluctance DC motor

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



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

*1 A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.

*2 The torque created by the change in power between the iron and magnet parts.

>> Smooth sine wave DC inverter

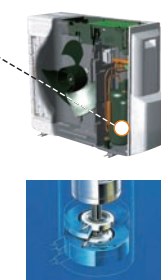
Use of an optimised sine wave smoothes motor rotation, further improving operating efficiency.



RXMQ 4, 5, 6AVE

>> Swing compressor

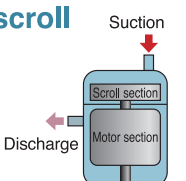
Daikin swing compressor has integrated the rotor with the blade, completely solving the refrigerant leakage and the wear problem caused by the mechanical friction between the rotor and the blade, which enhances the compressor efficiency and makes the compressor more quiet and durable.



RXMQ8, 9AY1

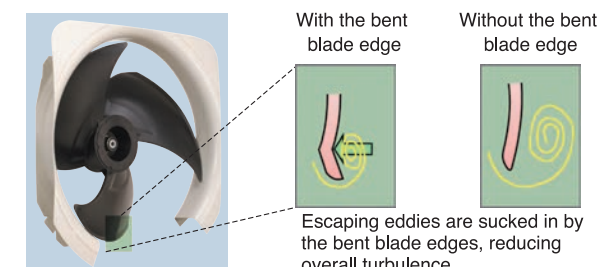
>> The structural scroll

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



2 Smooth Air Inlet Bell Mouth and Aero Spiral Fan

These two features work to reduce sound. Guides are added to the bell mouth intake to reduce turbulence in the airflow generated by fan suction. The Aero Spiral Fan features fan blades with the bent blade edges, further reducing turbulence.



3 DC fan motor

Efficiency improved in all areas compared to conventional AC motors, especially at low speeds.

DC fan motor structure

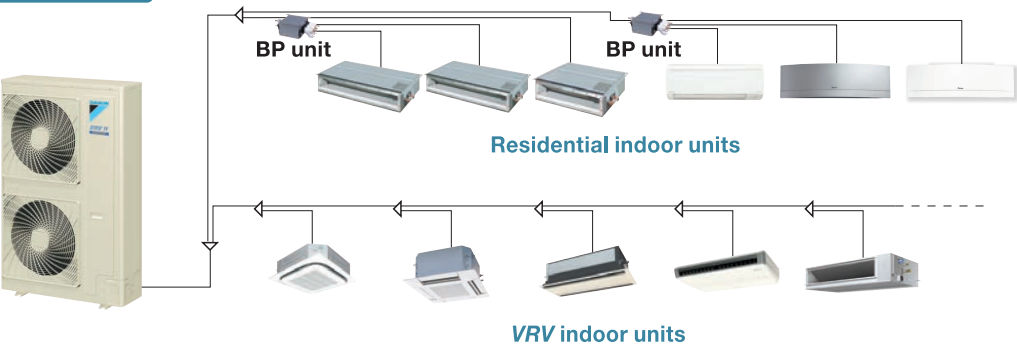


Connectable up to 14 indoor units

As many as 14 indoor units can be connected to a single outdoor unit, making the VRV IV S series a remarkably versatile system.

Note: Total capacity index of connectable indoor units must be 50-130% of the capacity index of the outdoor unit. Refer to page 42 for the maximum number of connectable indoor unit.

Max. 14 indoor units



Automatic test operation

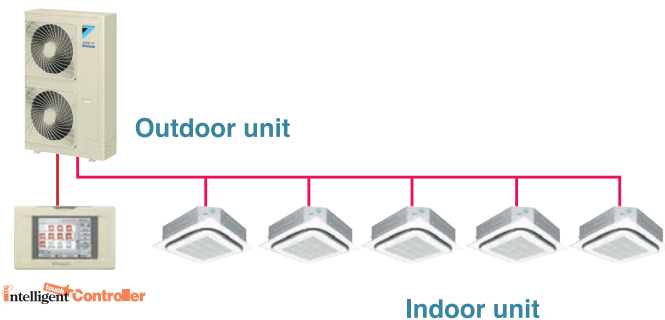
Simply press the test operation button and the unit will perform an automatic system check, including wiring, stop valves, piping, and refrigerant charging amount. The results then returned automatically after the check finishes.

Simple wiring and piping connection

Unique piping and wiring systems make it possible to install a VRV IV S series quickly and easily.

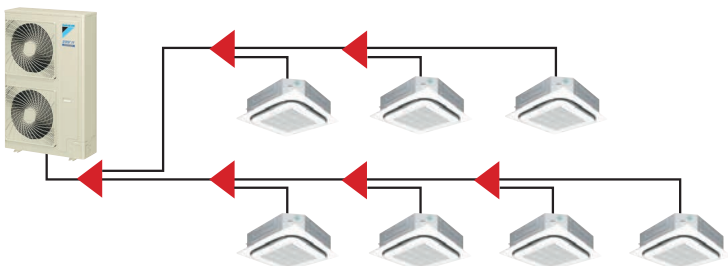
>> Super wiring system

A super wiring system is used to enable shared use of the wiring between indoor and outdoor units and the central control wiring, with a relatively simple wiring operation. The DIII-NET communication system is employed to enable the use of advanced control systems.



>> REFNET piping system

Daikin's advanced REFNET piping system makes installation easy. Only two main refrigerant lines are required in any one system. REFNET greatly reduces the imbalances in refrigerant flow between units, while using small-diameter piping.

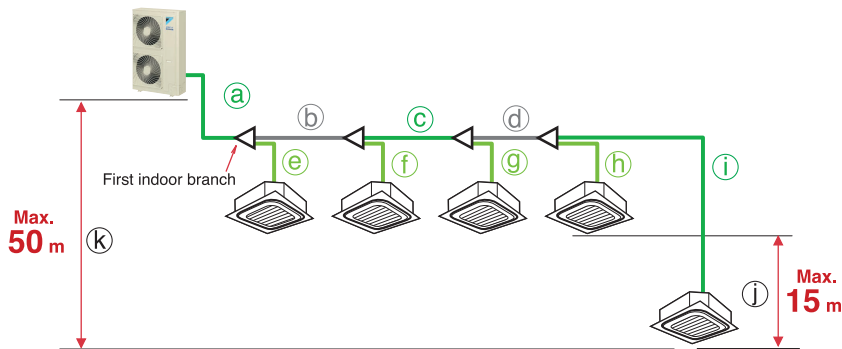


Makes the long piping design possible

Long piping length offers flexibility in the choice of installation positions, and simplifies system planning.

When only VRV indoor units are connected

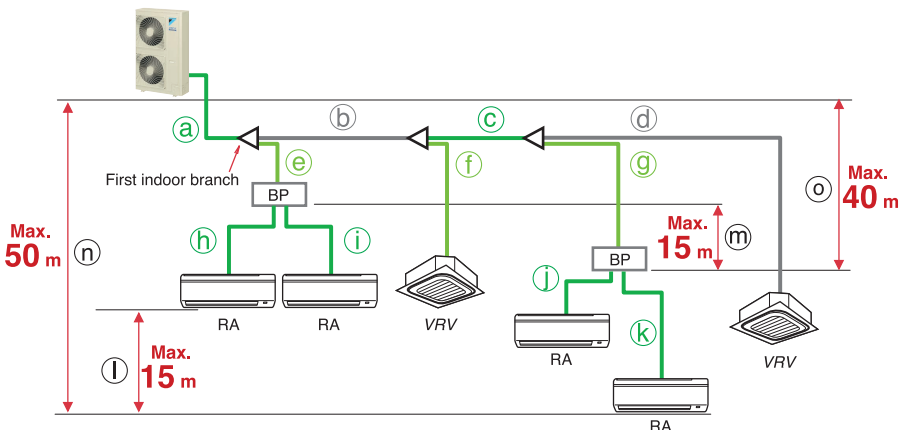
Actual piping length
Max. 120 m
Total piping length
Max. 300 m



				4 HP	5 HP	6 HP	8,9 HP
Max. allowable piping length	Refrigerant piping length		a+b+c+d+i	50 m	70 m	120 m	100 m
	Total piping length		a+b+c+d+e+f+g+h+i	250 m	300 m	300 m	300 m
	Between the first indoor branch and the farthest indoor unit		b+c+d+i	40 m	40 m	40 m	40 m
Max. allowable level difference	Between the indoor units		j	10 m	15 m	15 m	15 m
	Between the outdoor unit and the indoor unit	If the outdoor unit is above	k	30 m	30 m	50 m	50 m
		If the outdoor unit is below	k	30 m	30 m	40 m	40 m

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

Actual piping length
Max. 100 m
Total piping length
Max. 250 m






















			4 HP	5 HP	6-9 HP	
Max. allowable piping length	Refrigerant piping length		a+b+c+g+k, a+b+c+d	50 m	70 m	100 m
	Total piping length		a+b+c+d+e+f+g+h+i+j+k	250 m	250 m	250 m
	The first indoor branch - the farthest BP or VRV indoor unit		b+c+g, b+c+d	40 m	40 m	40 m
Max. & min. allowable piping length		If indoor unit capacity index < 60	h, i, j, k	2 m–15 m	2 m–15 m	2 m–15 m
	BP unit - indoor unit	If indoor unit capacity index is 60		2 m–12 m	2 m–12 m	2 m–12 m
		If indoor unit capacity index is 71		2 m–8 m	2 m–8 m	2 m–8 m
Min. allowable piping length	Outdoor unit - the first indoor branch		a	5 m	5 m	5 m
Max. allowable level difference	Between the indoor units		l	10 m	15 m	15 m
	Between BP units		m	10 m	15 m	15 m
	Outdoor unit - the indoor unit	If the outdoor unit is above	n	30 m	30 m	50 m
		If the outdoor unit is below	n	30 m	30 m	40 m
	Outdoor unit - the BP unit		o	30 m	30 m	40 m








Enhanced range of choices

A mixed combination of VRV indoor units and residential indoor units can be combined into one system, opening the door to stylish and quiet indoor units.

VRV indoor units

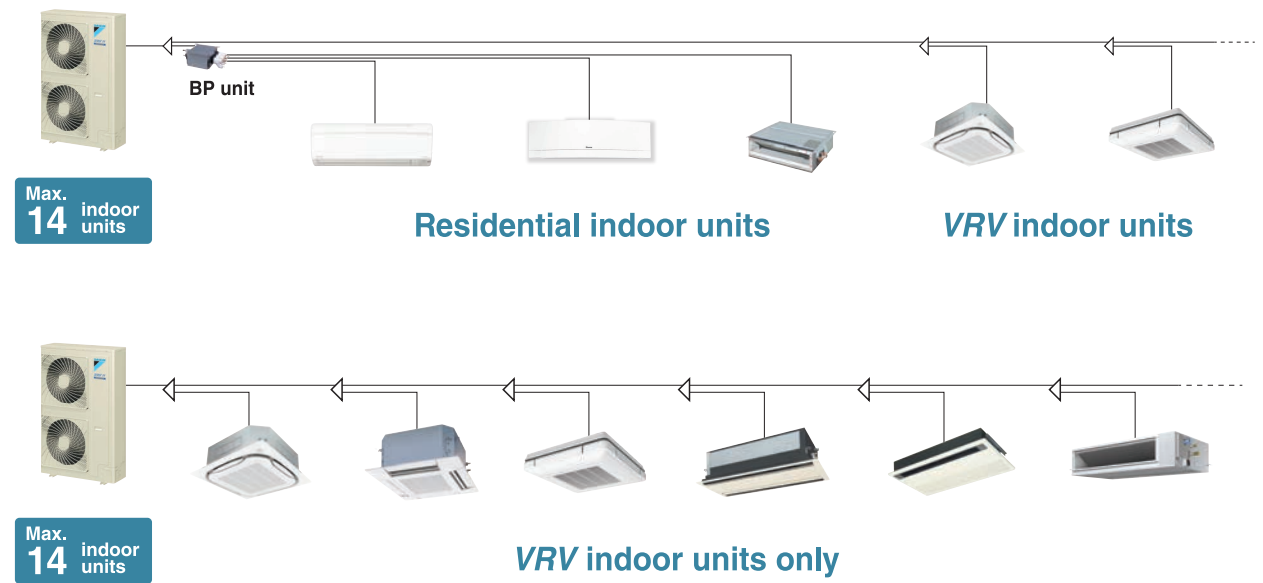
Type	Model Name	Capacity Range	20	25	32	40	50	63	71	80	100	125	140	200	250
			0.8HP	1HP	1.25HP	1.6HP	2HP	2.5HP	3HP	3.2HP	4HP	5HP	6HP	8HP	10HP
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200
Ceiling Mounted Cassette(Round Flow with Sensing)	FXFQ-SVM			●	●	●	●	●		●	●	●			
Ceiling Mounted 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)		●	●	●										
	FXDQ-PBVET (without drain pump)		●	●	●										
	FXDQ-NBVE (with drain pump)					●	●	●							
	FXDQ-NBVET (without drain pump)					●	●	●							
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1		●	●	●	●	●	●							
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE		●	●	●	●	●	●		●	●	●	●		
Ceiling Mounted Duct	FXMQ-PVE		●	●	●	●	●	●		●	●	●	●		
	FXMQ-MAVE													●	●
Outdoor-Air Processing Unit	FXMQ-MFV1											●		●	
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	FXVQ-NY1											●		●	●
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h												

Residential indoor units with connection to BP units

Type	Model Name	Rated Capacity (kW)	25	35	50	60	71
			2.5	3.5	5.0	6.0	7.1
		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	FTKJ-NVMW		●	●	●		
	FTKJ-NVMS		●	●	●		
	FTKS-DVM		●	●			
	FTKS-BVMA				●		
	FTKS-FVM				●	●	●

Note: BP units are necessary for residential indoor units.

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



*Refer to page 42 for the maximum number of connectable indoor units.

■

VRV IV S series

Cooling Only

MODEL			RXMQ4AVE	RXMQ5AVE	RXMQ6AVE	RXMQ8AY1	RXMQ9AY1
Power supply			1-phase, 220-230 V/220 V, 50/60 Hz			3-phase, 380—415 V, 50 Hz	
Cooling capacity		kcal/h	9,600	12,000	13,800	19,300	20,600
		Btu/h	38,200	47,800	54,600	76,400	81,900
		kW	11.2	14.0	16.0	22.4	24.0
Power consumption	Cooling	kW	2.88	3.93	4.14	5.94	6.88
Capacity control		%	24 to 100	16 to 100		20 to 100	
Casing colour			Ivory white (5Y7.5/1)				
Compressor	Type		Hermetically sealed swing type			Hermetically sealed scroll type	
	Motor output	kW	1.92	3.0	3.5	3.8	4.8
Airflow rate		m³/min	76		106	140	
Dimensions (H×W×D)		mm	990×940×320		1,345×900×320	1,430×940×320	
Machine weight		kg	71	80	102	131	
Sound level (Cooling)		dB(A)	52	53	55	57	58
Operation range	Cooling	°CDB	-5 to 46				
Refrigerant	Type		R-410A				
	Charge	kg	2.9	3.4	3.6	5.8	
Piping connections	Liquid	mm	φ 9.5 (Flare)			φ 9.5 (Brazing)	
	Gas		φ 15.9 (Flare)		φ 19.1 (Flare)	φ 19.1 (Brazing)	φ 22.2 (Brazing)

Note: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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

- Refrigerant charge is required.

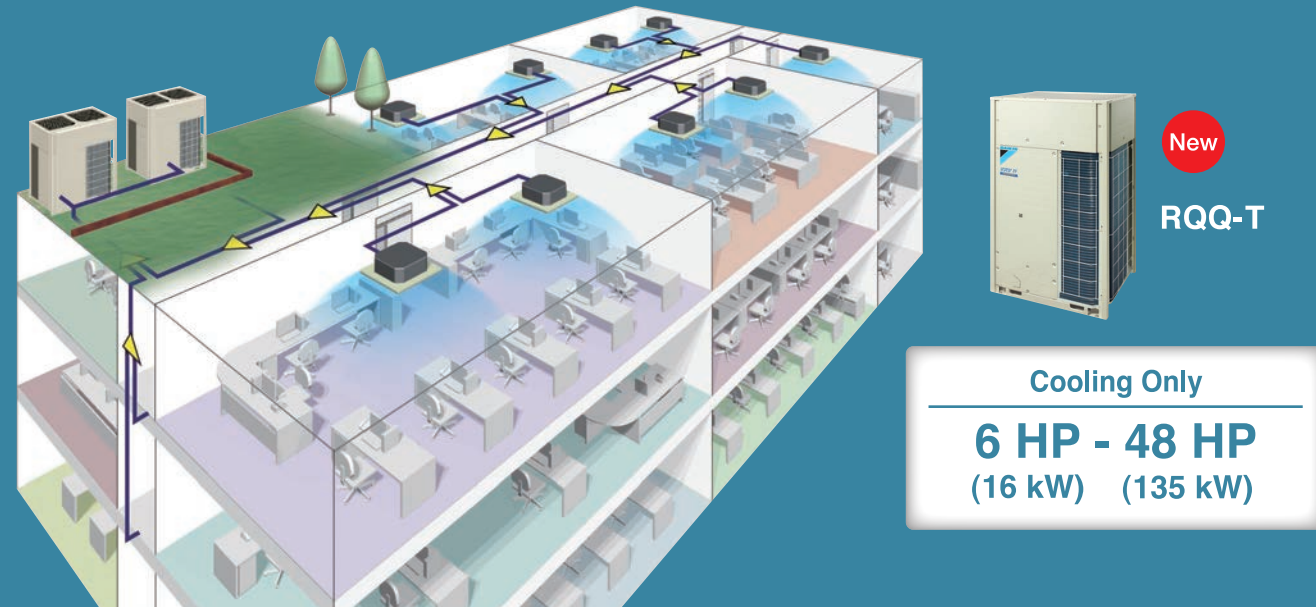
■

Outdoor unit combinations

MODEL			RXMQ4AVE	RXMQ5AVE	RXMQ6AVE	RXMQ8AY1	RXMQ9AY1
kW			11.2	14.0	16.0	22.4	24.0
HP			4	5	6	8	9
Capacity index			100	125	150	200	215
Total capacity index of connectable indoor units	Combination (%)	50%	50	62.5	75	100	107.5
		100%	100	125	150	200	215
		130%	130	162.5	195	260	280
Maximum number of connectable indoor units			6	8	9	13	14

VRV IV S SERIES

VRV IV Q SERIES For quick & high



Reusing existing piping for speedy replacement to an advanced energy-saving air conditioning system

Upgrading air conditioning systems in the past used to require replacement of refrigerant piping in buildings, leading to major construction and costs exceeding those of the original installation. To save time and cost, Daikin developed the VRV IV Q Series as a model specializing in system replacement. This revolutionary system reuses existing piping and enables quick and high quality replacement to the latest energy-saving air conditioning system without renovation work for new piping.

The VRV IV Q SERIES concept

Reusing existing refrigerant piping minimizes:

- Piping removal and new construction along with installation time and cost
- Impact to the interior and exterior of buildings
- Suspension of daily business operations for renovation

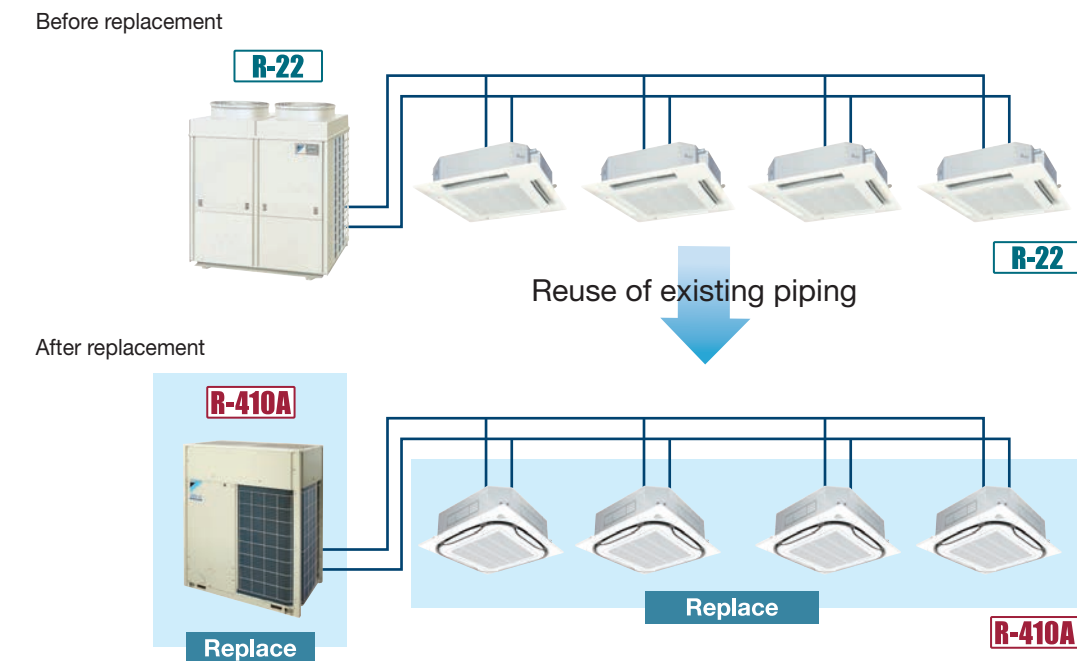
An automatic refrigerant charge function enables high quality installation for the VRV IV Q Series.

- The system is automatically charged with the proper amount of refrigerant even when the length of the existing piping is unknown.
- Equipment automatically performs a sequence of tasks from refrigerant charging to test operation.

Improvement in capacity and greater number of indoor units with the VRV IV Q Series

- Increase in capacity is possible while using existing piping.
- More indoor units can be connected in a single system, enabling consolidation of existing piping.

quality replacement use VRV IV Q SERIES



* It is possible to keep R-22 indoor units from K-series and later version. It is not possible to combine old R-22 and new R-410A indoor units in one system due to incompatibility of communication.

Quick & High Quality replacement

Enhanced lineup

2 types up 48 HP

Energy saving

Higher COP and VRT technology

Variety of indoor unit

Multiple functions for greater comfort

Convenient control system

Advanced energy-saving management

Quick, Quality and Economical

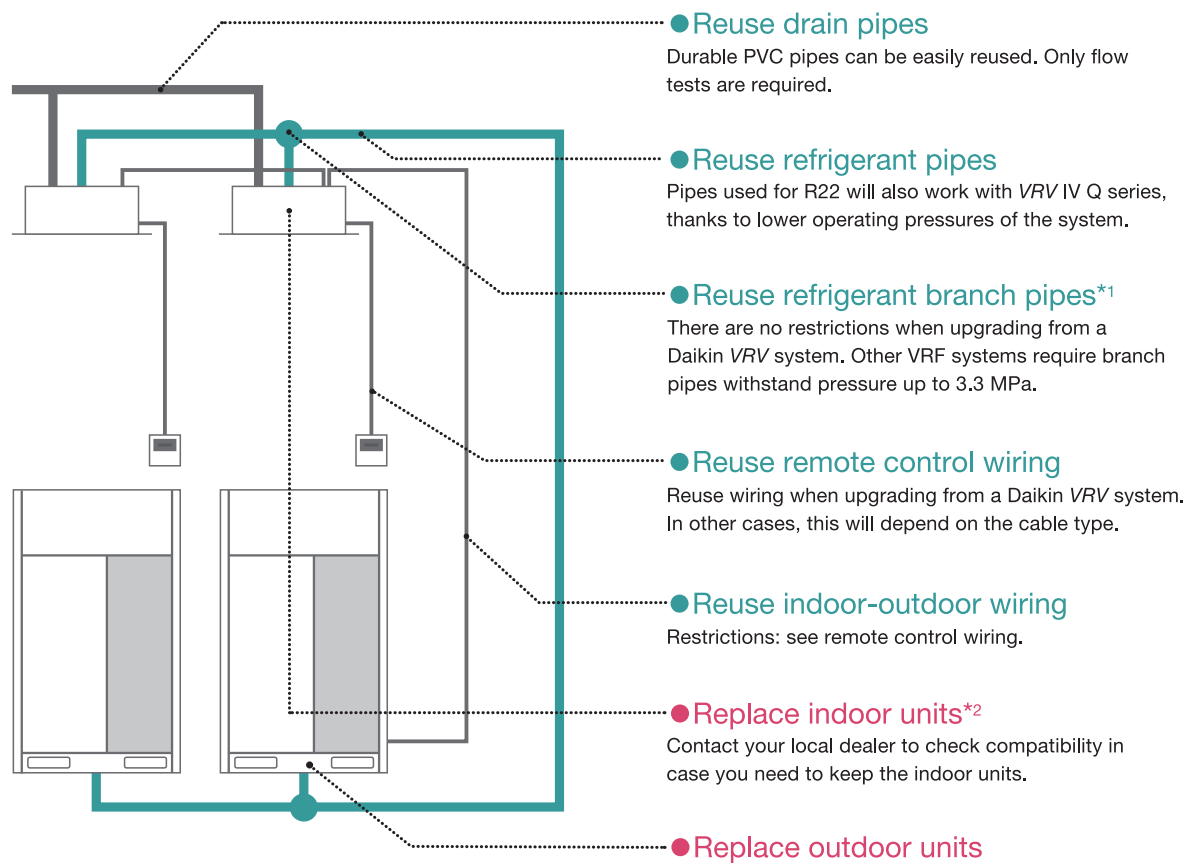
■ Reuse

Simple use of existing refrigerant piping.

In the past, special equipment and work was needed to clean pipes when using existing piping, but this is no longer required. A new function automatically deals with contamination inside piping during refrigerant charging, eliminating the work involved in cleaning.

Even applicable for non-DAIKIN systems!

The Daikin low-cost upgrade solution



*1 For reuse of existing refrigerant piping, it is possible to use piping or branched piping capable of handling 3.3 MPa or more.

Heat insulation is necessary for liquid piping and gas piping.

*2 It is possible to keep R-22 indoor units from K-series and later version. It is not possible to combine old R-22 and new R-410A indoor units in one system due to incompatibility of communication.

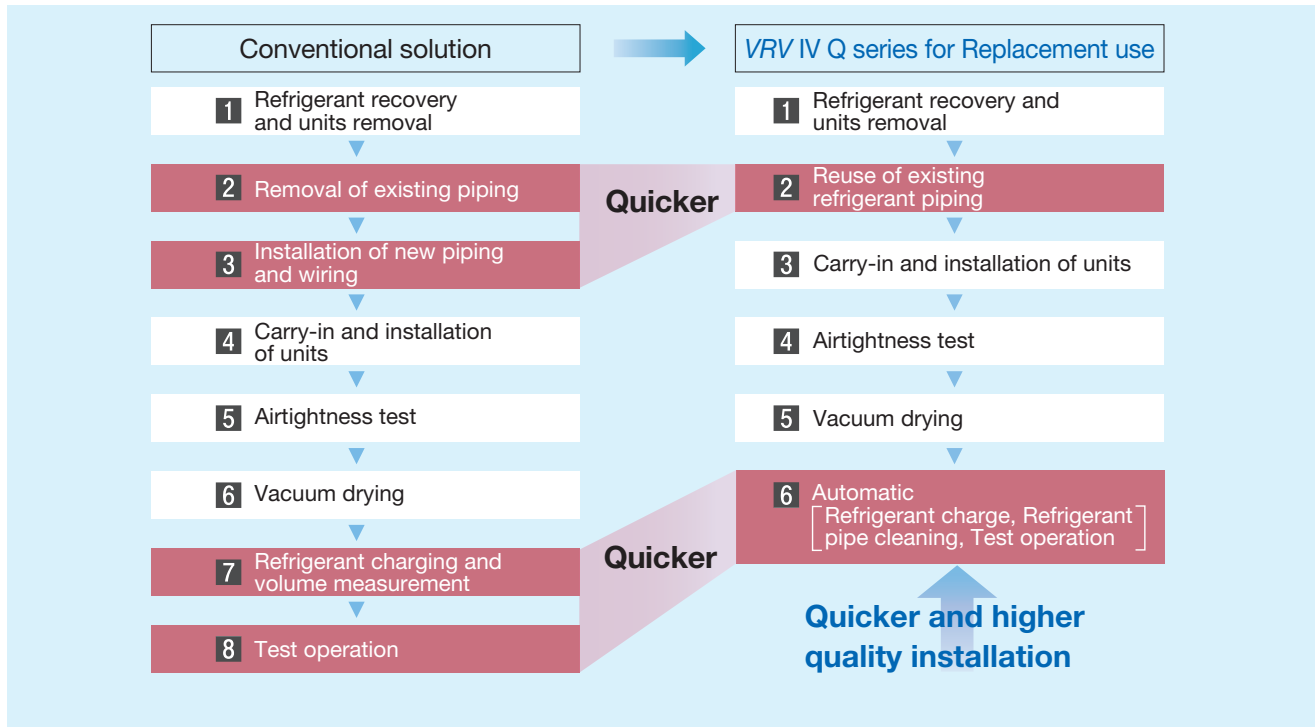
■ Automatic

Refrigerant charging, cleaning and test operation done with just a single switch.

The unique automatic refrigerant charge eliminates the need to calculate refrigerant volume, simplifying the installation process. Not knowing the exact piping lengths because of changes or mistakes in case you didn't do the original installation or replacing a competitor installation no longer poses a problem. Furthermore, there is no need to clean inside piping as this is handled automatically by the VRV IV Q unit.

■ Time saving

Enables smooth replacement of air conditioning with less effect on operations and users in the building.

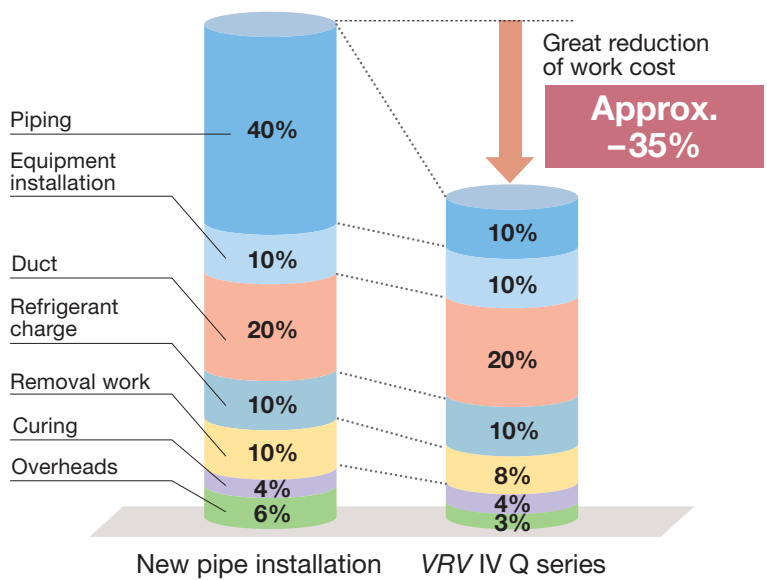


■ Cost saving

Work costs for pipe removal, installation and insulation account for much of the total cost.

By the reuse of existing piping, 35% of cost down can be realized compared to installing new pipes.

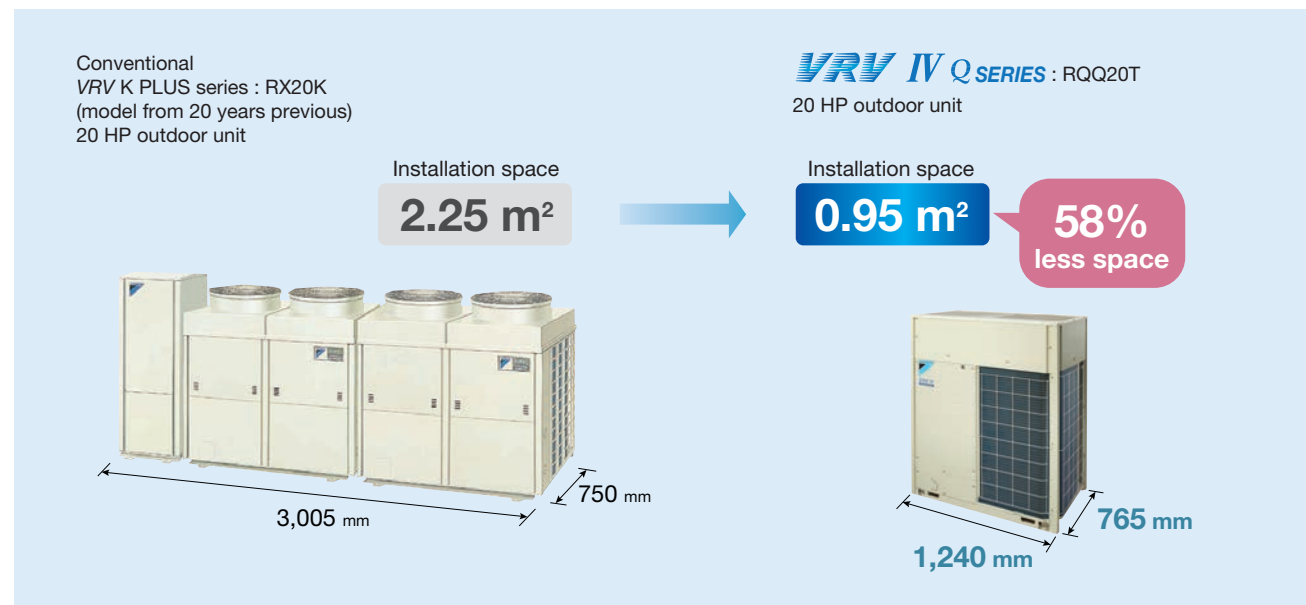
■ Cost details (10 HP example)



■ Design flexibility

Significantly more compact outdoor unit enables the effective use of limited space!

Compact design enables the effective use of space taken up by existing machinery



■ High external static pressure 78.4 Pa

Conventional VRV K series (model from 20 years previous)

49.0 Pa

VRV IV Q SERIES

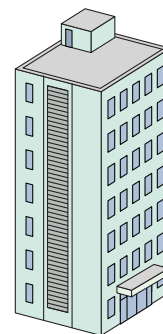
78.4 Pa

External static pressure

78.4 Pa

Easier discharge hood connection (field setting)

Easy installation on each floor for use in tall buildings



■ Small and light, significantly reducing constraints during carry-in



Can be carried on a cart



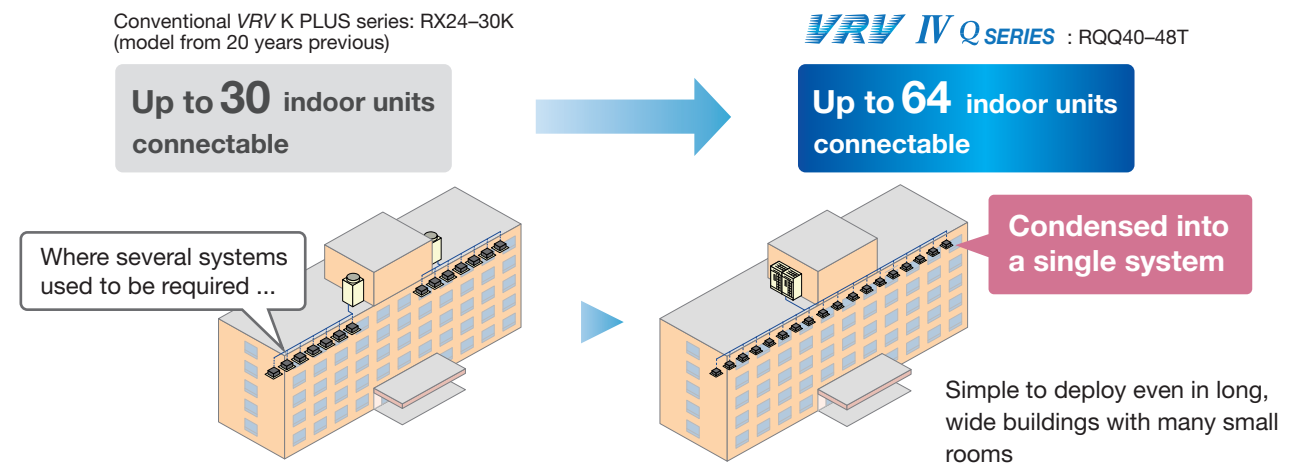
Can be transported easily by elevator

■ System flexibility

An increased number of connectable indoor units in a single system

More indoor units can be connected in a single system, enabling consolidation of existing piping!

The number of connectable indoor units has been drastically increased from 30 to 64.



■ Enables increased capacity

System can be upgraded using existing piping

VRV IV Q series for replacement use enables the system capacity to be increased without changing the refrigerant piping. For example, it is possible to install a 16 HP VRV IV Q series using the refrigerant piping of an 10 HP R-22 system.

Before replacement

10 HP

R-22

Pipe size: $\phi 28.6$, $\phi 12.7$

2.5 HP

×4 units

Reuse of existing piping

After replacement

VRV IV Q SERIES R-410A

16 HP

Pipe size: $\phi 28.6$, $\phi 12.7$

4.0 HP

×4 units

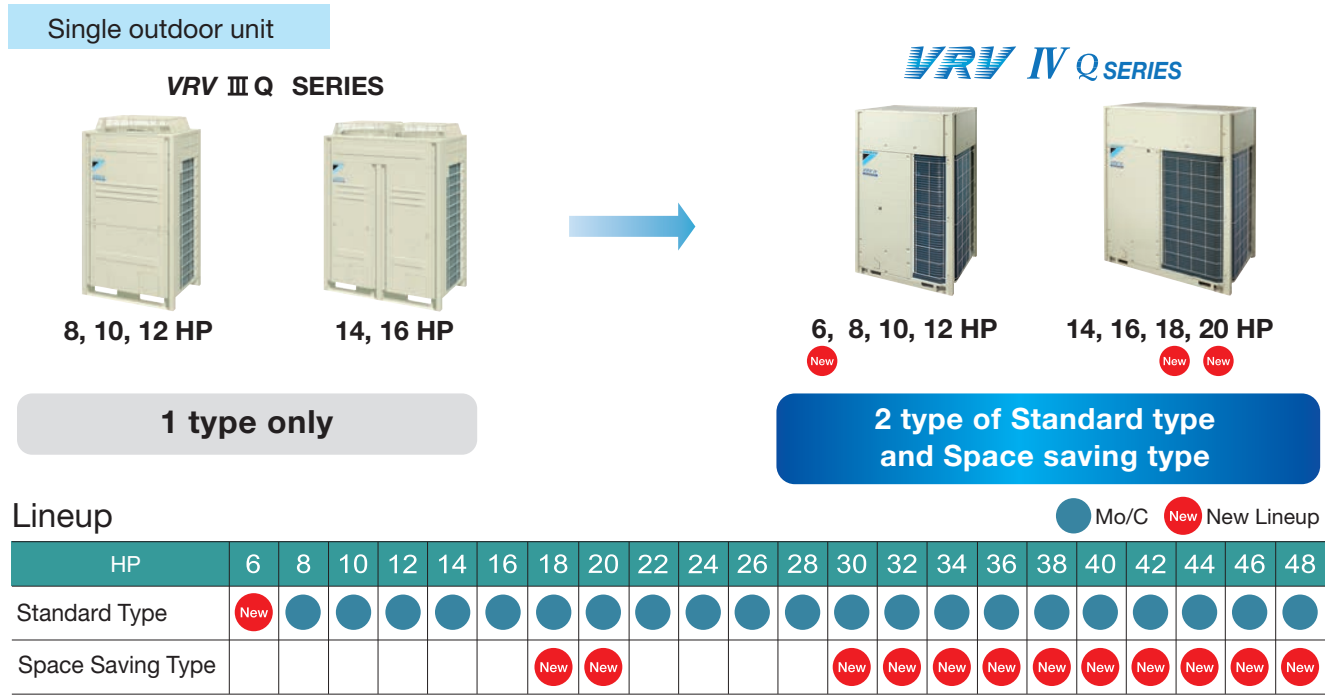
Replace

R-410A

* For reuse of existing refrigerant piping, it is possible to use piping or branched piping capable of handling 3.3 MPa or more. Heat insulation is necessary for liquid piping and gas piping.

2 types up to 48 HP

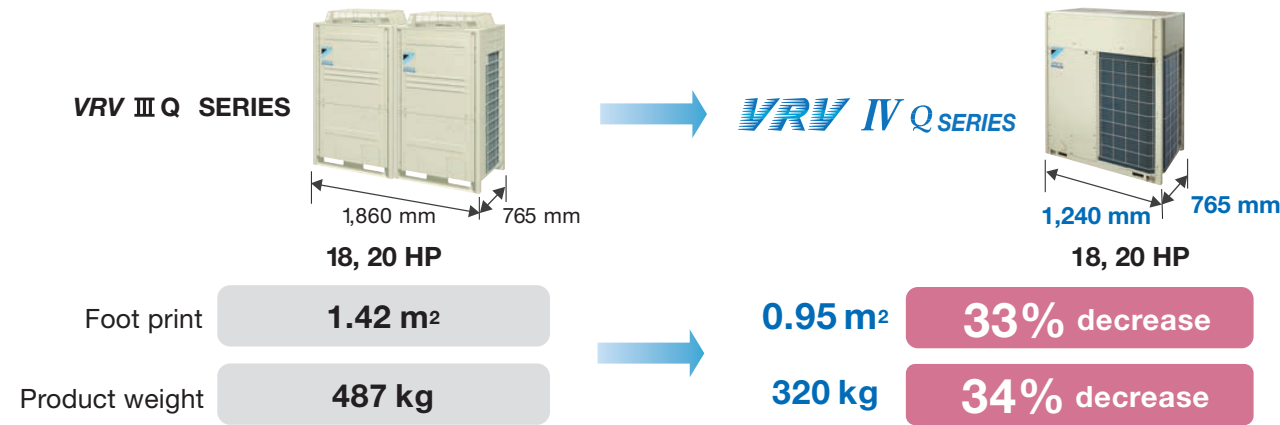
With its enhanced lineup of 2 types and Standard and Space saving types, VRV IV Q series outdoor units offer a high capacity up to 48 HP to meet an ever wider variety of needs.



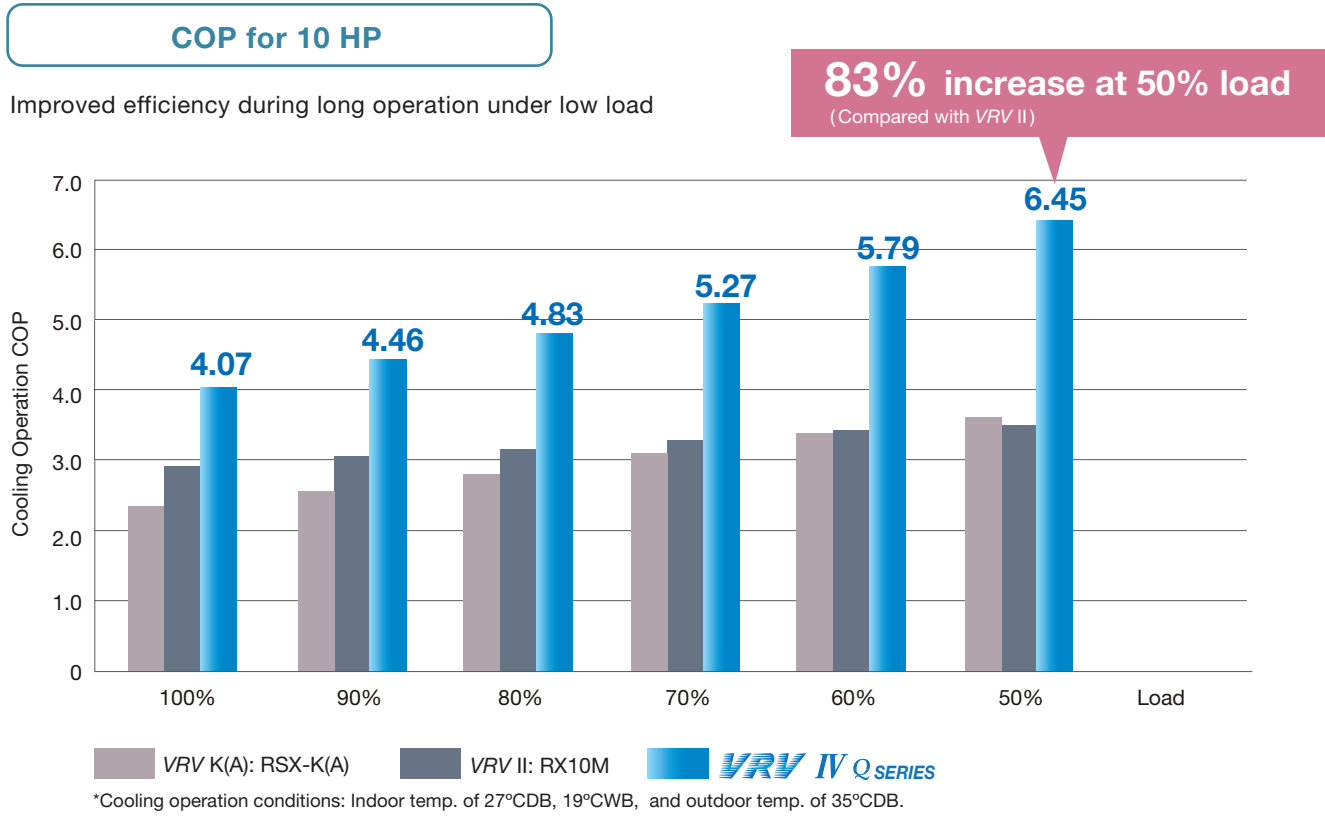
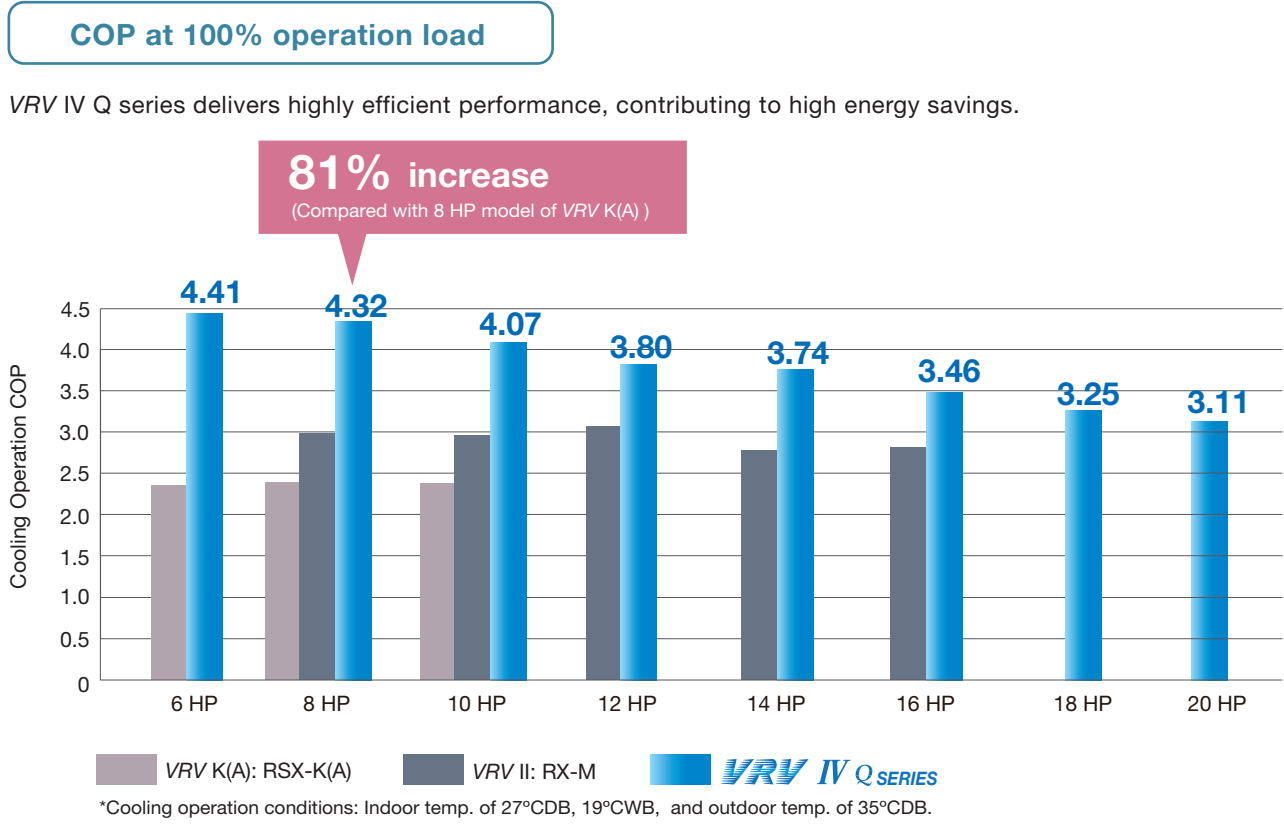
Compact & Light Weight Design

New Space Saving type with refined design

As a leading global innovator, Daikin advanced from the conventional 2 module combination to a single module for 18 and 20 HP models. This allows the installation area to reduce by 33% as compared to the previous models.



Higher Coefficient of Performance (COP)



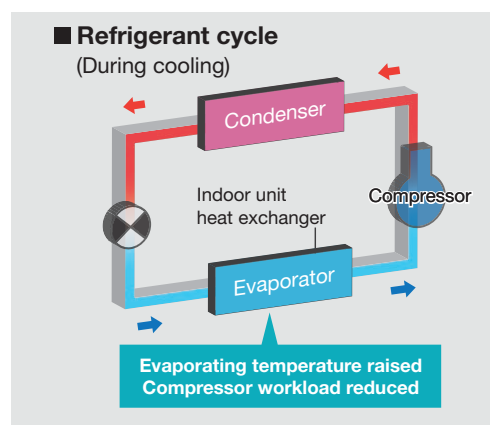
State-of-the-art energy saving technology for VRV system

Customise your VRV system for optimal annual efficiency

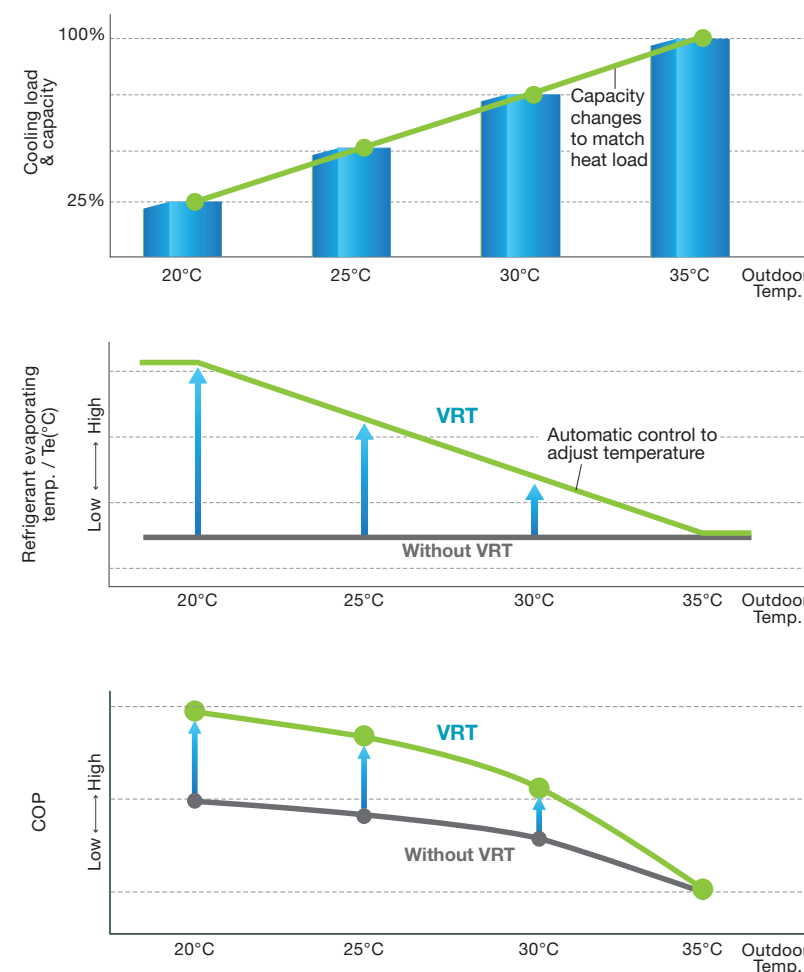
The new **VRV IV Q** series now features VRT technology. VRT automatically adjusts refrigerant temperature to individual building and climate requirement, thus further improving annual energy efficiency and maintaining comfort. With this excellent technology, running costs are reduced.

How is energy reduced?

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



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



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

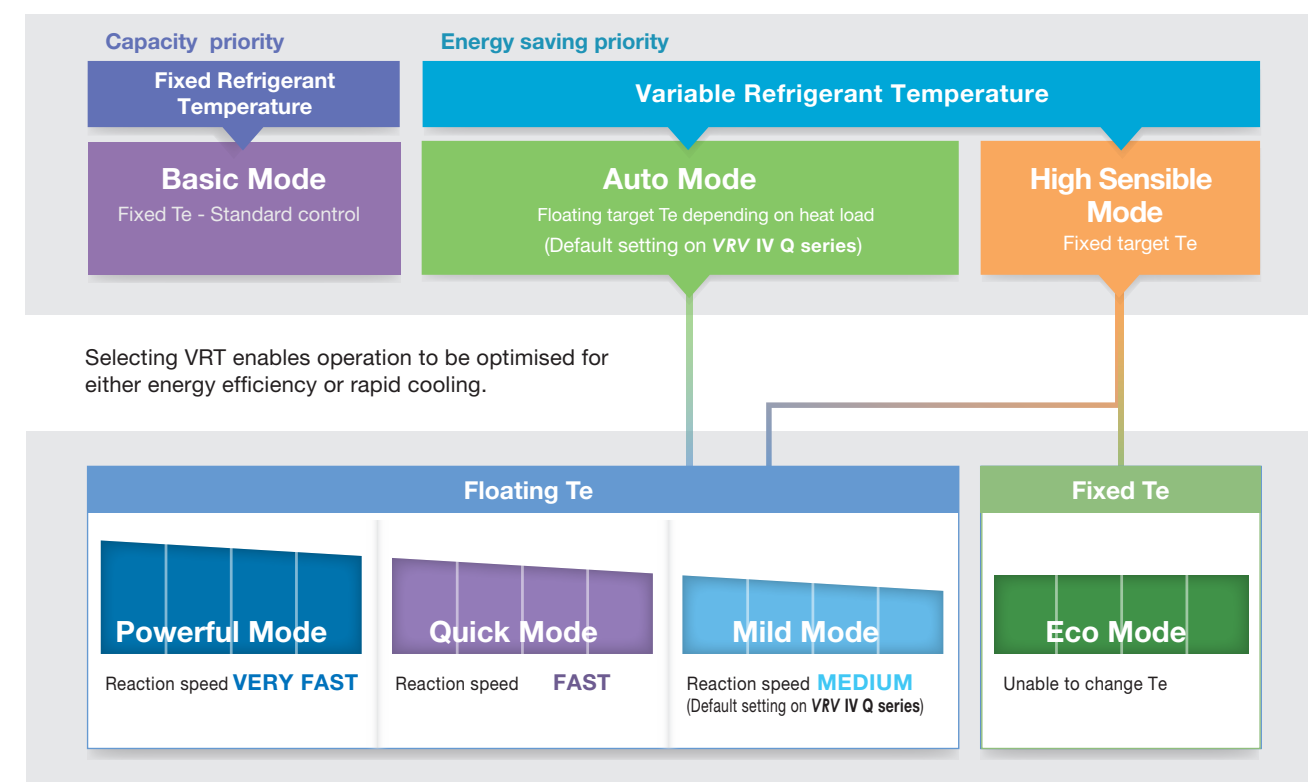
In case of fixed evaporating temperature, excessive cooling, thermo on-off loss, and other inefficiencies occur.

Automatic control adjusts evaporating temperature to heat load change.

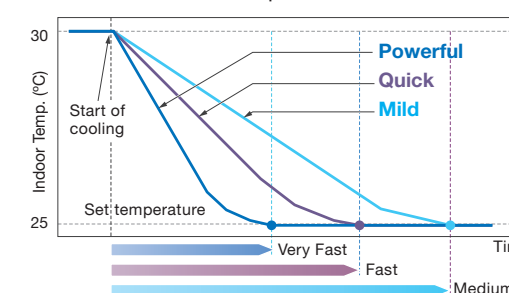
Energy efficiency is improved without sacrificing comfort.

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.

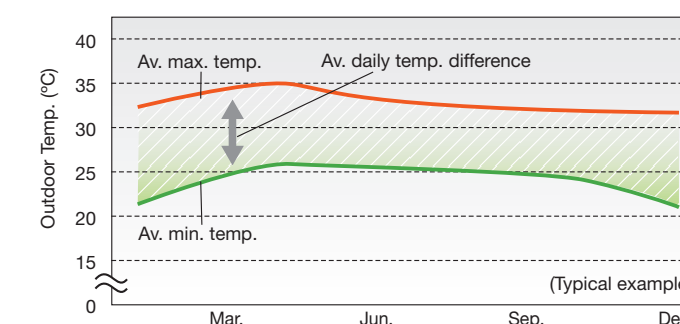


Powerful Mode	<ul style="list-style-type: none"> Can boost capacity above 100% if needed. The refrigerant temperature can go lower in cooling than the set minimum. Gives priority to very fast reaction speed. The refrigerant temperature goes down fast to keep the room setpoint stable.
Quick Mode	<ul style="list-style-type: none"> Gives priority to fast reaction speed. The refrigerant temperature goes down fast to keep the room setpoint stable.
Mild Mode	<ul style="list-style-type: none"> 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 ambient temperatures are low.

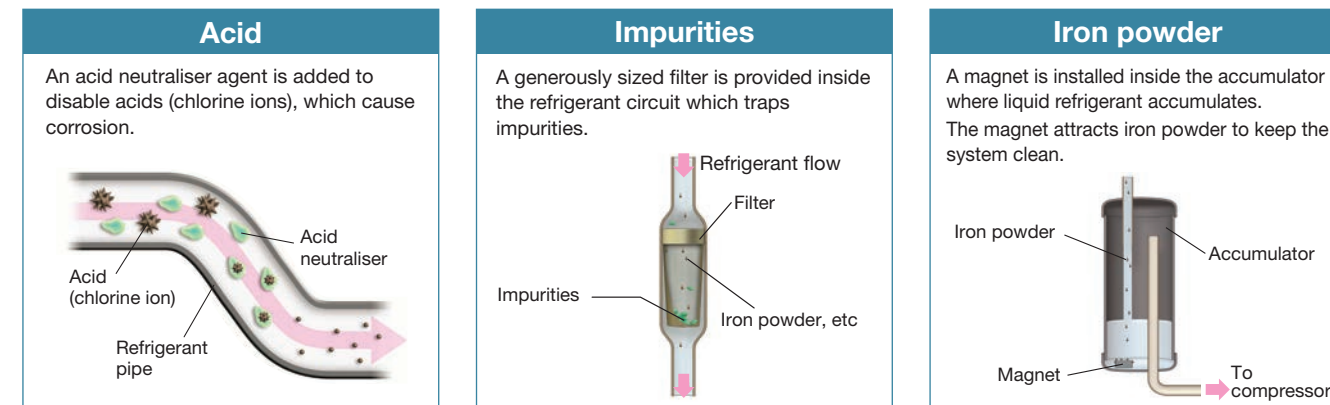


New technology that enables use of existing piping

New tested contamination collection method

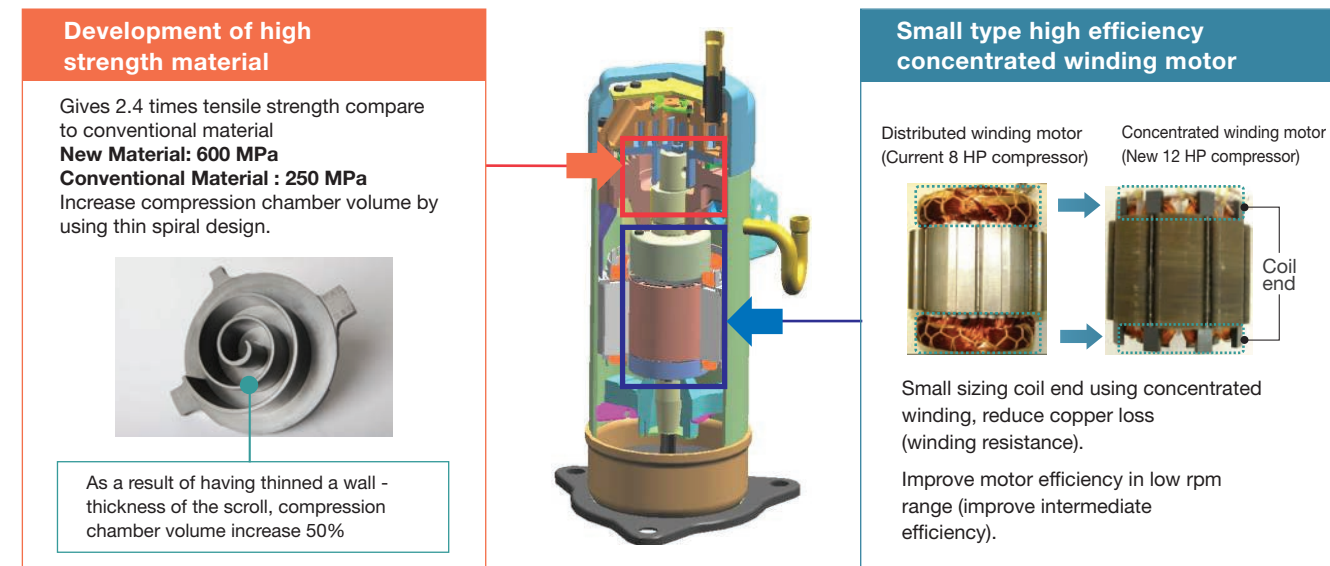
A new method collects contamination from existing piping, eliminating compressors and electric valves malfunction.

VRV IV Q series Only



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.

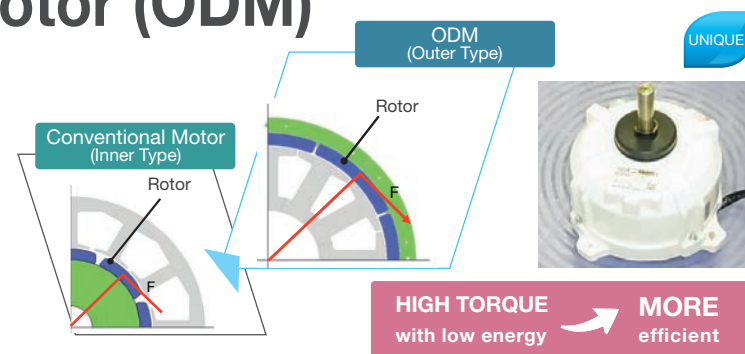


Outer Rotor DC Motor (ODM)

Only Daikin adapted ODM 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

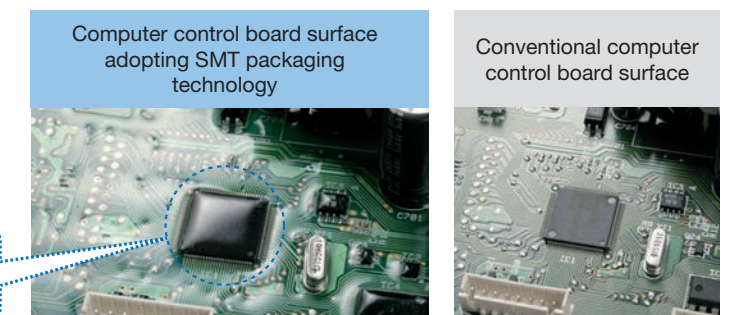
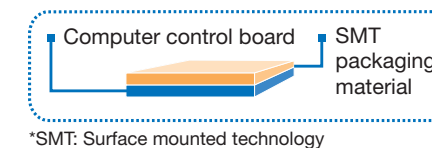
Improve performance by increasing heat exchanger area while maintaining the same installation space.



Various advanced control main PC board

SMT* packaging technology

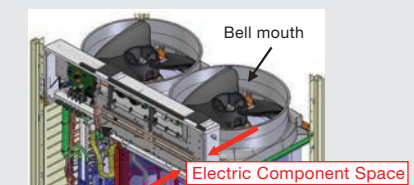
- SMT packaging technology adopted by the whole computer control panel improves the anti-clutter performance.
- Protects your computer boards from the adverse effect of sandy and humid weather.



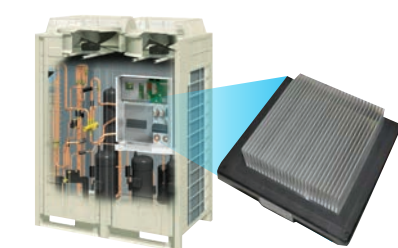
Refrigerant cooling technology, ensures stability of PCB temperature

Improved inner design to increase smooth airflow

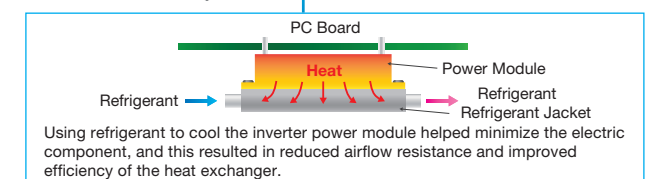
Downsize electric component, re-locate to dead space of bell mouth side to decrease airflow resistance.



VRV III Q series



VRV IV Q SERIES



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.


Enhanced lineup to 2 types

- With its enhanced lineup of 2 types and Standard and Space Saving types, VRV IV Q series outdoor units offer a high capacity up to 48 HP to meet an ever wider variety of needs.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system flexibility to a new level.
- With the outdoor unit capacity increased in increment of 2 HP, customers' needs can be precisely met.
- Outdoor units with anti-corrosion specifications (-E type on request) are designed specifically for use in areas which are subject to salt damage and atmospheric pollution.

Standard Type


●Single Outdoor Units

6, 8, 10, 12 HP



RQQ6TYM(E)
RQQ8TYM(E)
RQQ10TYM(E)
RQQ12TYM(E)


14, 16 HP



RQQ14TYM(E)
RQQ16TYM(E)


●Double Outdoor Units

18, 20, 22, 24 HP




RQQ18TNYM(E)
RQQ20TNYM(E)
RQQ22TNYM(E)
RQQ24TNYM(E)

26, 28 HP



RQQ26TNYM(E)
RQQ28TNYM(E)


30, 32 HP



RQQ30TNYM(E)
RQQ32TNYM(E)


●Triple Outdoor Units

34, 36 HP




RQQ34TNYM(E)
RQQ36TNYM(E)

38, 40 HP




RQQ38TNYM(E)
RQQ40TNYM(E)

42, 44 HP



RQQ42TNYM(E)
RQQ44TNYM(E)

46, 48 HP




RQQ46TNYM(E)
RQQ48TNYM(E)

Space Saving Type

●Single Outdoor Units


18, 20 HP



RQQ18TSYM(E)
RQQ20TSYM(E)


●Double Outdoor Units

30, 32 HP



RQQ30TSYM(E)
RQQ32TSYM(E)


34, 36, 38, 40 HP



RQQ34TSYM(E)
RQQ36TSYM(E)
RQQ38TSYM(E)
RQQ40TSYM(E)


●Triple Outdoor Units

42, 44 HP



RQQ42TSYM(E)
RQQ44TSYM(E)

46, 48 HP



RQQ46TSYM(E)
RQQ48TSYM(E)

Lineup





















Mo/C

New

New Lineup

HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Standard Type	New																					
Space Saving Type							New	New					New	New	New	New	New	New	New	New	New	New

Variety of indoor unit

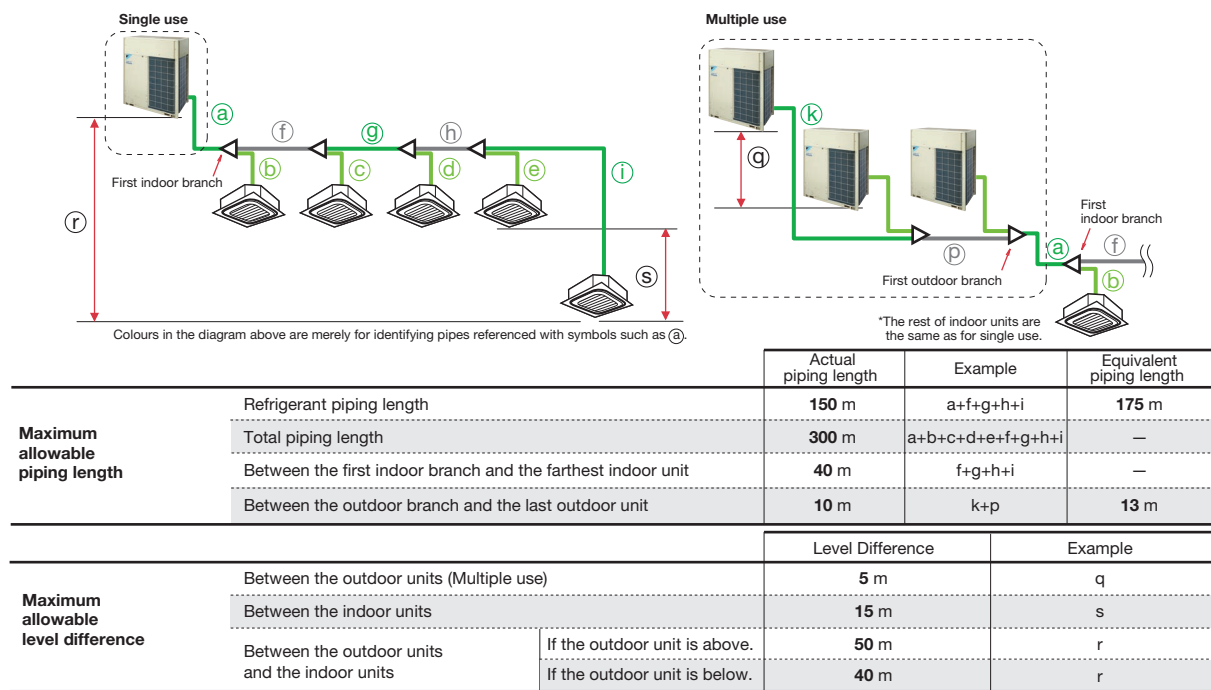
Type	Model Name	Capacity Range	Capacity Index																			
			20	25	32	40	50	63	71	80	100	125	140	200	250	400	500					
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFQ-SVM																					
Ceiling Mounted Cassette (Round Flow)	FXFQ-LUV1																					
Ceiling Mounted Cassette (Compact 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)																					
	FXDQ-PBVET (without drain pump)																					
	FXDQ-NBVE (with drain pump)																					
	FXDQ-NBVET (without drain pump)																					
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1																					
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE																					
Ceiling Mounted Duct	FXMQ-PVE																					
	FXMQ-MAVE																					
Outdoor-Air Processing Unit	FXMQ-MFV1																					
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	FXVQ-NY1																					
	FXVQ-NY16 (high static pressure type)																					
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Airflow rate 500-1000 m³/h																			
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h																			

* It is possible to keep R-22 indoor units from K-series and later version. It is not possible to combine old R-22 and new R-410A indoor units in one system due to incompatibility of communication.

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Piping limits for reuse of existing piping



Reusability of existing piping for VRV IV Q series

Type of piping	Capacity	Piping size													
		Liquid							Gas						
		φ6.4	φ9.5	φ12.7	φ15.9	φ19.1	φ22.2	φ12.7	φ15.9	φ19.1	φ22.2	φ25.4	φ28.6	φ34.9	φ41.3
Main piping	6 HP	x	S	●	x	x	x	x	x	S	●	●	x	x	x
	8 HP	x	S	●	x	x	x	x	x	S	●	●	x	x	x
	10 HP	x	S	●	x	x	x	x	x	S	●	●	x	x	x
	12 HP	x	x	S	●	x	x	x	x	x	x	S	●	x	x
	14 HP	x	x	S	●	x	x	x	x	x	x	S	●	x	x
	16 HP	x	x	S	●	x	x	x	x	x	x	S	●	x	x
	18 HP	x	x	x	S	●	x	x	x	x	x	S	●	x	x
	20 HP	x	x	x	S	●	x	x	x	x	x	S	●	x	x
	22 HP	x	x	x	S	●	x	x	x	x	x	S	●	x	x
	24 HP	x	x	x	S	●	x	x	x	x	x	S	●	x	x
	26 HP	x	x	x	x	S	●	x	x	x	x	x	S	●	x
	28 HP	x	x	x	x	S	●	x	x	x	x	x	S	●	x
	30 HP	x	x	x	x	S	●	x	x	x	x	x	S	●	x
	32 HP	x	x	x	x	S	●	x	x	x	x	x	S	●	x
	34 HP	x	x	x	x	S	●	x	x	x	x	x	S	●	x
	36 HP	x	x	x	x	S	●	x	x	x	x	x	S	●	x
	38 HP	x	x	x	x	S	●	x	x	x	x	x	S	●	x
	40 HP	x	x	x	x	S	●	x	x	x	x	x	S	●	x
	42 HP	x	x	x	x	S	●	x	x	x	x	x	S	●	x
	44 HP	x	x	x	x	S	●	x	x	x	x	x	S	●	x
From REFNET to REFNET ^{*1}	< 100	x	S	●	x	x	x	x	S	●	●	x	x	x	x
	100 ≤ X < 150	x	S	●	x	x	x	x	S	●	●	x	x	x	x
	150 ≤ X < 160	x	S	●	x	x	x	x	S	●	●	x	x	x	x
	160 ≤ X < 200	x	S	●	x	x	x	x	S	●	●	x	x	x	x
	200 ≤ X < 290	x	S	●	x	x	x	x	S	●	●	x	x	x	x
	290 ≤ X < 330	x	x	S	●	x	x	x	x	x	S	●	x	x	x
	330 ≤ X < 420	x	x	S	●	x	x	x	x	x	S	●	x	x	x
	420 ≤ X < 480	x	x	S	●	x	x	x	x	x	S	●	x	x	x
	480 ≤ X < 640	x	x	S	●	x	x	x	x	x	S	●	x	x	x
	640 ≤ X < 900	x	x	x	S	●	x	x	x	x	S	●	x	x	x
From REFNET to indoor unit ^{*2}	20-40 class	S	●	x	x	x	x	S	●	x	x	x	x	x	x
	50 class	S	●	x	x	x	x	S	●	x	x	x	x	x	x
	63 class	x	S	●	x	x	x	x	S	●	x	x	x	x	x
	80 class	x	S	●	x	x	x	x	S	●	x	x	x	x	x
	100-125 class	x	S	●	x	x	x	x	S	●	x	x	x	x	x
	140 class	x	S	●	x	x	x	x	S	●	x	x	x	x	x
	200 class	x	S	●	x	x	x	x	S	●	x	x	x	x	x
	250 class	x	S	●	x	x	x	x	S	●	x	x	x	x	x

● : Piping size of conventional R-22 model
○ : Piping size of conventional R-410A model
S : Standard piping size of VRV IV Q series
x : Not possible

*1 Piping between REFNETs depends on total capacity index of indoor units connected below each REFNET. It cannot exceed piping size of upstream side.
*2 Piping from REFNET to indoor unit depends on the capacity of the connected indoor unit. It cannot exceed piping size of upstream side.

Outdoor Unit Combinations

Standard Type

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit ^{*1}	Total capacity index of connectable indoor units ^{*3}	Maximum number of connectable indoor units ^{*2}
6	16.0	150	RQQ6T	RQQ6T	—	75 to 195	9
8	22.4	200	RQQ8T	RQQ8T	—	100 to 260	13
10	28.0	250	RQQ10T	RQQ10T	—	125 to 325	16
12	33.5	300	RQQ12T	RQQ12T	—	150 to 390	19
14	40.0	350	RQQ14T	RQQ14T	—	175 to 455	22
16	45.0	400	RQQ16T	RQQ16T	—	200 to 520	26
18	50.4	450	RQQ18TN	RQQ8T + RQQ10T	BHFP22P100	225 to 585	29
20	55.9	500	RQQ20TN	RQQ8T + RQQ12T		250 to 650	32
22	61.5	550	RQQ22TN	RQQ10T + RQQ12T		275 to 715	35
24	67.0	600	RQQ24TN	RQQ12T × 2		300 to 780	39
26	73.5	650	RQQ26TN	RQQ12T + RQQ14T		325 to 845	42
28	78.5	700	RQQ28TN	RQQ12T + RQQ16T		350 to 910	45
30	85.0	750	RQQ30TN	RQQ14T + RQQ16T	BHFP22P151	375 to 975	48
32	90.0	800	RQQ32TN	RQQ14T + RQQ18T		400 to 1,040	52
34	95.0	850	RQQ34TN	RQQ10T + RQQ12T × 2		425 to 1,105	55
36	101	900	RQQ36TN	RQQ12T × 3		450 to 1,170	58
38	106	950	RQQ38TN	RQQ8T + RQQ12T + RQQ18T		475 to 1,235	61
40	112	1,000	RQQ40TN	RQQ12T × 2 + RQQ16T		500 to 1,300	64
42	119	1,050	RQQ42TN	RQQ12T + RQQ14T + RQQ16T		525 to 1,365	
44	124	1,100	RQQ44TN	RQQ12T + RQQ16T × 2		550 to 1,430	
46	130	1,150	RQQ46TN	RQQ14T × 2 + RQQ18T		575 to 1,495	
48	135	1,200	RQQ48TN	RQQ14T + RQQ16T + RQQ18T		600 to 1,560	

Notes: *1 For multiple connection of 18 HP systems and above, the outdoor unit multi connection piping kit (separately sold) is required.
*2 Total capacity index of connectable indoor units must be 50%~130% of the capacity index of the outdoor units.
*3 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. And the connection ratio must not exceed 100%.

Space Saving Type

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit ^{*1}	Total capacity index of connectable indoor units ^{*3}	Maximum number of connectable indoor units ^{*2}
18	50.0	450	RQQ18T	RQQ18T	—	225 to 585	29
20	56.0	500	RQQ20T	RQQ20T	—	250 to 650	32
30	83.5	750	RQQ30TS	RQQ12T + RQQ18T	BHFP22P100	375 to 975	48
32	89.5	800	RQQ32TS	RQQ12T + RQQ20T		400 to 1,040	52
34	95.0	850	RQQ34TS	RQQ16T + RQQ18T		425 to 1,105	55
36	100	900	RQQ36TS	RQQ18T × 2		450 to 1,170	58
38	106	950	RQQ38TS	RQQ18T + RQQ20T		475 to 1,235	61
40	112	1,000	RQQ40TS	RQQ20T × 2	BHFP22P151	500 to 1,300	64
42	117	1,050	RQQ42TS	RQQ12T × 2 + RQQ18T		525 to 1,365	
44	123	1,100	RQQ44TS	RQQ12T × 2 + RQQ20T		550 to 1,430	
46	129	1,150	RQQ46TS	RQQ12T + RQQ16T + RQQ18T		575 to 1,495	
48	134	1,200	RQQ48TS	RQQ12T + RQQ18T × 2		600 to 1,560	

Notes: *1 For multiple connection of 30 HP and above the outdoor unit multi connection piping kit (separately sold) is required.
*2 Total capacity index of connectable indoor units must be 50%~130% of the capacity index of the outdoor units.
*3 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. And the connection ratio must not exceed 100%.

Outdoor Units

Standard Type




MODEL			RQQ6TYM(E)	RQQ8TYM(E)	RQQ10TYM(E)	RQQ12TYM(E)	RQQ14TYM(E)	RQQ16TYM(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	φ 9.5 (Brazing)			φ 12.7 (Brazing)		
	Gas	mm	φ 19.1 (Brazing)		φ 22.2 (Brazing)	φ 28.6 (Brazing)		

Notes: 1. Models with (E) are the outdoor units with anti-corrosion specifications. Please refer to Engineering Data Book for details.
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.

RQQ18TNYM(E)	RQQ20TNYM(E)	RQQ22TNYM(E)	RQQ24TNYM(E)	RQQ26TNYM(E)	RQQ28TNYM(E)	RQQ30TNYM(E)	RQQ32TNYM(E)
RQQ8TYM(E)	RQQ8TYM(E)	RQQ10TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ14TYM(E)	RQQ14TYM(E)
RQQ10TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ14TYM(E)	RQQ16TYM(E)	RQQ16TYM(E)	RQQ18TYM(E)
—	—	—	—	—	—	—	—
3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz							
43,300	48,100	52,900	57,600	63,200	67,500	73,100	77,400
172,000	191,000	210,000	229,000	251,000	268,000	290,000	307,000
50.4	55.9	61.5	67.0	73.5	78.5	85.0	90.0
12.1	14.0	15.7	17.6	19.5	21.8	23.7	26.1
8-100	8-100	8-100	8-100	6-100	6-100	5-100	5-100
Ivory white (5Y7.5/1)							
Hermetically Sealed Scroll Type							
(3.4X1)+ (4.1X1)	(3.4X1)+ (5.2X1)	(4.1X1)+ (5.2X1)	(5.2X1)+ (5.2X1)	(5.2X1)+ (2.9X1)+ (3.3X1)	(5.2X1)+(3.6X1)+ (3.7X1)	(2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1)	(2.9X1)+(3.3X1)+ (4.4X1)+(4.0X1)
157+165	157+178	165+178	178+178	178+233	178+233	233+233	233+233
(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)+ (1,657X1,240X765)	(1,657X1,240X765)+ (1,657X1,240X765)
185+195	185+195	195+195	195+195	195+285	195+285	285+285	285+285
60	61	61	62	63	63	64	64
-5 to 49							
R-410A							
5.9+6.0	5.9+6.3	6.0+6.3	6.3+6.3	6.3+10.3	6.3+10.4	10.3+10.4	10.3+10.5
φ 15.9 (Brazing)	φ 15.9 (Brazing)	φ 15.9 (Brazing)	φ 15.9 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)
φ 28.6 (Brazing)	φ 28.6 (Brazing)	φ 28.6 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)


Outdoor Units


Standard Type

								
MODEL			RQQ34TNYM(E)	RQQ36TNYM(E)	RQQ38TNYM(E)	RQQ40TNYM(E)	RQQ42TNYM(E)	RQQ44TNYM(E)
Combination units			RQQ10TYM(E)	RQQ12TYM(E)	RQQ8TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)
			RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ14TYM(E)	RQQ16TYM(E)
			RQQ12TYM(E)	RQQ12TYM(E)	RQQ18TYM(E)	RQQ16TYM(E)	RQQ16TYM(E)	RQQ16TYM(E)
Power supply			3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz					
Cooling capacity		kcal/h	81,700	86,900	91,200	96,300	102,000	107,000
		Btu/h	324,000	345,000	362,000	382,000	406,000	423,000
		kW	95.0	101	106	112	119	124
Power consumption		kW	24.5	26.5	29.4	30.6	32.5	34.8
Capacity control		%	5-100	5-100	4-100	4-100	4-100	4-100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll Type					
	Motor output	kW	(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)
Airflow rate		m³/min	165+178+178	178+178+178	157+178+233	178+178+233	178+233+233	178+233+233
Dimensions (HxWxD)		mm	(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)
Machine weight		kg	195+195+195	195+195+195	185+195+285	195+195+285	195+285+285	195+285+285
Sound level		dB(A)	63	64	64	65	65	65
Operation range		°CDB	-5 to 49					
Refrigerant	Type		R-410A					
	Charge	kg	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
Piping connections	Liquid	mm	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)
	Gas	mm	φ 34.9 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)

Notes: 1. Models with (E) are the outdoor units with anti-corrosion specifications. Please refer to Engineering Data Book for details.
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



	
RQQ46TNYM(E)	RQQ48TNYM(E)
RQQ14TYM(E)	RQQ14TYM(E)
RQQ14TYM(E)	RQQ16TYM(E)
RQQ18TYM(E)	RQQ18TYM(E)
3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz	
112,000	116,000
444,000	461,000
130	135
36.8	39.1
3-100	3-100
Ivory white (5Y7.5/1)	
Hermetically Sealed Scroll Type	
(2.9X1)+(3.3X1)+(2.9X1)+(3.3X1)+(4.4X1)+(4.0X1)	(2.9X1)+(3.3X1)+(3.6X1)+(3.7X1)+(4.4X1)+(4.0X1)
233+233+233	233+233+233
(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)	(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)
285+285+285	285+285+285
66	66
-5 to 49	
R-410A	
10.3+10.3+10.5	10.3+10.4+10.5
φ 19.1 (Brazing)	φ 19.1 (Brazing)
φ 41.3 (Brazing)	φ 41.3 (Brazing)

				
MODEL			RQQ18TYM(E)	RQQ20TYM(E)
Combination units			—	—
Power supply			3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz	
Cooling capacity		kcal/h	43,000	48,200
		Btu/h	171,000	191,000
		kW	50.0	56.0
Power consumption		kW	15.4	18.0
Capacity control		%	10-100	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)
Airflow rate		m³/min	233	268
Dimensions (HxWxD)		mm	1,657X1,240X765	1,657X1,240X765
Machine weight		kg	285	320
Sound level		dB(A)	62	65
Operation range		°CDB	-5 to 49	
Refrigerant	Type		R-410A	
	Charge	kg	10.5	11.8
Piping connections	Liquid	mm	φ15.9 (Brazing)	φ15.9 (Brazing)
	Gas	mm	φ28.6 (Brazing)	φ28.6 (Brazing)




Notes: 1. Models with (E) are the outdoor units with anti-corrosion specifications. Please refer to Engineering Data Book for details.
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.

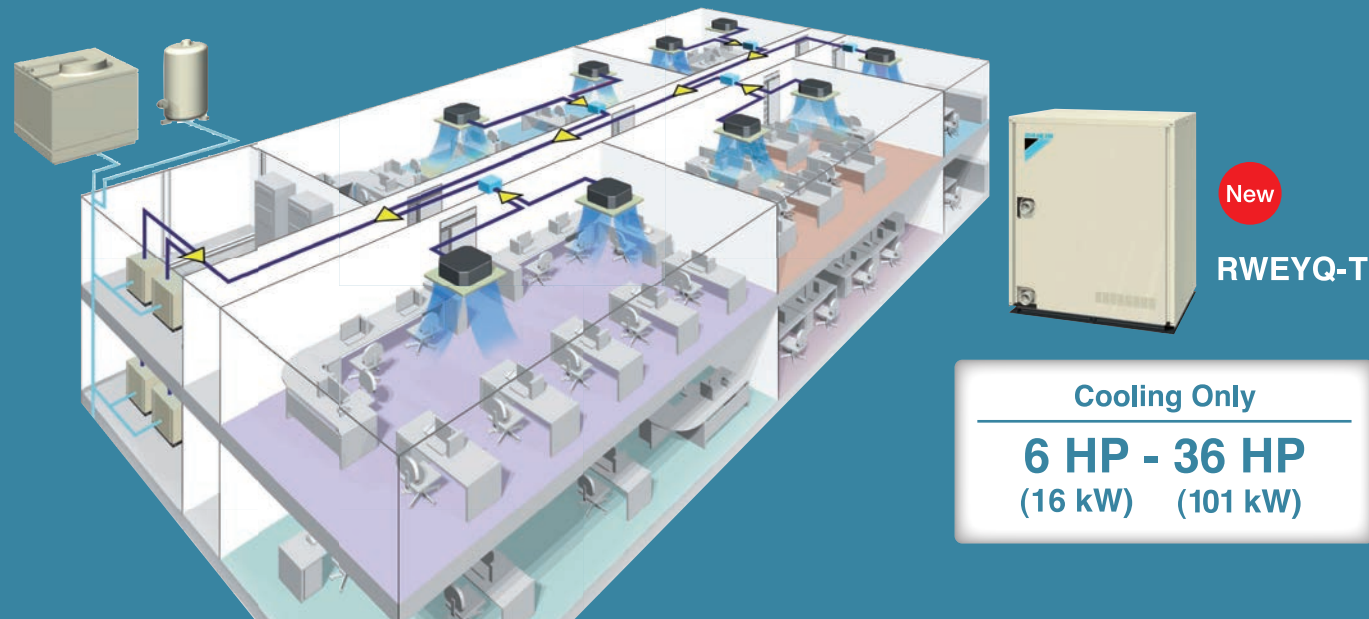
Outdoor Units

Space Saving Type

						
MODEL			RQQ30TSYM(E)	RQQ32TSYM(E)	RQQ34TSYM(E)	RQQ36TSYM(E)
Combination units			RQQ12TYM(E)	RQQ12TYM(E)	RQQ16TYM(E)	RQQ18TYM(E)
			RQQ18TYM(E)	RQQ20TYM(E)	RQQ18TYM(E)	RQQ18TYM(E)
			—	—	—	—
Power supply			3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz			
Cooling capacity		kcal/h	71,800	77,000	81,700	86,000
		Btu/h	285,000	305,000	324,000	341,000
		kW	83.5	89.5	95.0	100
Power consumption		kW	24.2	26.8	28.4	30.8
Capacity control		%	6-100	5-100	5-100	5-100
Casing colour			Ivory white (5Y7.5/1)			
Compressor	Type		Hermetically Sealed Scroll Type			
	Motor output	kW	(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)
Airflow rate		m³/min	178+233	178+268	233+233	233+233
Dimensions (H×W×D)		mm	(1,657×930×765)+ (1,657×1,240×765)	(1,657×930×765)+ (1,657×1,240×765)	(1,657×1,240×765)+ (1,657×1,240×765)	(1,657×1,240×765)+ (1,657×1,240×765)
Machine weight		kg	195+285	195+320	285+285	285+285
Sound level		dB(A)	64	66	65	65
Operation range		°CDB	-5 to 49			
Refrigerant	Type		R-410A			
	Charge	kg	6.3+10.5	6.3+11.8	10.4+10.5	10.5+10.5
Piping connections	Liquid	mm	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)
	Gas	mm	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 41.3 (Brazing)

Notes: 1. Models with (E) are the outdoor units with anti-corrosion specifications. Please refer to Engineering Data Book for details.
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.

					
RQQ38TSYM(E)	RQQ40TSYM(E)	RQQ42TSYM(E)	RQQ44TSYM(E)	RQQ46TSYM(E)	RQQ48TSYM(E)
RQQ18TYM(E)	RQQ20TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)
RQQ20TYM(E)	RQQ20TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ16TYM(E)	RQQ18TYM(E)
—	—	RQQ18TYM(E)	RQQ20TYM(E)	RQQ18TYM(E)	RQQ18TYM(E)
3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz					
91,200	96,300	101,000	106,000	111,000	115,000
362,000	382,000	399,000	420,000	440,000	457,000
106	112	117	123	129	134
33.4	36.0	33.0	35.6	37.2	39.6
4-100	4-100	4-100	4-100	4-100	4-100
Ivory white (5Y7.5/1)					
Hermetically Sealed Scroll Type					
(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)
233+268	268+268	178+178+233	178+178+268	178+233+233	178+233+233
(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)
285+320	320+320	195+195+285	195+195+320	195+285+285	195+285+285
67	68	65	67	66	66
-5 to 49					
R-410A					
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
φ19.1 (Brazing)	φ19.1 (Brazing)	φ19.1 (Brazing)	φ19.1 (Brazing)	φ19.1 (Brazing)	φ19.1 (Brazing)
φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)

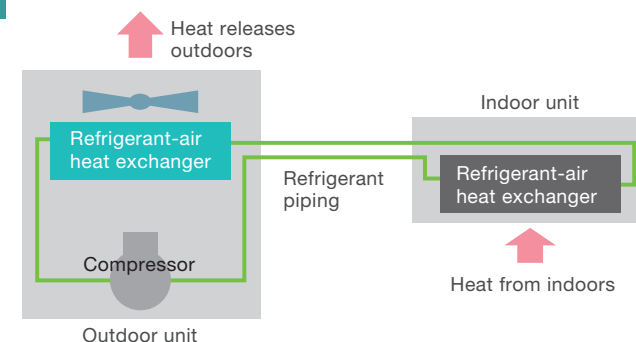


A water cooled intelligent individual air conditioning system suitable for tall multi-storeyed buildings.

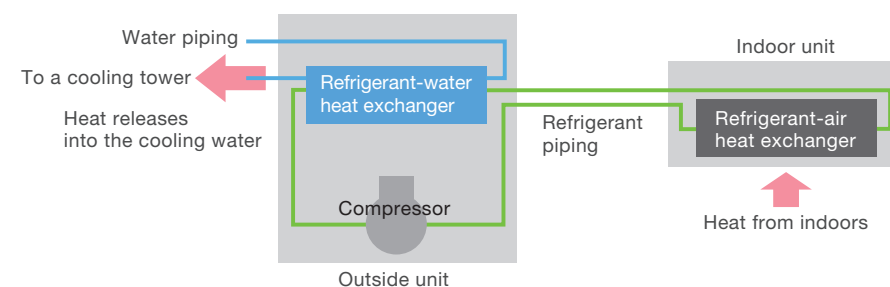
What is a water cooled system?

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

Air cooled system



Water cooled system



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

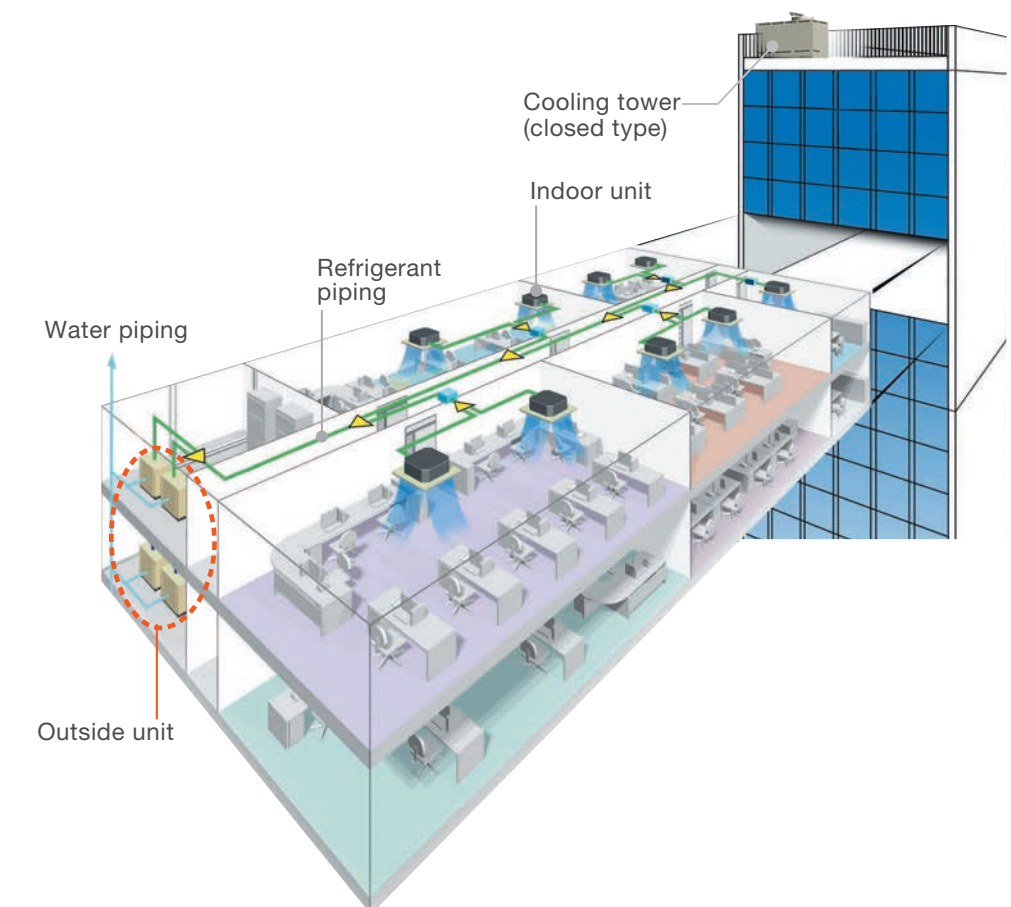
- Outside units can be installed indoors, for example, on basement floors.

→ **High installation flexibility**

- The air conditioning operation is stable even when the outdoor air temperature is high.

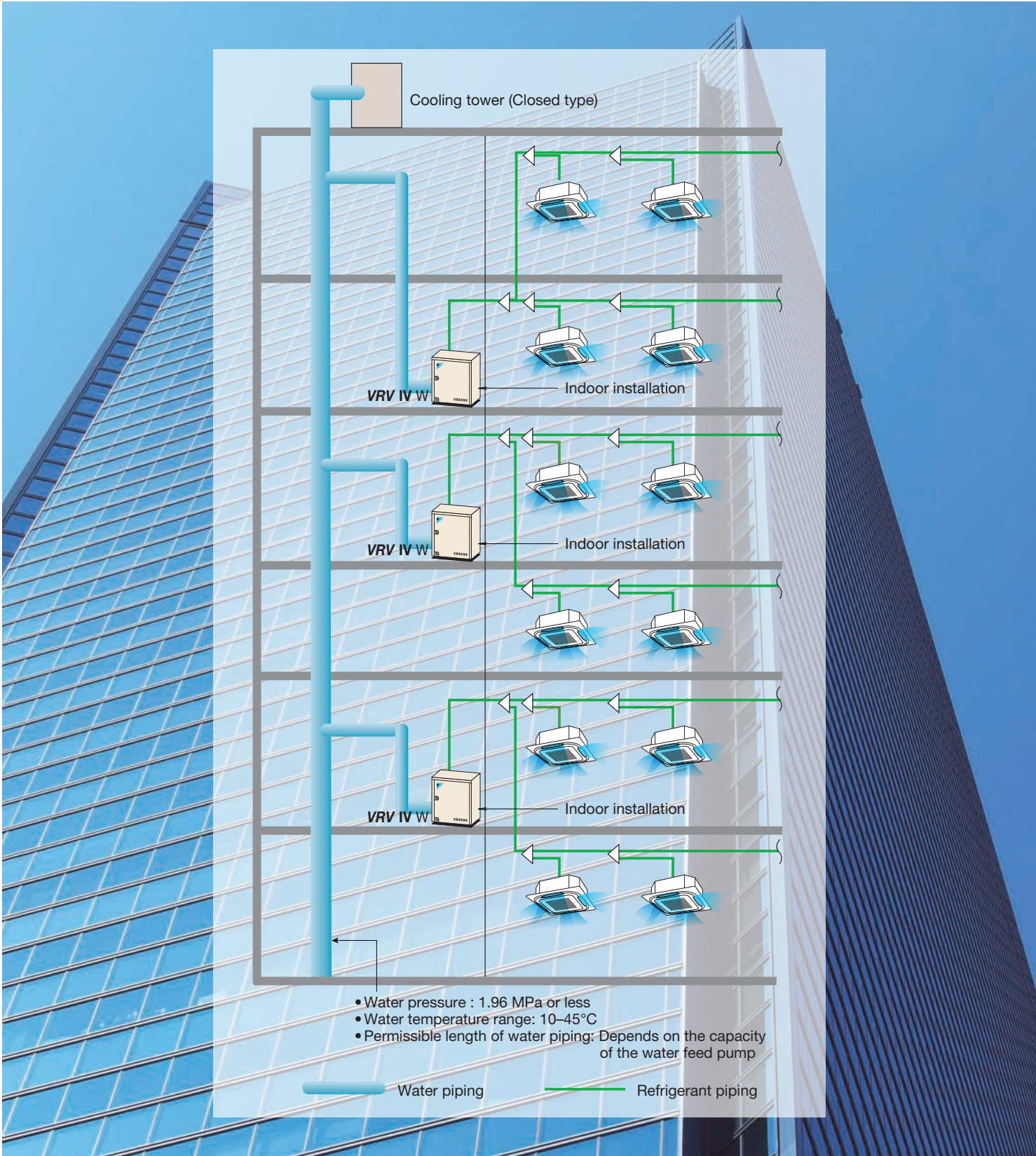
→ **Improved comfort**

The VRV IV W series combines the characteristics of a water cooled system with the VRV system.



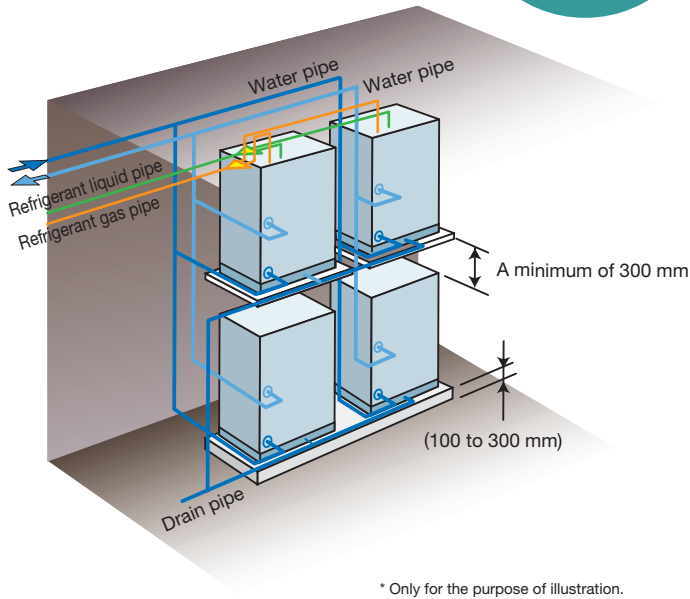
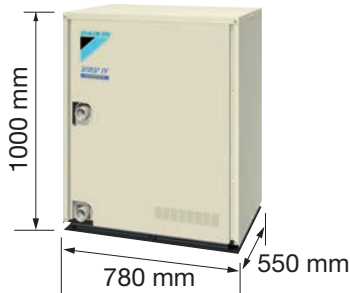
- Individual air conditioning is achieved via on-demand operation in each room.
- Outside units can be installed anywhere in a building if they can be connected with water piping.
- The length of the refrigerant piping can be minimized by installing outside units in proximity to indoor units.
[The system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

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



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

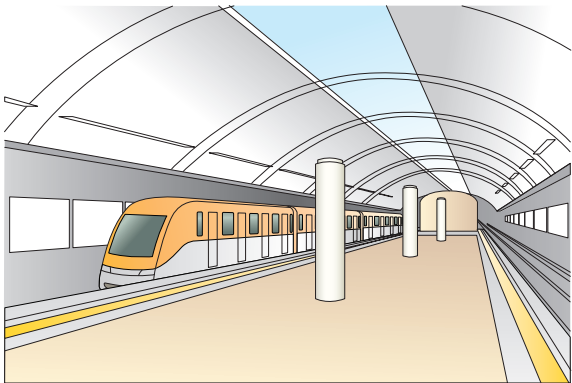
Compact outside units can be easily installed in the machine rooms on each floor. This helps overcome the restriction on differences in height of refrigerant piping. Individual air conditioning can be easily provided in high-rise buildings using this **VRV** system.



VRV IV W SERIES

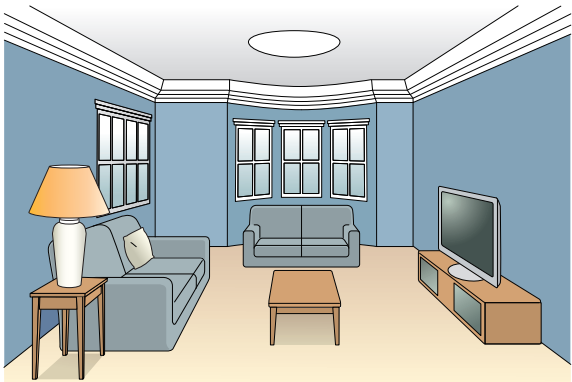
Easy to install in underground shopping malls and subway systems

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

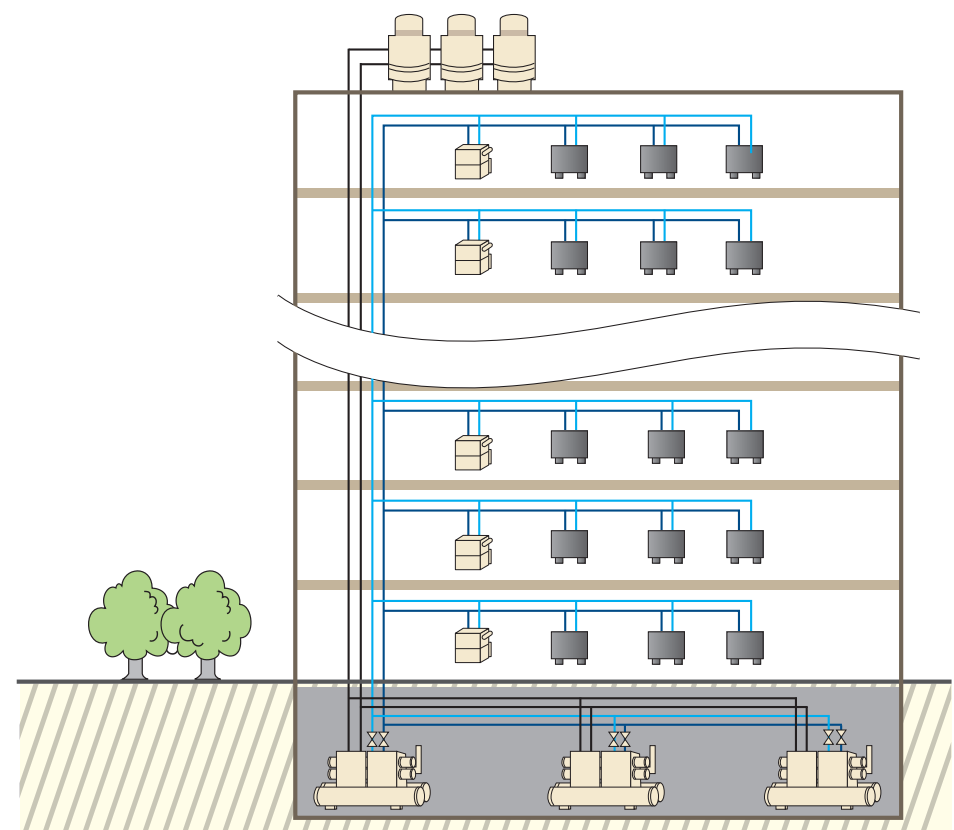


Also recommended for condominiums and detached houses

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



■ Rising problems for old, conventional water system



Why is renovation necessary?

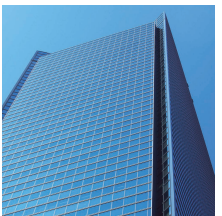
- 1 As equipment ages, its air conditioning capacity weakens with each passing year.
- 2 With frequent breakdowns in the outside unit, normal use of air conditioners is unachievable.
- 3 The maintenance cost for the equipment keeps rising.
- 4 The longer the equipment serves, its noise becomes louder.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



Troublesome issues in renovation?

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

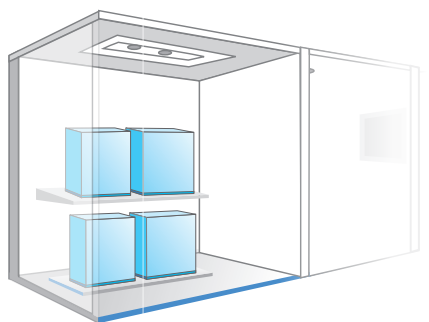
■ A Flexible System, Convenient for Expansion/Renovation



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

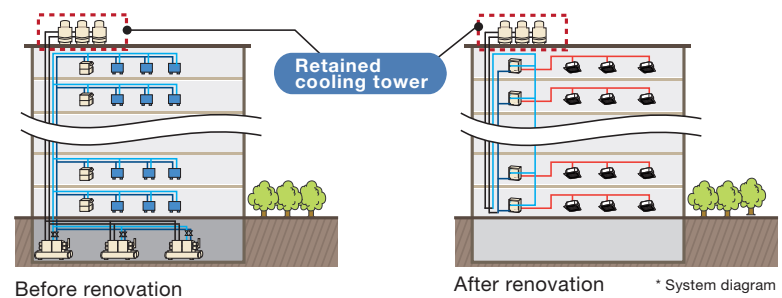
1 Indoor installation solves the puzzle of proper placement of outdoor units

The outside units of the water cooled **VRV IV W** series don't have necessity to direct heat exchanging with outdoor air. This feature makes it possible to place the outside unit inside the building, which greatly extends design flexibility and makes it easier to adapt to different types of buildings and open to various kinds of creative building exteriors.



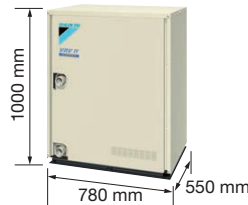
2 Part of the old system can be retained for cost reduction

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

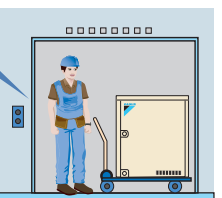


3 The compact outside units facilitate the renovation process and saves space for the outside unit area

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

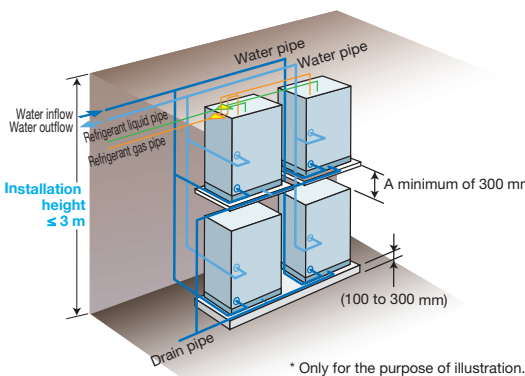


All outside units and indoor units can be transported by elevator

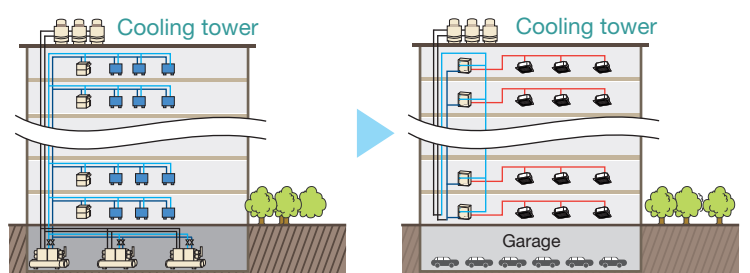


- The modular design featured by the water cooled **VRV IV W** series enables a free and flexible configuration of the outside units. Outside units can be arranged with one on top of another, saving space for other purposes.

Stacking up of the outside units



Saving more space for other purposes



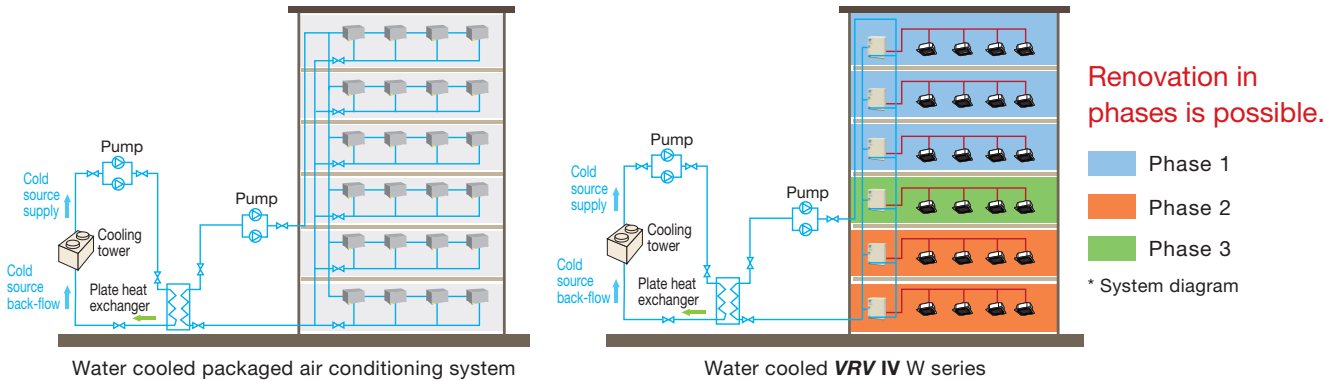
With a conventional central air conditioning system, the outside units take up a disproportionately large amount of space for installation.

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

* System diagram

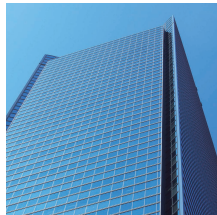
4 Floor by floor renovation without disturbing other tenants

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



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

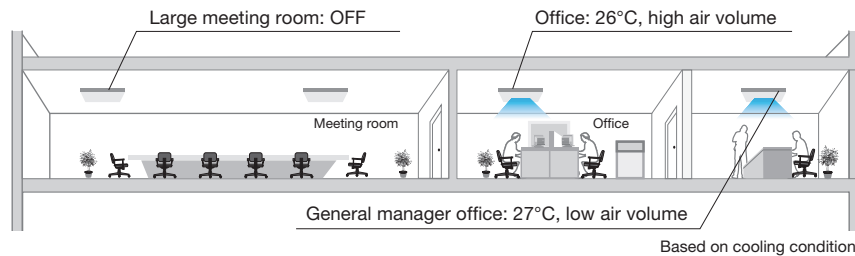
The outside units and indoor units of the water cooled **VRV IV W** series are connected by refrigerant pipes. As the **VRV** indoor units and the diameter of refrigerant pipes are significantly smaller than duct and water pipes, less ceiling space is occupied and more floor height is saved. Less work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



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

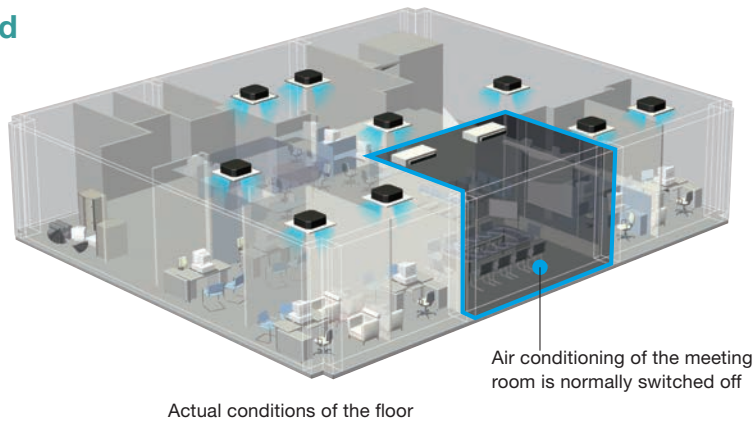
1 Independent control provides greater comfort and convenience

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



2 Higher efficiency with partial load

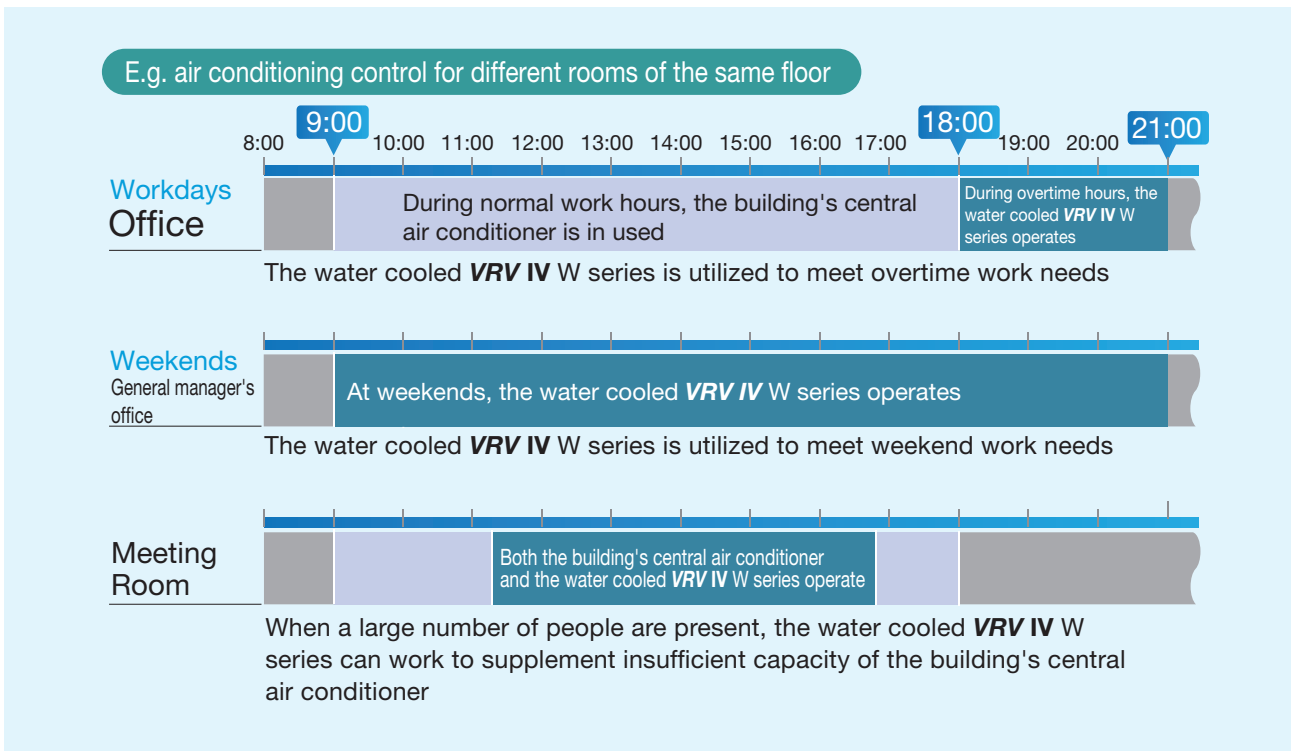
In actual operation, an air conditioning system's load may vary due to external climate change or variation of indoor unit operation rate, making the air conditioning system work in a partial load operation most of the time. By virtue of Daikin's advanced DC inverter technology and advanced refrigerant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



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

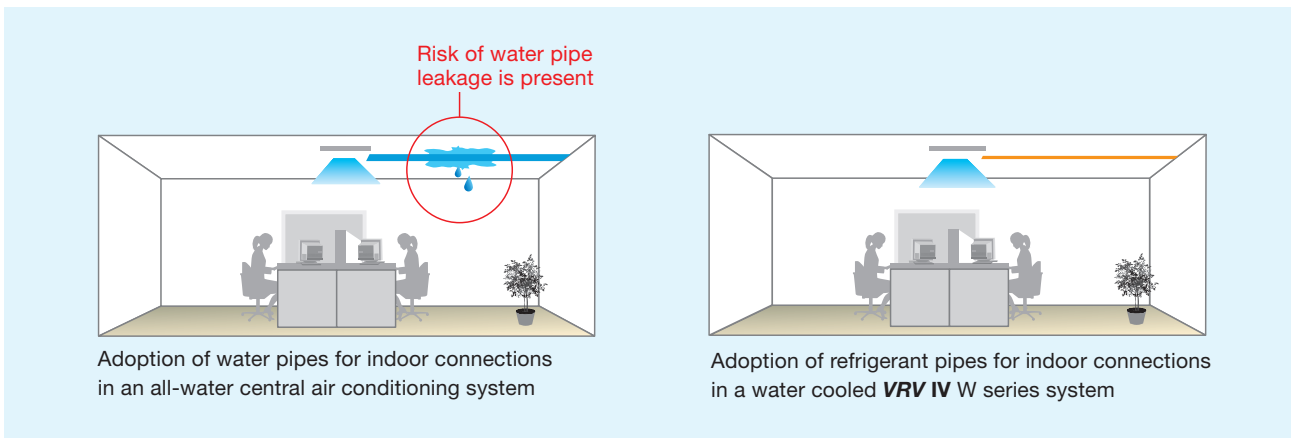
When teaming up with a conventional central air conditioning system, the water cooled **VRV IV W** series can easily handle the air conditioning needs for working after-hours while the building's central air conditioner can be utilized during normal work hours. The water cooled **VRV IV W** series can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

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



4 Connection using refrigerant pipes eliminate the risk of water leakage

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



■ Compact and lightweight

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

A weight of 146 kg and height of 1,000 mm make it possible for installation in buildings with limited space, or where space is unavailable for outdoor units.

This makes the system ideal for places that doesn't have area outside—such as underground malls.

* The unit is designed for indoor installation only.



VRV III W series
24 HP(8 HP+8 HP+8 HP)



VRV IV W SERIES
24 HP(12 HP+12 HP)



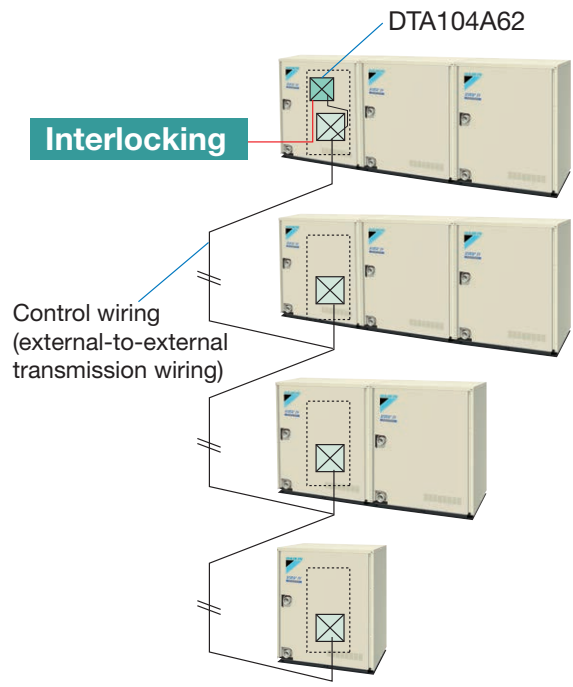
Footprint	1.29 m ²	→	0.86 m ²	33% Decrease
Product Weight	447 kg	→	294 kg	34% Decrease

■ Enhanced usability

Centralised interlocking function

Centralised interlocking input operate by using an external control adaptor (DTA104A62).

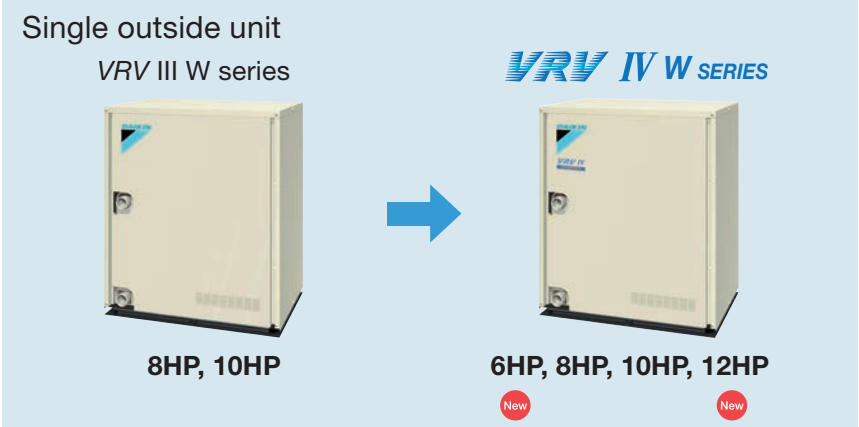
Using one external control adaptor circuit board makes centralised interlocking input to multiple units within the same water system possible.



■ Enhanced lineup

Wider capacity range from 6 to 36 HP

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



VRV IV W SERIES	6,8,10,12 HP	14,16,18,20,22,24 HP	26,28,32,34,36 HP
	New RWEYQ6TYM RWEYQ8TYM RWEYQ10TYM New RWEYQ12TYM	New RWEYQ14TYM RWEYQ16TYM RWEYQ18TYM New RWEYQ20TYM New RWEYQ22TYM RWEYQ24TYM	RWEYQ26TYM RWEYQ28TYM RWEYQ30TYM New RWEYQ32TYM New RWEYQ34TYM New RWEYQ36TYM

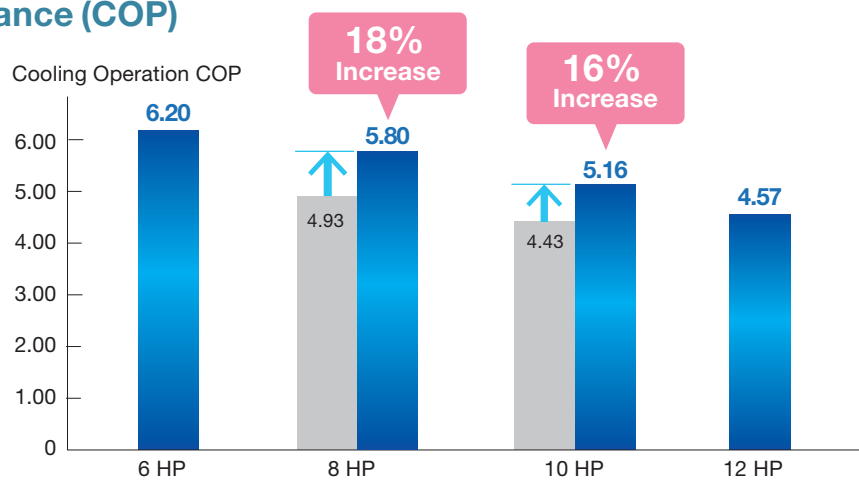
Capacity Range	HP kW	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
		16.0	22.4	28.0	33.5	38.4	44.8	50.4	56.0	61.5	67.0	72.8	78.4	84.0	89.4	95.0	101
Conventional model VRV III W series			●	●			●	●	●		●	●	●	●			
VRV IV W SERIES		New	●	●	New	New	●	●	●	New	●	●	●	●	New	New	New

● Mo/C ● New Lineup

■ Energy saving

Higher Coefficient of Performance (COP)

It has become essential for air conditioning manufacturers to develop systems that provide high energy savings. At Daikin, we have made great efforts for this purpose, **VRV IV W** series delivers highly efficient performance, contributing to high energy savings.



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

State-of-the-art energy saving technology

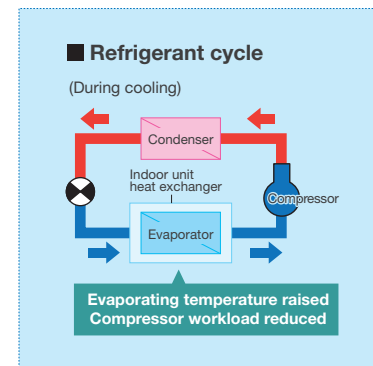
Customise your VRV for optimal annual efficiency

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

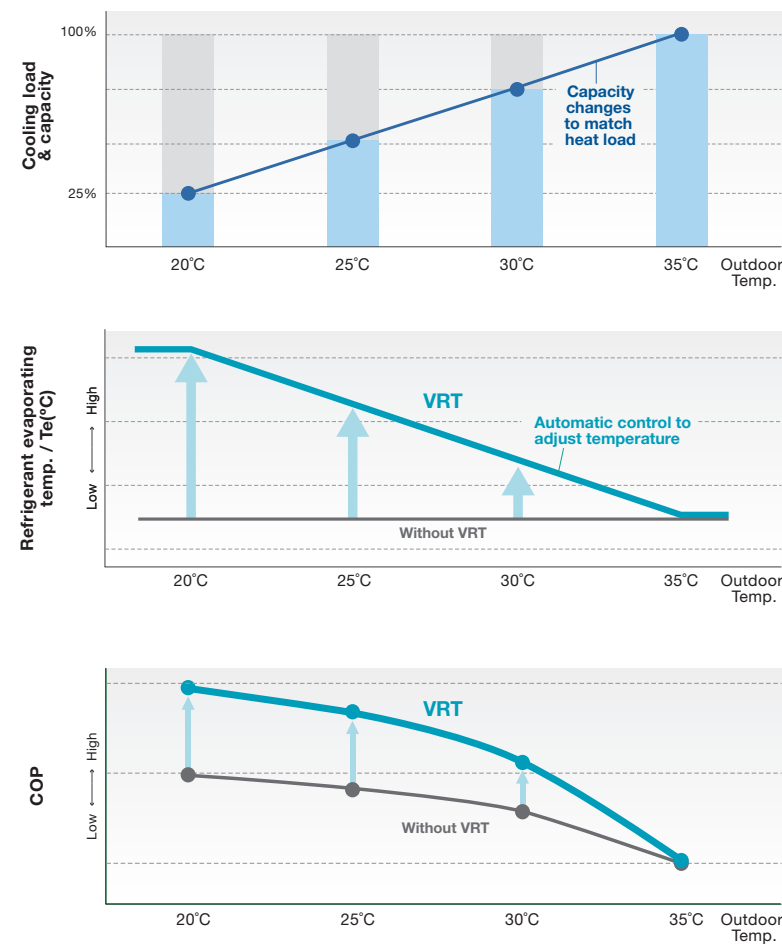


How is energy reduced?

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



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



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

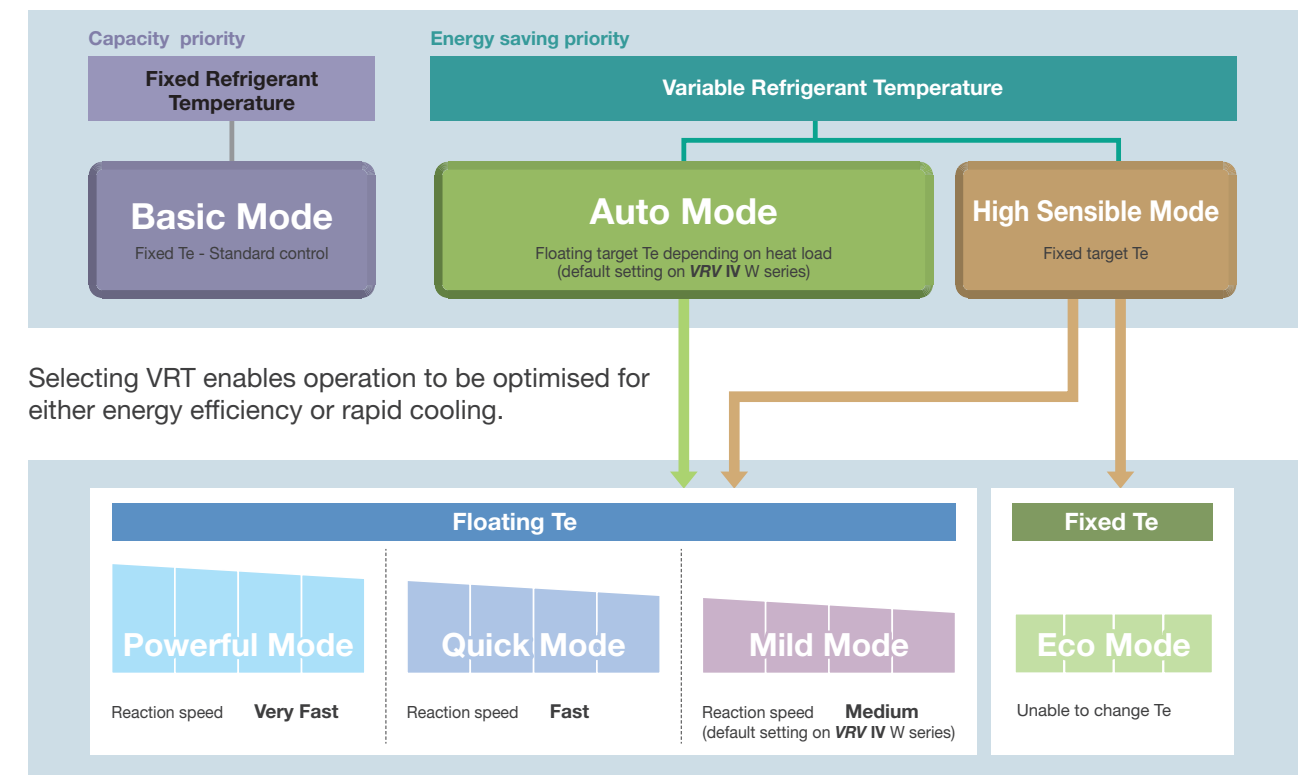
In case of fixed evaporating temperature, excessive cooling, thermo on-off loss, and other inefficiencies occur.

Automatic control adjusts evaporating temperature to heat load change.

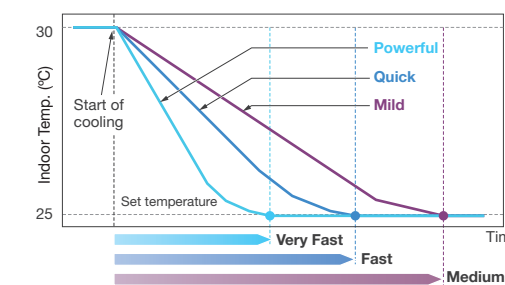
Energy efficiency is improved without sacrificing comfort.

Fine control to match user preference available through mode selection

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



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

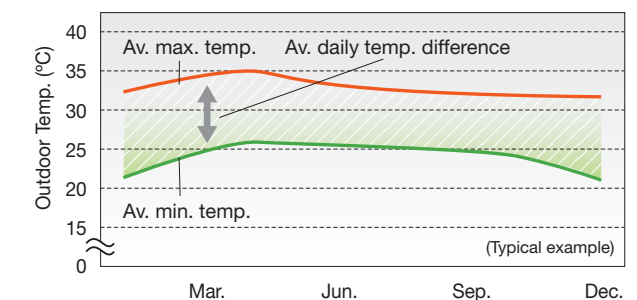


Powerful mode	<ul style="list-style-type: none"> Can boost capacity above 100% if needed. The refrigerant temperature can go lower in cooling than the set minimum. Gives priority to very fast reaction speed. The refrigerant temperature goes down fast to keep the room setpoint stable.
Quick mode	<ul style="list-style-type: none"> Gives priority to fast reaction speed. The refrigerant temperature goes down fast to keep the room setpoint stable.
Mild mode	<ul style="list-style-type: none"> Gives priority to efficiency. The refrigerant temperature goes down gradually giving priority to the efficiency of the system instead of the reaction speed.

Recommended to use in these situations

Cooling only areas with different daily temperature.

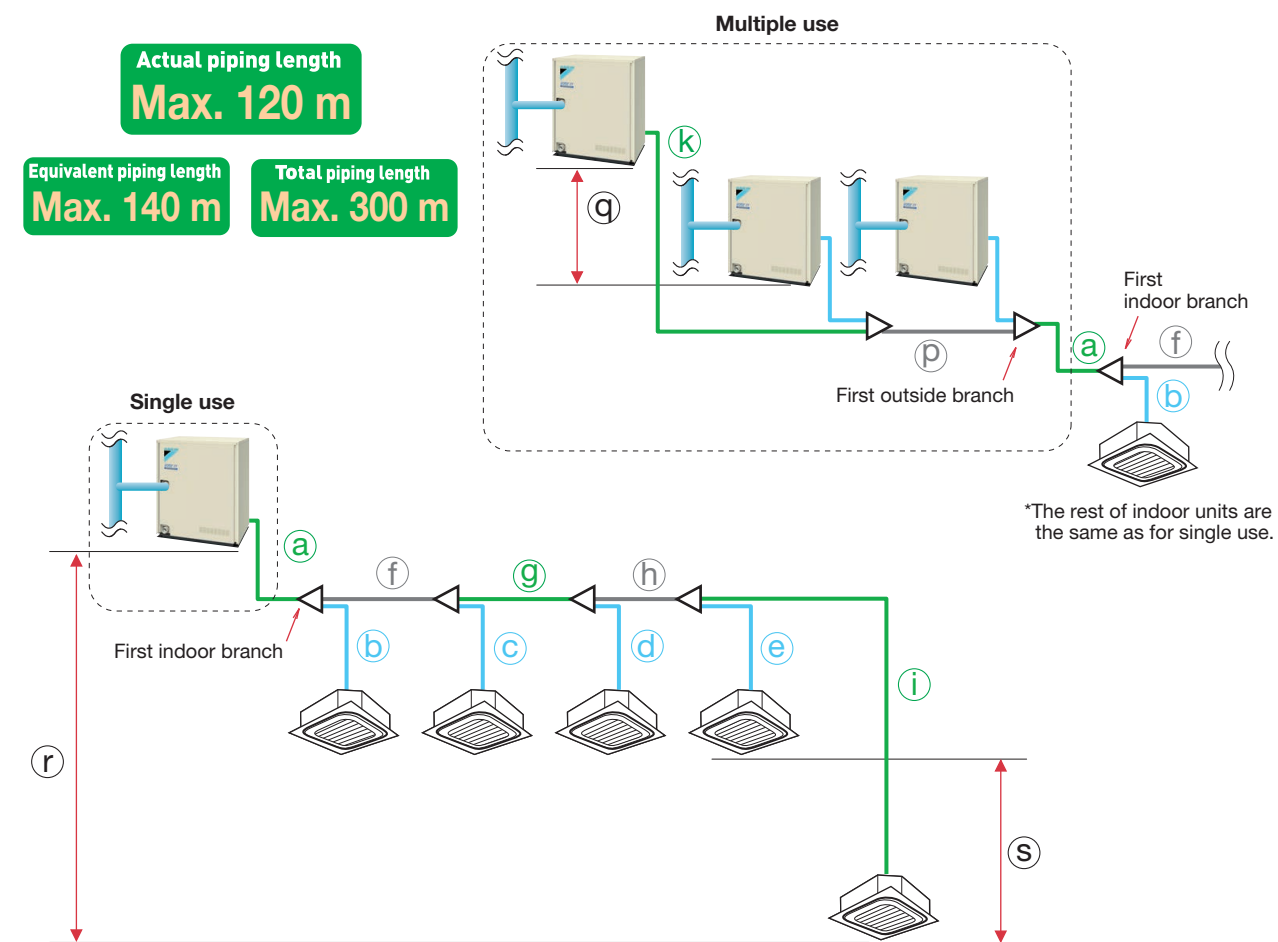
VRT is particularly effective at night when temperatures are low.



Long refrigerant piping length

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

For connection of only VRV indoor units.

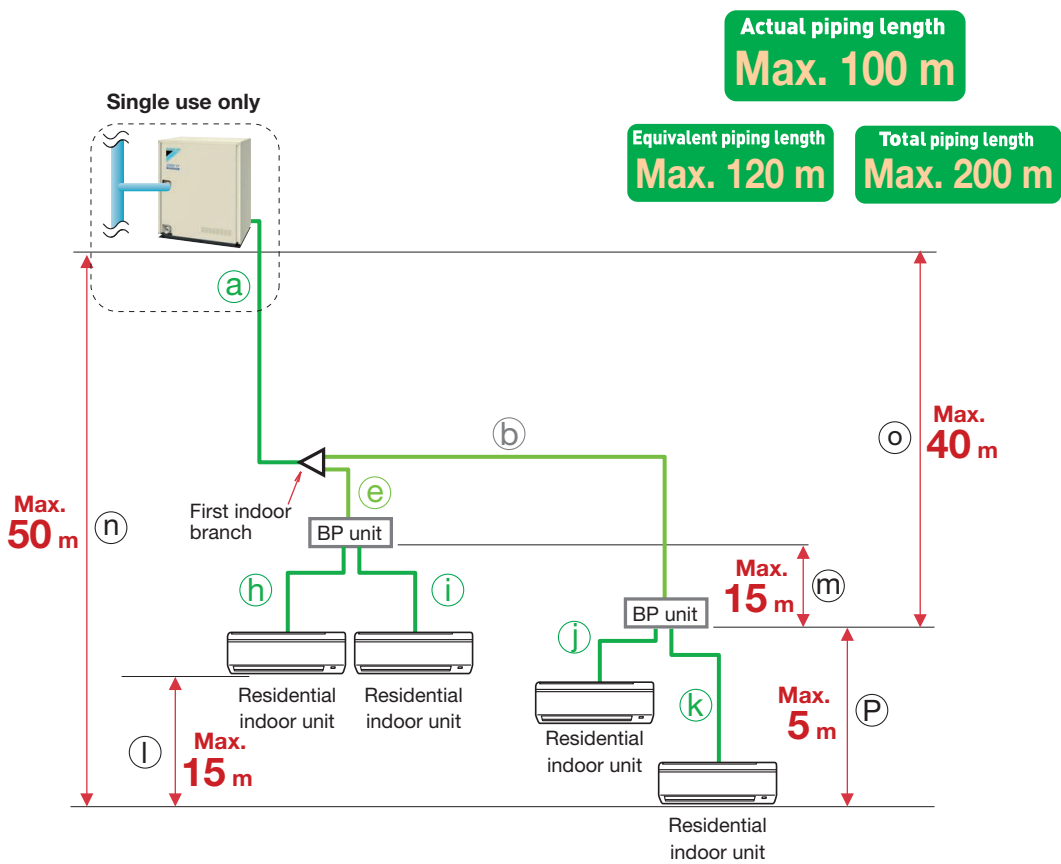


* Colours in the diagram above are merely for identifying pipes referenced with symbols such as @.

		Actual piping length	Example	Equivalent piping length
Max. allowable piping length	Refrigerant piping length	120 m	a+f+g+h+i	140 m
	Total piping length	300 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 first outside branch and the last outside unit	10 m	k+p	13 m
Max. allowable level difference	Between the outside units (multiple use)	2 m	q	—
	Between the indoor units	15 m	s	—
	Between the outside units and the indoor units	If the outside unit is above.	r	—
		If the outside unit is below.	r	—

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

For connection of only residential indoor units.



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

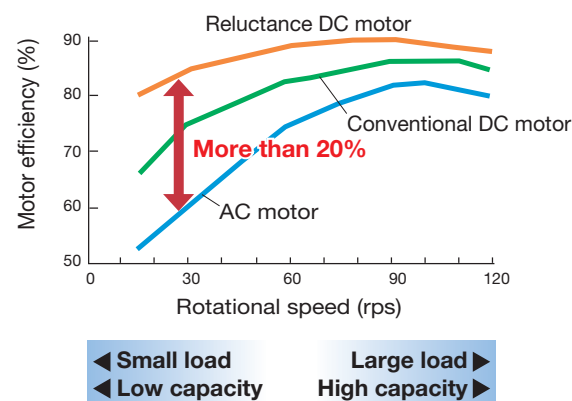
			Actual piping length	Example	Equivalent Example piping length
Max. allowable piping length	Refrigerant piping length		100 m	a+b+k	120 m
	Total piping length		200 m	a+b+e+h+j+k	—
	Between the first indoor branch and the farthest indoor unit		50 m ^{*1}	b+k	—
Max. and min. allowable piping length	Between 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	h,i,j,k	—
		If indoor unit capacity index is 71	2 m - 8 m	h,i,j,k	—
Max. allowable level difference	Between the outside unit and the indoor unit	If the outside unit is above.	50 m	n	—
		If the outside unit is below.	40 m	n	—
	Between the indoor units		15 m	l	—
	Between the outside unit and the BP unit		40 m	o	—
	Between BP units		15 m	m	—
	Between the BP unit and the indoor unit		5 m	p	—

*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.

High efficiency compressor to achieve a high COP

Compressor equipped with Reluctance DC motor

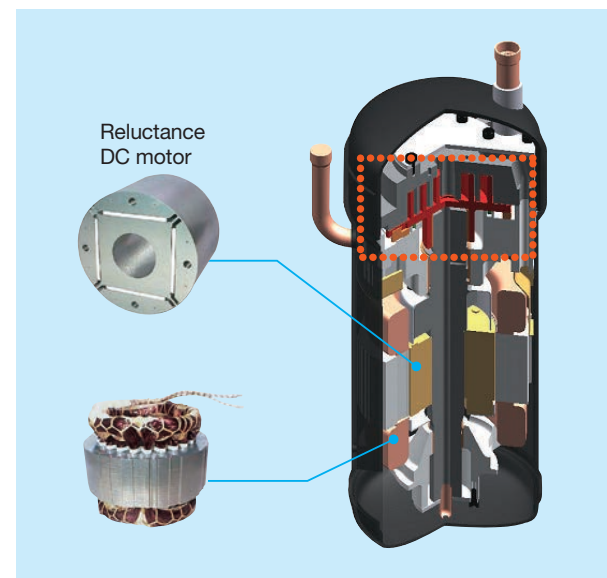
Daikin DC inverter models are equipped with the Reluctance DC motor for compressor. The Reluctance DC motor uses 2 different types of torque, neodymium magnet*1 and reluctance torque*2. This motor can save energy because it generates more power with a smaller electric power than an AC or conventional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



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

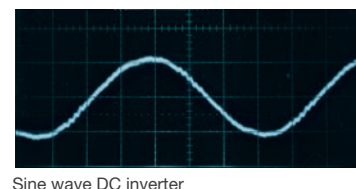
*1 A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.

*2 The torque created by the change in power between the iron and magnet parts.



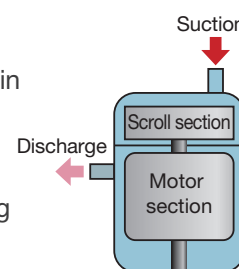
Smooth sine wave DC inverter

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



Scroll compressor

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

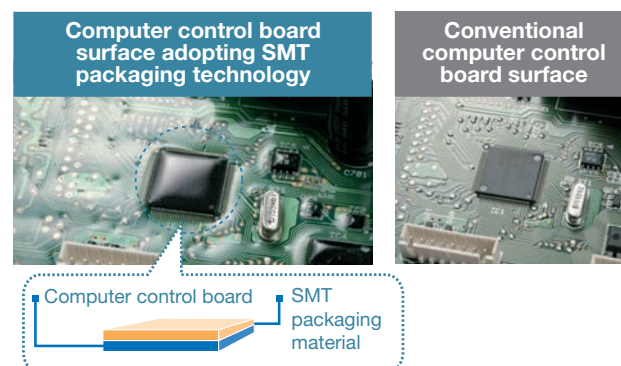


Advanced control main PC board

SMT* packaging technology

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

*SMT: Surface mounted technology



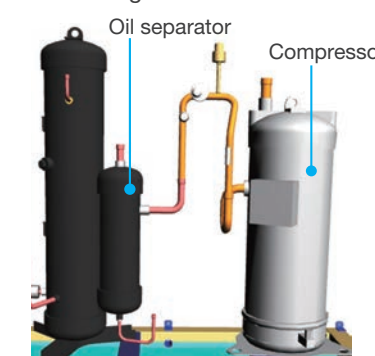
Minimize performance degradation from refrigeration oil in all stages of operation

Newly designed oil receiver

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

Conventional VRV III W series

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



Oil flows to the indoor and outside unit heat exchangers through the oil separator.

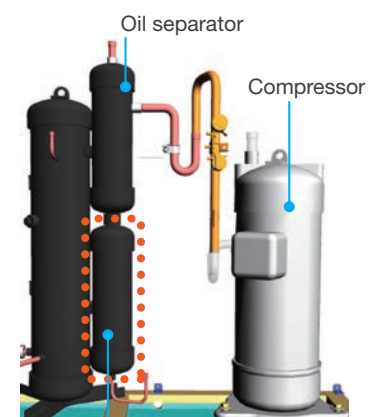
Excessive amount of discharged oil

Increase in amount of oil discharge

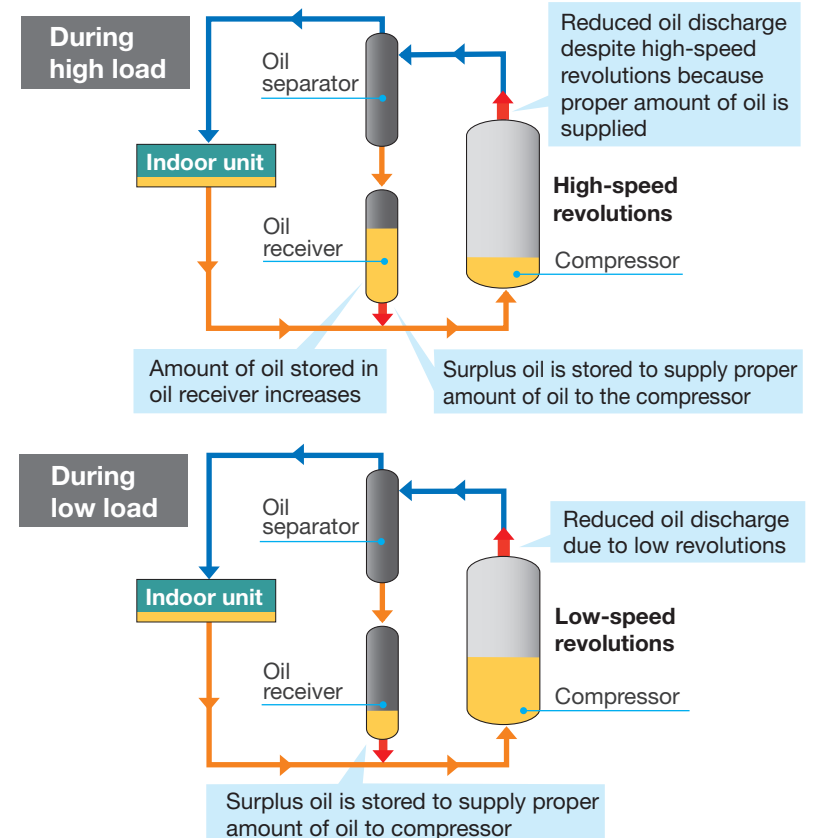
Oil flow is not controlled

VRV IV W SERIES

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



New oil receiver



Simplified commissioning and after-sales service

Function of information display by luminous digital tube

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

7-segment digital display

Displays system operation information directly

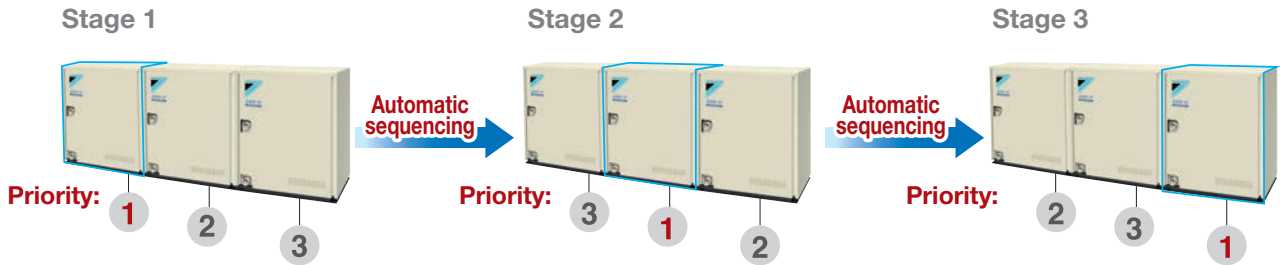
Conventional LED display

Figures out system operation information by reading light emitting state of different diodes, which is both inefficient and fallible.

Outside unit sequencing technology

Automatic sequencing operation

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



Reliable and convenient air conditioning system

Auto-restart technology after power interruption

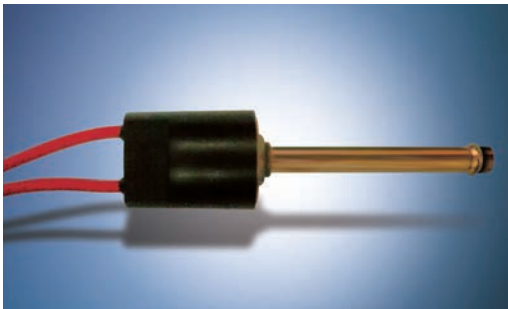
Whether the indoor or outside unit accidentally experiences a power interruption during normal operation or not, the system will keep a record of the operating mode adopted before the power interruption. When the power supply recovers, the air conditioning system will then restore itself back into the recorded operating status, simplifying the operation after an accidental power interruption.

Refrigerant pressure detection technology makes system operation more stable and efficient

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

More stable operation

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



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

More efficient operation

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

Outside Unit Combinations

For connection of only VRV indoor units

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

^{*1}. An outside unit multi connection piping kit (option) is necessary for multiple connections of 14 HP systems and above.
^{*2}. Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outside units.

For connection of only residential indoor units


















Model name ^{*1}	kW	HP	Capacity index	Total capacity index of connectable indoor units ^{*2}			Maximum number of connectable indoor units
				Combination (%) ^{*2}			
				50% ^{*2}	100%	130%	
RWEYQ6T	16.0	6 HP	150	75	150	195	9
RWEYQ8T	22.4	8 HP	200	100	200	260	13
RWEYQ10T	28.0	10 HP	250	125	250	325	16
RWEYQ12T	33.5	12 HP	300	150	300	390	19

^{*1}. Only single outdoor unit (RWEYQ6-12T) can be connected.
^{*2}. Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outside unit.








Enhanced range of choices

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

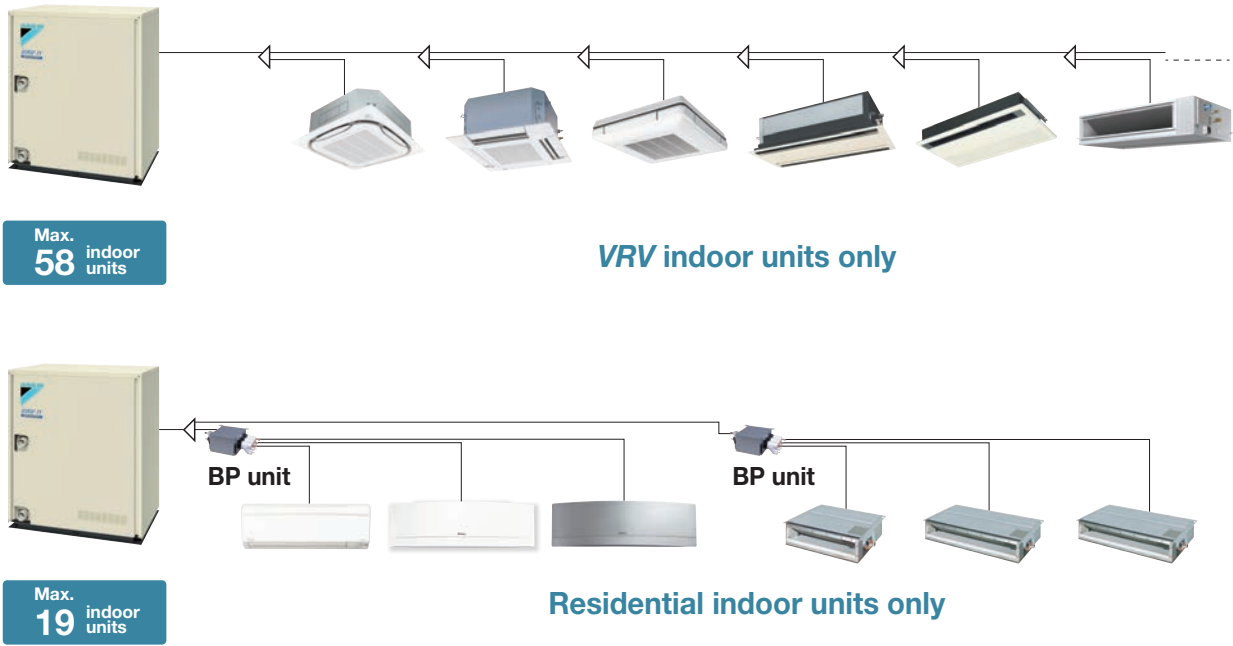
VRV indoor units

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)		●	●	●													
	FXDQ-PBVET (without drain pump)		(700 mm width type)	●	●	●												
	FXDQ-NBVE (with drain pump)						●	●	●									
	FXDQ-NBVET (without drain pump)		(900/1,100 mm width type)					●	●	●								
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1		●	●	●	●	●	●										
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE		●	●	●	●	●	●			●	●	●	●				
Ceiling Mounted Duct	FXMQ-PVE		●	●	●	●	●	●			●	●	●	●				
	FXMQ-MAVE														●	●		
Outdoor-Air Processing Unit	FXMQ-MFV1											●		●	●			
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	FXVQ-NY1											●		●	●	●	●	
	FXVQ-NY16 (high static pressure type)																●	
Air Handling Unit	AHUR		6-120 HP															
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Airflow rate 500-1000 m3/h															
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m3/h															

Residential indoor units with connection to BP units

Type	Model Name	Rated Capacity (kW)	25	35	50	60	71
			2.5	3.5	5.0	6.0	7.1
		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	FTKJ-NVMW		●	●	●		
	FTKJ-NVMS		●	●	●		
	FTKS-DVM		●	●			
	FTKS-BVMA				●		
	FTKS-FVM				●	●	●


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




*Refer to page 82 for the maximum number of connectable indoor units.


Outside Units


Cooling Only

						
MODEL			RWEYQ6TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ12TYM
Combination units			—	—	—	—
			—	—	—	—
			—	—	—	—
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz			
Cooling capacity	kcal/h	13,800	19,300	24,100	28,800	
	Btu/h	54,600	76,400	95,500	114,000	
	kW	16.0	22.4	28.0	33.5	
Power consumption		kW	2.58	3.86	5.43	7.33
Casing colour			Ivory white (5Y7.5/1)			
Dimensions (H×W×D)		mm	1,000 × 780 × 550			
Compressor	Type		Hermetically sealed scroll type			
	Motor output	kW	1.9	2.8	3.7	4.7
Refrigerant piping connections	Liquid	mm	φ 9.5 (Flare)			φ 12.7 (Flare)
	Suction gas *1		φ 19.1 (Brazing)		φ 22.2 (Brazing)	
	High and low pressure gas		φ 19.1 (Brazing) *2		φ 22.2 (Brazing) *2	
Water piping connections	Water inlet		PT1 1/4B intenal thread			
	Water outlet		PT1 1/4B intenal thread			
	Drain outlet		PS1/2B intenal thread			
Machine weight (Operating weight)		kg	146 (148)		147 (149)	
Sound level		dB(A)	49	50	51	53
Operation range (Inlet water temp.)		°C	10 to 45			
Capacity control		%	23-100		19-100	
Refrigerant charge	Type		R-410A			
	Charge	kg	3.5		4.2	

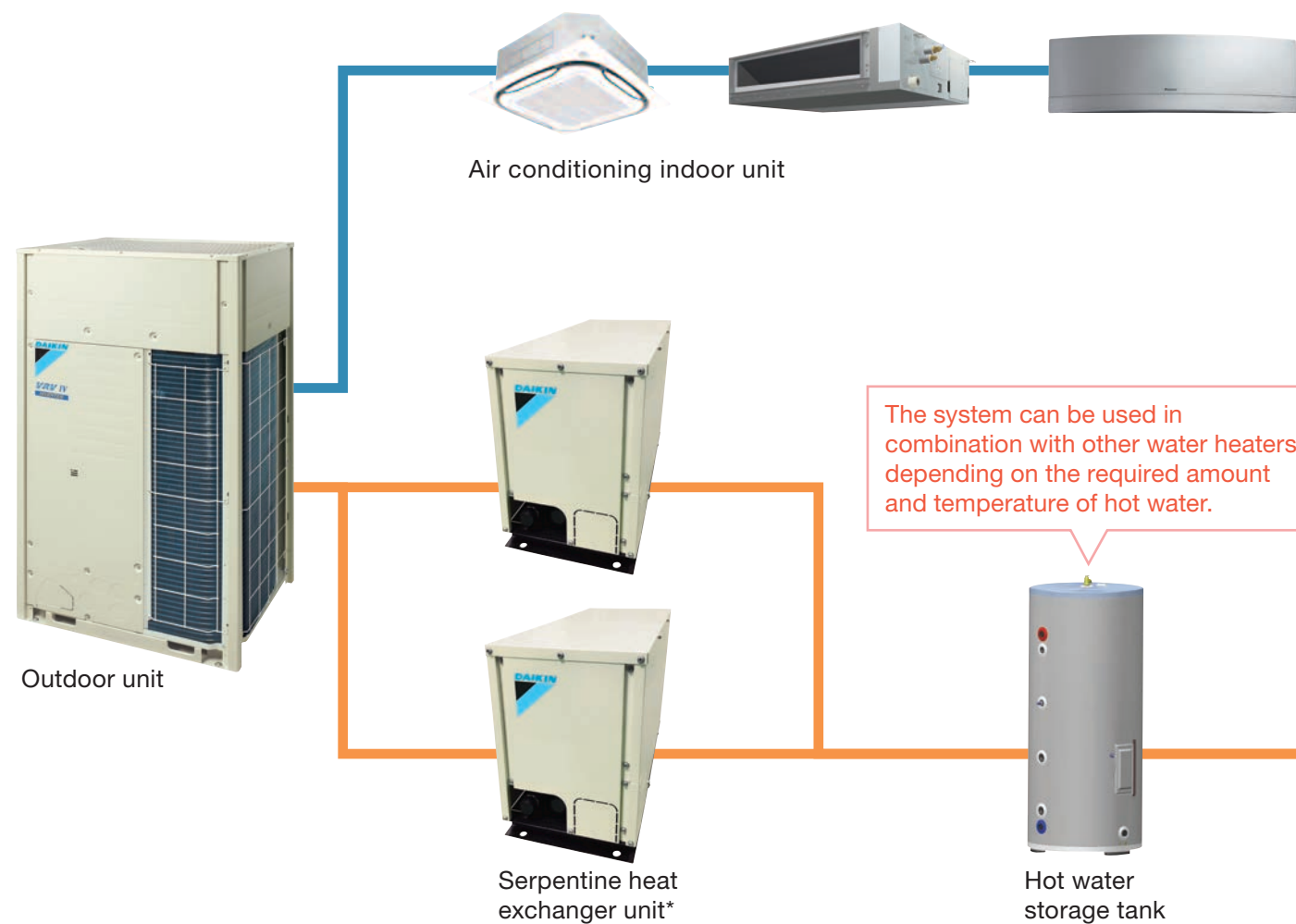
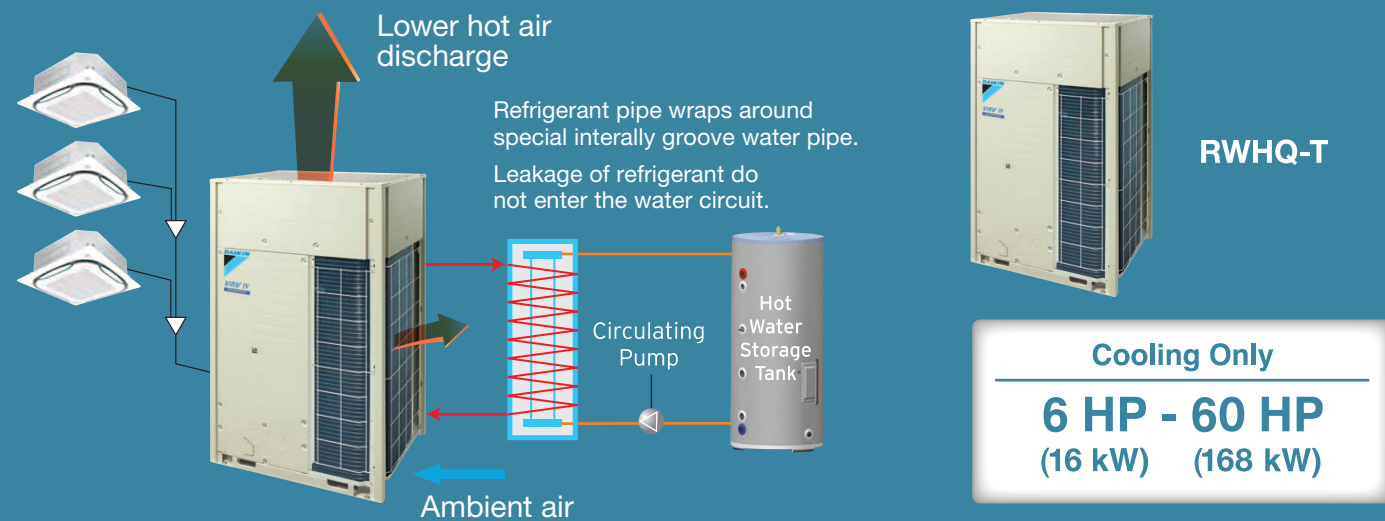
					
MODEL			RWEYQ26TYM	RWEYQ28TYM	RWEYQ30TYM
Combination units			RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM
			RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM
			RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz		
Cooling capacity	kcal/h	62,600	67,400	72,200	
	Btu/h	248,000	268,000	287,000	
	kW	72.8	78.4	84.0	
Power consumption	kW	13.2	14.7	16.3	
Casing colour			Ivory white (5Y7.5/1)		
Dimensions (H×W×D)		mm	(1,000 × 780 × 550) × 3		
Compressor	Type	Hermetically sealed scroll type			
	Motor output	kW	2.8 × 2 + 3.7	2.8 + 3.7 × 2	3.7 × 3
Refrigerant piping connections	Liquid	mm	φ19.1 (Flare)		
	Suction gas *1		φ 34.9 (Brazing)		
	High and low pressure gas		φ 34.9 (Brazing) *2		
Water piping connections	Water inlet	(PT1 1/4B) × 3 intenal thread			
	Water outlet	(PT1 1/4B) × 3 intenal thread			
	Drain outlet	(PS1/2B) × 3 intenal thread			
Machine weight (Operating weight)		kg	146 × 2 + 147 (148 × 2 + 149)	146 + 147 × 2 (148 + 149 × 2)	147 × 3 (149 × 3)
Sound level		dB(A)	55	56	
Operation range (Inlet water temp.)		°C	10 to 45		
Capacity control		%	21-100	20-100	19-100
Refrigerant charge	Type	R-410A			
	Charge	kg	3.5 + 3.5 + 4.2	3.5 + 4.2 + 4.2	4.2 + 4.2 + 4.2

Notes: 1. Specifications are based on the following conditions ;
●Cooling: Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m.
2. This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).
3. Hold ambient temperature at 0-40°C and humidity at 80%RH or less.
Heat rejection from the casing: 0.51 kW/6-8 HP/hour, 0.58 kW/10-12 HP/hour.
4. Connectable to closed type cooling tower only.
*1: In the case of cooling only system, suction gas pipe is not used.
*2: In the case of cooling only system.

					
RWEYQ14TYM	RWEYQ16TYM	RWEYQ18TYM	RWEYQ20TYM	RWEYQ22TYM	RWEYQ24TYM
RWEYQ6TYM	RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM
RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM
—	—	—	—	—	—
3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
33,000	38,500	43,300	48,200	52,900	57,600
131,000	153,000	172,000	191,000	210,000	229,000
38.4	44.8	50.4	56.0	61.5	67.0
6.44	7.72	9.29	10.9	12.8	14.7
Ivory white (5Y7.5/1)					
(1,000 × 780 × 550) × 2					
Hermetically sealed scroll type					
1.9 + 2.8	2.8 × 2	2.8 + 3.7	3.7 × 2	3.7 + 4.7	4.7 × 2
φ 12.7 (Flare)		φ 15.9 (Flare)		φ 19.1 (Flare)	
φ 28.6 (Brazing)					
φ 28.6 (Brazing) *2					
(PT1 1/4B) × 2 intenal thread					
(PT1 1/4B) × 2 intenal thread					
(PS1/2B) × 2 intenal thread					
146 × 2 (148 × 2)		146 + 147 (148 + 149)	147 × 2 (149 × 2)		
53		54		55	56
10 to 45					
23-100		20-100		19-100	
R-410A					
3.5 + 3.5		3.5 + 4.2		4.2 + 4.2	

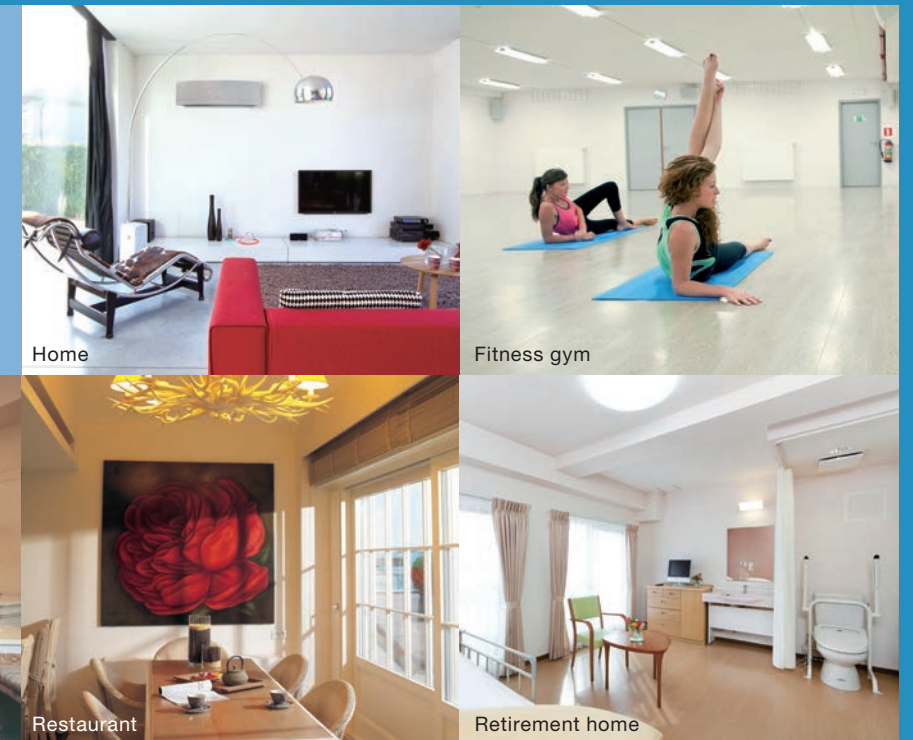
		
RWEYQ32TYM	RWEYQ34TYM	RWEYQ36TYM
RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM
RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM
RWEYQ12TYM	RWEYQ12TYM	RWEYQ12TYM
3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz		
77,000	81,700	86,900
305,000	324,000	345,000
89.5	95.0	101
18.2	20.1	22.0
Ivory white (5Y7.5/1)		
(1,000 × 780 × 550) × 3		
Hermetically sealed scroll type		
3.7 × 2 + 4.7	3.7 + 4.7 × 2	4.7 × 3
φ19.1 (Flare)		
φ 34.9 (Brazing)		
φ 34.9 (Brazing) *2		
(PT1 1/4B) × 3 intenal thread		
(PT1 1/4B) × 3 intenal thread		
(PS1/2B) × 3 intenal thread		
147 × 3 (149 × 3)		
57		58
10 to 45		
19-100		
R-410A		
4.2 + 4.2 + 4.2		

•Be sure to refer to the Engineering Data Book for facility design.



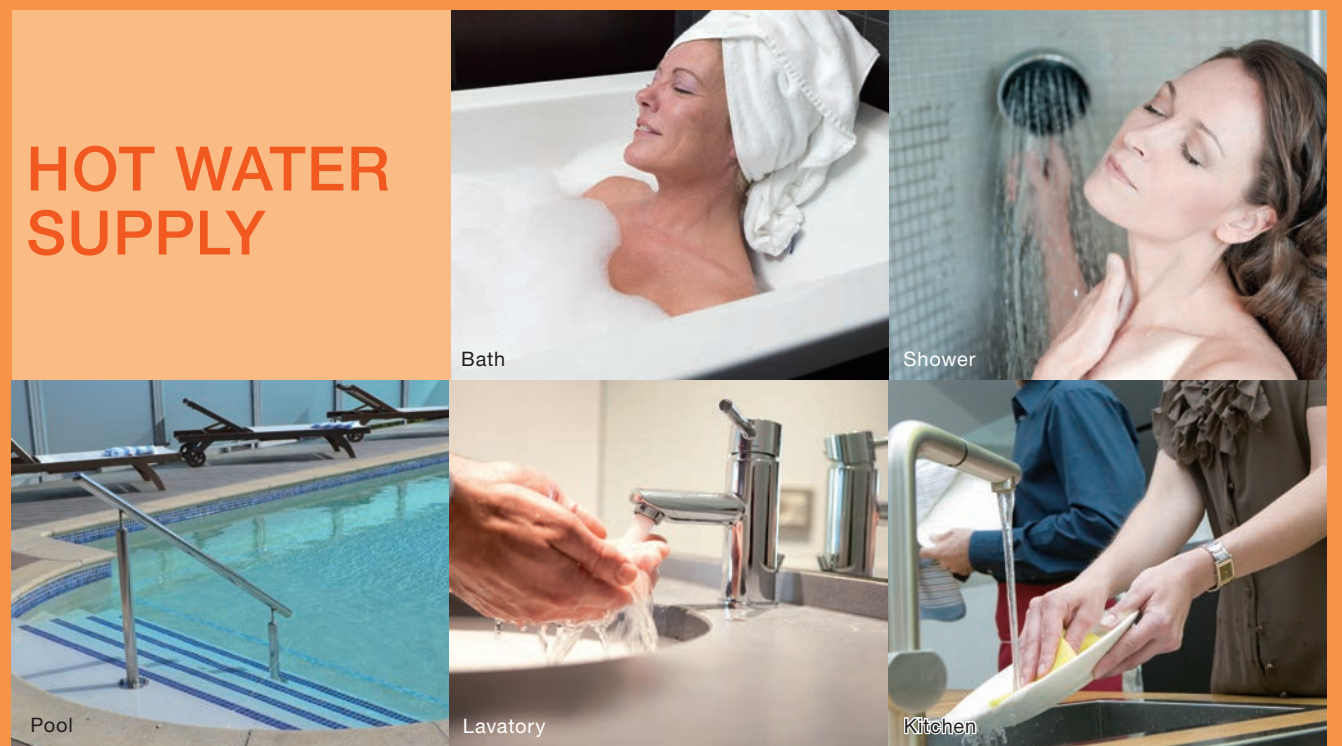
Flexible combination of VRV IV indoor units achieves comfort and aesthetic

AIR CONDITIONING



Extremely energy-efficient energy source

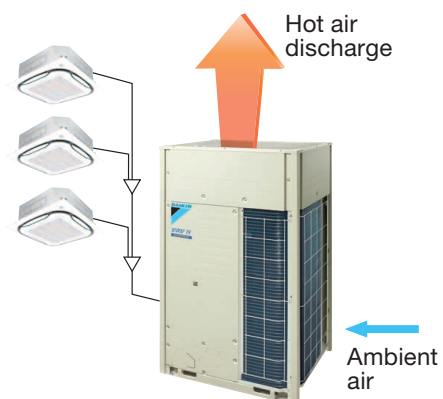
HOT WATER SUPPLY



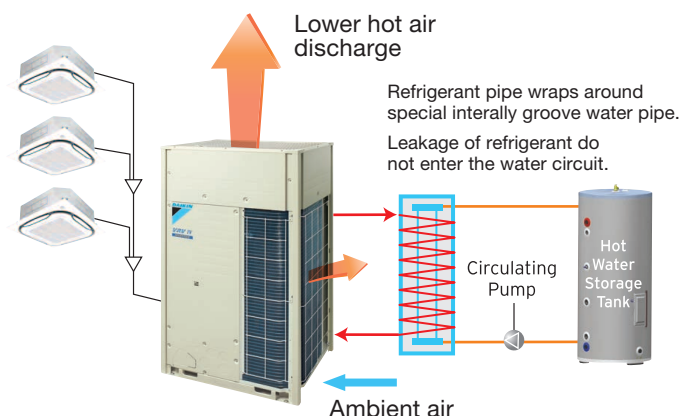
The energy-efficient system recovers waste heat

Waste heat from air conditioning (which usually released into the ambience) is recovered to heat water.

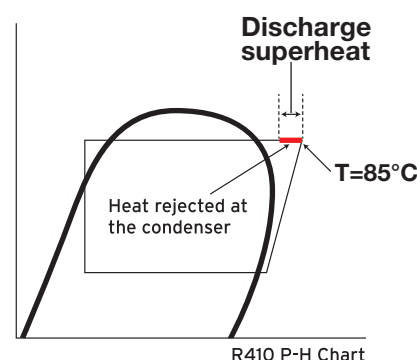
In a conventional system, waste heat from air conditioning is released into the ambience.



This system recovers waste heat from air conditioning to heat water.



During the air conditioning operation, the refrigerant is compressed by a compressor into a high-temperature, high-pressure gas. The refrigerant is then fed into the heat exchanger for heat transfer to the circulating water.



Air conditioning combined with hot water supply **Compact system**

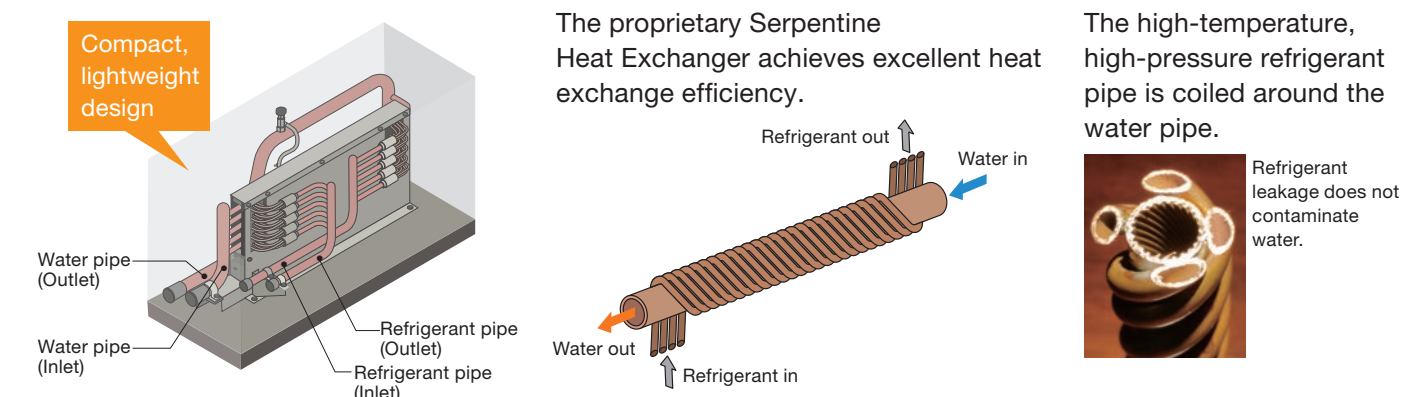
Energy to supply hot water **Cost-effective**

Hot water temperature **Up to 65 °C**

Can be used in combination with other water heaters depending on the required amount and temperature of hot water.

as energy to heat hot water. **VRV IV HEAT RECOVERY HOT WATER SYSTEM**

The Serpentine Heat Exchanger Unit recovers heat.



Increased energy efficiency of the outdoor unit

The waste heat from air conditioning is transferred to heat water. This mechanism reduces the amount of heat processed by the outdoor unit, resulting in better operation efficiency.

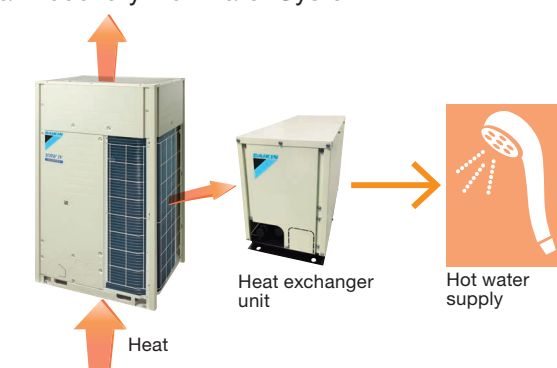
VRV IV

COP 4.41



VRV IV Heat Recovery Hot Water System

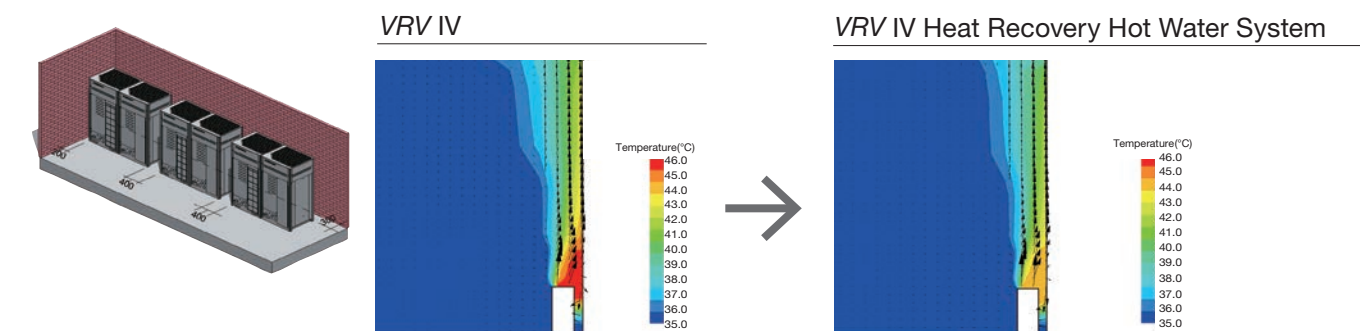
COP 4.5



* Comparison of air conditioning using a 6 HP outdoor unit

Reducing short circuits

The temperature of exhaust heat from the outdoor unit is lower, minimising in ambient temperature increase. In the event of a short circuit, capacity reduction is minimised.

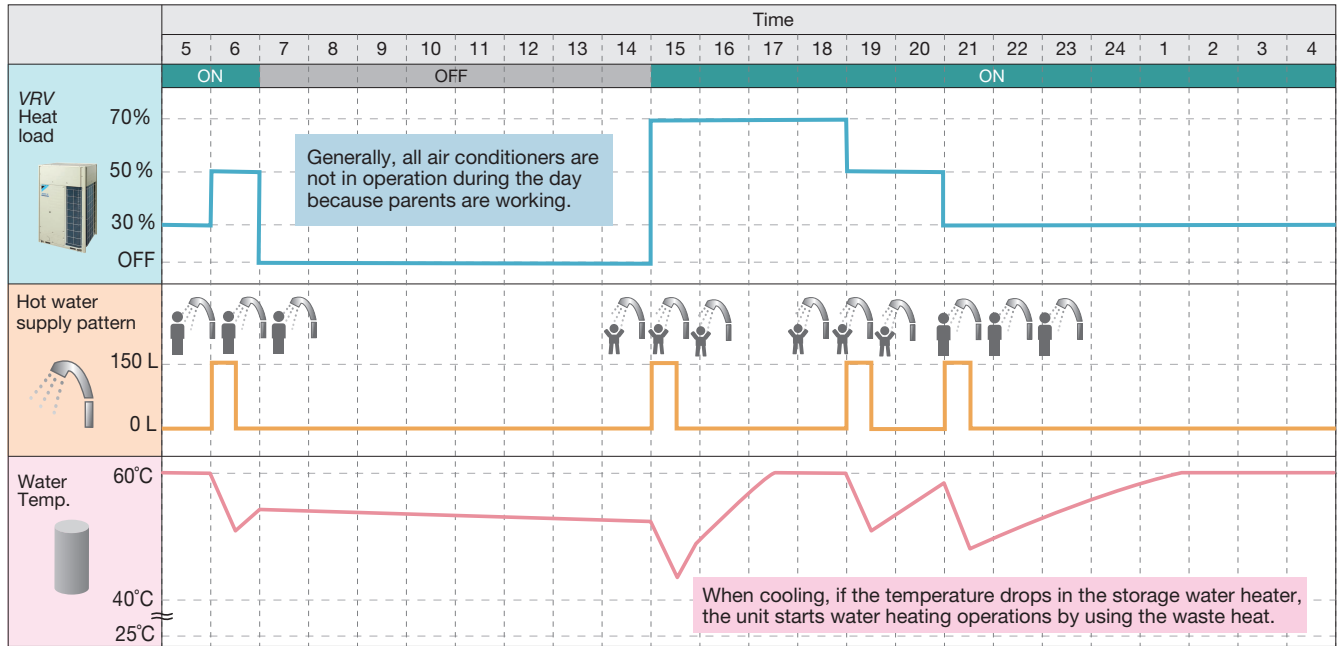
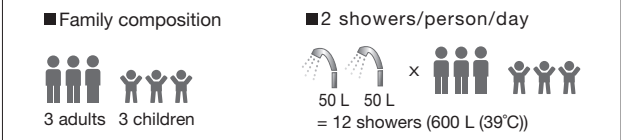


* Comparison of air conditioning using a 6 HP outdoor unit

VRV IV Heat Recovery Hot Water System

Example on usage of VRV IV Heat Recovery Hot Water System for residence

In a sample family model of 3 adults and 3 children, the waste heat generated by air conditioning is sufficient to supply hot water for everybody's showers.



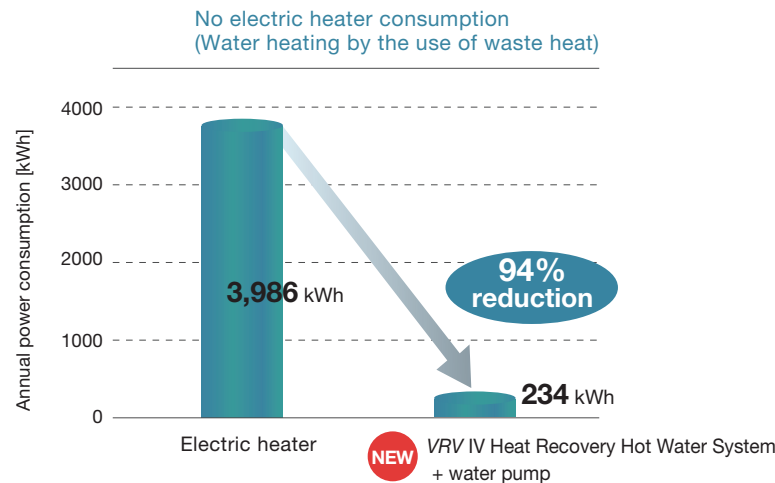
Air conditioner load conditions Operation time: 16 hours/day

Water-heating load Tank capacity: 200 L Boiling temperature: 25°C to 60°C (tap water)

Amount of hot water per person per time (standard): 50 L/shower (39°C) (water dispensed: 10 L/min.; shower time: 5 min./shower) Amount of water required in tank to dispense 39°C hot water

Comparison between VRV IV Heat Recovery Hot Water System and electric heater

Because waste heat is used to heat water, annual electricity consumption can be reduced approximately 94% compared with consumption for separate operation of air conditioning and an electric water heater.



VRV IV Heat Recovery Hot Water Controller

Features

Convertible Remote Controller

Main Remote Control & Sub Remote Controller are both convertible and interchangeable.

Anti-Bacteria

By default, this would be activated every Monday morning at 2am, heating storage water up to 60°C for 10 minutes.

Vacation Mode

This disable all other functions, except for anti-bacterial mode.

Auto Restart

When power supply is restored after a failure, the system would revert to the last operational function.

Safety-Error Code

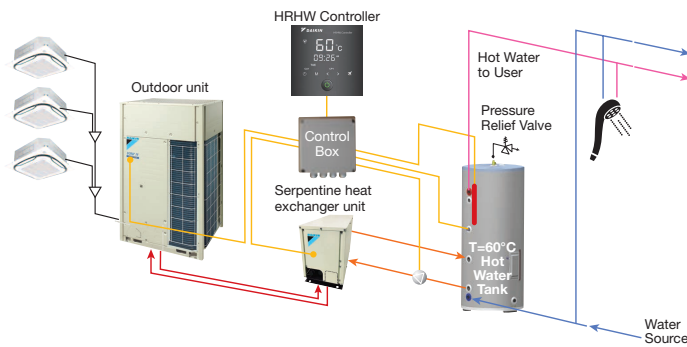
If thermistors or communication line are faulty, as a safety precaution, operation of the electric heater is disabled.



BRC82

VRV IV Heat Recovery Hot Water System overview

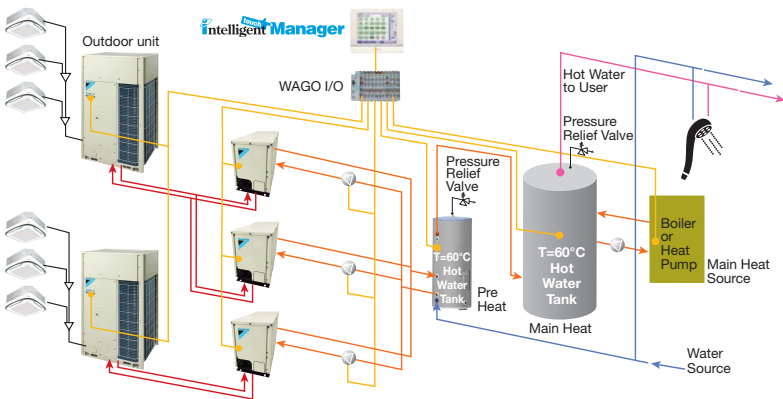
Schematic Diagram For Residential Application



*Remarks: Electric heater is used for anti-bacterial mode as well as backup heater.



Schematic Diagram For Commercial Application



*Remark: Works as a supplementary heating system to a dedicated boiler or heat pump boiler.

























One of the Proposed Commercial Schematic Diagrams








Enhanced range of choices

A mixed of stylish and quiet VRV type indoor units and residential type indoor units can be combined into one system.

VRV indoor units

Type	Model Name	Capacity Range Capacity Index	20	25	32	40	50	63	71	80	100	125	140	200	250	400	500
			0.8HP	1HP	1.25HP	1.6HP	2HP	2.5HP	3HP	3.2HP	4HP	5HP	6HP	8HP	10HP	16HP	20HP
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)					●	●	●									
	FXDQ-NBVET (without drain pump)	(900/1,100 mm width type)				●	●	●									
Slim Ceiling Mounted Duct(Compact Series)	FXDQ-SPV1		●	●	●	●	●	●									
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE		●	●	●	●	●	●		●	●	●	●				
Ceiling Mounted Duct	FXMQ-PVE		●	●	●	●	●	●		●	●	●	●				
	FXMQ-MAVE													●	●		
Outdoor-Air Processing Unit	FXMQ-MFV1											●		●	●		
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	FXVQ-NY1											●		●	●	●	●
	FXVQ-NY16																●
Clean Room Air Conditioner	FXBQ-PVE					●	●	●									
	FXBPQ-PVE							●									
Air Handling Unit	AHUR																
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Airflow rate 500-1000 m³/h														
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h														

Residential indoor units with connection to BP units



Type	Model Name	Rated Capacity (kW) Capacity Index	25	35	50	60	71
			2.5	3.5	5.0	6.0	7.1
Slim Ceiling Mounted Duct	FDKS-EAVMB	 (700 mm width type)	●	●			
	FDKS-C(A)VMB	 (900/1,100 mm width type)	●	●	●	●	
Wall Mounted	FTKJ-NVM(M)(V)W		●	●	●		
	FTKJ-NVM(M)(V)S		●	●	●		
	FTKS-DVM		●	●			
	FTKS-BVMA				●		
	FTKS-FVM				●	●	●



Note: BP units (BPMKS967A2/3) are necessary for residential indoor units.
*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.

Outdoor Units






High-COP Type

									
MODEL			RWHQ12THYM	RWHQ14THYM	RWHQ16THYM	RWHQ18THYM	RWHQ20THYM	RWHQ22THYM	RWHQ24THYM
Combination units			RWHQ6TYM	RWHQ6TYM	RWHQ8TYM	RWHQ6TYM	RWHQ6TYM	RWHQ6TYM	RWHQ8TYM
			RWHQ6TYM	RWHQ8TYM	RWHQ8TYM	RWHQ6TYM	RWHQ6TYM	RWHQ8TYM	RWHQ8TYM
			—	—	—	RWHQ6TYM	RWHQ8TYM	RWHQ8TYM	RWHQ8TYM
Power supply			3-phase 4-wire system, 380–415/380 V, 50/60 Hz						
Cooling capacity		kcal/h	27,500	33,000	38,500	41,300	46,800	52,300	57,800
		Btu/h	109,000	131,000	153,000	164,000	186,000	207,000	229,000
		kW	32.0	38.4	44.8	48.0	54.4	60.8	67.2
Power consumption		kW	7.10	8.68	10.3	10.7	12.2	13.8	15.4
Capacity control		%	10-100	10-100	10-100	7-100	7-100	7-100	7-100
Casing colour			Ivory white (5Y7.5/1)						
Compressor	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)
Airflow rate		m³/min	119+119	119+157	157+157	119+119+119	119+119+157	119+157+157	157+157+157
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)
Machine weight		kg	185+185	185+185	185+185	185+185+185	185+185+185	185+185+185	185+185+185
Sound level		dB(A)	58	59	59	60	60	60	61
Operation range		°CDB	15 to 49						
Refrigerant	Type		R-410A						
	Charge	kg	6.4+6.4	6.4+6.4	6.4+6.4	6.4+6.4+6.4	6.4+6.4+6.4	6.4+6.4+6.4	6.4+6.4+6.4
Piping connections (Indoor unit)	Liquid	mm	φ 12.7 (Brazing)	φ 12.7 (Brazing)	φ 12.7 (Brazing)	φ 15.9 (Brazing)	φ 15.9 (Brazing)	φ 15.9 (Brazing)	φ 15.9 (Brazing)
	Gas	mm	φ 28.6 (Brazing)	φ 28.6 (Brazing)	φ 28.6 (Brazing)	φ 28.6 (Brazing)	φ 28.6 (Brazing)	φ 28.6 (Brazing)	φ 34.9 (Brazing)
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(Brazingx2)			φ 19.1(Brazingx3)			
	Outlet pipe	mm	φ 19.1(Brazingx2)			φ 19.1(Brazingx3)			

Note: Specifications are based on the following conditions;


- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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

							
RWHQ26THYM	RWHQ28THYM	RWHQ30THYM	RWHQ32THYM	RWHQ34THYM	RWHQ36THYM	RWHQ38THYM	RWHQ40THYM
RWHQ8TYM	RWHQ8TYM	RWHQ8TYM	RWHQ8TYM	RWHQ8TYM	RWHQ8TYM	RWHQ12TYM	RWHQ12TYM
RWHQ8TYM	RWHQ8TYM	RWHQ10TYM	RWHQ12TYM	RWHQ12TYM	RWHQ14TYM	RWHQ12TYM	RWHQ14TYM
RWHQ10TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ14TYM	RWHQ14TYM	RWHQ14TYM	RWHQ14TYM
3-phase 4-wire system, 380–415/380 V, 50/60 Hz							
62,600	67,300	72,200	76,900	82,500	87,700	92,000	98,000
248,000	267,000	286,000	305,000	327,000	348,000	365,000	389,000
72.8	78.3	83.9	89.4	95.9	102	107	114
17.5	19.2	21.3	23.0	24.9	26.7	28.7	30.5
6-100	6-100	5-100	5-100	5-100	4-100	4-100	4-100
Ivory white (5Y7.5/1)							
Hermetically Sealed Scroll Type							
(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)
157+157+165	157+157+178	157+165+178	157+178+178	157+178+233	157+233+233	178+178+233	178+233+233
(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)
185+185+200	185+185+200	185+200+200	185+200+200	185+200+285	185+285+285	200+200+285	200+285+285
61	62	62	63	63	64	64	64
15 to 49							
R-410A							
6.4+6.4+6.5	6.4+6.4+6.8	6.4+6.5+6.8	6.4+6.8+6.8	6.4+6.8+10.3	6.4+10.3+10.3	6.8+6.8+10.3	6.8+10.3+10.3
φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)
φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)
φ 19.1(Brazingx3)							
φ 19.1(Brazingx3)							

Outdoor Units

High-COP Type



							
MODEL			RWHQ42THYM	RWHQ44THYM	RWHQ46THYM	RWHQ48THYM	RWHQ50THYM
Combination units			RWHQ14TYM	RWHQ14TYM	RWHQ14TYM	RWHQ16TYM	RWHQ16TYM
			RWHQ14TYM	RWHQ14TYM	RWHQ16TYM	RWHQ16TYM	RWHQ16TYM
			RWHQ14TYM	RWHQ16TYM	RWHQ16TYM	RWHQ16TYM	RWHQ18TYM
Power supply			3-phase 4-wire system, 380–415/380 V, 50/60 Hz				
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		32.4	34.5	36.6	38.7	41.1
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	15 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 (Indoor unit)	Liquid	mm	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)
	Gas	mm	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(Brazingx3)				
	Outlet pipe	mm	φ 19.1(Brazingx3)				

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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

Standard Type

								
MODEL			RWHQ6TYM	RWHQ8TYM	RWHQ10TYM	RWHQ12TYM	RWHQ14TYM	RWHQ16TYM
Combination units			—	—	—	—	—	—
Power supply			3-phase 4-wire system, 380–415/380 V, 50/60 Hz					
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		3.55	5.13	7.22	8.93	10.8	12.9
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	200	200	285	285
Sound level		dB(A)	55	56	57	59	60	61
Operation range		°CDB	15 to 49					
Refrigerant	Type		R-410A					
	Charge	kg	6.4	6.4	6.5	6.8	10.3	10.4
Piping connections (Indoor unit)	Liquid	mm	ϕ 9.5 (Brazing)			ϕ 12.7 (Brazing)		
	Gas	mm	ϕ 19.1 (Brazing)		ϕ 22.2 (Brazing)	ϕ 28.6 (Brazing)		
Piping connections (Heat exchanger unit)	Inlet pipe	mm	ϕ 19.1(Brazing)					
	Outlet pipe	mm	ϕ 19.1(Brazing)					




Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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

Outdoor Units









Standard Type

									
MODEL			RWHQ18TNYM	RWHQ20TNYM	RWHQ22TNYM	RWHQ24TNYM	RWHQ26TNYM	RWHQ28TNYM	RWHQ30TNYM
Combination units			RWHQ8TYM	RWHQ8TYM	RWHQ8TYM	RWHQ10TYM	RWHQ12TYM	RWHQ14TYM	RWHQ14TYM
			RWHQ10TYM	RWHQ12TYM	RWHQ14TYM	RWHQ14TYM	RWHQ14TYM	RWHQ14TYM	RWHQ16TYM
			—	—	—	—	—	—	—
Power supply			3-phase 4-wire system, 380–415/380 V, 50/60 Hz						
Cooling capacity		kcal/h	43,300	48,100	53,700	58,500	63,200	68,800	73,100
		Btu/h	172,000	191,000	213,000	232,000	251,000	273,000	290,000
		kW	50.4	55.9	62.4	68.0	73.5	80.0	85.0
Power consumption		kW	12.4	14.1	15.9	18.0	19.7	21.6	23.7
Capacity control		%	8-100	8-100	7-100	6-100	6-100	5-100	5-100
Casing colour			Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically Sealed Scroll Type						
	Motor output	kW	(3.4x1)+ (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)
Airflow rate		m³/min	157+165	157+178	157+233	165+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)
Machine weight		kg	185+200	185+200	185+285	200+285	200+285	285+285	285+285
Sound level		dB(A)	60	61	61	62	63	63	64
Operation range		°CDB	15 to 49						
Refrigerant	Type		R-410A						
	Charge	kg	6.4+6.5	6.4+6.8	6.4+10.3	6.5+10.3	6.8+10.3	10.3+10.3	10.3+10.4
Piping connections (Indoor unit)	Liquid	mm	φ 15.9 (Brazing)	φ 15.9 (Brazing)	φ 15.9 (Brazing)	φ 15.9 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)
	Gas	mm	φ 28.6 (Brazing)	φ 28.6 (Brazing)	φ 28.6 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(Brazingx2)						
	Outlet pipe	mm	φ 19.1(Brazingx2)						

Note: Specifications are based on the following conditions;


- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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

							
RWHQ32TNYM	RWHQ34TNYM	RWHQ36TNYM	RWHQ38TNYM	RWHQ40TNYM	RWHQ42TNYM	RWHQ44TNYM	RWHQ46TNYM
RWHQ14TYM	RWHQ10TYM	RWHQ12TYM	RWHQ8TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ14TYM
RWHQ18TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ14TYM	RWHQ16TYM	RWHQ14TYM
—	RWHQ12TYM	RWHQ12TYM	RWHQ18TYM	RWHQ16TYM	RWHQ16TYM	RWHQ16TYM	RWHQ18TYM
3-phase 4-wire system, 380–415/380 V, 50/60 Hz							
77,400	81,700	86,900	91,200	96,300	102,000	107,000	112,000
307,000	324,000	345,000	362,000	382,000	406,000	423,000	444,000
90.0	95.0	101	106	112	119	124	130
26.1	25.1	26.8	29.4	30.8	32.6	34.7	36.9
5-100	5-100	5-100	4-100	4-100	4-100	4-100	3-100
Ivory white (5Y7.5/1)							
Hermetically Sealed Scroll Type							
(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)	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(4.4x1)+(4.0x1)
233+233	165+178+178	178+178+178	157+178+233	178+178+233	178+233+233	178+233+233	233+233+233
(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)
285+285	200+200+200	200+200+200	185+200+285	200+200+285	200+285+285	200+285+285	285+285+285
64	63	64	64	65	65	65	66
15 to 49							
R-410A							
10.3+10.5	6.5+6.8+6.8	6.8+6.8+6.8	6.4+6.8+10.5	6.8+6.8+10.4	6.8+10.3+10.4	6.8+10.4+10.4	10.3+10.3+10.5
φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)
φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)
φ 19.1 (Brazingx2)	φ 19.1(Brazingx3)						
φ 19.1 (Brazingx2)	φ 19.1(Brazingx3)						



Outdoor Units

Standard Type

									
MODEL			RWHQ48TNYM	RWHQ50TNYM	RWHQ52TNYM	RWHQ54TNYM	RWHQ56TNYM	RWHQ58TNYM	RWHQ60TNYM
Combination units			RWHQ14TYM	RWHQ14TYM	RWHQ16TYM	RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ20TYM
			RWHQ16TYM	RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ20TYM	RWHQ20TYM
			RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ20TYM	RWHQ20TYM	RWHQ20TYM
Power supply			3-phase 4-wire system, 380–415/380 V, 50/60 Hz						
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	39.0	41.4	43.5	45.9	48.5	51.1	53.7	
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	15 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 (Indoor unit)	Liquid	mm	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)
	Gas	mm	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(Brazingx3)						
	Outlet pipe	mm	φ 19.1(Brazingx3)						

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



Space Saving Type

						
MODEL			RWHQ18TYM	RWHQ20TYM	RWHQ22TSYM	RWHQ24TSYM
Combination units			—	—	RWHQ10TYM	RWHQ12TYM
					RWHQ12TYM	RWHQ12TYM
					—	—
Power supply			3-phase 4-wire system, 380–415/380 V, 50/60 Hz			
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		15.3	17.9	16.2	17.9
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	200+200	200+200
Sound level		dB(A)	62	65	61	62
Operation range		°CDB	15 to 49			
Refrigerant	Type		R-410A			
	Charge	kg	10.5	11.8	6.5+6.8	6.8+6.8
Piping connections (Indoor unit)	Liquid	mm	φ 15.9 (Brazing)	φ 15.9 (Brazing)	φ 15.9 (Brazing)	φ 15.9 (Brazing)
	Gas	mm	φ 28.6 (Brazing)	φ 28.6 (Brazing)	φ 28.6 (Brazing)	φ 34.9 (Brazing)
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(Brazing)		φ 19.1(Brazingx2)	
	Outlet pipe	mm	φ 19.1(Brazing)		φ 19.1(Brazingx2)	

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

Outdoor Units




Space Saving Type

								
MODEL			RWHQ26TSYM	RWHQ28TSYM	RWHQ30TSYM	RWHQ32TSYM	RWHQ34TSYM	RWHQ36TSYM
Combination units			RWHQ8TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ16TYM	RWHQ18TYM
			RWHQ18TYM	RWHQ16TYM	RWHQ18TYM	RWHQ20TYM	RWHQ18TYM	RWHQ18TYM
			—	—	—	—	—	—
Power supply			3-phase 4-wire system, 380–415/380 V, 50/60 Hz					
Cooling capacity	kcal/h		62,300	67,500	71,800	77,000	81,700	86,000
	Btu/h		247,000	268,000	285,000	305,000	324,000	341,000
	kW		72.4	78.5	83.5	89.5	95.0	100
Power consumption	kW		20.4	21.8	24.2	26.8	28.2	30.6
Capacity control	%		7-100	6-100	6-100	5-100	5-100	5-100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	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)
Airflow rate		m³/min	157+233	178+233	178+233	178+268	233+233	233+233
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)
Machine weight		kg	185+285	200+285	200+285	200+320	285+285	285+285
Sound level		dB(A)	63	63	64	66	65	65
Operation range		°CDB	15 to 49					
Refrigerant	Type		R-410A					
	Charge	kg	6.4+10.5	6.8+10.4	6.8+10.5	6.8+11.8	10.4+10.5	10.5+10.5
Piping connections (Indoor unit)	Liquid	mm	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)
	Gas	mm	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 34.9 (Brazing)	φ 41.3 (Brazing)
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(Brazingx2)					
	Outlet pipe	mm	φ 19.1(Brazingx2)					

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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

						
RWHQ38TSYM	RWHQ40TSYM	RWHQ42TSYM	RWHQ44TSYM	RWHQ46TSYM	RWHQ48TSYM	RWHQ50TSYM
RWHQ18TYM	RWHQ20TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM
RWHQ20TYM	RWHQ20TYM	RWHQ12TYM	RWHQ12TYM	RWHQ16TYM	RWHQ18TYM	RWHQ18TYM
—	—	RWHQ18TYM	RWHQ20TYM	RWHQ18TYM	RWHQ18TYM	RWHQ20TYM
3-phase 4-wire system, 380–415/380 V, 50/60 Hz						
91,200	96,300	101,000	106,000	111,000	115,000	120,000
362,000	382,000	399,000	420,000	440,000	457,000	478,000
106	112	117	123	129	134	140
33.2	35.8	33.2	35.8	37.1	39.5	42.1
4-100	4-100	4-100	4-100	4-100	4-100	3-100
Ivory white (5Y7.5/1)						
Hermetically Sealed Scroll Type						
(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)
233+268	268+268	178+178+233	178+178+268	178+233+233	178+233+233	178+233+268
(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)
285+320	320+320	200+200+285	200+200+320	200+285+285	200+285+285	200+285+320
67	68	65	67	66	66	67
15 to 49						
R-410A						
10.5+11.8	11.8+11.8	6.8+6.8+10.5	6.8+6.8+11.8	6.8+10.4+10.5	6.8+10.5+10.5	6.8+10.5+11.8
φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)	φ 19.1 (Brazing)
φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)	φ 41.3 (Brazing)
φ 19.1(Brazingx2)		φ 19.1(Brazingx3)				
φ 19.1(Brazingx2)		φ 19.1(Brazingx3)				

Specifications



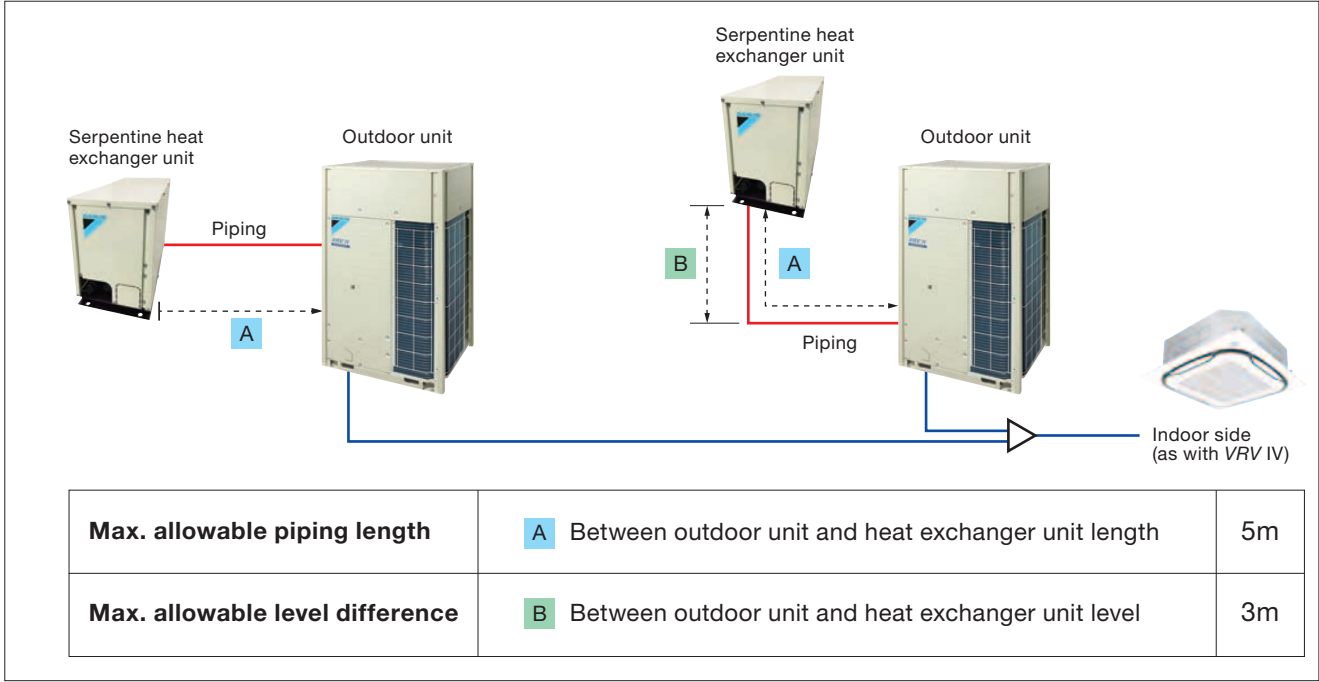
Serpentine Heat Exchanger Unit (HWHQ30A)

New Model Name (RWHQ-TYM, HWHQ30A)		Single Heat Exchanger Unit							
		RWHQ6TYM +HWHQ30A	RWHQ8TYM +HWHQ30A	RWHQ10TYM +HWHQ30A	RWHQ12TYM +HWHQ30A	RWHQ14TYM +HWHQ30A	RWHQ16TYM +HWHQ30A	RWHQ18TYM +HWHQ30A	RWHQ20TYM +HWHQ30A
Rated inlet temperature	°C	40							
Rated water flow	L/min	10							
Range of inlet temperature	°C	20-65							
Range of water flow	L/min	5-20							
Rated Hot-water capacity *1	kW	3.2	3.3	3.3	3.5	3.7	4.0	4.2	4.4
Machine weight	kg	27							
Diameter of Refrigerant pipe (Gas)	mm	φ19.1 (Braze)							
Diameter of Refrigerant pipe (Liquid)	mm	φ19.1 (Braze)							
Diameter of water pipe (Inlet)	mm	φ25.4 (Screw)							
Diameter of water pipe (Outlet)	mm	φ25.4 (Screw)							
Piping length (max)	m	2 (5)							
Design pressure (Water side)	MPa	0.5							
Loss of Head *2	m	0.2							
Casing colour		Ivory white (5Y7.5/1)							
Dimensions (H×W×D)	mm	446 × 306 × 765							

Notes: It is necessary to satisfy the water standard of Daikin for the water that is used. In the case that the water standard is not satisfied, special measures are required. Please contact your local sales office for details.

- *1:[Cooling] Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Inlet water temperature 40°C, Water flow 10L/min, Indoor load 100%, Outdoor-Heat Exchanger Unit 2m.
*2: Water flow 10L/min.

Pipe length restriction of VRV IV Heat Recovery Hot Water System

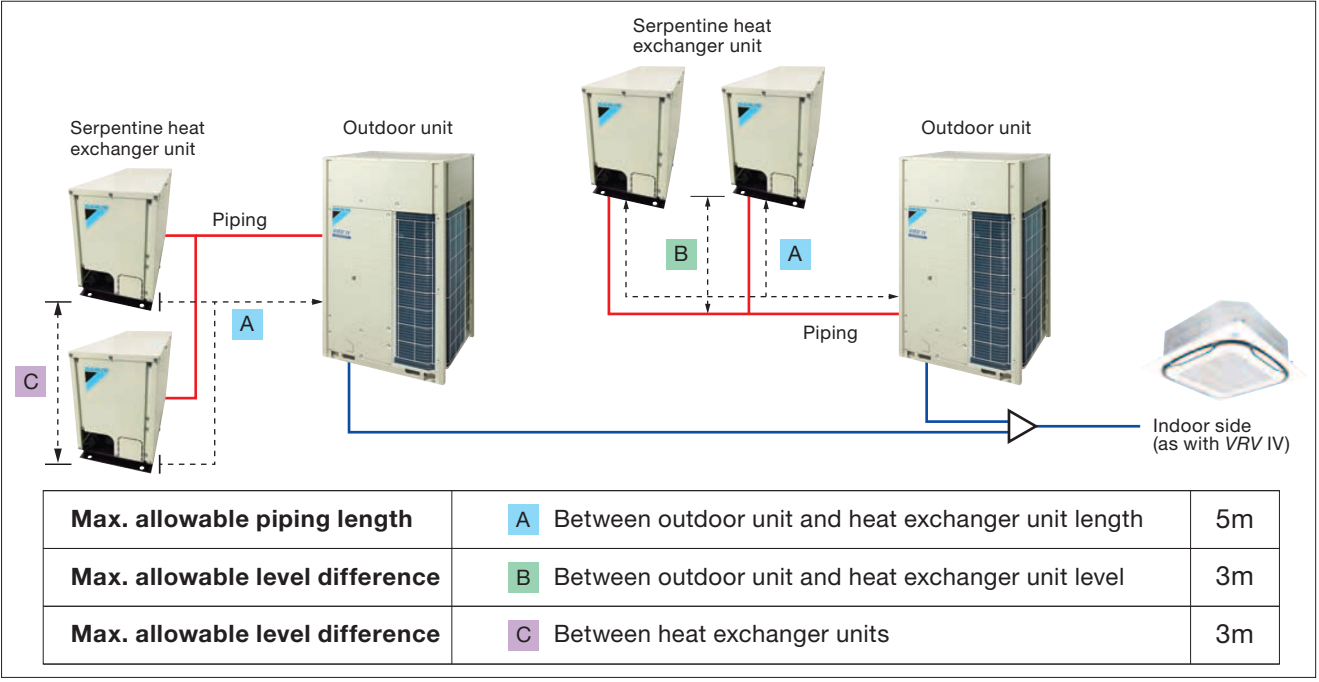


New Model Name (RWHQ-TYM, HWHQ30A)		Double Heat Exchanger Unit							
		RWHQ6TYM +HWHQ30Ax2	RWHQ8TYM +HWHQ30Ax2	RWHQ10TYM +HWHQ30Ax2	RWHQ12TYM +HWHQ30Ax2	RWHQ14TYM +HWHQ30Ax2	RWHQ16TYM +HWHQ30Ax2	RWHQ18TYM +HWHQ30Ax2	RWHQ20TYM +HWHQ30Ax2
Rated inlet temperature	°C	40							
Rated water flow	L/min	20 (10 × 2)							
Range of inlet temperature	°C	20-65							
Range of water flow	L/min	10-40 (5-20 × 2)							
Rated Hot-water capacity *1	kW	5.4	5.6	5.6	5.9	6.2	6.8	7.1	7.4
Machine weight	kg	54 (27 × 2)							
Diameter of Refrigerant pipe (Gas)	mm	φ19.1 (Braze) × 2							
Diameter of Refrigerant pipe (Liquid)	mm	φ19.1 (Braze) × 2							
Diameter of water pipe (Inlet)	mm	φ25.4 (Screw) × 2							
Diameter of water pipe (Outlet)	mm	φ25.4 (Screw) × 2							
Piping length (max)	m	2 (5)							
Design pressure (Water side)	MPa	0.5							
Loss of Head *2	m	0.2							
Casing colour		Ivory white (5Y7.5/1)							
Dimensions (H×W×D)	mm	(446 × 306 × 765) + (446 × 306 × 765)							

Notes: It is necessary to satisfy the water standard of Daikin for the water that is used. In the case that the water standard is not satisfied, special measures are required. Please contact your local sales office for details.

- *1:[Cooling] Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Inlet water temperature 40°C, Water flow 10L/min, Indoor load 100%, Outdoor-Heat Exchanger Unit 2m.
*2: Water flow 10L/min.

Pipe length restriction of VRV IV Heat Recovery Hot Water System



Indoor Unit Lineup

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

VRF 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

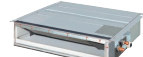


Thin, lightweight, and easy to install in narrow ceiling spaces

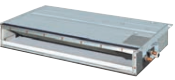


Slim Ceiling Mounted Duct Type (Standard Series)


FXDQ-PBVE(T)



FXDQ-NBVE(T)




Slim design, quietness and static pressure switching

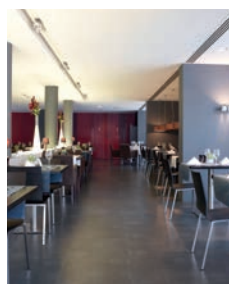


Middle Static Pressure Ceiling Mounted Duct Type

FXSQ-PVE



Middle external static pressure and slim design allow flexible installations



Outdoor-Air Processing Unit

FXMQ-MFV1



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



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)

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



4-Way Flow Ceiling Suspended Type

FXUQ-AVEB




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




Ceiling Suspended Type

FXHQ-MAVE



Slim body with quiet and wide airflow



Floor Standing Type

FXLQ-MAVE



Concealed Floor Standing Type

FXNQ-MAVE



Suitable for perimeter zone air conditioning



Clean Room Air Conditioner

FXBQ-PVE



FXBPQ-PVE




Suitable for hospitals and other clean spaces

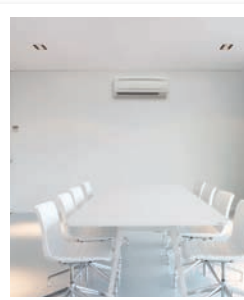


Wall Mounted Type

FXAQ-PVE




Stylish flat panel design harmonised with your interior décor



Floor Standing Duct Type

FXVQ-NY1



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


FTKJ-NVMW



FTKJ-NVMS




Elegant appearance with European style




Wall Mounted Type


FTKS-DVM



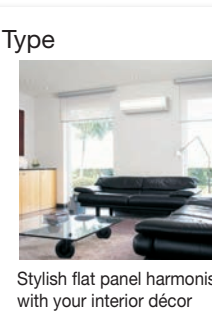
FTKS-BVMA



FTKS-FVM



Stylish flat panel harmonises with your interior décor



Air Treatment Equipment

Heat Reclaim Ventilator with DX-Coil and Humidifier

VKM-GA(M)



Heat Reclaim Ventilator

VAM-GJ




Indoor Unit Lineup

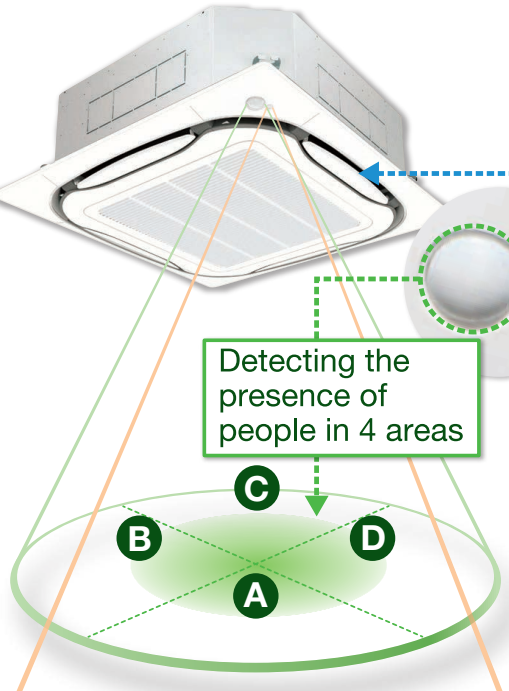
Ceiling Mounted Cassette (Round Flow with Sensing) Type

FXFQ-S

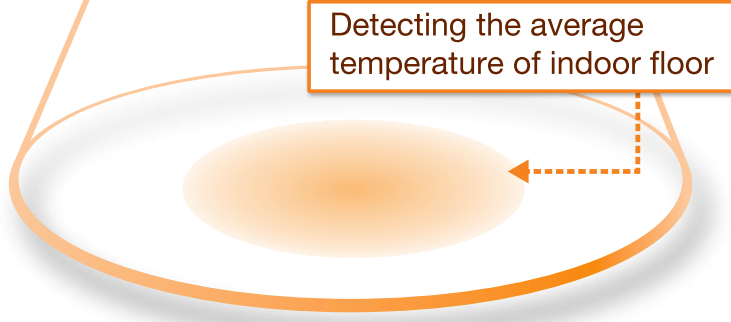
Presence of people and floor temperature can be detected to provide comfort and energy savings



Round flow with sensing



Detecting the presence of people in 4 areas



Detecting the average temperature of indoor floor

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.

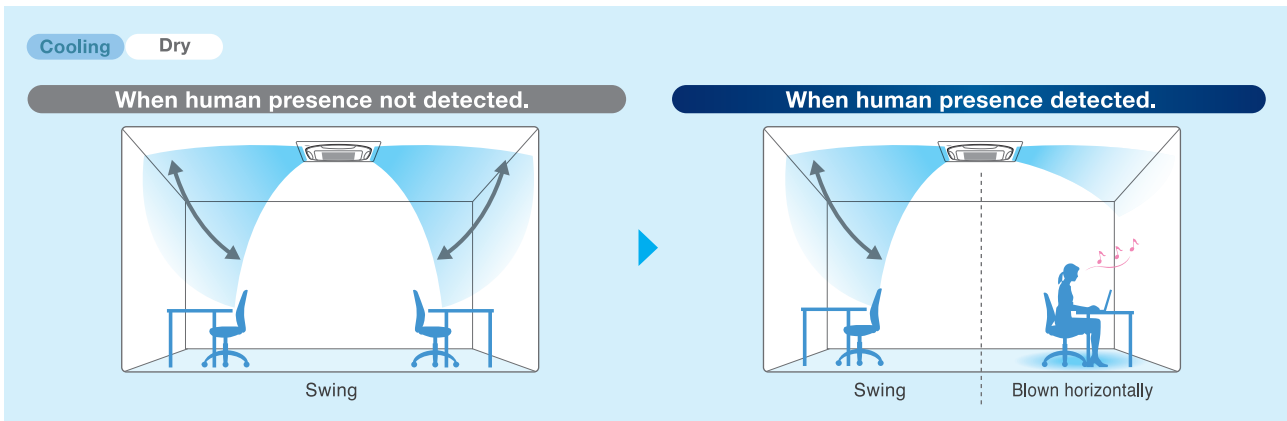
Ceiling height	2.7m	3.5m	4.0m
Detection range (diameter)*2	approx. 11m	approx. 14m	approx. 16m

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

Sensing function

Draft prevention function (default: OFF) *1*2

Auto airflow direction mode

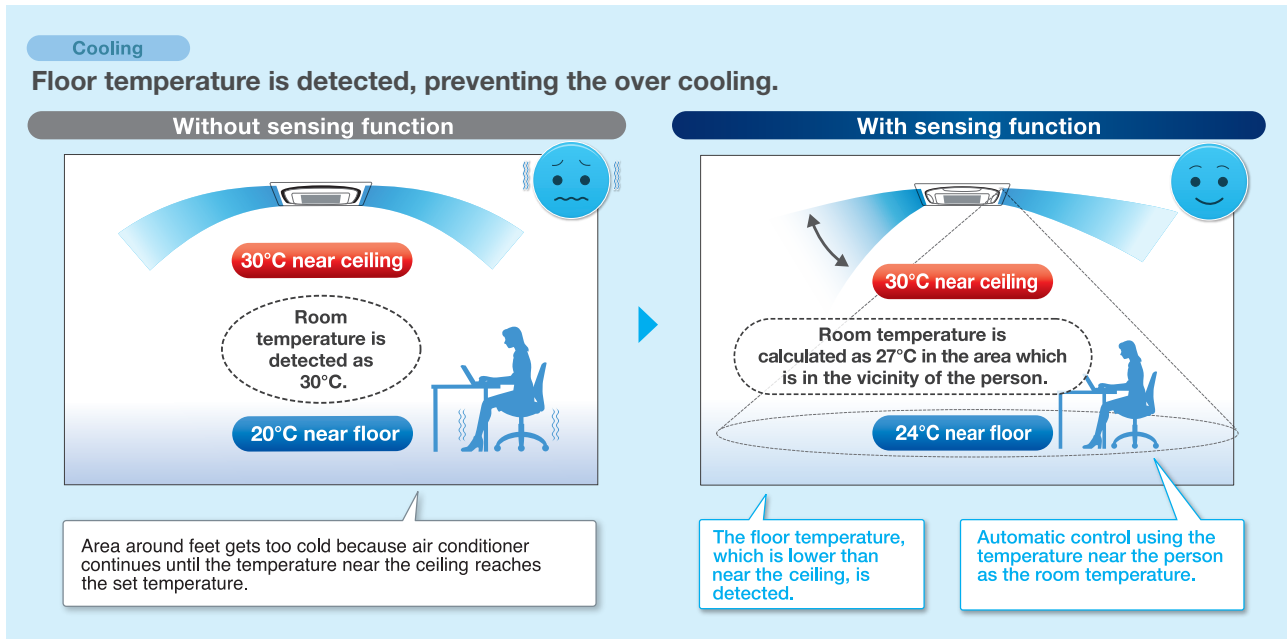


- With the Auto airflow direction mode, flaps are controlled to deliver optimal air distribution for both cooling and heating operations when the room is empty.
- When a person is detected, drafts are prevented by making the flap horizontal.
- When a person is not detected for 5 minutes, the unit automatically returns to controlling the flaps for an unoccupied room.

*1. Airflow direction should be set to Auto. *2. Draft prevention function is OFF in the initial setting. It can be set ON using the remote controller.

Comfort and Energy saving preventing over cooling *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 should be set to Auto. *2. Draft prevention function is set OFF in the initial setting.

Ceiling Mounted Cassette (Round Flow with Sensing) Type

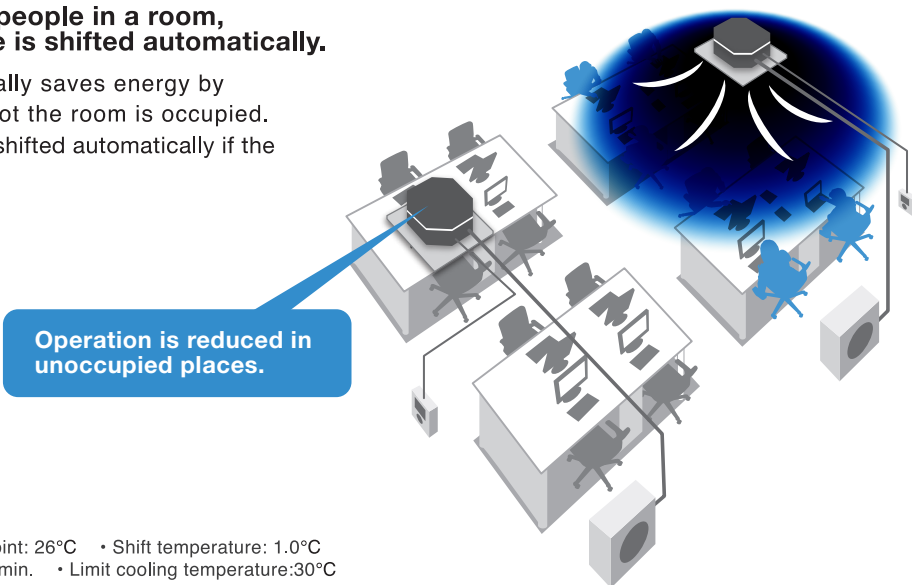
FXFQ-S

Sensing sensor mode*1*2

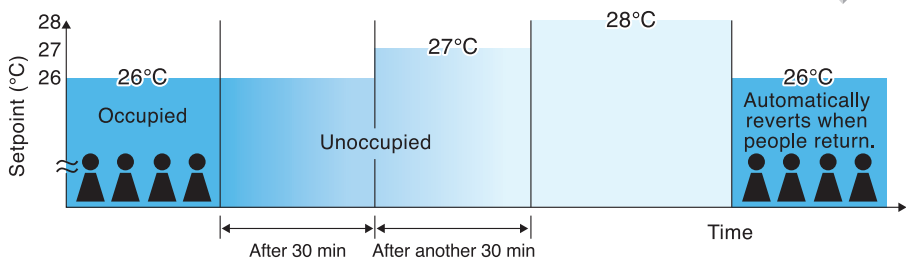
Sensing sensor low mode (default: OFF)

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.



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



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

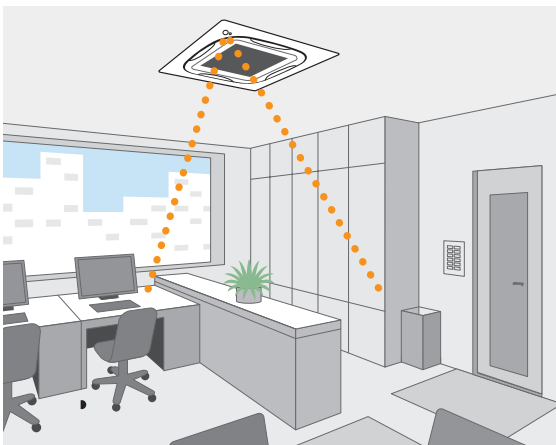
Shift temperature and time can be selected from 0.5 to 4°C in 0.5°C increments and 15, 30, 45, 60, 90 or 120 minutes respectively with remote controller.

Sensing sensor stop mode (default: OFF)

When the room is empty, 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

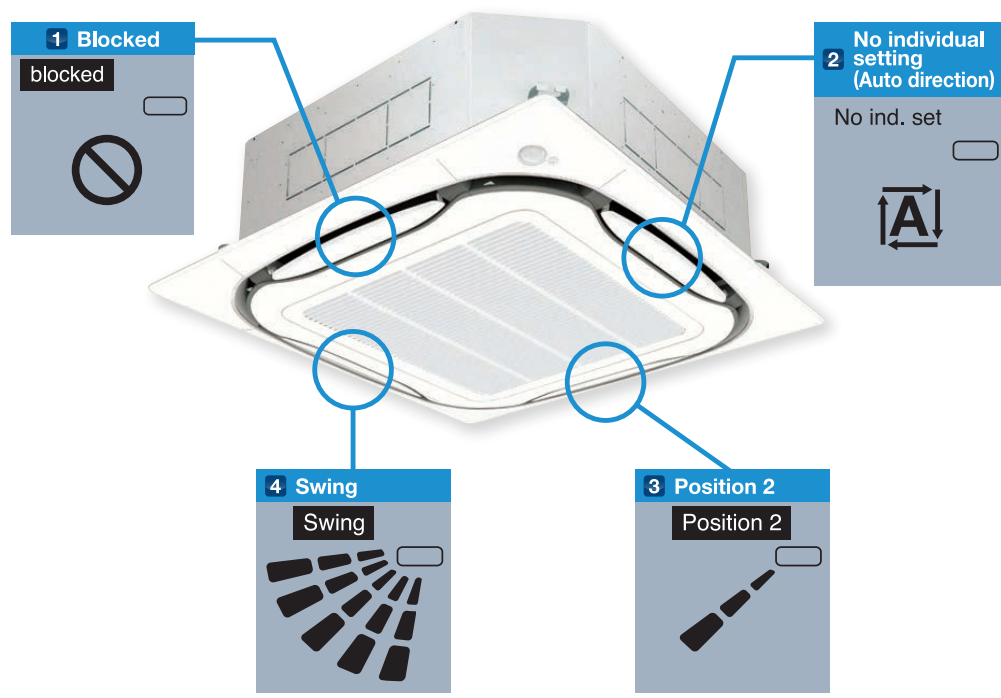
Individual airflow setting

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.)

Unit1	Outletmark	Air direc.	Indiv.
	<input type="checkbox"/>	blocked	ON
	<input type="checkbox"/>	Auto	OFF
	<input type="checkbox"/>	Position 2	ON
	<input type="checkbox"/>	Swing	ON

Return

Example



Ceiling Mounted Cassette (Round Flow with Sensing) Type

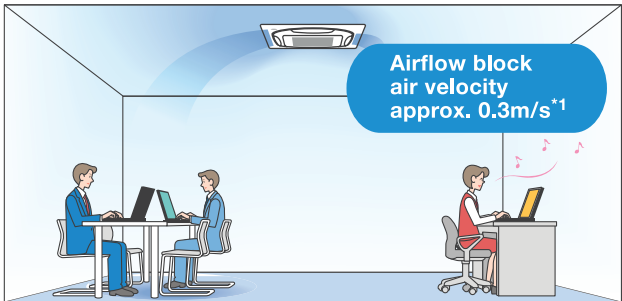
FXFQ-S

Airflow block function*1

Total comfort by individual airflow direction control and “airflow block function”

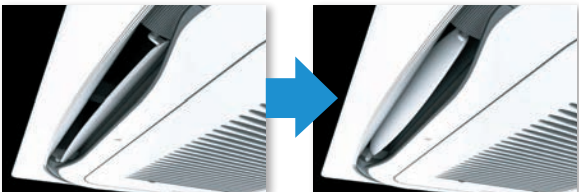
The system automatically saves energy by detecting whether or not the room is occupied. The set temperature is shifted automatically if the room is unoccupied.

- 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).

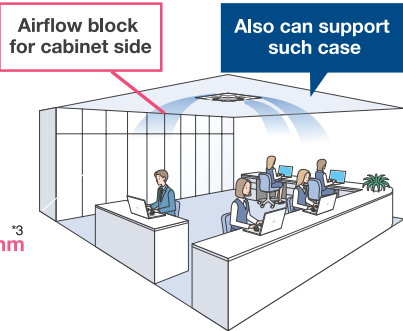
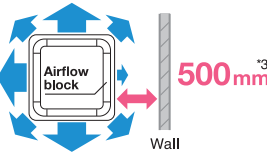


Airflow block function prevents uncomfortable drafts by reducing air velocity to approx. 0.3m/s.*2

Easy setup with remote controller

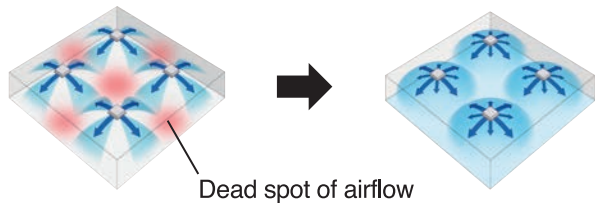


The airflow block function is useful when rearranging the room layout.



*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.

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

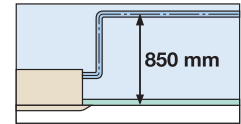


- Improved energy efficiency due to the new heat exchanger with smaller tubes, DC fan motor, and DC drain pump motor.

Low operation sound level

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

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



- Selectable airflow rate: 3 steps and Auto. (Auto airflow rate is available when BRC1E62 is used.)

- 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.)



Specifications

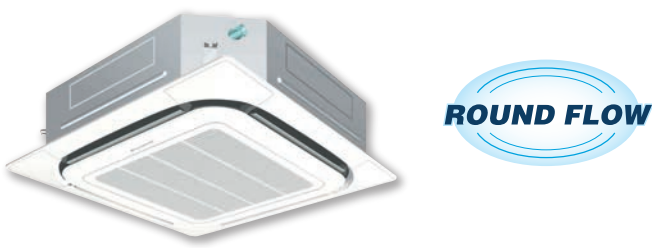
MODEL		FXFQ25SVM	FXFQ32SVM	FXFQ40SVM	FXFQ50SVM	FXFQ63SVM	FXFQ80SVM	FXFQ100SVM	FXFQ125SVM	
Power supply		1-phase, 220-240 V/220-230 V, 50/60 Hz								
Cooling capacity		kcal/h	2,400	3,100	3,900	4,800	6,100	7,700	9,600	12,000
		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800
		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
Power consumption	Cooling	kW	0.031		0.041	0.080	0.095		0.194	0.219
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	23.5/18.5/13.5	23.5/19.5/15.0	33.0/26.0/19.0	34.5/27.5/21.0
		cfm	441/406/353		512/459/388	777/618/477	830/653/477	830/688/530	1,165/918/671	1,218/971/741
Sound level (H/M/L)		dB(A)	30/28.5/27		31/29/27	36/32/28	38/33/28	38/35/31	44/38/32	45/40/35
Dimensions (HxWxD)		mm	246x840x840						288x840x840	
Machine weight		kg	19			23			26	
Piping connections	Liquid (Flare)	mm	φ6.4				φ9.5			
	Gas (Flare)		φ12.7				φ15.9			
	Drain		VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model		BYCQ125B-W1							
	Colour		Fresh white							
	Dimensions(HxWxD)	mm	50x950x950							
	Weight		kg	5.5						

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

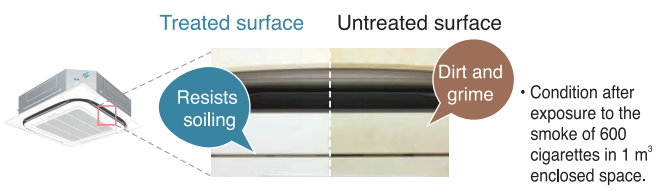


Ceiling Mounted Cassette (Round Flow) Type FXFQ-LU

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.



- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.
- The horizontal louvres prevent dew condensation. The non-flocking surfaces, which repel dirt, are easy to clean.
- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)
- The air filter has an anti-mould and antibacterial treatment that prevents the growth of mould generated from dust or moisture that may adhere to 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.

All-round flow 4-way flow 3-way flow L-shaped 2-way flow

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.

Specifications

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		0.047	0.052	0.066	0.093	0.187	0.209
Casing		Galvanised steel plate								
Airflow rate (H/M/L)		m³/min	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		530/459/388	565/477/388	671/583/477	742/636/530	1,130/918/706	1,165/989/794
Sound level (H/M/L)		dB(A)	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 (HxWxD)		mm	246x840x840				288x840x840			
Machine weight		kg	19.5				22		25	
Piping connections	Liquid (Flare)	mm	φ 6.4				φ 9.5			
	Gas (Flare)		φ 12.7				φ 15.9			
	Drain		VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model	BYCP125K-W1								
	Colour	Fresh white								
	Dimensions(HxWxD)	mm	50x950x950							
	Weight	kg	5.5							

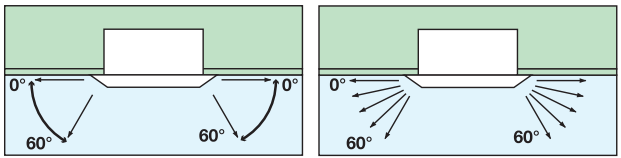
Note: Specifications are based on the following conditions:
•Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
•Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
(See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

Ceiling Mounted Cassette (Compact Multi Flow) Type FXZQ-M

Quiet, compact, and designed for user comfort

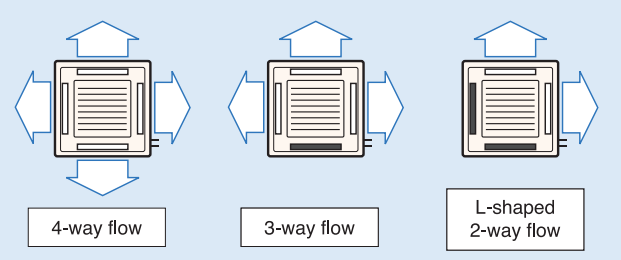


- Comfortable airflow
 - 1 Wide discharge angle: 0° to 60°
 - Auto swing
 - Fixed angles: 5 levels



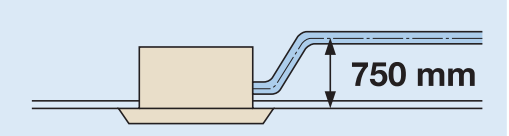
*Angles can be also set on site to prevent drafts (0°-35°) or soiling of the ceiling (25°-60°), other than standard setting (0°-60°).

- 2, 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.

- Low operation sound level
- Dimensions correspond with 600 mm X 600 mm architectural module ceiling design specifications.
- Drain pump is equipped as standard accessory with 750 mm lift.



Specifications

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	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	30/25-32/26		32/26-34/28	36/28-37/29	41/33-42/35
Dimensions (HxWxD)	mm	286x575x575				
Machine weight	kg	18				
Piping connections	Liquid (Flare)	φ 6.4				
	Gas (Flare)	φ 12.7				
	Drain	VP20 (External Dia, 26/Internal Dia, 20)				
Panel (Option)	Model	BYFQ60B3W1				
	Colour	White (6.5Y9.5/0.5)				
	Dimensions(HxWxD)	55x700x700				
	Weight	2.7				

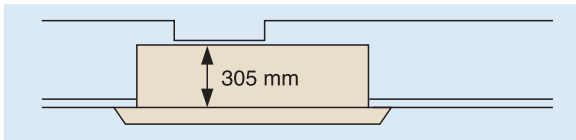
Note: Specifications are based on the following conditions:
•Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
•Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See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

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



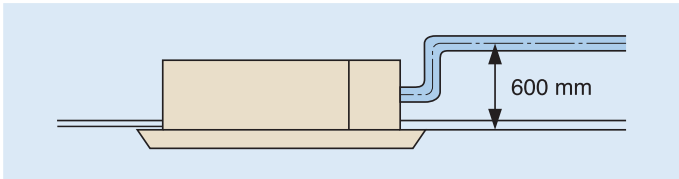
- The thin unit (only 305 mm high) can be installed in a ceiling space as narrow as 350 mm. All models feature a compact design with a depth of only 600 mm.



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

- Low operation sound level
- Designed with higher airflow suitable for high ceiling application up to 3 metres.
- Providing 2 different settings of standard and ceiling soiling prevention, the auto swing mechanism realises even distribution of airflow and room temperature.

- Drain pump is equipped as standard accessory with 600 mm lift.



- Two types of optional high-efficiency filter are available (65% and 95%, colourimetric method).

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

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

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

Specifications

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 (H/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	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 9.5	φ 9.5	φ 9.5
	Gas (Flare)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 15.9	φ 15.9	φ 15.9
	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

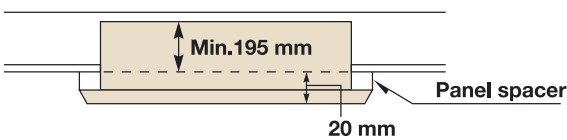
Note: Specifications are based on the following conditions;
•Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
•Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
(See 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.
During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Ceiling Mounted Cassette Corner Type FXXQ-MA

Slim design for flexible installation

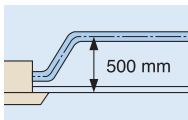


- Slim body needs only 220 mm space above the ceiling. If you use a panel spacer (option), the unit can be installed in the minimum space of 195 mm.



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

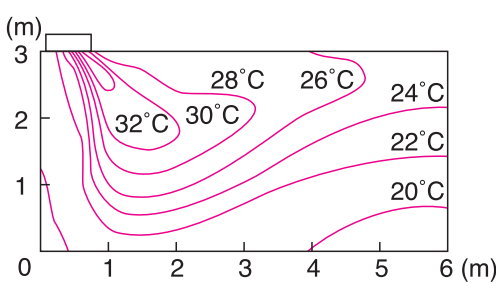
- Drain pump is equipped as standard accessory with 500 mm lift.



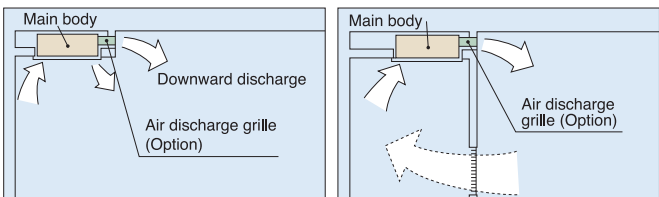
- A long-life filter (maintenance free up to one year*) is equipped as standard accessory.

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

- 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).

Specifications

MODEL			FXXQ25MAVE	FXXQ32MAVE	FXXQ40MAVE	FXXQ63MAVE
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 (HxWxD)		mm	215x1,110x710	215x1,110x710	215x1,110x710	215x1,310x710
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 (HxWxD)	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: (FXXQ-MA) Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
During actual operation, these values are normally somewhat higher as a result of ambient conditions.

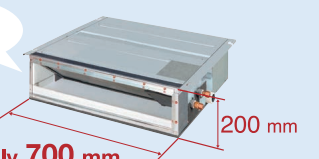
Slim Ceiling Mounted Duct Type (Standard Series) FXDQ-PB / NB

Slim design, quietness and static pressure switching

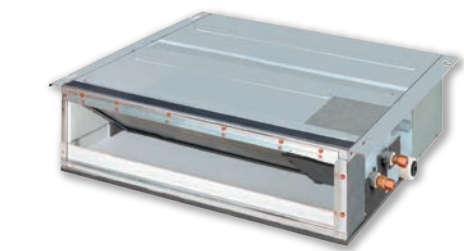
Suitable to use in drop-ceilings!

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

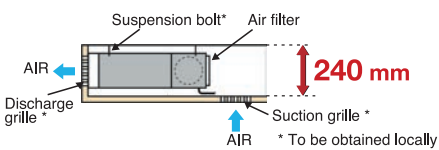
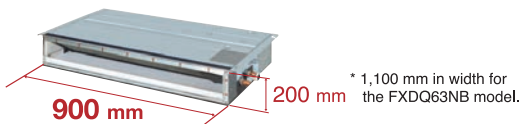
Great for hotel use!



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

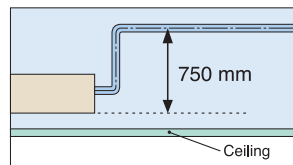


- Only 200 mm in height, this model can be installed in rooms with as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab.



- 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



Specifications

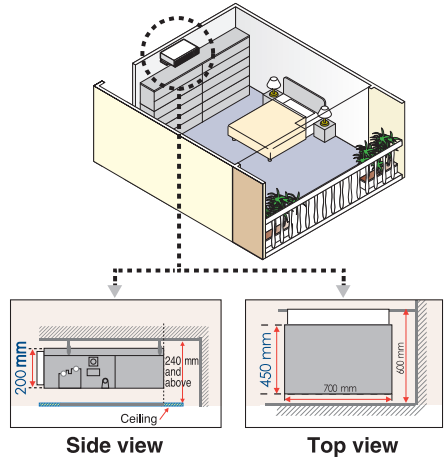
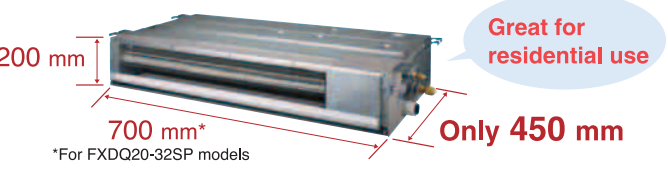
MODEL	with drain pump		FXDQ20PBVE	FXDQ25PBVE	FXDQ32PBVE	FXDQ40NBVE	FXDQ50NBVE	FXDQ63NBVE
	without drain pump		FXDQ20PBVET	FXDQ25PBVET	FXDQ32PBVET	FXDQ40NBVET	FXDQ50NBVET	FXDQ63NBVET
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
		Btu/h	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 (FXDQ-PBVE)*1	Cooling	kW	0.086	0.086	0.089	0.160	0.165	0.181
Power consumption (FXDQ-PBVET)*1	Cooling	kW	0.067	0.067	0.070	0.147	0.152	0.168
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	10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
		cfm	282/254/226	282/254/226	282/254/226	371/335/300	441/388/353	583/512/459
External static pressure		Pa	30-10 *2			44-15 *2		
Sound level (HH/H/L)*1*3		dB(A)	28/26/23		28/26/24	30/28/26	33/30/27	33/31/29
Dimensions (HxWxD)		mm	200x700x620	200x700x620	200x700x620	200x900x620	200x900x620	200x1,100x620
Machine weight		kg	23.0	23.0	23.0	27.0	28.0	31.0
Piping connections	Liquid (Flare)		φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 9.5
	Gas (Flare)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 15.9
	Drain		VP20 (External Dia, 26/Internal Dia, 20)					

Notes: 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) FXDQ-SP

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.



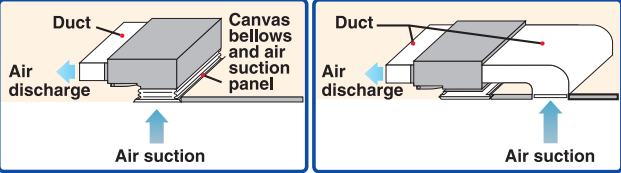
Specifications

MODEL			FXDQ20SPV1	FXDQ25SPV1	FXDQ32SPV1	FXDQ40SPV1	FXDQ50SPV1	FXDQ63SPV1
Power supply			1-phase, 220-240 V, 50 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 *1	Cooling	kW	0.072	0.075	0.078	0.180	0.180	0.196
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	15.0/13.0/10.5		20.0/16.0/12.5
		cfm	307/268/229	318/282/247	353/318/282	530/459/371		706/565/441
External static pressure		Pa	30-10 *2			50-20 *2		40-20 *2
Sound level (HH/H/L) *1 *3		dB(A)	33/31/29		34/32/30	35/33/31		37/35/33
Dimensions (H×W×D)		mm	200×700×450			200×900×450		200×1,100×450
Machine weight		kg	17			20		23
Piping connections	Liquid (Flare)	mm	φ 6.4					φ 9.5
	Gas (Flare)		φ 12.7					φ 15.9
	Drain		VP20 (External Dia, 26/Internal Dia, 20)					

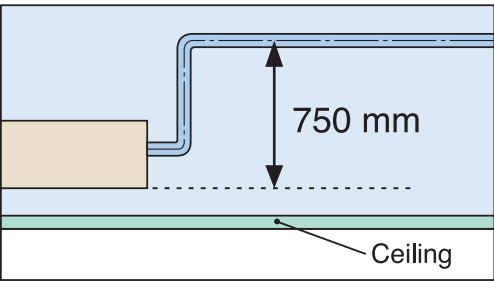
Notes: Specifications are based on the following conditions:
•Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
•Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See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



- 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.



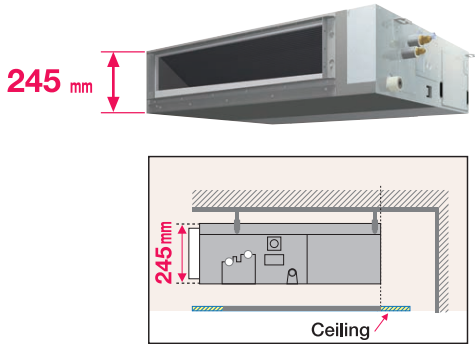
Middle Static Pressure Ceiling Mounted Duct Type

FXSQ-P

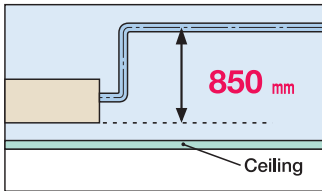
Middle external static pressure and slim design allow flexible installations

Installation flexibility

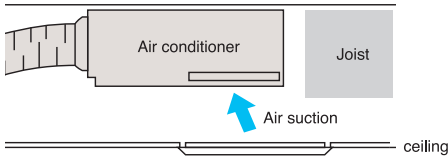
- Slim design**
- With a height of only 245 mm, installation is possible even in buildings with narrow ceiling spaces.



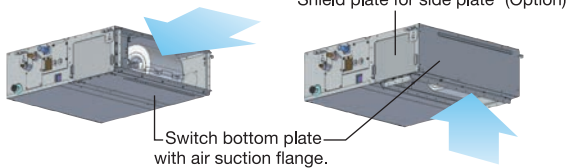
- Standard DC drain pump**
- DC drain pump is equipped as standard accessory with 850 mm lift.



- Bottom suction possible**
- Bottom suction is possible which facilitate 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**
Shield plate for side plate* (Option)

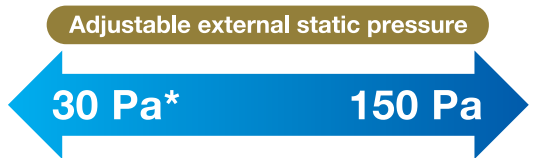


*An optional shield plate for side plate is required if wiring connections and maintenance of control box are needed from under the unit. This option is only available for FXSQ20-125P models.



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.



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

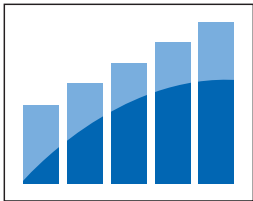
Comfortable airflow is achieved in accordance with conditions such as duct length.

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

Comfort

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

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



Low operation sound level (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.

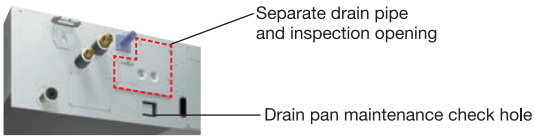
Specifications

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)	m³/min	9/7.5/6.5	9/7.5/6.5	9.5/8/7	15/12.5/10.5	17/14.5/11.5	
	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 (HxWxD)		mm	245X550X800		245X700X800	245x1,000x800	
Machine weight		kg	25		27	35	
Piping connections	Liquid (Flare)	mm	φ 6.4				
	Gas (Flare)		φ 12.7				
	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)	m³/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 (HxWxD)		mm	245x1,000x800		245x1,400x800		245x1,550x800
Machine weight		kg	35	37	46	47	52
Piping connections	Liquid (Flare)	mm	φ 9.5				
	Gas (Flare)		φ 15.9				
	Drain		VP25 (External Dia, 32/Internal Dia, 25)				

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.)



Notes: 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 value 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

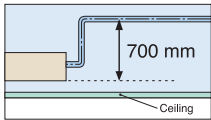
FXMQ-P / MA

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, thus 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 from the 390 mm height of the 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.)

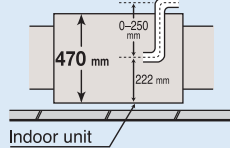
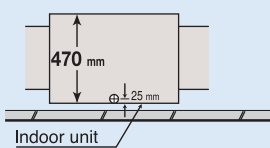


- Simplified Static Pressure Control
External static pressure can be easily adjusted using a change-over switch inside the electrical box to meet the resistance in the duct system.



- Built-in Drain Pump (Option)
Housing the drain pump inside the unit reduces the space required for installation.

- Without drain pump
- With drain pump



Specifications

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
Casing		Galvanised steel plate				
Airflow rate (HH/H/L)	m³/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 (HxWxD)	mm	300X550X700	300X550X700	300X550X700	300X700X700	300X1,000X700
Machine weight	kg	25	25	25	28	36
Piping connections	Liquid (Flare)	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 6.4
	Gas (Flare)	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7
	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
Casing		Galvanised steel plate				
Airflow rate (HH/H/L)	m³/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 (HxWxD)	mm	300X1,000X700	300X1,000X700	300X1,400X700	300X1,400X700	300X1,400X700
Machine weight	kg	36	36	46	46	47
Piping connections	Liquid (Flare)	φ 9.5	φ 9.5	φ 9.5	φ 9.5	φ 9.5
	Gas (Flare)	φ 15.9	φ 15.9	φ 15.9	φ 15.9	φ 15.9
	Drain	VP25 (External Dia, 32/Internal Dia, 25)				

Notes: 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 standard 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.

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
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	48/45	48/45
	240 V	49/46	49/46
Dimensions (HxWxD)	mm	470X1,380X1,100	470X1,380X1,100
Machine weight	kg	137	137
Piping connections	Liquid (Flare)	φ 9.5	φ 9.5
	Gas (Brazing)	φ 19.1	φ 22.2
	Drain	PS1B	

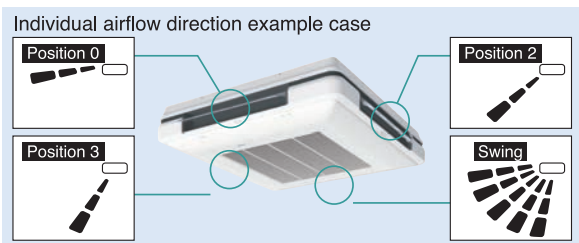
Notes: Specifications are based on the following conditions;
•Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
•Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See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

4-way Flow Ceiling Suspended Type

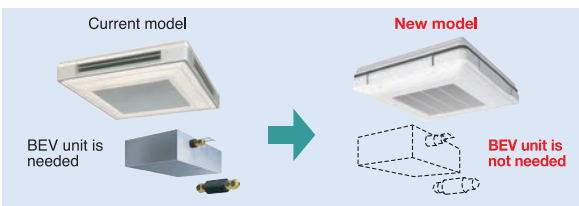
FXUQ-A

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

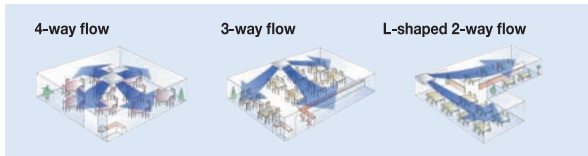
- Unit body and suction panel adopted round shapes and realised a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bare ceilings.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198 mm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



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



- 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.)



Specifications

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
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 (HxWxD)	mm	198x950x950	
Machine weight	kg	26	27
Piping connections	Liquid (Flare)	φ9.5	
	Gas (Flare)	φ15.9	
	Drain	VP20 (External Dia, 26/Internal Dia, 20)	

Notes: 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: (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".

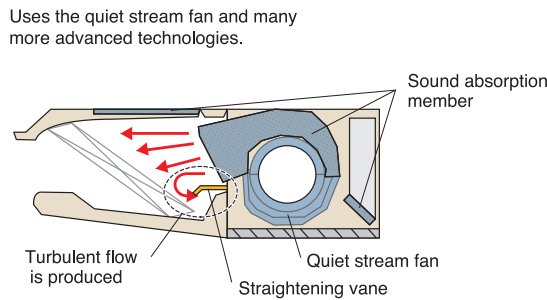
Ceiling Suspended Type

FXHQ-MA

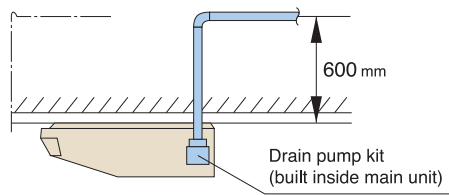
Slim body with quiet and wide airflow



- Adoption of QUIET STREAM FAN



- Low operation sound level
- Installation is easy
 - Drain pump kit (option) can be easily incorporated.

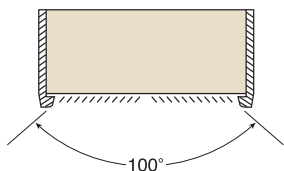


Specifications

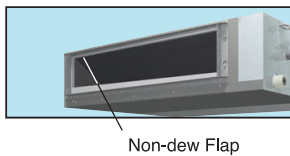
MODEL		FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE	
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz			
Cooling capacity	kcal/h	3,100	6,100	9,600	
	Btu/h	12,300	24,200	38,200	
	kW	3.6	7.1	11.2	
Power consumption	Cooling	kW	0.111	0.115	0.135
Casing		White (10Y9/0.5)			
Airflow rate (H/L)	m³/min	12/10	17.5/14	25/19.5	
	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)		

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.

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



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



- 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

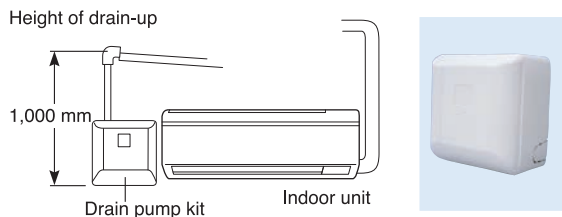
FXAQ-P

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
- Drain pan and air filter can be kept clean by mould-proof polystyrene.
- Vertical auto-swing realises efficiency of air distribution. The louvre closes automatically when the unit stops.
- 5 steps of discharge angle can be set by remote controller.



- Discharge angle is automatically set at the same angle as the previous operation when restarting. (Initial setting: 10° for cooling)
- Flexible installation
 - Drain pipe can be fitted to 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.



Specifications

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
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 (HxWxD)	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	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 9.5
	Gas (Flare)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 15.9
	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.

Floor Standing Type

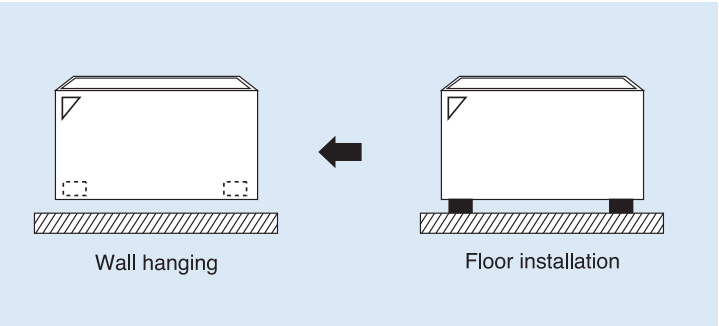
FXLQ-MA

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



Specifications

MODEL		FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE
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
Casing		Ivory white (5Y7.5/1)					
Airflow rate (H/L)	m³/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
	240 V		37/34	37/34	37/34	40/35	41/36
Dimensions (HxWxD)	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
Machine weight	kg	25.0	25.0	30.0	30.0	36.0	36.0
Piping connections	Liquid (Flare)	mm	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 9.5
	Gas (Flare)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 15.9
	Drain		21O.D.				

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

Concealed Floor Standing Type

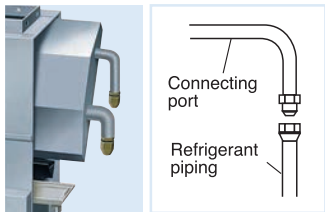
FXNQ-MA

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.



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

•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

Specifications

MODEL			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			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)		mm	610×930×220	610×930×220	610×1,070×220	610×1,070×220	610×1,350×220	610×1,350×220
Machine weight		kg	19.0	19.0	23.0	23.0	27.0	27.0
Piping connections	Liquid (Flare)	mm	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 9.5
	Gas (Flare)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 15.9
	Drain		21O.D.					

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

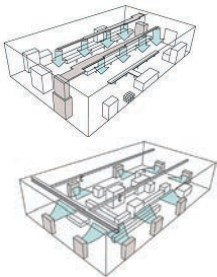
Floor Standing Duct Type

FXVQ-N

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 easy installation.

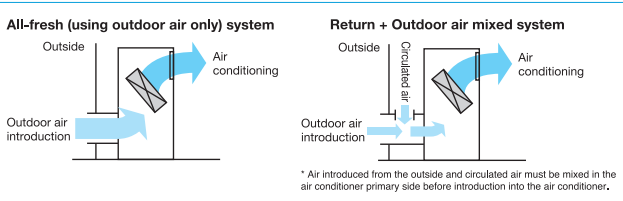
•Full-scale duct connection airflow allows for air conditioning evenly in spacious areas.



- Duct connection airflow type
- Adding the plenum chamber (option) allows for simple operation with direct airflow.
- * Note that the operation sound increases by approximately 5dB(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.



Specifications

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	4.70
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	66
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	m³/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	390
	Drive system		Belt drive system					

Notes: 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

FXBQ-P

Suitable for hospitals and other clean spaces





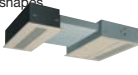
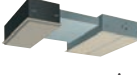
Easily provides the high cleanliness environment required by various industries

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 cleanliness 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 cleanliness and air-conditioning effect. A low flow speed prevents drying of the affected part and the experience of drafts.
Cleanliness class ^{*1}	100,000 to 10,000	10,000
Wind speed	1.0m/s or higher	Approximately 0.5m/s
Blow method	<div>Integrated outlet unit model</div> <ul style="list-style-type: none">Concentrated air conditioning centered directly under the unitEasy installation  <p>Applications: Surgery prep rooms, recovery rooms, nurse stations, etc.</p>	<div>Floor-level intake type</div> <ul style="list-style-type: none">Total air conditioning with an emphasis on cleanliness  <p>Applications: Operating theatres, delivery rooms, etc.</p>
	<div>Separate outlet unit model</div> <ul style="list-style-type: none">Somewhat concentrated air conditioning centered directly under the outletCan provide air conditioning in rooms with irregular shapes  <p>Applications: CCU^{*2}, sterile rooms, etc.</p>	<div>Floor-level intake type</div> <ul style="list-style-type: none">Total air conditioning with an emphasis on cleanlinessMaintenance possible from a different room  <p>Applications: Premature nurseries, newborn nurseries, ICU^{*3}, etc.</p>

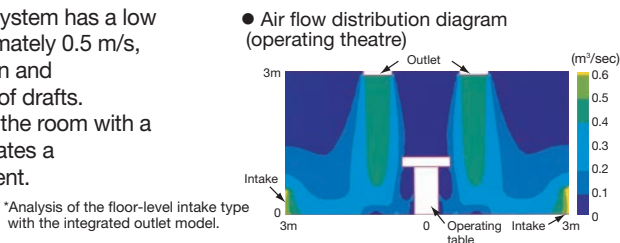
^{*1} Cleanliness class. A scale expressing the cleanliness of air established by NASA (National Aeronautics and Space Administration). Class 10,000 represents a state of less than 10,000 minute particles of diameter under 0.5 μm per cubic foot. For comparison, the cleanliness of a typical office is 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.

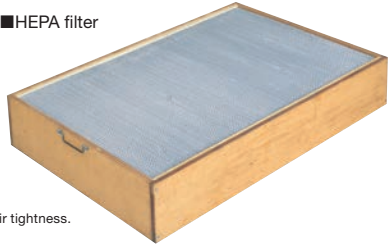


Filtration

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.



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



Installation example (in a medical facility)

Antibacterial

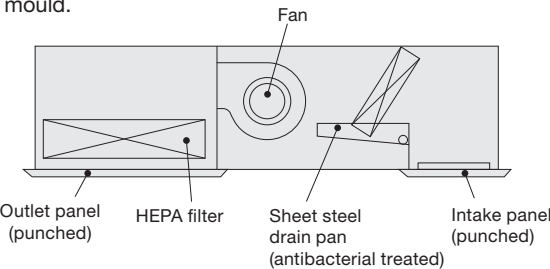
Suppresses the propagation of bacteria in the duct with a proprietary antibacterial coating

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).



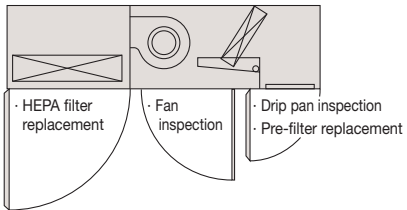
Labor-saving

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.



Quiet

All models incorporate an industry-leading quiet design, operating at under 41dB

Operating noise is substantially reduced by employing a proprietary double-structure outlet filter chamber, sound absorbing insulation, and a low pressure-loss HEPA filter. Sound level of all models are under 41dB (38dB during low-fan speed operation).

^{*}Operating noise may be greater than these values in highly reflective locations.

Indoor Unit Lineup

Clean Room Air ConditionerFXBQ-P

Specifications

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)		m³/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(Optional)	HEPA filter		BAFH82A50		BAFH82A63	
Panel (Option)	Ceiling intake type	Model	BYB82A50C	BYB82A63C	BYB82A63CP	
	Floor-level intake type		BYB82A50W	BYB82A63W	BYB82A63WP	

Notes: 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.



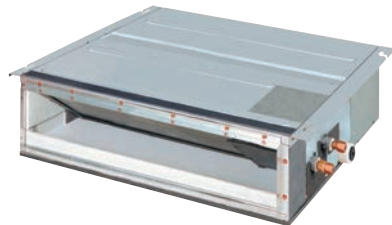
Warning

- 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

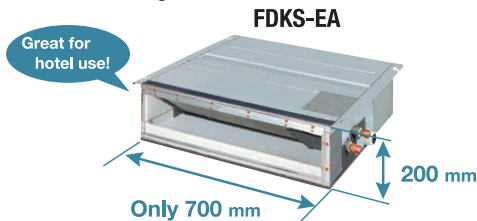
Slim Ceiling Mounted Duct TypeFDKS-EA/C(A)



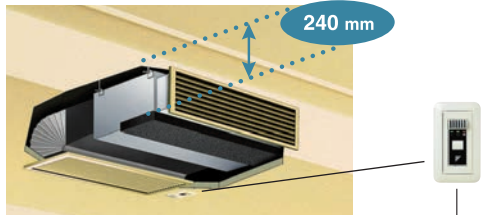
Standard accessory
Note: Remote controllers other than the standard accessory wireless remote controller cannot be used.

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, made the installation easy in limited spaces. With only 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		

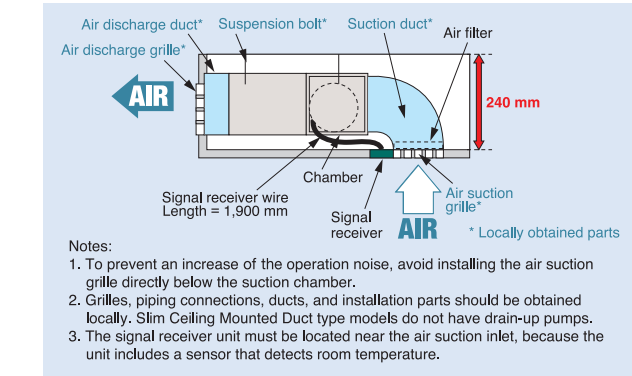


Signals from the wireless remote controller are transmitted to the signal receiver.

Specifications

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)	φ6.4					
	Gas (Flare)	φ9.5					
	Drain	φ12.7					
Heat insulation		VP20 (External Dia. 26/Internal Dia. 20)					
External static pressure	Pa	Both liquid and gas pipes					
		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.



- Notes:
1. To prevent an increase of the 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.

Indoor Unit Lineup



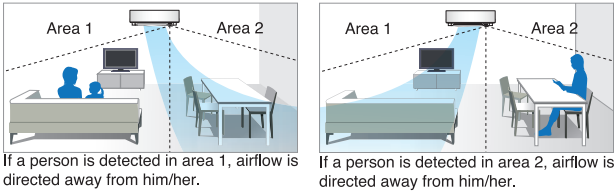
Wall Mounted Type

FTKJ-N

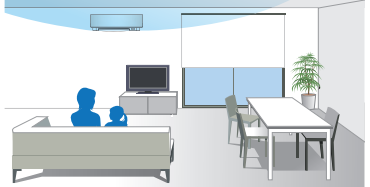
Elegant appearance with European style



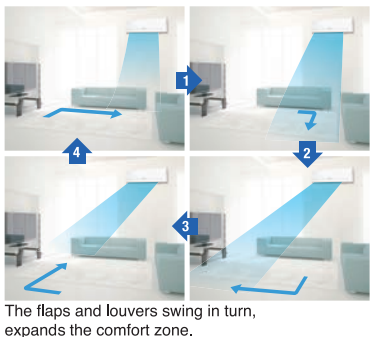
- Elegant Appearance with Curved Panel
 - The sleek design of the FTKJ-N indoor unit features a uniquely European style. This elegant body houses state-of-the-art technology which delivers superior performance. The FTKJ-N series offers a versatile choice for home-owners, designers and architects alike.
- Two-Area Intelligent Eye
 - A combination of Comfort Airflow Mode and Intelligent Eye directs airflow away from people to avoid impacts. 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.



- Comfort Airflow Mode
 - Comfort Airflow Mode prevents uncomfortable impacts from blowing directly to a person's body. During cooling operation, the flap moves upwards to prevent cold impacts.



- 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, even for large spaces. To start 3D Airflow, push both the Vertical and Horizontal Auto-Swing buttons. The flaps and louvers swing in turn.



Specifications

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)	m ³ /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	303x998x212					
Machine weight		kg					
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

FTKS-D/B/F



* 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).

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

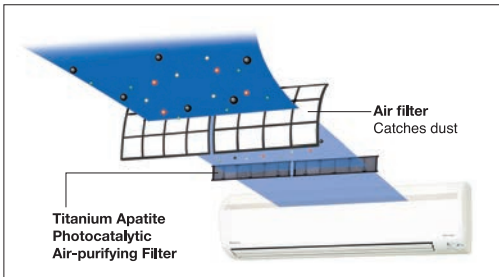
When you go out

- 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.

A uniform temperature is achieved throughout the entire room.

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

•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.

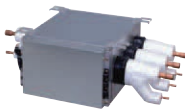
Bacteria Removal Test
Testing method: dropping method
Result certificate: No. 012553-1 and 012553-2
Testing organisation: Japan Spinners Inspecting Foundation



Specifications

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



Specifications

MODEL				BPMKS967A3		BPMKS967A2	
Power supply				1-phase, 220-240 V/220-230 V, 50/60 Hz			
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	ø9.5×1			
		Branch		ø6.4×3		ø6.4×2	
	Gas	Main	mm	ø19.1×1			
		Branch		ø15.9×3		ø15.9×2	
Heat insulation				Both liquid and gas pipes			
Connectable indoor units				2.0 kW class to 7.1 kW class			
Min. rated capacity of connectable indoor units		kW		2.0			
Max. rated capacity of connectable indoor units		kW		20.8		14.2	

Note: * Total auxiliary piping length.

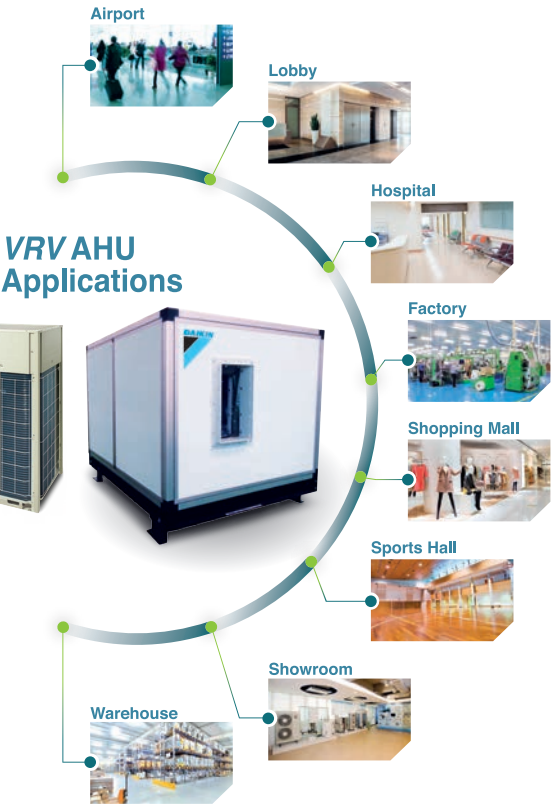
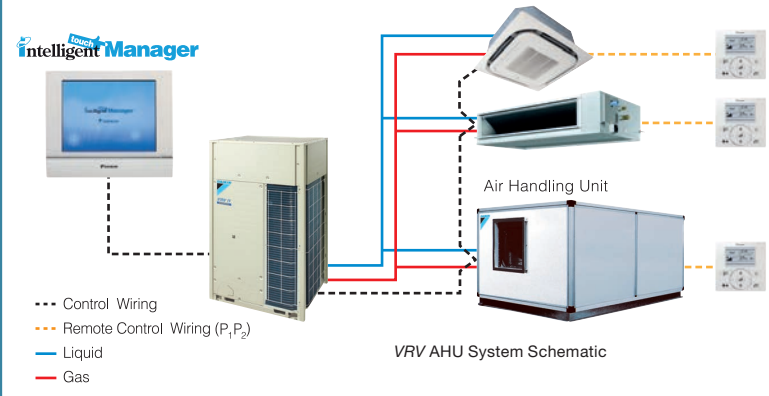
VRV AHU System

VRV AHU Introduction

Daikin released 2 series of VRV AHU, standard series model AHUR-DBV/CBV and outdoor air series model AHUR-DBL/CBL. It is a DX AHU that is specially designed to operate with the VRV outdoor unit. This enabled the users to reduce maintenance costs and enjoy more space savings.

Daikin VRV AHU improves the indoor air quality caused by haze, pollutants, etc with options of pre-filters and primary filters. This is the only total AHU solutions provided and manufactured completely by Daikin.

Total Daikin Solutions (All products manufacture by Daikin Factory)



What is VRV?

Daikin VRV system is a multi-split type air conditioner for commercial buildings that uses variable refrigerant flow control invented by Daikin.



It enables long piping length up to 165m and maximum level difference (between outdoor and indoor units) of 90m to provide more design flexibility which can match even large-sized buildings.

It allows one touch selection control using intelligent Touch Manager and includes options to link with BACnet® to enhance the Building Management System (BMS).

VRV AHU Application

From small to large commercial spaces, Daikin offers a wide range of R-410A inverter condensing units for use in conjunction with Air Handling Units (AHU) from 6 HP to 120 HP.

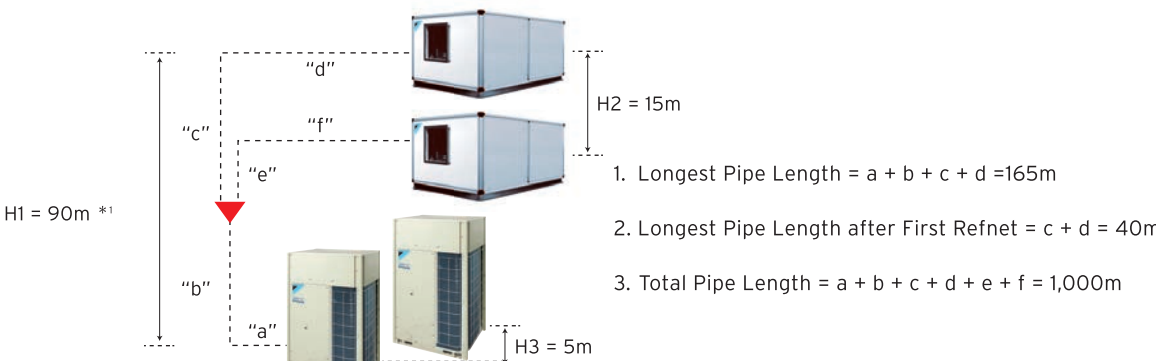
AHU provides large air volumes and high ESP (External Static Pressure) enabling the use of extensive ductworks. The refrigerant flows through the copper pipes using R-410A and operates like a large VRV fan coil unit.

Daikin AHU represents the ideal solution for large storage places, atrium, lobby, banquet halls, showrooms, exhibition halls, shopping malls, etc.

It also has the options to customize the specifications such as the filtration type, direction of air in-take and discharge, service access door and blower type (backward or forward curves and plug fan).



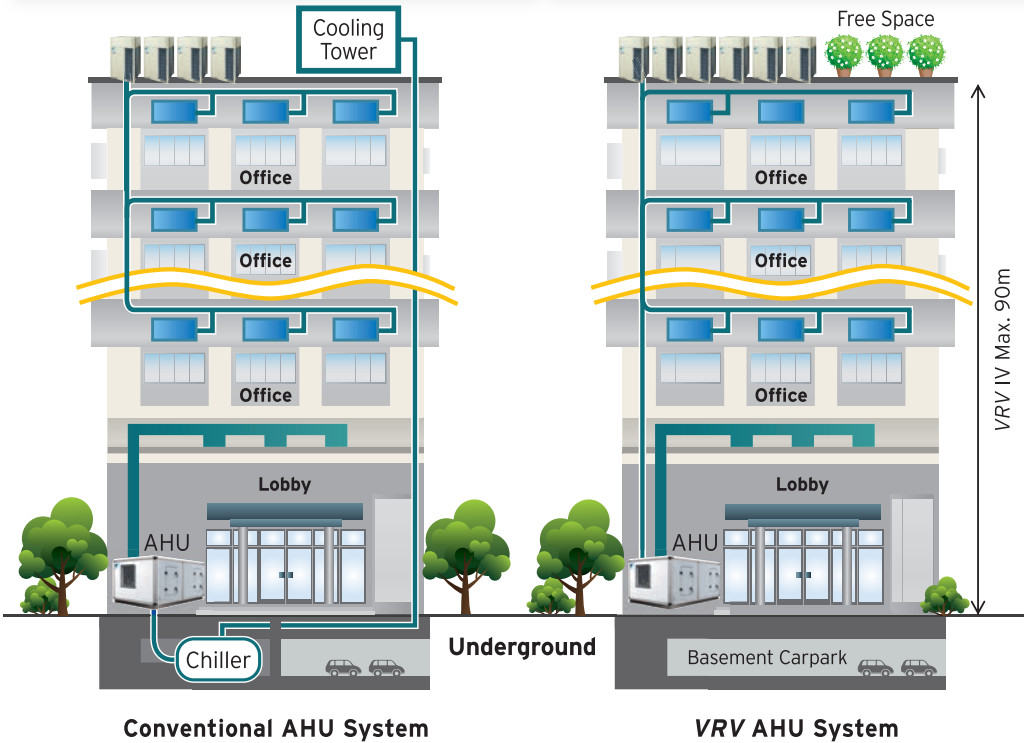
VRV AHU System Structure



* 1 When level differences are 50m 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. Please contact Daikin's Sale Office for more information.

Comparison Table and Diagram for Conventional AHU System and VRV AHU System

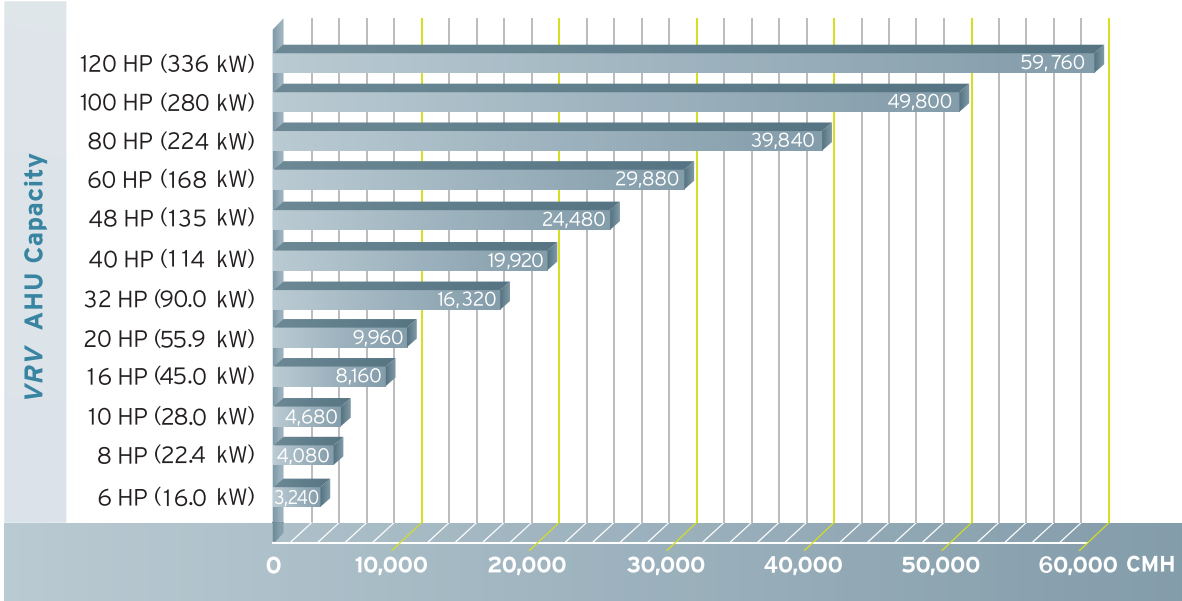
Conventional AHU System	VRV AHU System
Require Frequent Maintenance (Cooling Tower + Chiller)	Easy Maintenance (same as common A/C System)
Higher Cost Due to Frequent Maintenance	No Additional Maintenance Cost
Require Larger Installation Space (AHU, Chiller, Cooling Tower)	Require Small Installation Space (AHU, VRV)
Complex System (HVAC Ducting, Chiller and Water Piping)	Simple System (HVAC Ducting)
Extensive Control (Variable Frequency Device, Variable Air Volume Control)	Simple Control (Remote Control / intelligent Touch Manager / MicroTech III Controller)



VRV AHU System

VRV AHU Standard Series

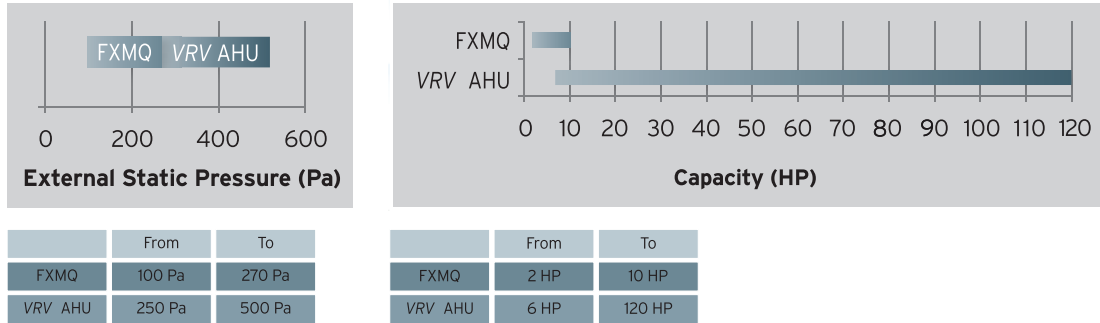
The VRV AHU standard series are available from the capacity range of 6 HP to 120 HP, also with airflow ranging from 3,240 CMH – 59,760 CMH.



Expanded Line Up for Daikin VRV Indoor Series

Comparison for External Static Pressure and Capacity between VRV AHU and Duct Typed Unit

VRV AHU offers higher ESP and Capacity as compared to duct typed unit.



*For ESP more than 500Pa, please contact Daikin's Sales Office

VRV AHU Operation Range

VRV AHU AHUR-DBV/CBV operation is similar as other VRV indoor unit. Following table is the list of operation range for AHU unit.

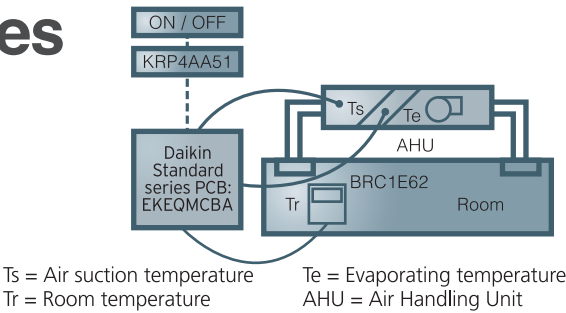
			Temperature Range
			Cooling
Entering Air Temperature to VRV AHU		Minimum	14°C WB
		Maximum	35°C DB / 25°C WB
Outdoor Unit	VRV IV	Minimum	-5°C DB
		Maximum	49°C DB
Expansion Valve		Minimum	-5°C DB
		Maximum	46°C DB
Standard series PCB		Minimum	-10°C DB
		Maximum	40°C DB

VRV AHU Standard Series

Possibility Z (Ts/Tr control):

Using Daikin wired remote controller (BRC1E62 - optional) Set point can be fixed via standard Daikin wired remote controller. Remote ON/OFF can be achieved by an optional adapter KRP4AA51.

No additional external controller is required. The cooling load is determined from the air suction temperature and set point on the Daikin remote controller.



VRV AHU Standard Series Evaporator Coil, Expansion Valve and Standard series PCB

AHUR-DBV/CBV standard series model use DX coil. Each DX coil will be connected to one external expansion valve (EKEXV) and controlled by one standard series PCB (EKEQMCBA).

VRV AHU Standard Series Evaporator Coils

- 5 capacities of Evaporator Coils
 - 6HP **used on 6HP AHU unit**
 - 8HP **used on 8HP AHU unit**
 - 10HP **used on 10HP AHU unit**
 - 16HP **used on 16HP, 32HP, 48HP AHU unit**
 - 20HP **used on 20HP, 40HP, 60HP, 80HP, 100HP, 120HP AHU unit**

VRV AHU Expansion Valve (EKEXV)

- 5 capacities of AHU Expansion Valve
 - EKEXV140 for 6HP Coil
 - EKEXV200 for 8HP Coil
 - EKEXV250 for 10HP Coil
 - EKEXV400 for 16HP Coil
 - EKEXV500 for 20HP Coil



VRV AHU Standard series PCB (EKEQMCBA)

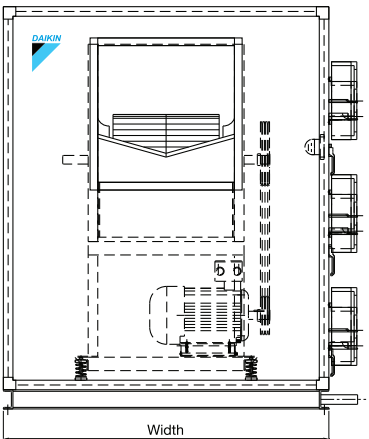


VRV AHU Expansion Valve

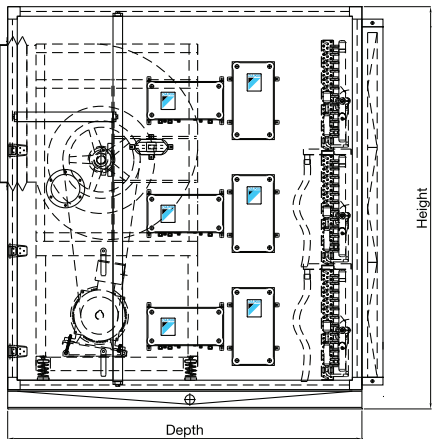
			EKEXV140	EKEXV200	EKEXV250	EKEXV400	EKEXV500
Casing	Colour		Ivory white				
	Material		Metal				
Dimensions	Unit	H x W x D mm	401 x 215 x 78				
Weight	Unit	Kg	2.9				
Operation Range	Cooling	Min. ~ Max. °CDB	-5.0 ~ 46.0				
Refrigerant	Type		R-410A				
Piping connections	Liquid	Type	Brazed connection				
		OD mm	9.52		12.7	15.9	
	Gas	Type	Brazed connection				
		OD mm	9.52				
	Heat Insulation		Both inlet and outlet				

VRV AHU Standard series PCB

			EKEQMCBA
Application			Multi
Outdoor Unit			VRV IV
Casing	Colour		White grey
	Material		Resin
Dimensions	Unit	H x W x D mm	132 x 400 x 200
Weight	Unit	Kg	3.6
Operation Range	Cooling	Min. ~ Max. °CDB	-10.0 ~ 40.0
Power Supply	Phase		1
	Frequency	Hz	50/60
	Voltage	V	230/220



Front View



Side View

VRV AHU System

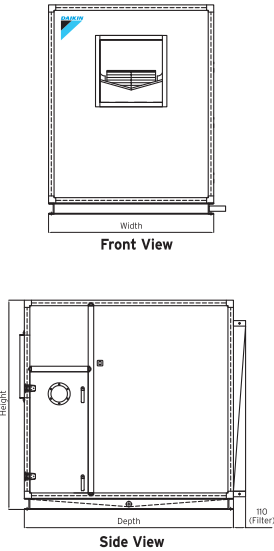
VRV AHU Standard Series

AHU SPECIFICATION (AHUR-DBV/CBV)		
1	CASING/INSULATION (DB SERIES)	50mm Thickness Double Skinned Panel 0.5mm Thickness White Colourbond Steel Sheet 50mm Thickness Polyurethane Foam 40Kg/m³ Density
	CASING / INSULATION (CB SERIES)	25mm Thickness Double Skinned Panel 0.5mm Thickness White Colourbond Steel Sheet 0.5mm Thickness Galvanized Steel Sheet 25mm Thickness PU Foam 40Kg/m³
2	CASING-FRAME (DB SERIES)	Steel With Black Epoxy Paint
	CASING-FRAME (CB SERIES)	Extruded Aluminium Pentapost Profile
3	COIL	DX Coil
	TUBE	Copper Tube
	FIN	Aluminum Slit
	HEADER	Copper Tube
4	FRAME WORKING PRESSURE	Galvanized Steel 10Kg/cm²
	FAN TYPE	(Brand = Kruger)
4	WHEEL	Double Width Double Inlet Forward Curved Centrifugal Belt Drive Fan
	HOUSING	Galvanized Steel
	FRAME	Galvanized Steel
5	MOTOR	Steel With Polyester Powder Coating
		(Brand = Teco)
6	VIBRATION ISOLATOR	(Brand = Teco)
		Three-Phase Induction Motor Totally Enclosed Fan-Cooled Type Protection = IP55 Insulation Class = F
7	DRAIN PAN (DB SERIES)	Spring Isolator
	DRAIN PAN (CB SERIES)	1.2mm (SUS 304) Beneath The Drain Pan is Covered With PU Insulation 40Kg/m³ Density
8	AIR FILTER	1.6mm (Steel Sheet With Epoxy Coated) Beneath The Drain Pan is Covered With PU Insulation 40Kg/m³ Density
		(Brand = AAF) Type = R29 Class = G3 (AFI = 80-85%) Synthetic washable Size = Full (24" x 24" x 2") Half (12" x 24" x 2")

Drawings and Dimension of AHU

Model	Dimension W x D x H (mm)	Model	Dimension W x D x H (mm)
AHUR06DBV	1,300 X 1,200 X 1,200	AHUR06CBV	1,200 X 1,100 X 850
AHUR08DBV	1,300 X 1,400 X 1,200	AHUR08CBV	1,300 X 1,200 X 1,100
AHUR10DBV	1,500 X 1,400 X 1,200	AHUR10CBV	1,500 X 1,200 X 1,100
AHUR16DBV	1,800 X 1,500 X 1,200	AHUR16CBV	1,700 X 1,400 X 1,100
AHUR20DBV	2,100 X 1,600 X 1,200	AHUR20CBV	2,000 X 1,500 X 1,100
AHUR32DBV	1,800 X 1,800 X 1,600	AHUR32CBV	1,700 X 1,700 X 1,500
AHUR40DBV	2,100 X 1,800 X 1,600	AHUR40CBV	2,000 X 1,700 X 1,500
AHUR48DBV	1,800 X 1,950 X 2,300	AHUR48CBV	1,700 X 1,850 X 2,100
AHUR60DBV	2,100 X 1,950 X 2,300	AHUR60CBV	2,000 X 1,950 X 2,200
AHUR80DBV	4,000 X 1,800 X 1,600	AHUR80CBV	3,900 X 1,700 X 1,500
AHUR100DBV	4,000 X 1,950 X 2,300	AHUR100CBV	3,900 X 1,850 X 2,200
AHUR120DBV	4,000 X 1,950 X 2,350	AHUR120CBV	3,900 X 1,950 X 2,200

* Dimension does not include Standard series PCB, Expansion Valve and Pre-filter

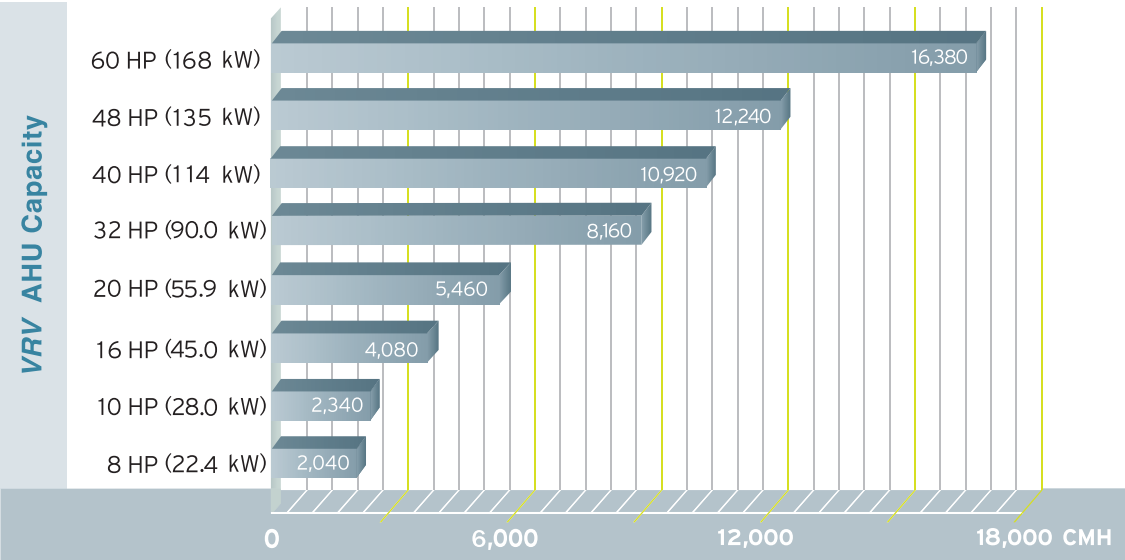


VRV AHU Standard Series

Model		AHUR06DBV/DBVH AHUR06CBV/CBVH					AHUR08DBV/DBVH AHUR08CBV/CBVH					AHUR10DBV/DBVH AHUR10CBV/CBVH					AHUR16DBV/DBVH AHUR16CBV/CBVH					AHUR20DBV/DBVH AHUR20CBV/CBVH					AHUR32DBV/DBVH AHUR32CBV/CBVH																																							
Total Cooling Capacity	NET (KW) ⁻¹	16.4	16.3	16.2	16.0	15.9	22.9	22.8	22.7	22.4	22.3	28.4	28.3	28.2	28.0	27.8	45.7	45.5	45.3	45.0	44.6	56.8	56.6	56.3	56.0	55.7	91.4	91.0	90.6	90.0	89.2																																			
Total Sensible Cooling Capacity		11.9	11.8	11.7	11.5	11.4	16.8	16.7	16.6	16.3	16.2	20.9	20.8	20.7	20.5	20.3	33.5	33.3	33.1	32.6	32.4	41.8	41.6	41.3	40.9	40.7	67.0	66.6	66.2	65.3	64.8																																			
Total Cooling Capacity	GROSS (KW) ⁻²	17.6					24.0					29.8					48.3					59.4					96.6																																							
Sensible Cooling Capacity		13.1					17.9					22.3					36.2					44.3					72.4																																							
Air Flow	CMH	3,240					4,080					4,680					8,160					9,960					16,320																																							
Ent. Temp.	°CDB/°CWB	27/19					27/19					27/19					27/19					27/19					27/19																																							
Lea. Temp.	°CDB/°CWB	14.7/13.3					13.6/12.7					12.5/12.4					13.5/12.7					13.4/12.6					13.5/12.7																																							
Coil Type		DX.COIL (R410A) 8mm. WAVE SLIT SURFACE & STRAIGHT EDGE																																																																
Coil Face Area	m ²	0.491					0.443					0.54					0.78					0.99					1.56																																							
Coil Face Vel.	m/s	1.83					2.56					2.41					2.91					2.79					2.91																																							
Air PD.In Coil	Pa	100					100					100					100					100					100																																							
Air PD.In Pre Filter ⁻³	Pa	80					80					80					80					80					80																																							
Air Filter Size 12"X24X2" ⁻³	PCS.	1					1					-					1					-					2																																							
Air Filter Size 24"X24X2" ⁻³	PCS.	1					1					2					2					3					4																																							
Air PD.In Casing	Pa	30					30					30					30					30					30																																							
ESP.Initial	Pa	250	300	350	450	500	250	300	350	450	500	250	300	350	450	500	250	300	350	450	500	250	300	350	450	500	250	300	350	450	500																																			
Total Statics Pressure	Pa	460	510	560	660	710	460	510	560	660	710	460	510	560	660	710	460	510	560	660	710	460	510	560	660	710	460	510	560	660	710																																			
Fan Type		FORWARD CURVE																																																																
Model		FDA200CM					FDA250TM					FDA250TM					FDA315TM					FDA355TM					FDA450TM																																							
Fan Motor	KW	1.5					2.2					2.2					3.0					3.0					4.0					3.0					4.0					5.5					5.5					7.5														
	POLE	4					4					4					4					4					4					4					4					4																								
Power Supply (50Hz/60Hz)	Volt/Ph./Hz.	380-415/3/50 / 380-415/3/60																																																																
FIA	amp.	3.64					5.28					5.28					6.58					6.58					8.92					6.58					8.92					12.0					12.0					15.4														
Machine Weight (DBV)	kg	545					550					550					600					610					765					775					890					900					920					1,090					1,110									
Machine Weight (CBV)	kg	480					485					480					485					530					540					740					750					850					860					880					990					1,010				
Sound Pressure Level (SPL)	dBA	60	61	62	63	64	54	56	57	59	60	54	56	57	59	60	62	63	64	66	67	61	61	62	64	65	62	63	64	65	66																																			
Standard series PCB	Model/PCS.	EKEQMCBAV3 / 1 pc. EKEQMCBAV3 / 1 pc. EKEQMCBAV3 / 1 pc. EKEQMCBAV3 / 1 pc. EKEQMCBAV3 / 1 pc. EKEQMCBAV3 / 2 pcs.																																																																
Expansion Valve	Model/PCS.	EKEV140 / 1 pc. EKEV200 / 1 pc. EKEV250 / 1 pc. EKEV400 / 1 pc. EKEV500 / 2 pcs.																																																																
Piping	Liquid pipes	mm 9.5 (Brazing connection) 9.5 (Brazing connection) 9.5 (Brazing connection) 12.7 (Brazing connection) 15.9 (Brazing connection) 12.7 (Brazing connection) x 2																																																																
Connections	Gas pipes ⁻⁴	mm 15.9 (Brazing connection) 19.1 (Brazing connection) 22.2 (Brazing connection) 28.6 (Brazing connection) 28.6 (Brazing connection) 28.6 (Brazing connection) x 2																																																																
	Drain pipes	mm 32 32 32 32 32 32																																																																
Refrigerant Control		Electronic expansion valve Electronic expansion valve Electronic expansion valve Electronic expansion valve Electronic expansion valve Electronic expansion valve																																																																
Panel		Double Skinned																																																																
Capacity Index		140					200					250					400					500					800																																							

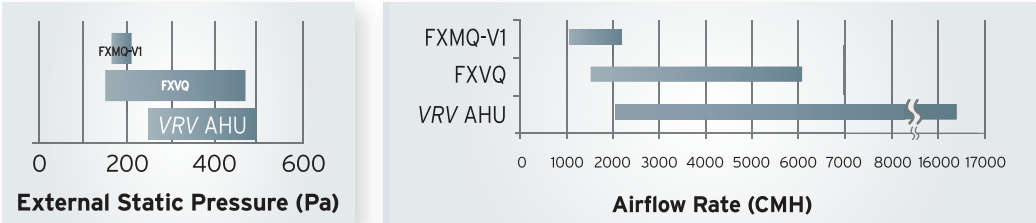
VRV AHU Outdoor Air Series

The VRV AHU outdoor air series are available from the capacity range of 8 HP to 60 HP, also with airflow ranging from 2,040 CMH – 16,380 CMH.



Comparison for ESP and Capacity between VRV AHU, Ceiling Mounted Duct Type and Floor Standing Duct Type.

VRV AHU offers higher ESP and airflow rate as compared to duct type units.



	From	To
FXMQ-V1	185 Pa	205 Pa
FXVQ	150 Pa	480 Pa
VRV AHU	250 Pa	500 Pa

	From (CMH)	To (CMH)
FXMQ-V1	1,080	2,100
FXVQ	1,518	6,072
VRV AHU	2,040	16,380

*For ESP more than 500Pa, please contact Daikin's Sales Office

VRV AHU Operation Range

VRV AHU AHUR-DBL/CBL operation is similar as other VRV indoor unit. Following table is the list of operation range for AHU unit.

		Temperature Range
Entering Air Temperature to VRV AHU		Cooling
Outdoor Unit	Minimum	14°C WB
	Maximum	32°C WB
Expansion Valve	Minimum	-5°C DB
	Maximum	49°C DB
Outdoor air series PCB	Minimum	-10°C DB
	Maximum	40°C DB

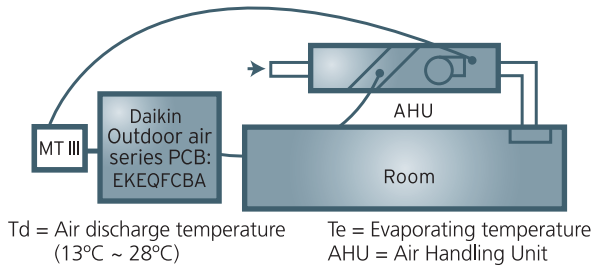
VRV AHU Outdoor Air Series

Possibility X (Td/Tr control):

Precise air temperature control via MicroTech III (MT III) controller (option)

Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The MT III controller translates the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a reference voltage (0-10V) which is transferred to the Daikin Outdoor air series PCB (EKEQFCBA).

This reference voltage will be used as the main input value for the compressor frequency control.



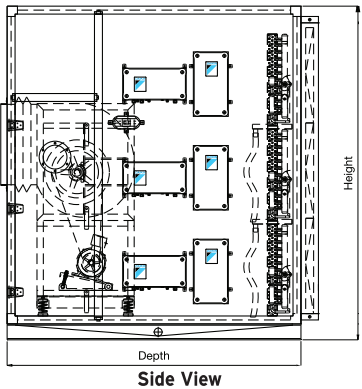
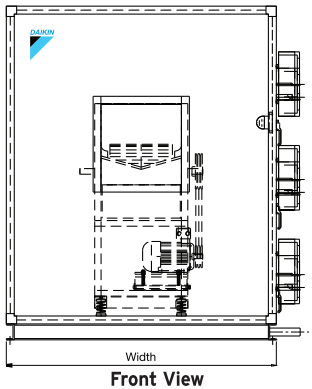
MicroTech III controller (option)



MT III controller is recommended for Outdoor air series AHU controlling, switching and monitoring functions. This controller is programmed to optimize the performance and efficiency of VRV AHU automatically. It can also communicate with Daikin's intelligent Touch Manager via BACnet protocol easily.

VRV AHU Expansion Valve

			EKEXV200	EKEXV250	EKEXV400	EKEXV500
Casing	Colour		Ivory white			
	Material		Metal			
Dimensions	Unit	H x W x D mm	401 x 215 x 78			
Weight	Unit	Kg	2.9			
Operation Range	Cooling	Min. ~ Max. °CDB	-5.0 ~ 46.0			
Refrigerant	Type		R-410A			
Piping connections	Liquid	Type	Braze connection			
		OD mm	9.52	12.7	15.9	
	Gas	Type	Braze connection			
		OD mm	9.52			
	Heat Insulation	Both inlet and outlet				



VRV AHU Outdoor Air Series Evaporator Coil, Expansion Valve and Outdoor Air Series PCB

AHUR-DBL/CBL Outdoor air series use DX coil. Each DX coil will be connected to one external expansion valve (EKEXV) and controlled by one Outdoor air series PCB (EKEQFCBA).

VRV AHU Outdoor air Series Evaporator Coil

- 4 capacities of Evaporator Coil
 - 8HP **used on 8HP AHU unit**
 - 10HP **used on 10HP AHU unit**
 - 16HP **used on 16HP, 32HP, 48HP AHU unit**
 - 20HP **used on 20HP, 40HP, 60HP AHU unit**

VRV AHU Expansion Valve (EKEXV)

- 4 capacities of AHU Expansion Valve
 - EKEXV200 for 8HP Coil
 - EKEXV250 for 10HP Coil
 - EKEXV400 for 16HP Coil
 - EKEXV500 for 20HP Coil

VRV AHU Outdoor air series PCB (EKEQFCBA)



Installation of AHU Outdoor air series PCB should be positioned under a shaded area. Alternatively, a panel should be provided at the Outdoor air series PCB to block off direct sunlight.

Direct sunlight will increase the temperature inside the Outdoor air series PCB and may reduce its lifetime and influence its operation.

Operating temperature of the Outdoor air series PCB is between -10°C and 40°C.

VRV AHU Outdoor Air Series PCB

			EKEQFCBA
Application			Multi
Outdoor Unit			VRV IV
Casing	Colour		White grey
	Material		Resin
Dimensions	Unit	H x W x D mm	132 x 400 x 200
Weight	Unit	Kg	3.9
Operation Range	Cooling	Min. ~ Max. °CDB	-10.0 ~ 40.0
	Phase		1
Power Supply	Frequency	Hz	50/60
	Voltage	V	230/220

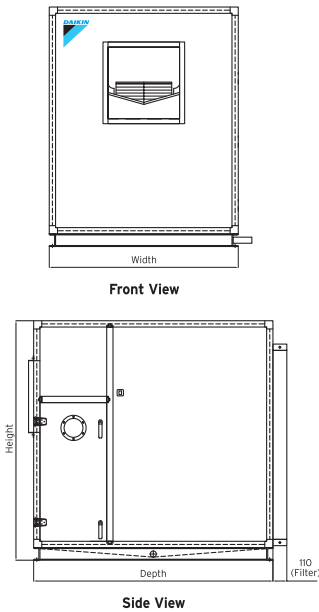
VRV AHU System

AHU SPECIFICATION (AHUR-DBL/CBL)		
1	CASING / INSULATION (DBL SERIES)	50mm Thickness Double Skinned Panel (Thermal Break) 0.5mm Thickness White Colourbond Steel Sheet 50mm Thickness Polyurethane Foam 40Kg/m³ Density
	WEATHER PROOF ROOF	SUS 304
2	CASING / INSULATION (CBL SERIES)	25mm Thickness Double Skinned Panel 0.5mm Thickness White Colourbond Steel Sheet 0.5mm Thickness Galvanized Steel Sheet 25mm Thickness Polyurethane Foam 40Kg/m³ Density
	CASING-FRAME (DBL SERIES)	Steel With Black Epoxy Paint
3	CASING-FRAME (CBL SERIES)	Extruded Aluminium Profile
	COIL	DX Coil
4	TUBE	Copper Tube
	FIN	Aluminum Slit Type
5	HEADER	Copper Tube-Connect
	FRAME	Galvanized Steel
6	WORKING PRESSURE	10Kg/cm²
	FAN	(Brand = Kruger)
7	TYPE	Double Width Double Inlet Forward Curved Centrifugal Belt Drive Fan
	WHEEL	Galvanized Steel Sheet
8	HOUSING	Galvanized Steel Sheet
	FRAME	Steel With Polyester Powder Coating
9	MOTOR	(Brand = Teco) Three-Phase Induction Motor Totally Enclosed Fan-Cooled Type Protection = IP55 Insulation Class = F, IE1
	VIBRATION ISOLATOR	Spring Isolator
10	DRAIN PAN (DBL SERIES)	1.2mm (SUS 304) The Drain Pan is Covered With PU Insulation 40Kg/m³ Density
	DRAIN PAN (CBL SERIES)	1.6mm (Steel Sheet With Epoxy Coated) Beneath The Drain Pan is Covered With PU Insulation 40Kg/m³ Density
11	AIR FILTER	(Brand = AAF) Type = R29 Class = G3 (AFI = 80-85%) Synthetic Washable Size = Full (24" x 24" x 2") Half (12" x 24" x 2")

Drawings and Dimension of AHU

Model	Dimension W x D x H (mm)	Model	Dimension W x D x H (mm)
AHUR08DBL	1,300 x 1,400 x 1,200	AHUR08CBL	1,300 x 1,200 x 1,100
AHUR10DBL	1,500 x 1,400 x 1,200	AHUR10CBL	1,500 x 1,200 x 1,100
AHUR16DBL	1,800 x 1,500 x 1,200	AHUR16CBL	1,700 x 1,400 x 1,100
AHUR20DBL	2,100 x 1,600 x 1,200	AHUR20CBL	2,000x1,500 x 1,100
AHUR32DBL	1,800 x 1,800 x 1,600	AHUR32CBL	1,700 x 1,700 x 1,500
AHUR40DBL	2,100 x 1,800 x 1,600	AHUR40CBL	2,000x1,700 x 1,500
AHUR48DBL	1,800 x 1,950 x 2,200	AHUR48CBL	1,700 x 1,850 x 2,100
AHUR60DBL	2,100 x 1,950 x 2,200	AHUR60CBL	2,000x 1,950 x 2,200

* Dimension does not include Outdoor air series PCB, Expansion Valve and Pre-filter



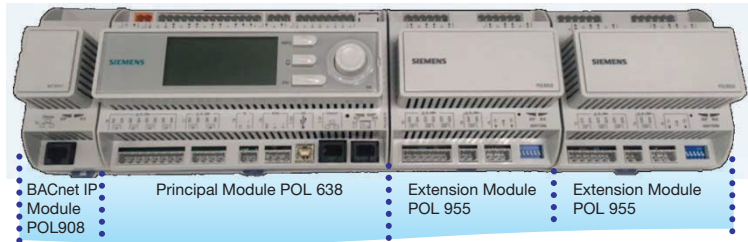
VRV AHU Outdoor Air Series

Model		AHUR08DBL/CBL AHUR08DBLH/CBLH					AHUR10DBL/CBL AHUR10DBLH/CBLH					AHUR16DBL/CBL AHUR16DBLH/CBLH					AHUR20DBL/CBL AHUR20DBLH/CBLH				
Total Cooling Capacity	NET (KW) ⁻¹	22.8	22.8	22.7	22.6	22.5	28.3	28.3	28.2	28.1	28.0	45.3	45.2	45.1	44.9	44.7	56.7	56.6	56.5	56.2	56.1
Total Sensible Cooling Capacity		10.9	10.9	10.8	10.7	10.6	13.2	13.2	13.1	13.0	12.9	21.7	21.6	21.5	21.3	21.1	27.6	27.5	27.4	27.1	27.0
Total Cooling Capacity	GROSS (KW) ⁻²	23.3					28.9					46.3					58.4				
Sensible Cooling Capacity		11.4					13.8					22.7					29.3				
Air Flow	CMH	2,040					2,340					4,080					5,460				
Ent. Temp.	°CDB/°CWB	33/28					33/28					33/28					33/28				
Lea. Temp.	°CDB/°CWB	19.4/18.9					18.4/18					19.3/19.0					19.9/19.6				
Coil Type		DX COIL (R410A) 8mm. WAVE SLIT SURFACE & STRAIGHT EDGE																			
Coil Face Area	m ²	0.443					0.54					0.784					0.99				
Coil Face Vel.	m/s	1.28					1.20					1.45					1.53				
Air PDIn Coil	Pa	50					50					50					50				
Air PDIn Pre Filter ⁻³	Pa	80					80					80					80				
Air Filter Size 12"x24"x2" ⁻³	PCS.	1					-					1					-				
Air Filter Size 24"x24"x2" ⁻³	PCS.	1					2					2					3				
Air PDIn Casing	Pa	30					30					30					30				
ESPInitial	Pa	250	300	350	450	500	250	300	350	450	500	250	300	350	450	500	250	300	350	450	500
Total Statics Pressure	Pa	410	460	510	610	660	410	460	510	610	660	410	460	510	610	660	410	460	510	610	660
Fan Type		FORWARD CURVE																			
Model		FSA280CM					FSA280CM					FDA250TM					FDA250TM				
Fan Motor	KW	0.75					1.1					1.5					2.2				
	POLE	4					4					4					4				
Power Supply (50Hz/60Hz)	Volt/Ph./Hz.	380-415/3/50 / 380-415/3/60																			
FLA	amp.	2.05					2.82					3.64					5.28				
Machine Weight (DBL)	kg	545					605					700					815				
Machine Weight (CBL)	kg	475					520					670					775				
Sound Pressure Level (SPL)	dBA	56	58	60	62	63	56	57	58	60	62	55	56	57	58	59	55	56	57	58	59
Outdoor Air series PCB	Model/PCS.	EKEGFCBAV3 / 1 pc.					EKEGFCBAV3 / 1 pc.					EKEGFCBAV3 / 1 pc.					EKEGFCBAV3 / 1 pc.				
Expansion Valve	Model/PCS.	EKEV200 / 1 pc.					EKEV250 / 1 pc.					EKEV400 / 1 pc.					EKEV500 / 1 pc.				
Piping	Liquid pipes	9.5 (Brazing connection)					9.5 (Brazing connection)					12.7 (Brazing connection)					15.9 (Brazing connection)				
Connections	Gas pipes ⁻⁴	19.1 (Brazing connection)					22.2 (Brazing connection)					28.6 (Brazing connection)					28.6 (Brazing connection)				
	Drain pipes	32					32					32					32				
Refrigerant Control		Electronic expansion valve					Electronic expansion valve					Electronic expansion valve					Electronic expansion valve				
Panel		Double Skinned																			
Capacity Index		200					250					400					500				

Model		AHUR32DBL/CBL AHUR32DBLH/CBLH					AHUR40DBL/CBL AHUR40DBLH/CBLH					AHUR48DBL/CBL AHUR48DBLH/CBLH					AHUR60DBL/CBL AHUR60DBLH/CBLH								
Total Cooling Capacity	NET (KW) ⁻¹	90.3	90.1	89.9	89.5	89.3	114.4	114.2	114.0	113.5	113.2	136.0	135.8	135.6	135.1	134.8	171.7	171.4	171.0	170.3	170.0				
Total Sensible Cooling Capacity		43.1	42.9	42.7	42.3	42.1	56.2	56.0	55.8	55.3	55.0	65.2	65.0	64.8	64.3	64.0	84.4	84.1	83.7	83.0	82.7				
Total Cooling Capacity	GROSS (KW) ⁻²	92.6					116.8					138.9					175.2								
Sensible Cooling Capacity		45.4					58.6					68.1					87.9								
Air Flow	CMH	8,160					10,920					12,240					16,380								
Ent. Temp.	°CDB/°CWB	33/28					33/28					33/28					33/28								
Lea. Temp.	°CDB/°CWB	19.3/19.0					19.9/19.6					19.3/19.0					19.9/19.6								
Coil Type		DX COIL (R410A) 8mm. WAVE SLIT SURFACE & STRAIGHT EDGE																							
Coil Face Area	m ²	1.568					1.98					2.35					2.97								
Coil Face Vel.	m/s	1.45					1.53					1.45					1.53								
Air PD In Coil	Pa	50					50					50					50								
Air PD In Pre Filter ⁻³	Pa	80					80					80					80								
Air Filter Size 12"X24X2" ⁻³	PCS.	2					-					3					-								
Air Filter Size 24"X24X2" ⁻³	PCS.	4					6					6					9								
Air PD In Casing	Pa	30					30					30					30								
ESP Initial	Pa	250	300	350	450	500	250	300	350	450	500	250	300	350	450	500	250	300	350	450	500				
Total Static Pressure	Pa	410	460	510	610	660	410	460	510	610	660	410	460	510	610	660	410	460	510	610	660				
Fan Type	FORWARD CURVE																								
Model		FDA315TM					FDA400TM					FDA400TM					FDA500TM								
Fan Motor	KW	3.0		4.0			3.0		4.0			5.5		4.0			5.5		4.0		5.5			7.5	
	POLE	4					4					4					4								
Power Supply (50Hz/60Hz)	Volt/Ph./Hz.	380-415/3/50 / 380-415/3/60																							
FLA	amp.	658		892			658		892			120		892			120		892		120			15.4	
Machine Weight (DBL)	kg	985		1,005			1,175		1,180			1,185		1,280			1,285		1,615		1,625			1,645	
Machine Weight (CBL)	kg	870		890			975		980			985		1,075			1,080		1,265		1,275			1,295	
Sound Pressure level (SPL)	dB(A)	63	64	65	66	67	60	61	62	63	64	60	61	62	63	64	61	62	63	64	65				
Outdoor Air series PCB	Model/PCS.	EKEGFCBVA3 / 2 pcs.					EKEGFCBVA3 / 2 pcs.					EKEGFCBVA3 / 3 pcs.					EKEGFCBVA3 / 3 pcs.								
Expansion Valve	Model/PCS.	EKEW400 / 2 pcs.					EKEW500 / 2 pcs.					EKEW400 / 3 pcs.					EKEW500 / 3 pcs.								
Piping Connections	Liquid pipes	mm		12.7 (Brazing connection) x 2			15.9 (Brazing connection) x 2					12.7 (Brazing connection) x 3					15.9 (Brazing connection) x 3								
	Gas pipes ⁻⁴	mm		28.6 (Brazing connection) x 2			28.6 (Brazing connection) x 2					28.6 (Brazing connection) x 3					28.6 (Brazing connection) x 3								
	Drain pipes	mm		32			32					32					32								
Refrigerant Control		Electronic expansion valve					Electronic expansion valve					Electronic expansion valve					Electronic expansion valve								
Panel		Double Skinned																							
Capacity Index		800					1,000					1,200					1,500								

MicroTech III Controller (Option)

MicroTech III consists of 4 components in a fixed configuration.



Daikin's air treatment systems creating a higher air quality environment

Components of Indoor Air Quality

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

A recent trend rapidly gaining popularity is for air treatment to be required as well as air conditioning. Daikin's Outdoor-Air Processing Unit can combine fresh air treatment and air conditioning, supplied from a single system. It adjusts the temperature of air from outdoors using a fixed discharge temperature control. Along with Outdoor-Air Processing Units, we also offer Heat Reclaim Ventilator systems. The Heat Reclaim Ventilator VAM-GJ series units in particular have been praised for their compactness, energy conservation and extensive operation range of outdoor temperatures. This series provides higher enthalpy efficiency^{★1}, due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure^{★2} offers more flexibility for installation. The Heat Reclaim Ventilator VKM-GAM series units, equipped with a DX-coil and a humidifier, provide further advanced features, such as temperature adjustment to suit conditions indoors and to prevent cold air from blowing on people directly during heating operation. The series also realises significant energy savings by exercising heat recovery.

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

		Outdoor-Air Processing Unit	Heat Reclaim Ventilator		
			VKM-GAM Type	VKM-GA Type	VAM-GJ Type
Connections with VRV IV	Refrigerant Piping	Connectable	Connectable	Connectable	Not connectable
	Wiring	Connectable	Connectable	Connectable	Connectable
	After-cool & After-heat Control	Available	Available	Available	Not available
Heat Exchange Element		—	Energy savings obtained		Energy savings obtained
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					150 m³/h
					250 m³/h
					350 m³/h
			500 m³/h		500 m³/h
					650 m³/h
			800 m³/h		800 m³/h
		1080 m³/h	1000 m³/h		1000 m³/h
		1680 m³/h			1500 m³/h
		2100 m³/h			2000 m³/h

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

Features of MicroTech III

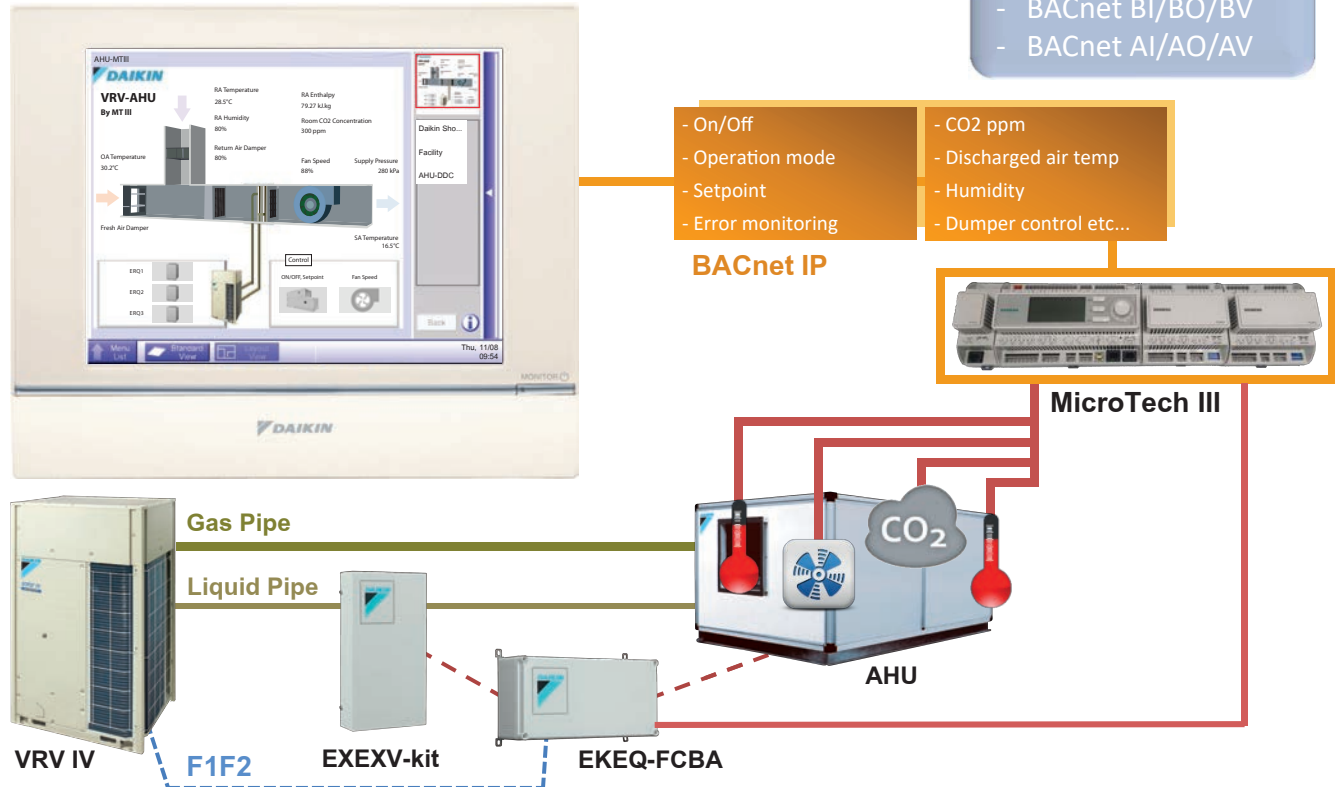
- 1. BACnet IP Module for integration of MicroTech III AHU Controller in networks featuring the BACnet Protocol. Compatible with Daikin intelligent Touch Manager (iTM) or 3rd party BMS.
- 2. Principal Module POL 638 and Extension Module POL 955 have selected analog and digital I/O contacts programmed for control and monitoring of sensors and other related devices in a VRV Outdoor Air Series AHU.
- 3. HMI screen on the Principal Module POL 638 allows easy testing and commissioning and even without a centralised controller or 3rd party BMS.

Functions of MicroTech III

- 1. Supply air control using the supply air sensor
 - Used for temperature control.
- 2. Air quality control – CO2 Levels
 - The controls of the mixing damper can be dependent on the CO2 set point.
 - User can define the CO2 set point.
 - The fresh air damper will be difference between 100% and the percentage opening of the mixing damper.
- 3. Fan airflow control
 - The fan speed control can be done through
 - i. Direct (w/o inverters).
 - ii. DirectVar (with inverters).
 - iii. Analog controlled variable speed drive with digital release.
 - iv. Pressure control to meet the pressure set points in the duct.
- 4. Monitoring points for other features
 - i. Room humidity
 - ii. Electric heating coil
 - iii. Outside, room and return temperature
 - iv. VRV alarm

MicroTech III can connect to intelligent Touch Manager.

Monitor and control devices related to AHU such as Fan, sensors, and damper



Air Treatment Equipment Lineup

Outdoor-Air Processing Unit

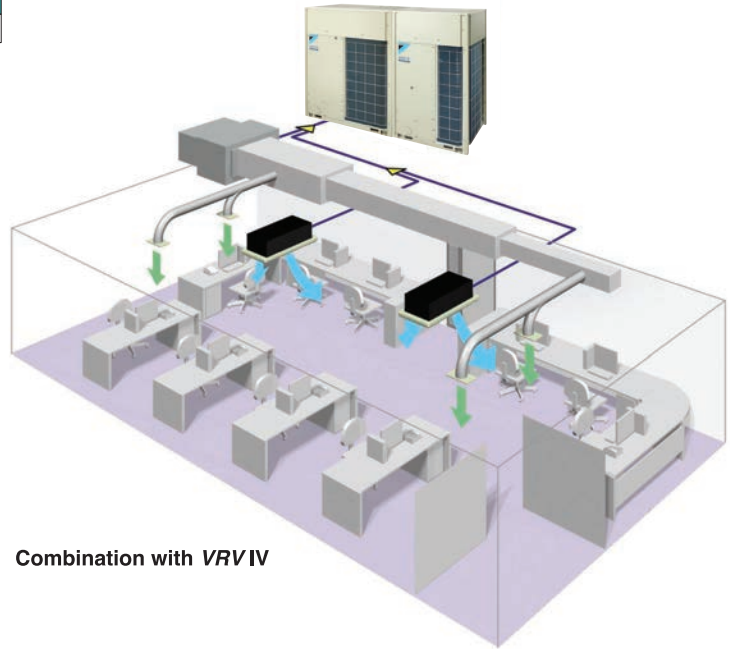
Combine fresh air treatment and air conditioning, supplied from a single system.

Lineup

Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250

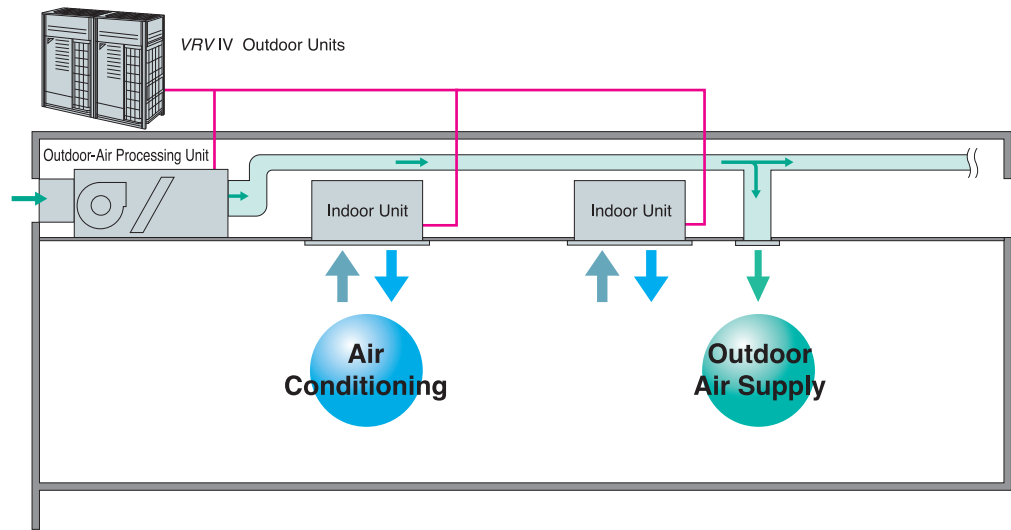


Fresh air treatment and air conditioning can be achieved with a single system by using heat pump technology—without the usual troublesome air supply and air discharge balance design. Fan coil units for air conditioning and an outdoor-air processing unit can be connected to the same refrigerant line.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

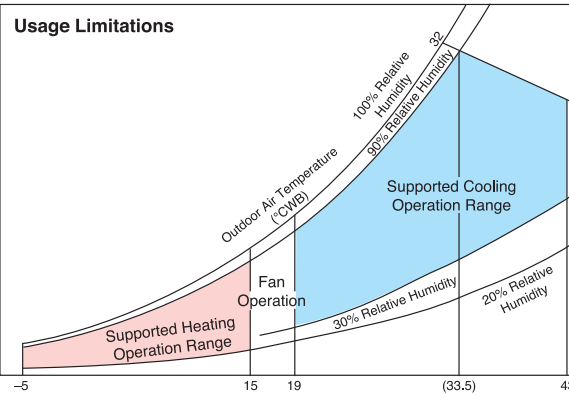
- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
- When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must 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. The set temperature can be varied within the range of 13–25°C during cooling 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 may stop due to mechanical protection control.
- Ceiling mounted duct units with three different capacities are available. These can be connected to VRV series outdoor units to meet a variety of different requirements.

Airflow rate

Model Name	Airflow rate (m³/h)
FXMQ125MFV1	1,080
FXMQ200MFV1	1,680
FXMQ250MFV1	2,100

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



Notes:

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

- High-performance filters with dust collection efficiencies (JIS calorimetry) of 90% and 65% are also available as options.
- For 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. Remote controllers connect to each unit separately.



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 in areas which standard indoor units are installed, as central control cannot be used with them.
- With the VRV IV system, the equipment employs the “super wiring system” so that the wiring linking the indoor and outdoor units can also be utilised for central control.



DCS302CA61
Central remote controller
(option)

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. Installing or 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 standard indoor units is not supported. A separate remote controller should be connected to individual unit.
- * The system will not operate in fan mode when the outdoor air temperature is 5°C or below.
- * If the product is utilised 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.

Air Treatment Equipment Lineup

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	470X1,380X1,100	
Fan	Motor output	kW	0.380	
	Airflow rate	m³/min	18	35
		cfm	635	1,236
	External static pressure	220V/240V Pa	185/225	205/255
Air filter		*2		
Refrigerant piping	Liquid	mm	φ 9.5 (flare)	
	Gas	mm	φ 15.9 (flare)	φ 19.1 (brazing)
	Drain	mm	PS1B female thread	
Machine weight		kg	86	123
Sound level *3	220V/240V	dB(A)	42/43	47/48
Connectable outdoor units *4			6 HP and above	8 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	

Notes: *1. Specifications are based on the following conditions;
• Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
• Equivalent reference piping length: 7.5 m (0 m horizontal)
*2. An intake filter is not supplied, so be sure to install the optional long-life filter or high-efficiency filter. Please mount it in the duct system of the suction side. Select a dust collection efficiency (gravity method) of 50% or more.
*3. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. These values are normally somewhat higher during actual operation as a result of ambient conditions.
*4. It is possible to connect to the outdoor unit if the total capacity of the indoor units is 50% to 100% of the capacity index of the outdoor unit.
*5. Local setting mode is not displayed on the remote controller.
• This equipment cannot be incorporated into the remote group control of the VRV IV system.

OPTIONS

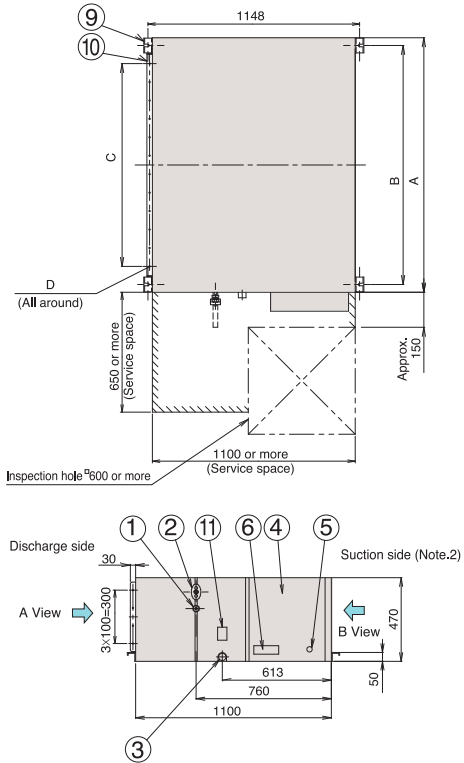
Indoor unit

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

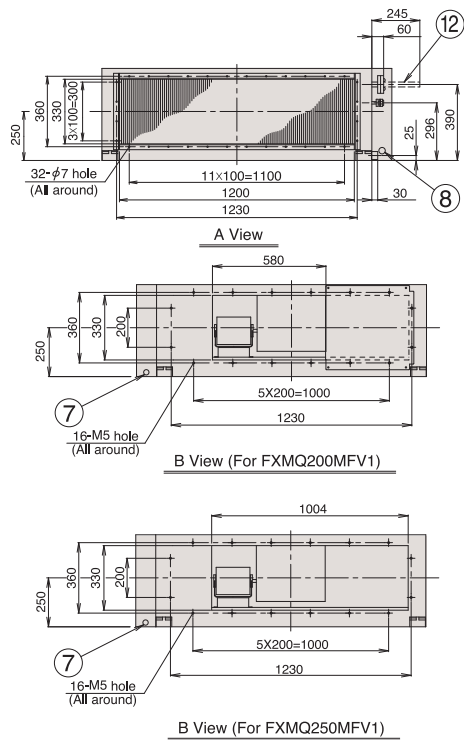
Table of dimensions

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

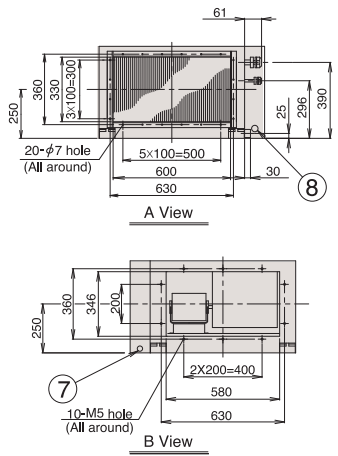
- Notes:
- The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (② in the diagram) has a different bore form with FXMQ125MFV1.
 - An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side. [Use a filter with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

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

FXMQ200/250MFV1



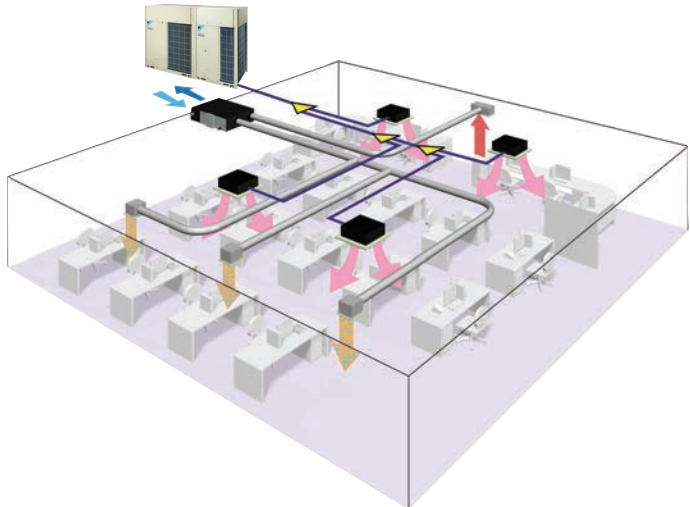
FXMQ125MFV1



Air Treatment Equipment Lineup

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



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

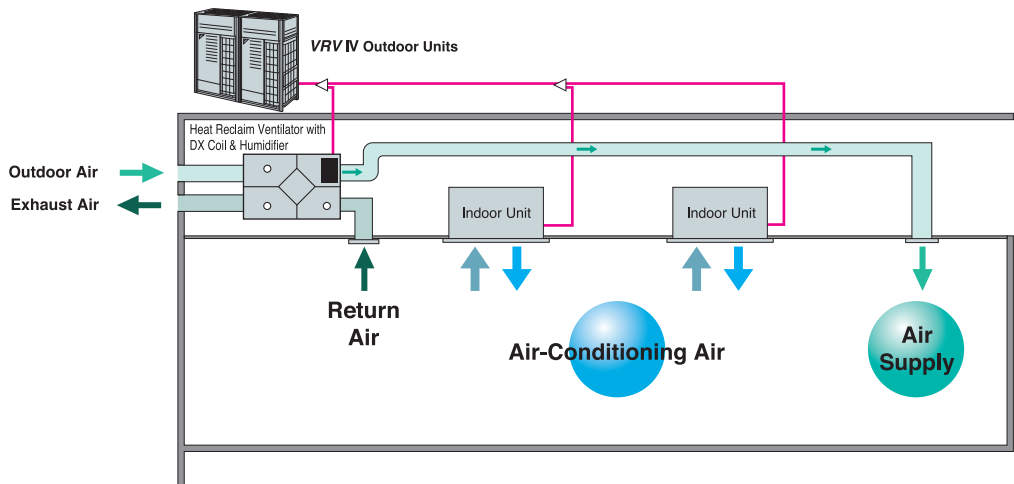
DX-coil
The Heat Reclaim Ventilator features DX-coil that contributes to the prevention of cold airflow colliding people directly during heating operation, due to the after-cool, after-heat operations done beforehand.

High static pressure
High external static pressure means enhanced design flexibility.

Efficient outdoor air introduction is possible

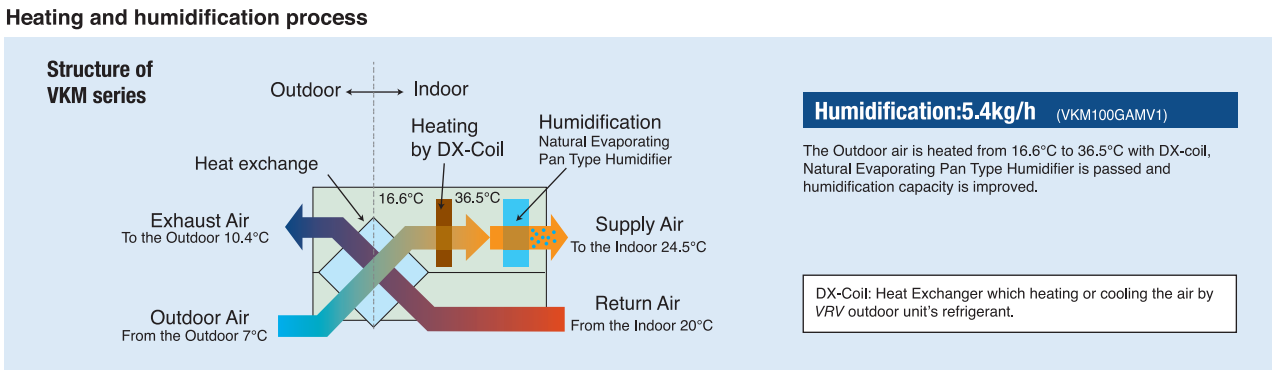
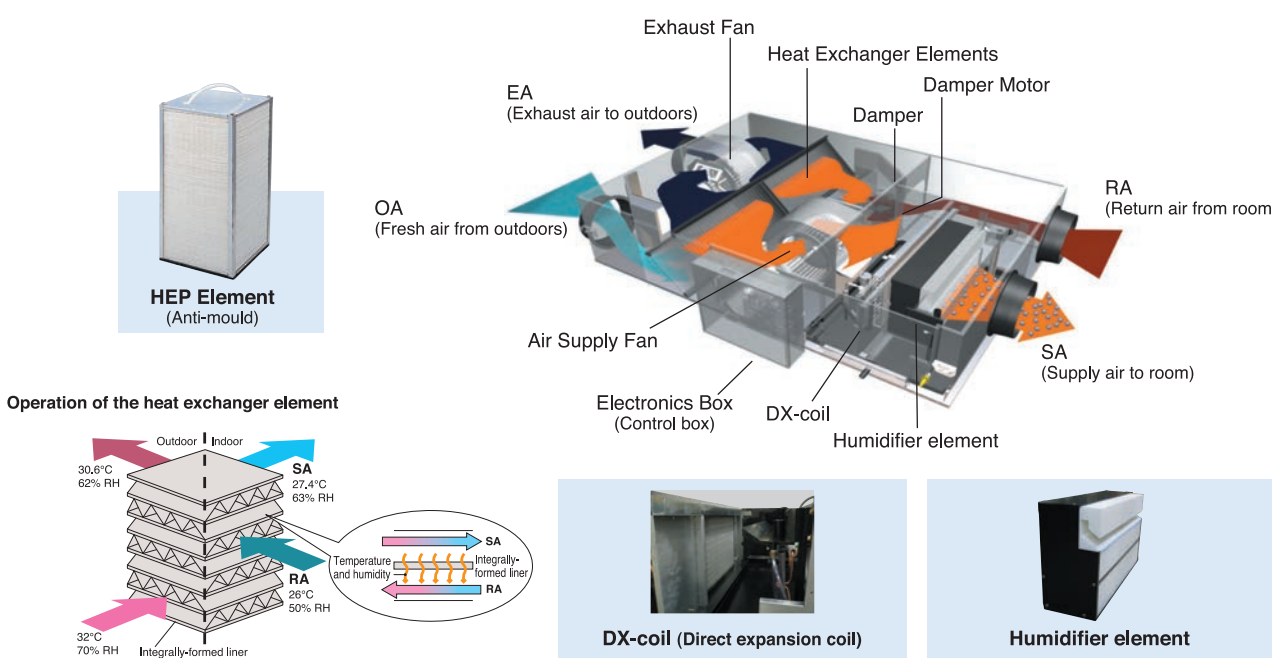
The Heat Reclaim Ventilator (VKM series) series introduces fresh outdoor air with minimum heat losses, with a wide variety of features cater to customer requirements.

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.

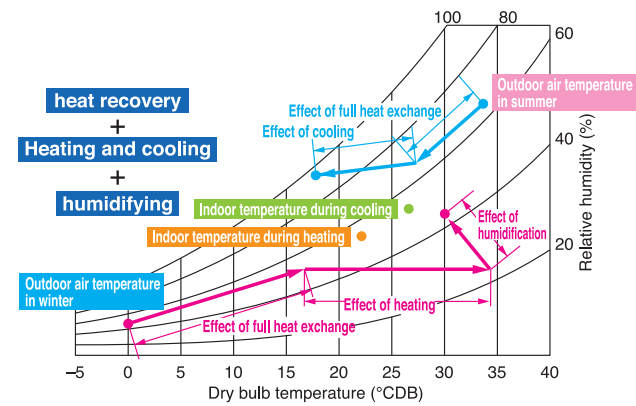
A compact unit packed with Daikin's cutting-edge technologies.



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.



Air Treatment Equipment Lineup

SPECIFICATIONS

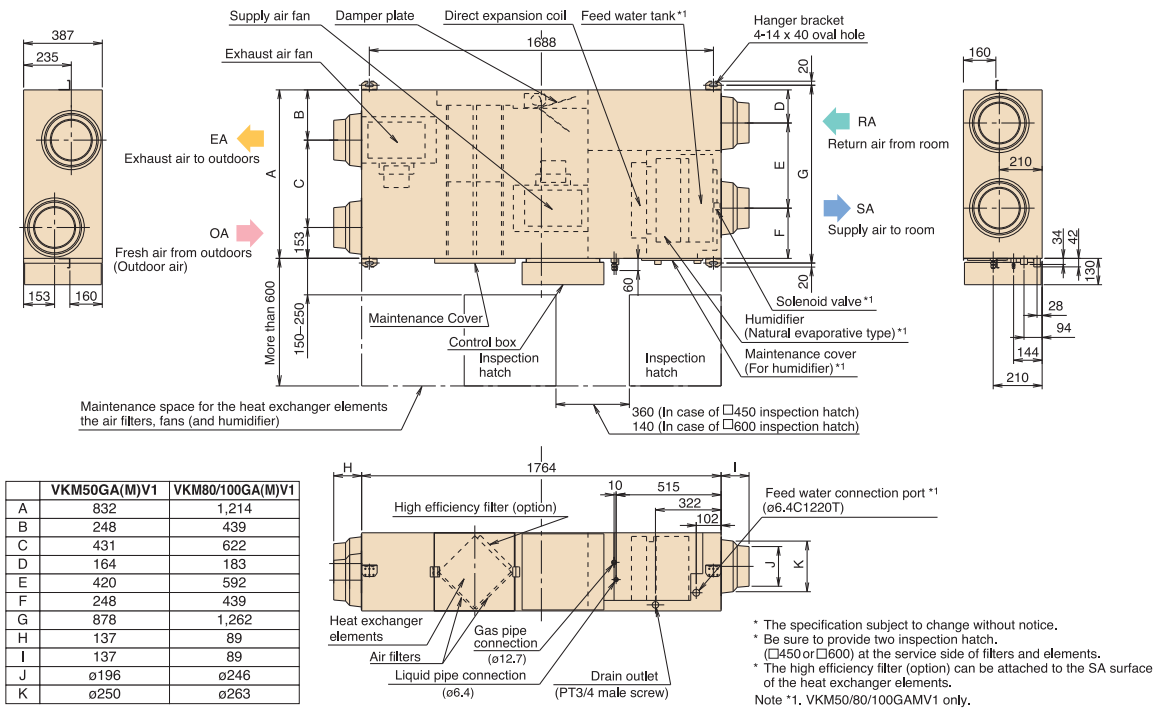
MODEL				VKM50GAMV1 *	VKM80GAMV1 *	VKM100GAMV1*	VKM50GAV1	VKM80GAV1	VKM100GAV1
Refrigerant				R-410A					
Power Supply				1-phase, 220~240 V, 50 Hz					
Airflow Rate & Static Pressure (Note 7)	Ultra-high	Airflow rate	m³/h	500	750	950	500	750	950
		Static pressure	Pa	160	140	110	180	170	150
	High	Airflow rate	m³/h	500	750	950	500	750	950
		Static pressure	Pa	120	90	70	150	120	100
	Low	Airflow rate	m³/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 × 2	0.280 × 2	0.280 × 2	0.280 × 2	0.280 × 2	0.280 × 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°CDB, 80%RH or less					
		OA (Note 9)		-15°C~40°CDB, 80%RH or less					
		RA (Note 9)		0°C~40°CDB, 80%RH or less					

Notes: 1. Cooling and heating capacities are based on the following conditions. Fan is based on High and Ultra-high.
When calculating the capacity as indoor units, use the following figures:
VKM50GAMV1/GV1: 3.5 kW, VKM80GAMV1/GV1: 5.6 kW, VKM100GAMV1/GV1: 7.0 kW
2. Indoor temperature: 27°CDB, 19°CWB Outdoor temperature: 35°CDB
3. Indoor temperature: 20°CDB, Outdoor temperature: 7°CDB, 6°CWB
4. Humidifying capacity is based on the following conditions:
Indoor temperature: 20°CDB, 15°CWB, Outdoor temperature: 7°CDB, 6°CWB
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



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	
			KRP1C63★	KRP1BA57★	KRP1B61★	KRP1B61	KRP1B56★	KRP1C64★	KRP1C64★	KRP1B61	KRP1C67	KRP1BA54	—	KRP1B61	KRP1C67	KRP1B61	
Installation box for adaptor PCB☆		Note 2, 3 KRP1H98A	Note 4, 5 KRP1BA101	Note 2, 3 KRP1B96	—	Note 4, 5 KRP1BA101	Note 2, 3 KRP4A98	Note 2, 3 KRP4A96	—	—	Note 3 KRP1CA93	Note 2, 3 KRP4AA93	—	—	—		

Notes: 1. Installation box ★ is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box ★ is necessary for second adaptor.
6. *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, it cannot be used with other central control equipment.

Item			Type	VKM50GA(M)V1	VKM80GA(M)V1	VKM100GA(M)V1
Additional function	Silencer	Nominal pipe diameter	mm	—	KDDM24B100	
			—	φ 250		
	Air suction/ Discharge grille	White	Nominal pipe diameter	mm	K-DGL200B	K-DGL250B
				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	

Air Treatment Equipment Lineup

Heat Reclaim Ventilator — VAM series

The Heat Reclaim Ventilator creates a high-quality environment by interlocking with the air conditioner

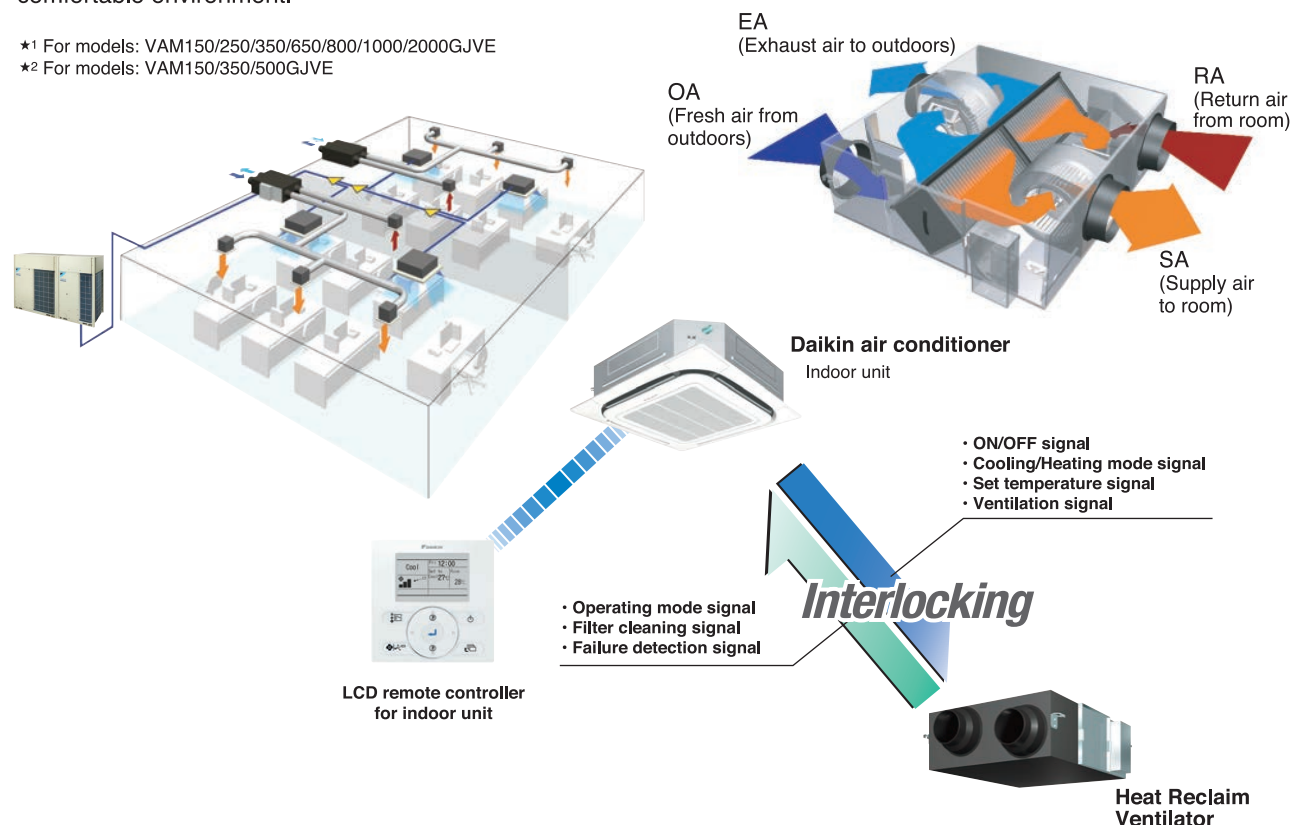
Model Names

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

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

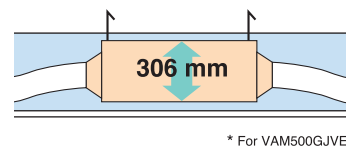
This VAM series provides higher enthalpy efficiency^{*1}, due to the greatly enhanced performance of the thin film element. Furthermore, improved external static pressure^{*2} offers more flexibility for installation. Along with these three outstanding improvements, the nighttime free cooling operation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

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



Compact Equipment

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



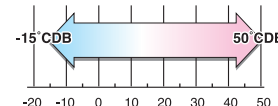
^{*} For VAM500GJVE

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

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.

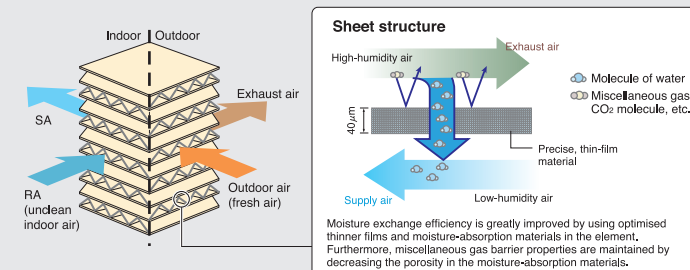
Enthalpy efficiency drastically improved by employing thin film element! (VAM-GJ model)

With the thinner film...

- It can decrease the moisture resistance of the partition sheets drastically.
- Gaining more space for extra layers in the element, result in increasing of effective area that supply and exhaust air can be exposed to.

Moisture absorption increased by approx. 10%!

Thickness of the partition sheet
40 μm



Auto-ventilation Mode Changeover Switching

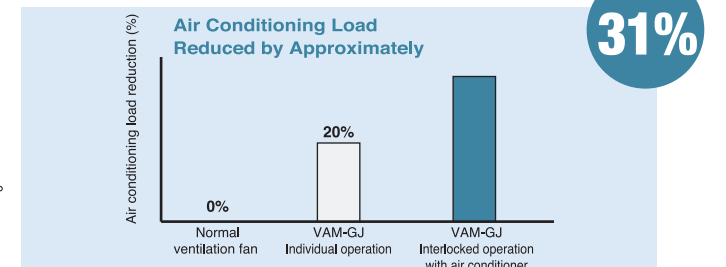
Automatically switches the ventilation mode (Total Heat Exchange Mode/Bypass Mode) according to the operating status of the air conditioner.

Pre-cool, Pre-heat Control

Reduces air conditioning load by not operating 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.



Nighttime free cooling operation^{*1}

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

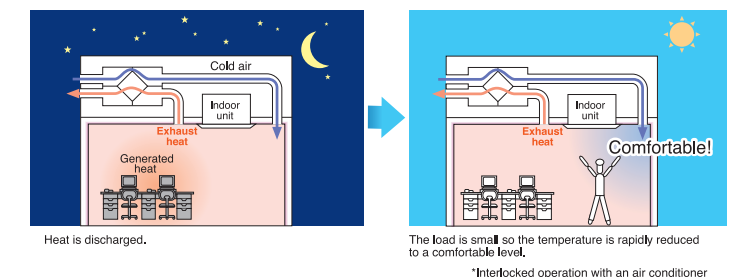
- Nighttime free cooling operation only works to cool and if connected to Building Multi or VAV systems.
- Nighttime free cooling operation is set to "off" in the factory settings, so if there is a need to turn on, please contact Daikin dealer.

^{*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).

Air conditioning sensible heat load reduced by **approx. 5%^{*2}**

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

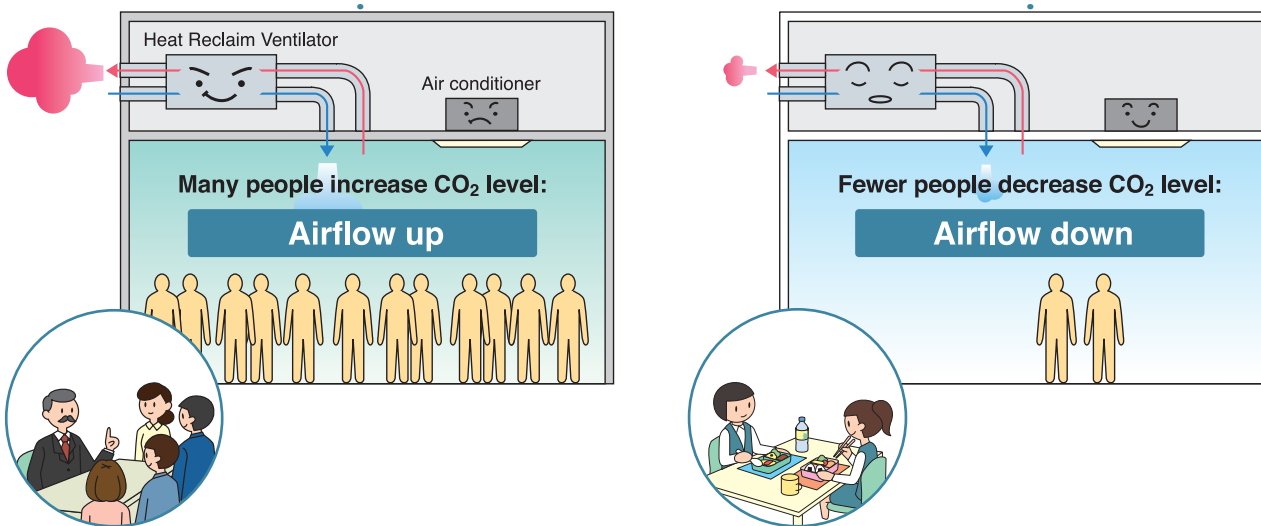
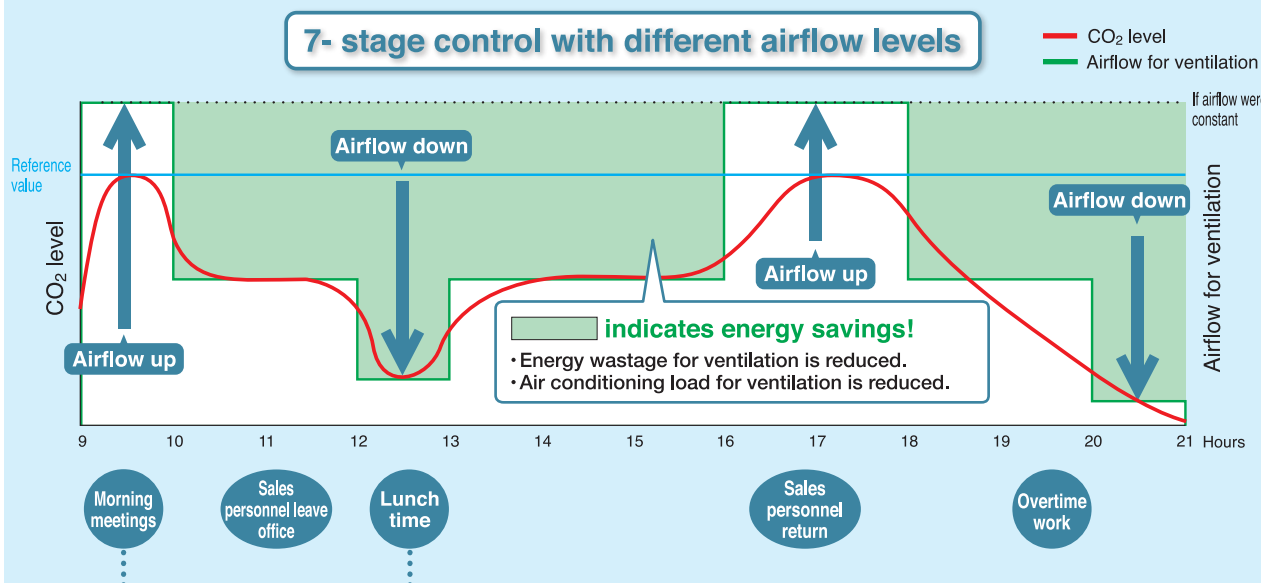
Air Treatment Equipment Lineup

Heat Reclaim Ventilator — VAM series

CO₂ Sensor Optional Kit Connection

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

Example of CO₂ sensor operation in an office room:



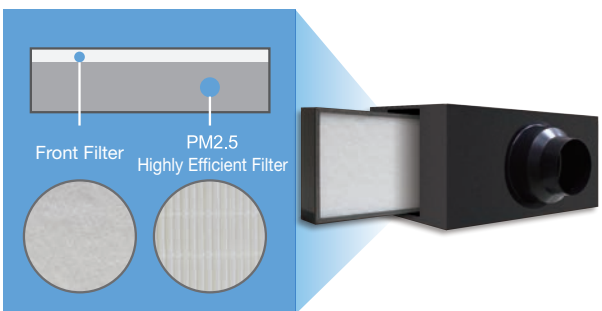
Heat Reclaim Ventilator — PM2.5 filtration unit (Option)

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

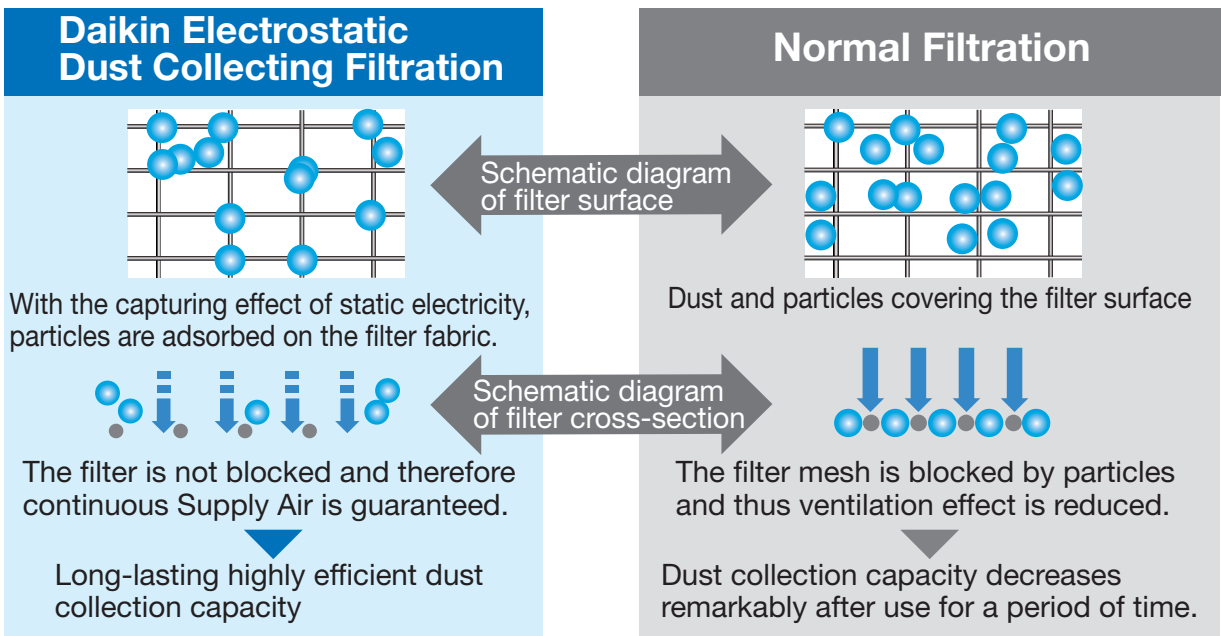
PM2.5 filters are double-layered.

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

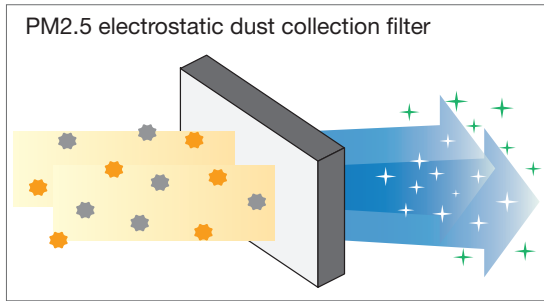
The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently, including those smaller than the grid mesh. The filter is difficult to be blocked by particles and has good ventilation and long life span.



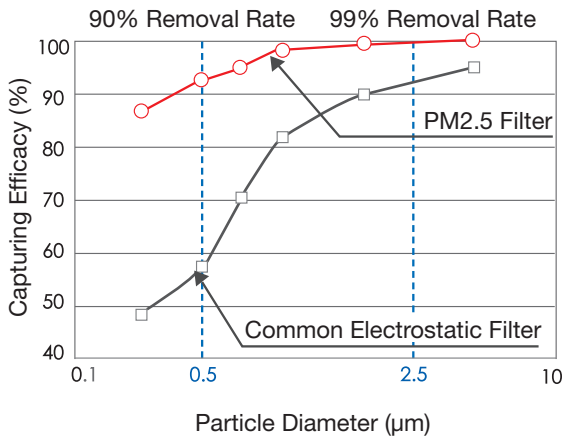
Air Treatment Equipment Lineup

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

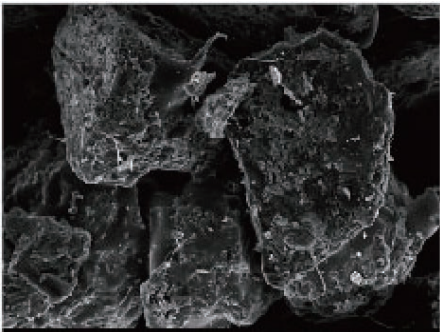


Extra-High Performance Filter Against Sulfur Oxides and Nitrogen Oxides

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.



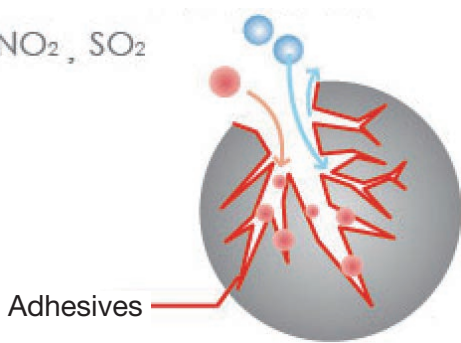
Intelligent Identification, Super-effective Adhesion

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.

Unidentified Gases

NO₂, SO₂



SPECIFICATIONS

MODEL			VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE			
Power Supply			1-phase, 220-240 V/ 220 V, 50/60 Hz											
Temp. Exchange Efficiency (50/60 Hz)		Ultra-High	%	79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77		
		High		79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77		
		Low		84/85	79/79	82/82	80/80.5	77/77.5	74/74.5	80.5/81	75.5/76	79/81		
Enthalpy Exchange Efficiency (50/60 Hz)	For 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	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	278x810x551		306x879x800		338x973x832		387x1,111x832	387x1,111x1,214	785x1,619x832	785x1,619x1,214		
Machine Weigh		kg	24		32		45		55		67		129	157
Heat Exchange System			Air to air cross flow total heat (Sensible heat + latent heat) exchange											
Heat Exchange Element Material			Specially processed nonflammable paper											
Air Filter			Multidirectional fibrous fleeces											
Fan	Type		Sirocco fan											
	Airflow Rate (50/60 Hz)	Ultra-High	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	φ 100	φ 150		φ 200		φ 250		φ 350				
Unit ambient condition			-15°C—50°CDB, 80%RH or less											

- Notes: 1. Sound level is measured at 1.5m below the centre of the body.
2. Airflow rate can be changed over to Low mode or High mode.
3. Sound level is measured in an anechoic chamber.
4. 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.)

Air Treatment Equipment Lineup

PM2.5 Filtration Unit

Models		BAF249A150	BAF249A300	BAF249A350	BAF249A500
Heat Reclaim Ventilator Models		VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE
Dimensions (H × W × D)	mm	220×603×366	220×603×366	300×623×366	300×623×366
Connection Duct Diameter	mm	φ 100	φ 150	φ 150	φ 200
Airflow Rate	m³/h	150	250	350	500
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31
	Filter Lifetime ¹	1 year			
	Filtration Efficiency ²	99% or higher			
	Filter Material No. ³	BAF244A300		BAF244A500	

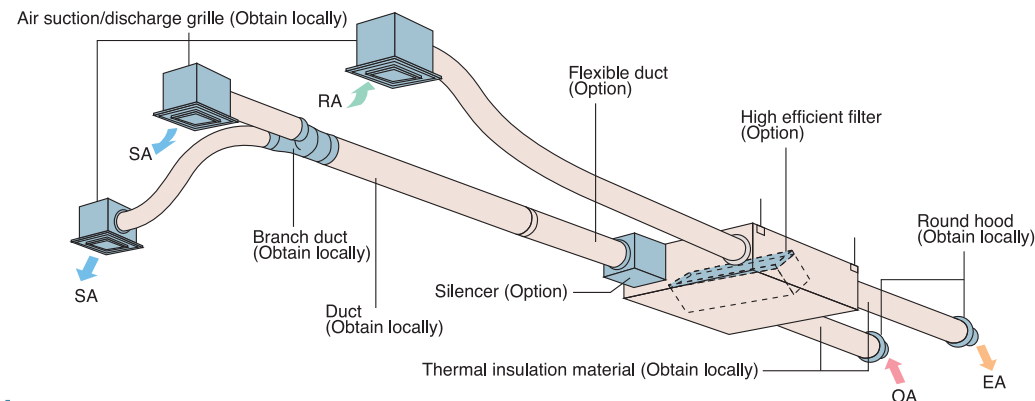
Notes: 1. Annual usage: 400 hrs/month × 12 months = 4,800 hrs
2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more; 90% or higher removal rate of ultra-fine particles with diameters of 0.5 μm.
3. Filters come with applicable filtration units with a one-year life. They 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 × W × D)		mm	220×603×366	220×603×366	300×623×366	300×623×366
Connection Duct Diameter		mm	φ 100	φ 150	φ 150	φ 200
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	BAF244A300BAF244A500				
Activated Carbon Filter	Initial Pressure Drop	Pa	3	5	5	9
	Filter Lifetime	1 year				
	Filter Material No. ³	BAF244A300CBAF244A500C				
Total Initial Pressure Drop for PM2.5 with Activated Carbon Filtration Unit		Pa	37	35	36	51

Notes: 1. Annual usage: 400 hrs/month × 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.

OPTIONS



Option List

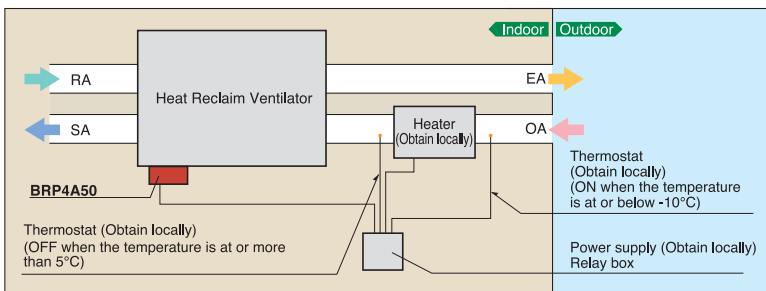
Item	Type	VAM150 · 250 · 350 · 500 · 650 · 800 · 1000 · 1500 · 2000GJVE															
Controlling device	Heat Reclaim Ventilator remote controller	BRC301B61															
	Centralised controlling device	Residential central remote controller	DCS303A51 ^{*1}														
		Central remote controller	DCS302CA61														
		Unified ON/OFF controller	DCS301BA61														
		Schedule timer	DST301BA61														
	Wiring adaptor for electrical appendices	For humidifier	KRP50-2														
		Installation box for adaptor PCB	KRP50-2A90 (Mounted electric component assy of Heat Reclaim Ventilator)														
		For heater control kit	BRP4A50														
		Type (indoor unit of VRV)	FXFQ-S	FXZQ-M	FXCQ-M	FXKQ-MA	FXDQ-PB	FXSQ-P	FXMQ-P	FXMQ-MA	FXUQ-A	FXHQ-MA	FXAQ-P	FXLQ-MA	FXVQ-N	FXBQ-P	FXBQ-P
	For wiring		FXFQ-LU				FXDQ-NB							FXNQ-MA		FXBQ-P	FXBQ-P

Notes: 1. Installation box ☆ is necessary for each adaptor marked ☆.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box ☆ is necessary for each adaptor.
6. ^{*1} For residential use only. When connect with a Heat Reclaim Ventilator (VAM), you can only switch the power ON/OFF. It cannot be used with other central control equipment.

Item	Type	VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Additional function	Silencer	—		KDDM24B50		KDDM24B100		KDDM24B100X2		KDDM24B100X2
	Nominal pipe diameter	mm		φ 200		φ 250		φ 250		φ 250
	High efficiency filter	KAF242H25M		KAF242H50M		KAF242H65M		KAF242H80M		KAF242H100M
	Air filter for replacement	KAF241G25M		KAF241G50M		KAF241G65M		KAF241G80M		KAF241G100M
Flexible duct (1 m)		K-FDS101D	K-FDS151D	K-FDS201D		K-FDS251D		K-FDS251D		K-FDS251D
Flexible duct (2 m)		K-FDS102D	K-FDS152D	K-FDS202D		K-FDS252D		K-FDS252D		K-FDS252D
Duct adaptor	Nominal pipe diameter	mm		—		—		YDFA25A1		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 use 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.

Individual Control Systems for VRV Indoor Units

Navigation Remote Controller (Wired remote controller) (Option)



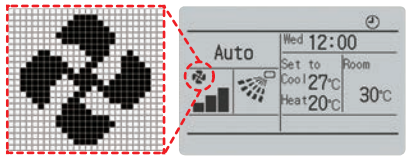
BRC1E62

This simple and contemporary remote controller with fresh white colour matches the interior design. The clear, backlight display with large easy-to-read text makes navigation easy and provides one-touch control over the comfort at home.

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.



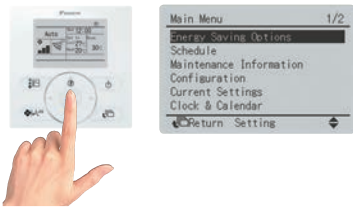
Simple operation

•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, select the function from the menu list.

•Guide on display

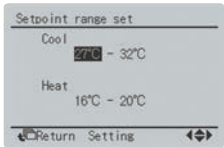
The display gives an explanation of each setting for easy operation.



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.

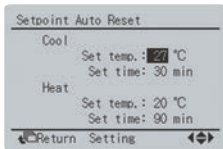


•Off timer

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

•Setpoint auto reset

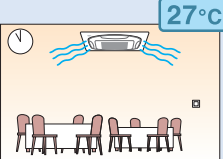
Even if the set temperature is changed, it returns to the preset temperature after a preset period of time. Period selectable from 30 min/60 min/90 min/120 min.



Restaurant sample

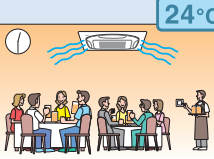
Restaurant opened

Temperature is set to 27°C



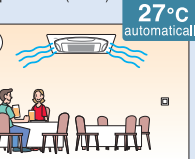
Full tables at lunchtime

Then is lowered to 24°C for crowded room



After 30 minutes*

Automatically returns to preset temperature (27°C)



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

Convenience

•Setback (default: OFF)

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

	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)

Schedule nr 1				
Time	Act	Cool	Heat	
Mon 8:30	ON	25°C	—	—
10:00	OFF	—	—	—
13:00	ON	25°C	—	—
15:00	OFF	—	—	—
Return Setting				

College classroom sample (a summer Monday case)

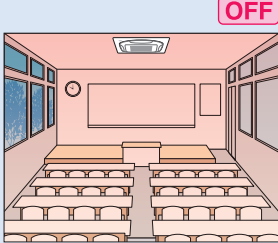
1) 8:30 ON

The first period starts and the air conditioner starts the cooling operation.



2) 10:00 OFF

In the second period, the classroom is unoccupied and the air conditioner stops.



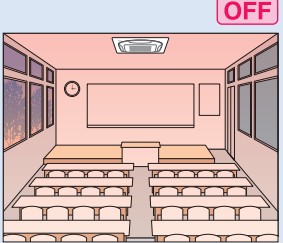
3) 13:00 ON

When the third period starts, operation starts again.



4) 15:00 OFF

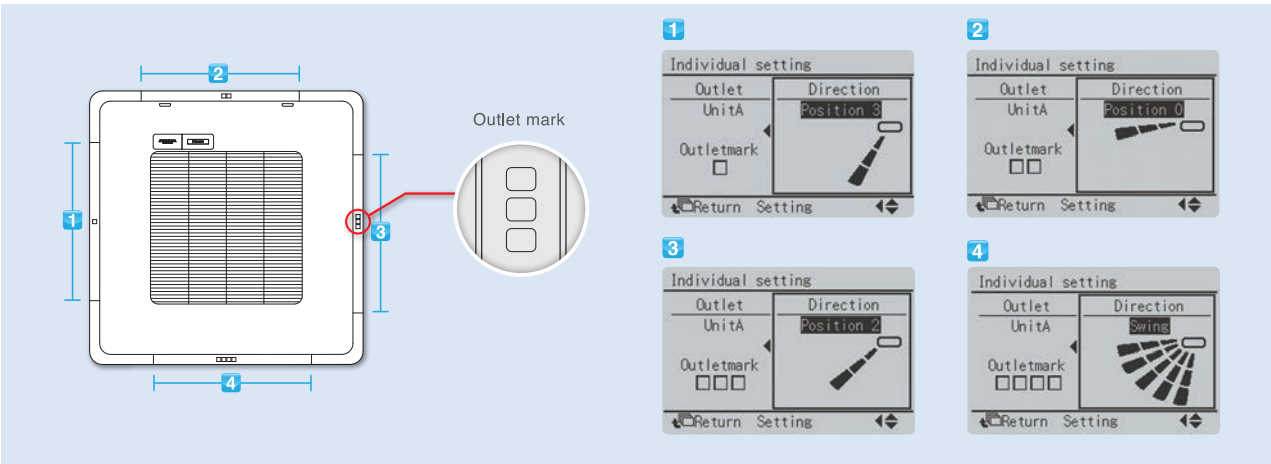
After the third period, the classroom becomes vacant again and the air conditioner stops.



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 to the difference between room temperature and set temperature.

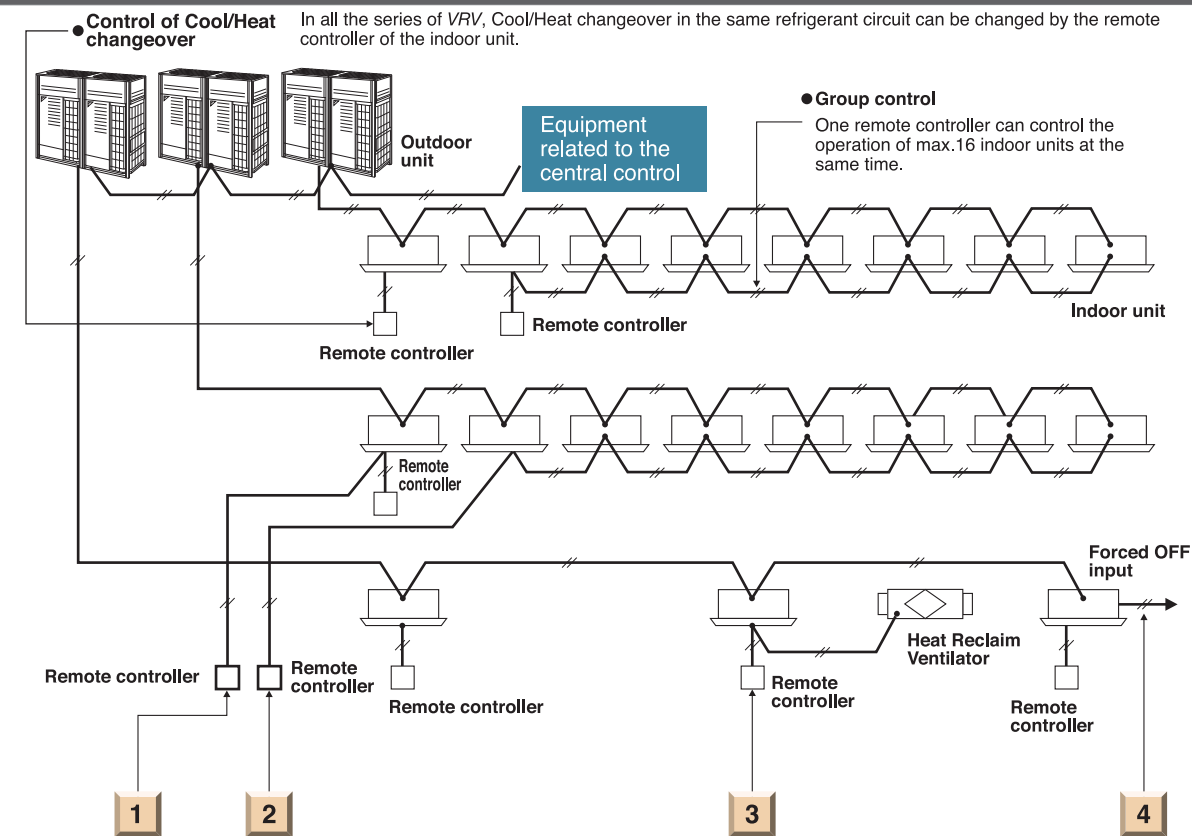
*1. Only available for VRV 4-Way Flow Ceiling Suspended type FXUQ-A series and Ceiling Mounted Cassette (Round Flow with Sensing) type FXFQ-S series.
*2. Only available for VRV 4-Way Flow Ceiling Suspended type FXUQ-A series, Ceiling Mounted Cassette (Round Flow with Sensing) type FXFQ-S series and Middle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

Individual Control Systems for VRF Indoor Units



- 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



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 different indoor units in one place.

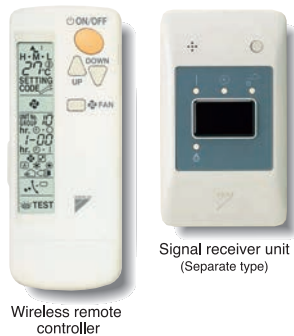
3 Control for the combined operation

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

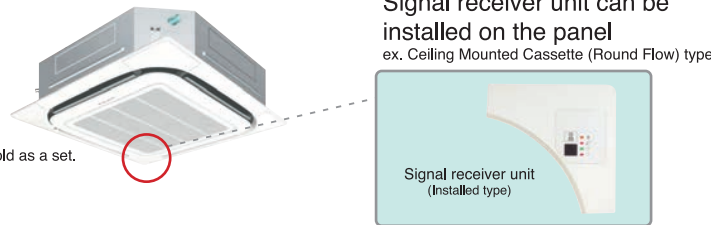
The system can be expanded to add several controllers, such as BMS, Forced OFF input and etc.

Wireless remote controller (Option)

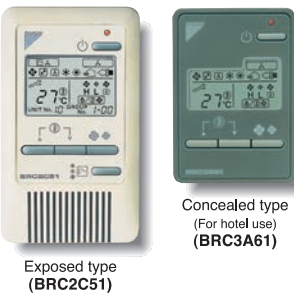


- * Wireless remote controller and signal receiver unit are sold as a set.
- * Refer to page 189 for the name of each model.

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



Simplified remote controller (Option)



- 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.

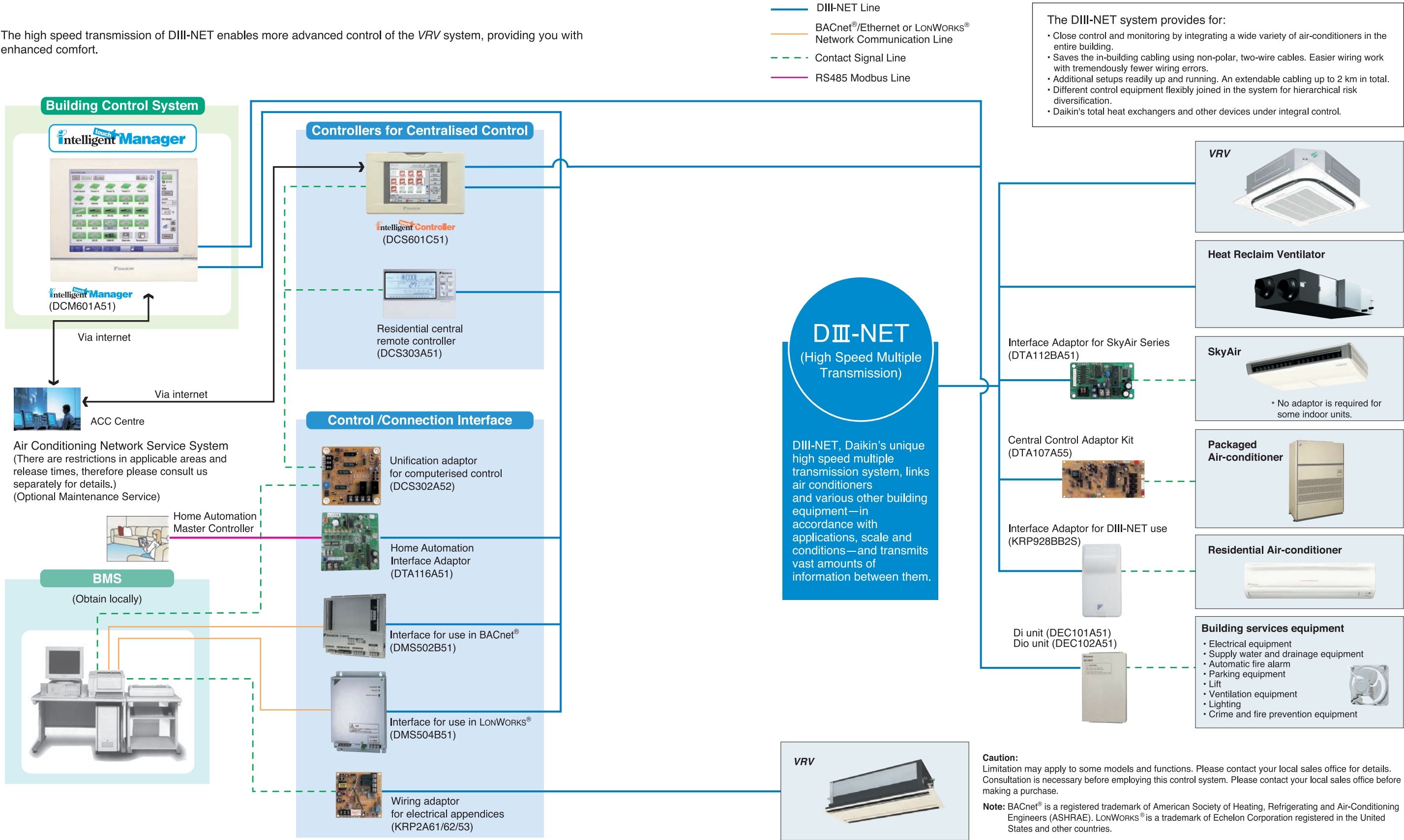
Wide variation of remote controllers for VRF indoor units

	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 189 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.



Advanced Control Systems for VRV Indoor Units



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

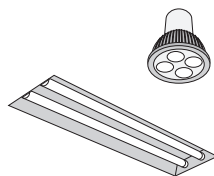
The flexible control achieved by the VRV system precisely meets different air conditioning needs in each room (e.g. offices, conference rooms, hotel rooms).



Lighting control

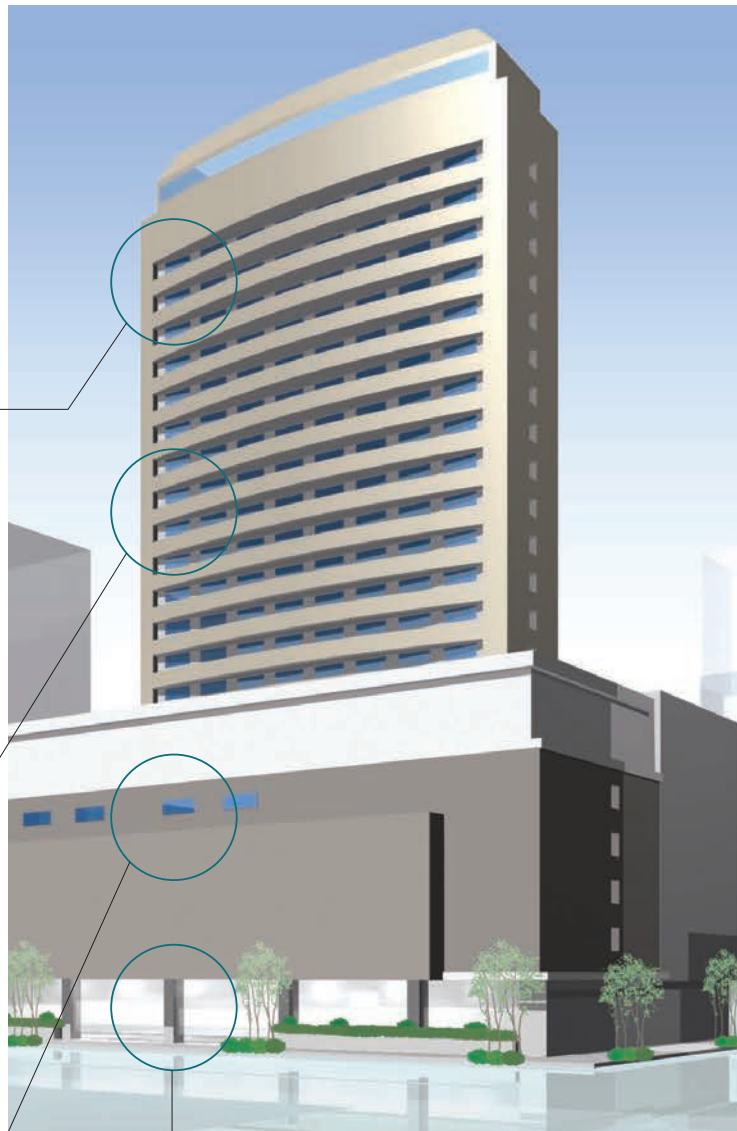
DALI-compatible

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

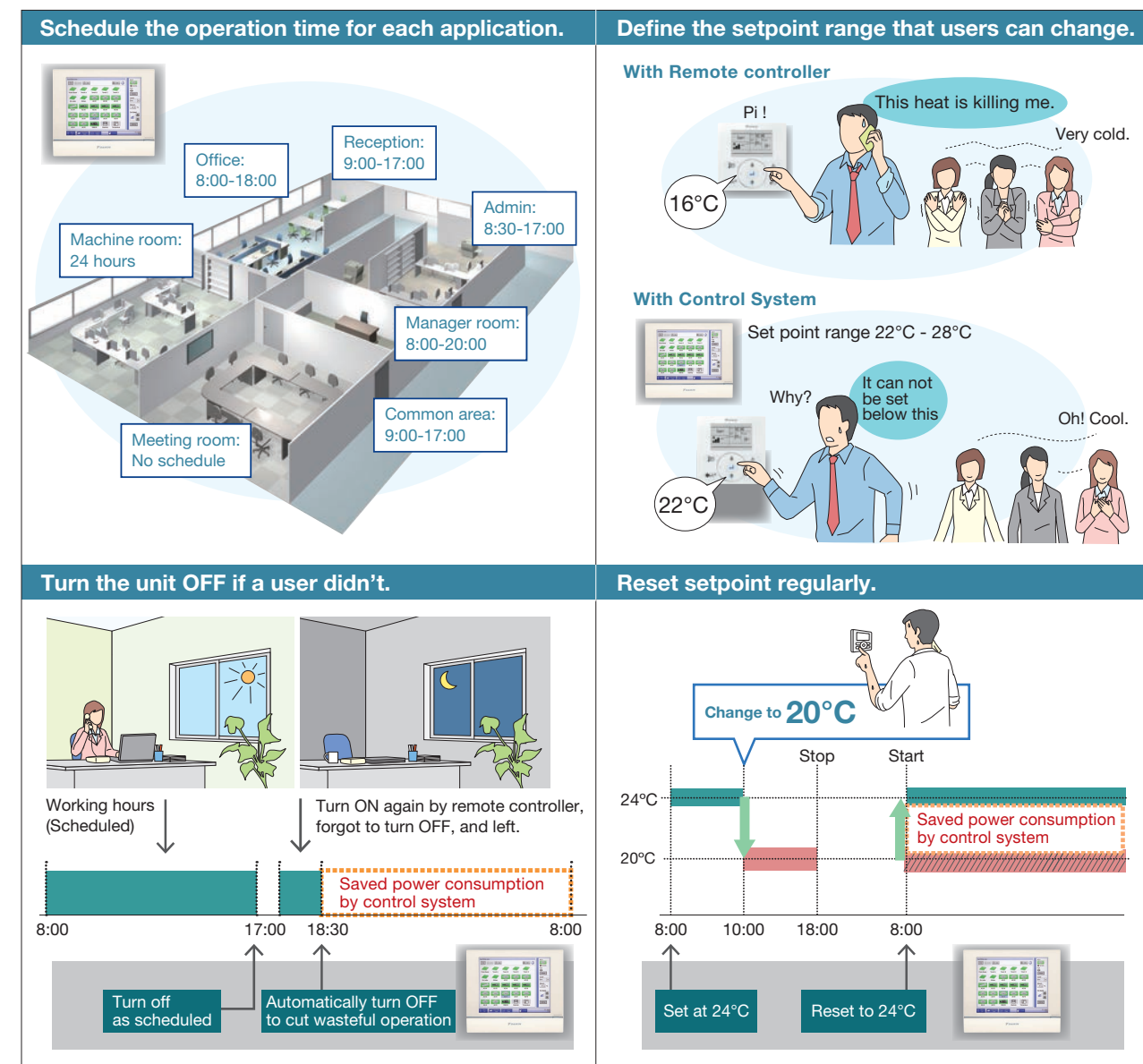
intelligent Touch Manager maximises the advantages of VRV features

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.



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*

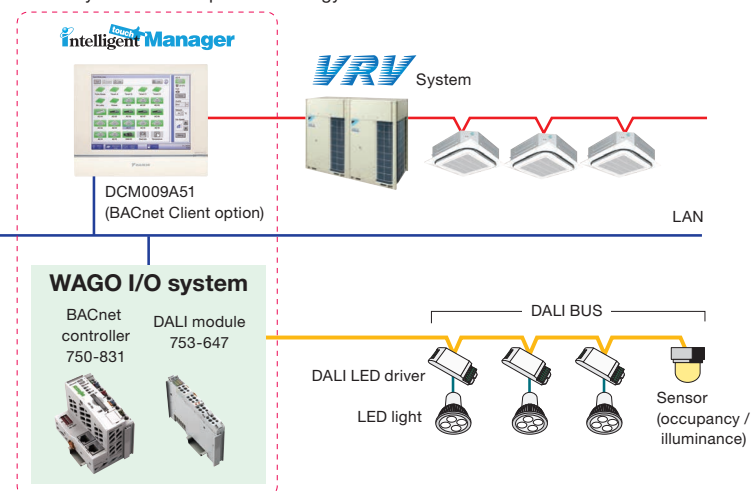
[Monitoring]

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

[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.

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

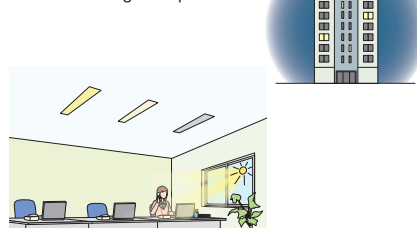


Easy maintenance and energy saving by lighting control

Case1

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

- Failing to switch off lights is prevented.

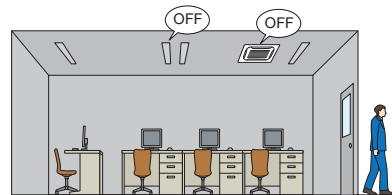


- Optimal illuminance reduces energy.

Case2

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

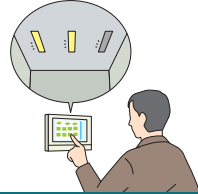
When a room is unoccupied, the air conditioning stops and the lighting is switched off.



Case3

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.

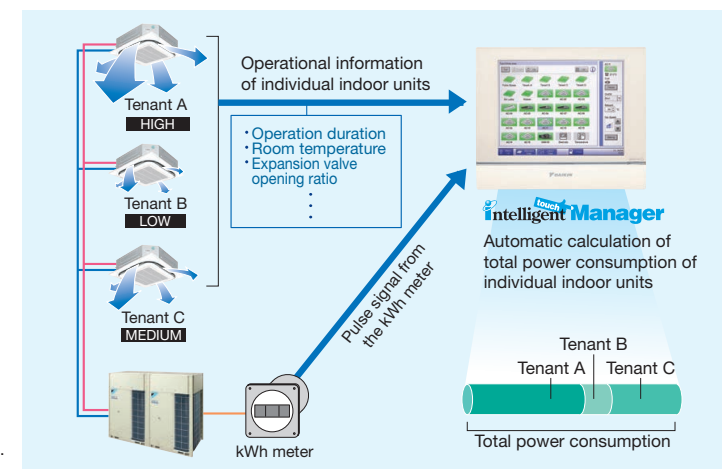
Operational information of individual indoor units are monitored, based on distribution of power consumption of outdoor units.

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.



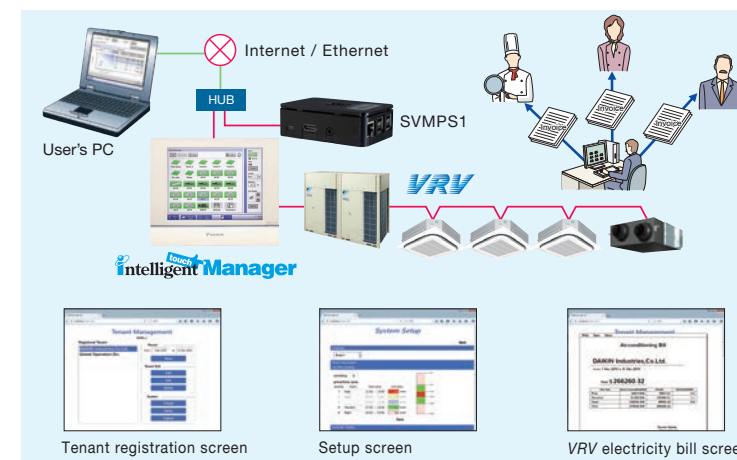
Air conditioning bills can be issued by one click

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)



Effective service functions offered to tenants

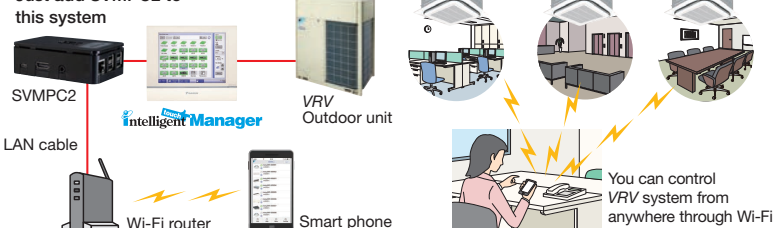
Smart phone will be a remote controller of VRV system (Option)

Users can operate and check the status of VRV system from their smart phones via Wi-Fi. It is not necessary to move where a remote controller is located with this feature. VRV system in other rooms can be operated, and their status can be checked. It is also possible to check if air conditioners in other rooms remain switched on etc., helping achieve energy saving.

For buildings VRV Smart Phone Remote Controller

Up to 512 indoor units can be controlled.

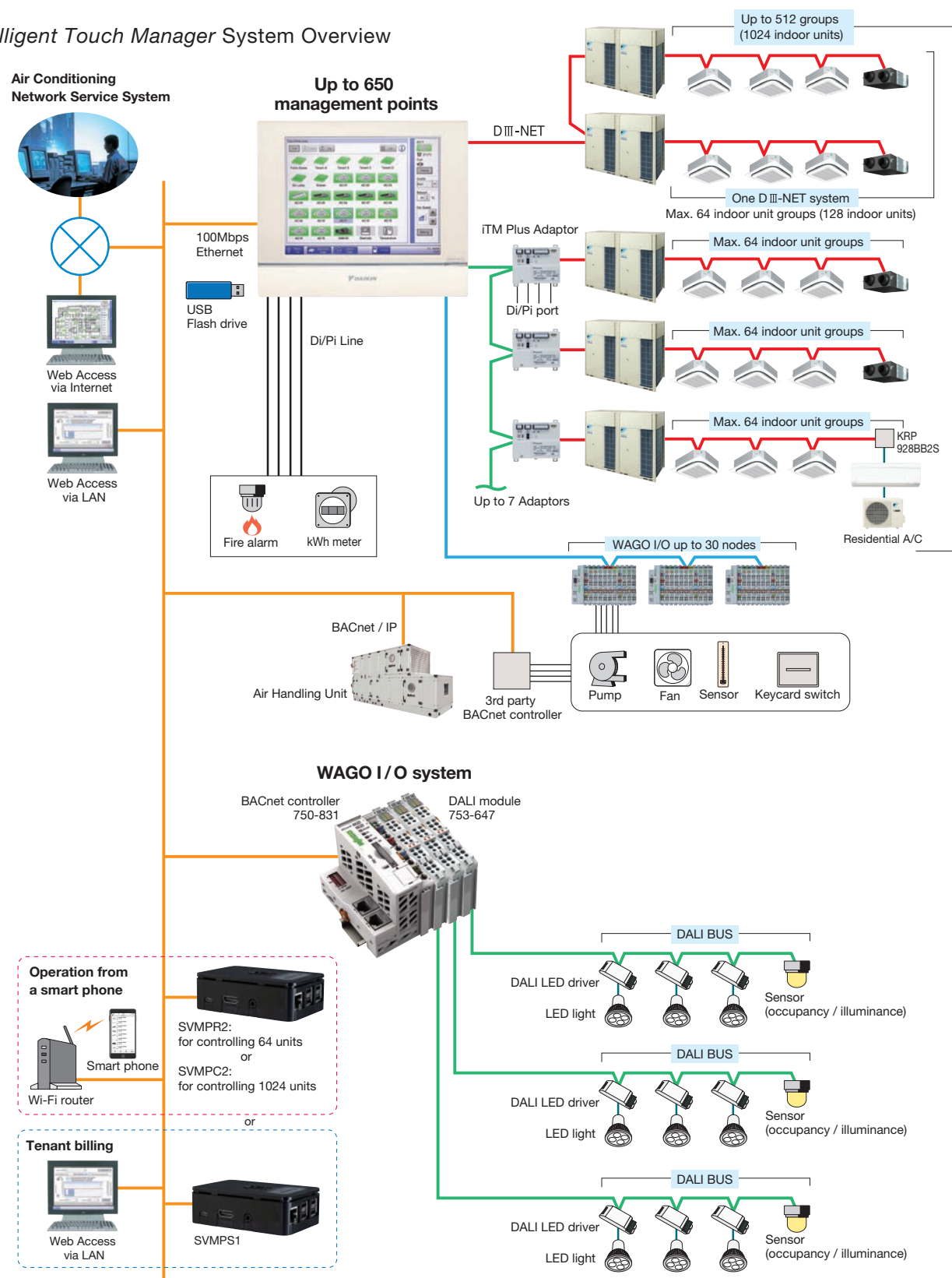
Just add SVMP2 to this system



Advanced Control Systems for VRV Indoor Units

System structure

intelligent Touch Manager System Overview



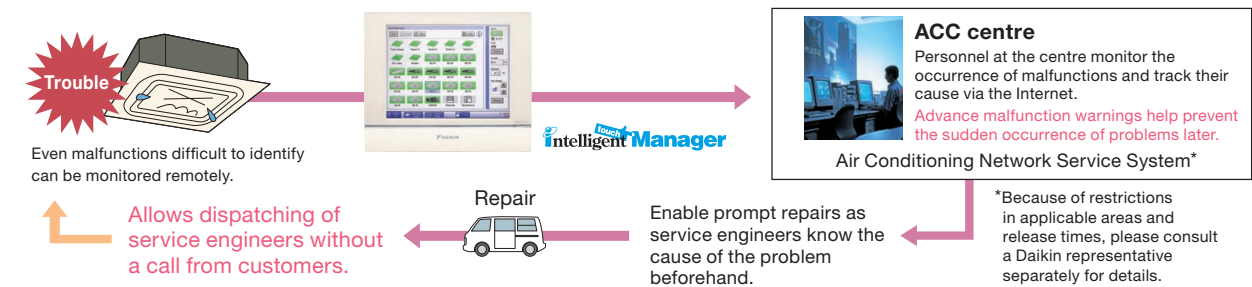
Air Conditioning Network Service System

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



intelligent Controller

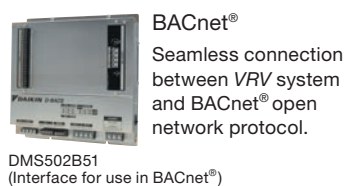
Ease of use and expanded control functions

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

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

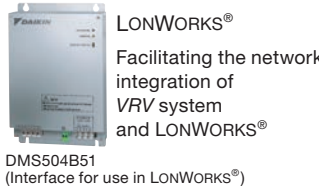
Compatible with BACnet® and LONWORKS®, the two leading open network communication protocols, Daikin offers interfaces that provide a seamless connection between VRV system and your BMS.

Dedicated interfaces make Daikin air conditioners freely compatible with open networks



DMS502B51 (Interface for use in BACnet®)

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



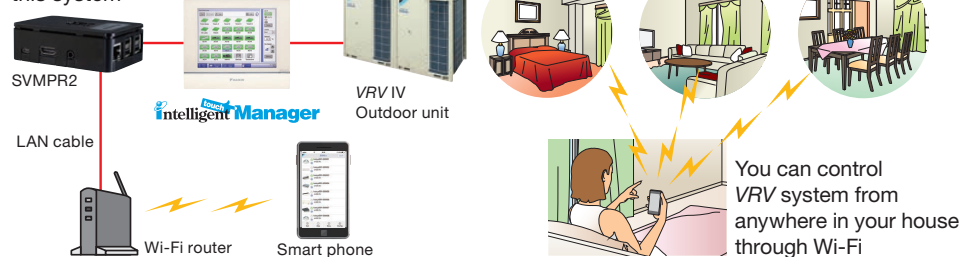
DMS504B51 (Interface for use in LONWORKS®)

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



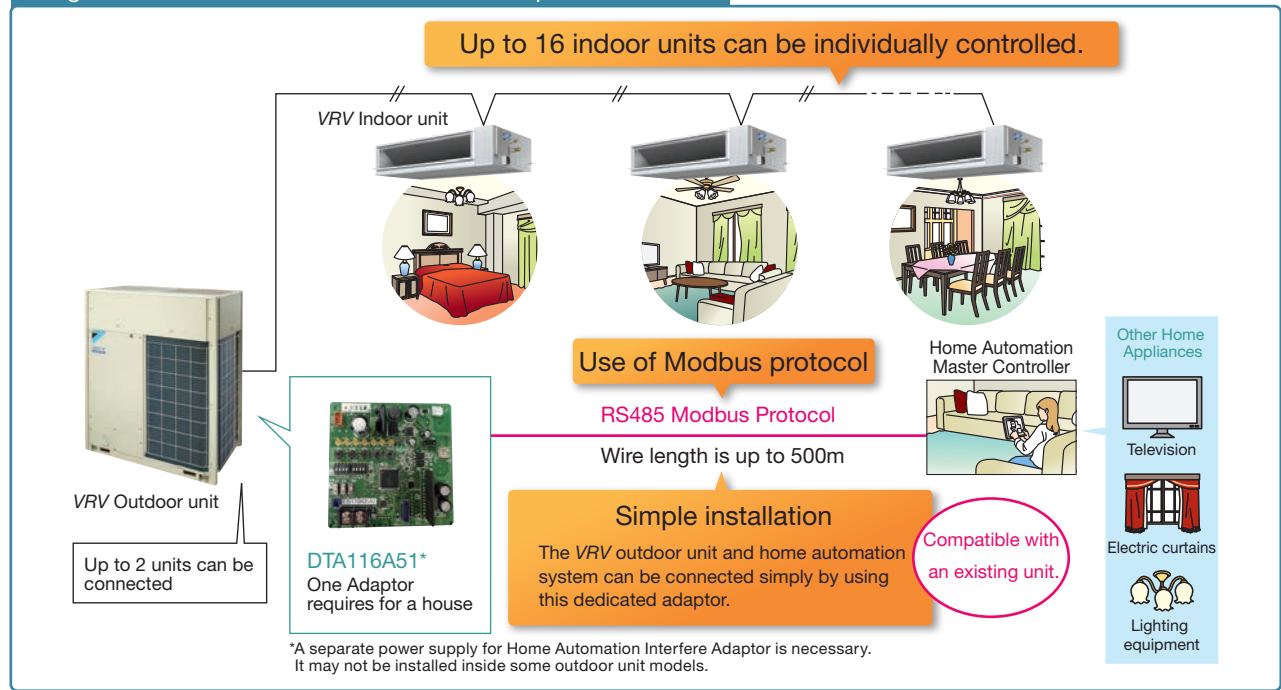
Monitor Control

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



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

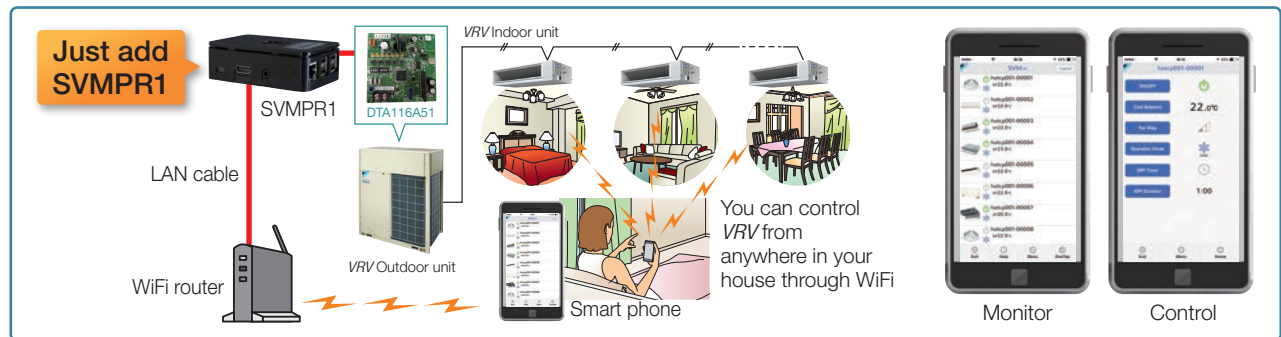
On/Off	On/Off control of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Cooling/Heating setpoint
Fan direction	Swing, Stop, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Filter sign reset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

VRV Tablet Controller : SVMPC1

The SVMPC1 is easy to install, and enables monitoring and operation of VRV systems via tablets and smartphones. It is optimal for centralized management of VRV systems in small buildings or on individual floors of a building.

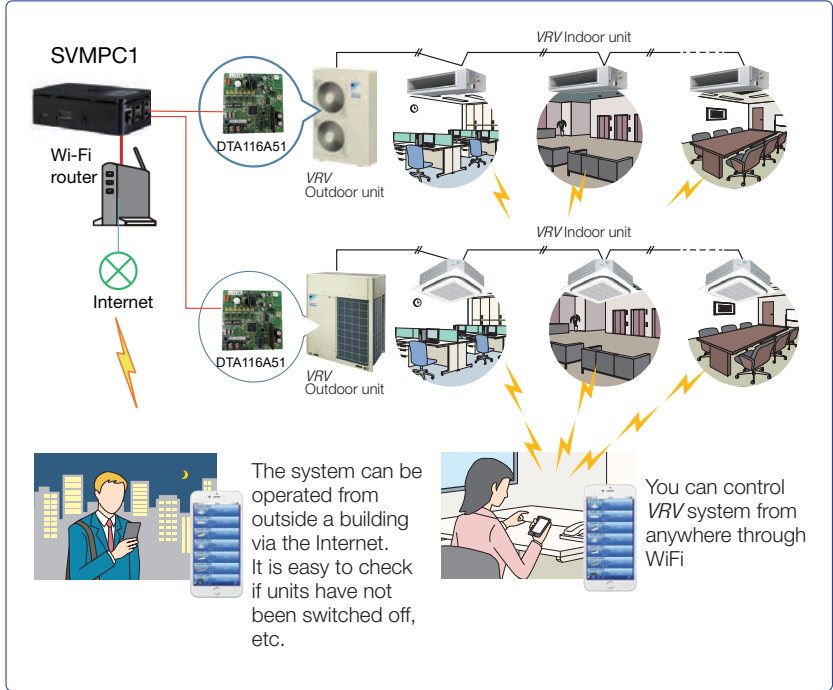
Simple and easy but powerful enough

- SVMPC1 is easy to install. Just add DTA116A51 to outdoor unit and connect it to controller.
- Thanks to user-friendly screen, anyone can operate easily.



- SVMPC1 allows to operate VRV system from anywhere (inside and outside of an office) through the internet.
- Set point range limitation and setback function achieve energy saving and comfortable air-conditioning.
- Daily air-conditioning operation is automatically done by schedule function with annual calendar.
- Quick notification of malfunction by e-mail will be support quick maintenance.

Up to 32 indoor units can be monitored and controlled.



Functions

*: only admin user can set

Category	Function	Detail
Access security	User login	User name, password
	Device registration	Registered device (Tablet, Smartphone) can access through the internet
Main screen	Status monitoring	On/Off, Setpoint, Operation mode, Fan step, Flap, Error, Error code, Room Temperature
	Manual operation	On/Off, Setpoint, Operation mode, Fan step, Flap
Automatic control	Setpoint range limitation*	Cool setpoint min/max, Heat setpoint min/max
	Off timer*	Off timer on/off, Off timer duration (5min - 12h, every 5min)
	Setback operation*	Setback setpoint range (Cool: 24-35C, Heat: 10-20C)
	Schedule*	Action registration: Time, On/Off, Setpoint, Operation mode, Fan step, Flap, Off timer on/off, Setback setpoint Calendar setting: set by date or day of the week
System setting	Language	English, Spanish, Portuguese, Thai, Vietnam, Simplified Chinese, Traditional Chinese
	Password setting	
	User administration*	Add/Modify/Delete user, Set User name, Password, Accessible points
	Point setting*	Set point name, Select icon

Specifications

Category	Specification	Detail
Connectable units	Number of indoor units	Max 32 (with additional DTA116A51)
	Number of DTA116A51	Max 2
Connectable device	Number of Tablet/Smartphone	Max 20
	Device type	iPad, iPhone, Android tablet, Android Phone, Windows Tablet, Windows Phone, Windows PC, Mac
	Web browser	Firefox, Chrome, Safari

Option List

Outdoor Units

VRV IV 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, KHP26M73HP	
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, KHP26M73HP			
Outdoor unit multi connection piping kit		BHFP22P151			

VRV IV 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, KHP26M73HP	
Outdoor unit multi connection piping kit		BHFP22P100			

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, KHP26M73HP			
Outdoor unit multi connection piping kit		BHFP22P151			

VRV IV Space Saving Type

Optional Accessories		RXQ18TAYM(E) RXQ20TAYM(E)
Distributive 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)
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, KHRP26M33T, KHRP26M72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T		
Pipe size reducer		—	KHRP26M73TP, KHRP26M73HP		
Outdoor unit multi connection piping kit		BHFP22P100			

Optional Accessories		RXQ42TASYM(E) RXQ44TASYM(E)	RXQ46TASYM(E) RXQ48TASYM(E) RXQ50TASYM(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, KHRP26M73HP	
Outdoor unit multi connection piping kit		BHFP22P151	

VRV IV S SERIES

No.	Item	Type	RXMQ4AVE	RXMQ5AVE	RXMQ6AVE	RXMQ8AY1	RXMQ9AY1
1	Fixing box		KJB111A			—	
2	REFNET header		KHRP26M22H (Max. 4 branch)				
			KHRP26M33H (Max. 8 branch)				
3	REFNET joint		KHRP26A22T			KHRP26A22T, KHRP26A33T	
4	Central drain plug		KKPJ5G280		KKPJ5F180	KKPJ5G280	
5	Fixture for preventing overturning		KKTP5B112		KPT-60B160	KKTP5B112	
6	Wire fixture for preventing overturning		—			K-KYZP15C	

Option List

Outdoor Units

VRV IV Q SERIES Standard Type

Optional Accessories		RQQ6TYM(E) RQQ8TYM(E) RQQ10TYM(E)	RQQ12TYM(E)	RQQ14TYM(E) RQQ16TYM(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		RQQ18TNYM(E) RQQ20TNYM(E)	RQQ22TNYM(E)	RQQ24TNYM(E) RQQ26TNYM(E)	RQQ28TNYM(E) RQQ30TNYM(E) RQQ32TNYM(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, KHRP26M73HP	
Outdoor unit multi connection piping kit		BHFP22P100			

Optional Accessories		RQQ34TNYM(E) RQQ36TNYM(E)	RQQ38TNYM(E) RQQ40TNYM(E)	RQQ42TNYM(E) RQQ44TNYM(E)	RQQ46TNYM(E) RQQ48TNYM(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, KHRP26M73HP			
Outdoor unit multi connection piping kit		BHFP22P151			

VRV IV Q SERIES Space Saving Type

Optional Accessories		RQQ18TYM(E) RQQ20TYM(E)
Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T

Optional Accessories		RQQ30TSYM(E) RQQ32TSYM(E) RQQ34TSYM(E)	RQQ36TSYM(E) RQQ38TSYM(E) RQQ40TSYM(E)	RQQ42TSYM(E) RQQ44TSYM(E)	RQQ46TSYM(E) RQQ48TSYM(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, KHRP26M73HP			
Outdoor unit connection piping kit		BHFP22P100		BHFP22P151	

VRV IV W SERIES Cooling Only

No.	Type		RWEYQ6T RWEYQ8T RWEYQ10T RWEYQ12T	RWEYQ14T RWEYQ16T RWEYQ18T RWEYQ20T RWEYQ22T RWEYQ24T	RWEYQ26T RWEYQ28T RWEYQ30T RWEYQ32T RWEYQ34T RWEYQ36T
1	Distributive piping	REFNET header	KHRP25M33H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP25M73H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch)
		REFNET joint	KHRP25A22T, KHRP25A33T, KHRP26A22T, KHRP26A33T	KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP26A22T, KHRP26A33T, KHRP26A72T	KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP25A73T, KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T
2	Outside unit multi connection piping kit		—	BHFP22MA56	BHFP22MA84
3	External control adaptor		DTA104A62		
4	Strainer kit		BWU26A15, BWU26A20		

VRV IV HEAT RECOVERY HOT WATER SYSTEM High-COP Type

Optional Accessories		RWHQ12THYM RWHQ14THYM RWHQ16THYM
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
Hot water controller box		BRCM82
Hot water remote controller		BRCS82

Optional Accessories		RWHQ18THYM RWHQ20THYM RWHQ22THYM	RWHQ24THYM RWHQ26THYM RWHQ28THYM RWHQ30THYM RWHQ32THYM	RWHQ34THYM
Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (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, KHRP26M73HP	
Outdoor unit multi connection piping kit		BHFP22P151		
Hot water controller box		BRCM82		
Hot water remote controller		BRCS82		

Optional Accessories		RWHQ18THYM	RWHQ18THYM	RWHQ18THYM	RWHQ24THYM RWHQ26THYM RWHQ28THYM RWHQ30THYM RWHQ32THYM
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, KHRP26M73HP			
Outdoor unit multi connection piping kit		BHFP22P151			
Hot water controller box		BRCM82			
Hot water remote controller		BRCS82			

VRV IV HEAT RECOVERY HOT WATER SYSTEM Standard Type

Optional Accessories		RWHQ6TYM RWHQ8TYM RWHQ10TYM	RWHQ12TYM	RWHQ14TYM RWHQ16TYM
Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)	
	REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T	
Hot water controller box		BRCM82		
Hot water remote controller		BRCS82		

Optional Accessories		RWHQ18TNYM RWHQ20TNYM	RWHQ22TNYM	RWHQ24TNYM RWHQ26TNYM	RWHQ28TNYM RWHQ30TNYM RWHQ32TNYM
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, KHRP26M73HP	
Outdoor unit multi connection piping kit		BHFP22P100			
Hot water controller box		BRCM82			
Hot water remote controller		BRCS82			

Optional Accessories		RWHQ34TNYM RWHQ36TNYM	RWHQ38TNYM RWHQ40TNYM	RWHQ42TNYM RWHQ44TNYM	RWHQ46TNYM RWHQ48TNYM RWHQ50TNYM RWHQ52TNYM RWHQ54TNYM RWHQ56TNYM RWHQ58TNYM RWHQ60TNYM
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, KHRP26M73HP			
Outdoor unit multi connection piping kit		BHFP22P151			
Hot water controller box		BRCM82			
Hot water remote controller		BRCS82			

Option List

Outdoor Units

VRV IV HEAT RECOVERY HOT WATER SYSTEM Space Saving Type

Optional Accessories		RWHQ18TYM RWHQ20TYM
Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T
Hot water controller box		BRCM82
Hot water remote controller		BRCS82

Optional Accessories		RWHQ22TSYM	RWHQ24TSYM	RWHQ26TSYM RWHQ28TSYM RWHQ30TSYM RWHQ32TSYM	RWHQ34TSYM RWHQ36TSYM RWHQ38TSYM RWHQ40TSYM
Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (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, KHRP26M73HP		
Outdoor unit multi connection piping kit		BHFP22P100			
Hot water controller box		BRCM82			
Hot water remote controller		BRCS82			

Optional Accessories		RWHQ42TSYM RWHQ44TSYM	RWHQ46TSYM RWHQ48TSYM RWHQ50TSYM
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, KHRP26M73HP	
Outdoor unit multi connection piping kit		BHFP22P151	
Hot water controller box		BRCM82	
Hot water remote controller		BRCS82	

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		KAFP55C160							
		Replacement ultra long-life filter		KAFP55H160H							
5	Fresh air intake kit	Chamber type	Without T joint-pipe and fan	KDDQ55B140 (Components: KDDP55C160-1, KDDQ55B140-2) *1							
			With T joint-pipe without fan	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		KAFP55C160							
		Replacement ultra long-life filter		KAFP55H160H							
5	Fresh air intake kit	Chamber type	Without T joint-pipe and fan	KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) *1							
			With T joint-pipe without fan	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

Option List

VRV Indoor Units

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				—

Notes: *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					

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	

VRV Indoor Units

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					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	

Notes: *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		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.

Option List

Control System

Operation Control System Optional Accessories
For VRV indoor unit use

No.	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 Wired	BRC7F635F	BRC7E531W	BRC7C67	BRC4C63	BRC4C66				
2	Navigation remote controller (Wired remote controller)		BRC1C62								
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.	Type		FXMQ-MA	FXUQ-A	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXVQ-N	FXBQ-P FXBPQ-P
1	Remote controller	Wireless Wired	BRC4C64	BRC7CB59	BRC7EA66 BRC1C62	BRC7EA619	BRC4C64	— BRC1C62 <small>Note 8</small>	BRC4C64 BRC1C62
2	Navigation remote controller (Wired remote controller)		BRC1E62 <small>Note 7</small>					BRC1E62 <small>Note 9</small>	BRC1E62 <small>Note 7</small>
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	<small>Note 3</small> KRP1CA93	<small>Note 2, 3</small> KRP4AA93	—		
9	External control adaptor for outdoor unit		DTA104A61	—	★DTA104A62	★DTA104A61	DTA104A61	<small>Note 10</small> DTA104A62	DTA104A61
10	Adaptor for multi tenant		—				★DTA114A61	—	
11	External control adaptor for cooling/heating		—					KRP6A1 <small>Note 10</small>	—
12	Remote controller with key		—					KRCB37-1	—

Notes: 1. Installation box ☆ is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box 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.	Type		FDKS-EA, C(A)	FTKJ-N	FTKS-D,B,F
1	Remote controller	Wireless type	—		
2	Wiring adaptor for time clock/remote controller		KRP413AB1S		
3	Remote controller loss prevention chain		KKF917A4	KKF910A4	KKF917A4
4	Interface adaptor for DIII-NET use		KRP928BB2S		

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

System Configuration

No.	Item		Type	Model No.	Function
1	Residential central remote controller			Note 2 DCS303A51	• Up to 16 groups of indoor units (128 units) can be easily controlled using the large LCD panel. ON/OFF, temperature settings and scheduling can be controlled individually for indoor units.
2	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.
4	Interface adaptor for SkyAir-series			Note 4 ★DTA112BA51	* To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
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

Notes: 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	SVMPR2	SVMPR2	• VRV Smart phone Control System for residence
2-7				SVMPC2	SVMPC2	• VRV Smart Phone Remote Controller for building
2-8		*1 SVM series			SVMPS1	• Tenant Billing System with PPD
2-9		VRV Smart Phone Control System				SVMPR1
2-10	VRV Tablet Controller				SVMPC1	• VRV Tablet Controller for small size building with DTA116A51
2-11	Di unit				DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.
2-12	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.

Notes: *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.