DAIKIN

PCVAU1712

VRV

General Catalogue

R-410A

Contents

Background of *VRV* development

The 1st Generation

VRV 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

'82 — *VRV* C series -Cooling only-

'84 — *VRV* D series -Cooling only-

'88 — *VRV* F series -Cooling only-

'90 — *VRV* G series -Heat pump-

'92 — *VRV* G series -Heat recovery-

'95 — *VRV* H series Made possible to connect to BMS using the DIII-NET

'96 — *VRV* K series

'99 — *VRV* K Plus series

'00 — *VRV* L series Adopted the new R-407C refrigerant

'02 — *VRV* KA series

'04 — *VRV* II series

'05 — *VRV* II M series Adopted the new R-410A refrigerant

'06 — *VRV* II MA series

'07 — *VRV* II-S series

'08 — *VRV* III series

'10 — *VRV*-WII series

'11 — *VRV* III-C series -Low outdoor temp. area use-

'12 — *VRV* III-S series

'14 — *VRV* III Q series -Replacement use-

'16 — *VRV* III Connection to residential indoor unit series

VRV-WIII series

VRV IV -Cooling only / Heat pump-

VRV IV -Heat recovery-

VRV IV S series

VRV Multi function series -Cooling/heating, hot water supply-

VRV IV W series -Water Cooled system-

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.

VRV

General Catalogue

Expansion of the country of sale

Sales is undergoing in more than 70 countries

Europe

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

Middle East

UAE
Saudi Arabia
Bahrain
Jordan
Oman
Qatar
⋮

Africa

South Africa
Algeria
Burkina Faso
Egypt
Ivory Coast
Senegal
Sudan
⋮

Asia

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

Asia

Japan	Korea
China	Taiwan
⋮	

Oceania

Australia
Fiji
New Caledonia
New Zealand
Tahiti
⋮

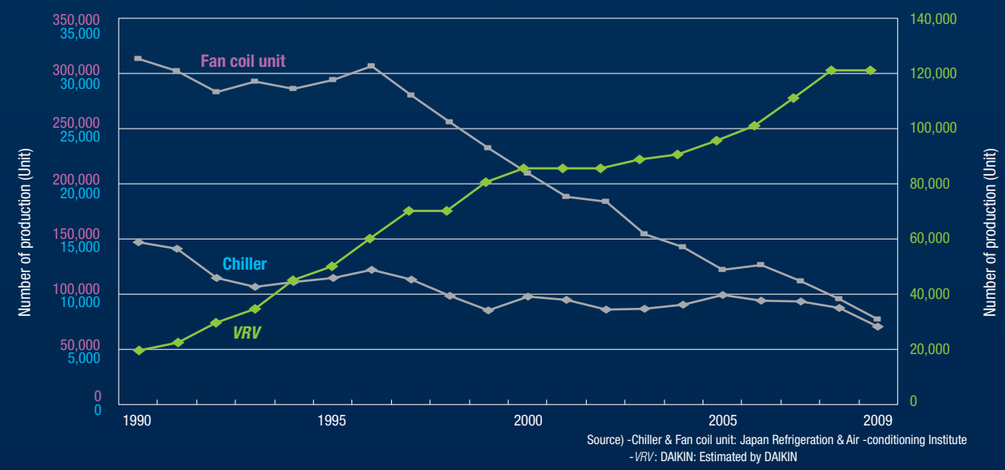
North America

USA	Canada
Mexico	Puerto Rico
	⋮

South America

Brazil
Argentina
Chile
Colombia
Panama
Peru
⋮

The influence of *VRV* - Central system market in Japan



Source) -Chiller & Fan coil unit: Japan Refrigeration & Air -conditioning Institute
-*VRV*: DAIKIN: Estimated by DAIKIN

Wide variety of series models to supply total air solutions

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

VRV IV

P.9

Heat Recovery

REYQ-T

Maximum comfort via simultaneous cooling and heating

Heat Recovery series enables simultaneous operation of cooling and heating within a single refrigerant piping circuit by controlling the BS unit.
This series also substantially improves energy efficiency by recycling exhaust heat.

Lineup

class	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	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

VRV IV

P.31

Cooling Only / Heat Pump

RX(Y)Q-T

Achieves excellent performance to meet the needs in various buildings

Next generation *VRV* IV series offers improved energy savings, comfort, and ease of installation to meet an ever wider variety of needs.
It also enables a mixed combination of *VRV* indoor units and residential indoor units all in one system, opening the door to stylish and quiet indoor units.

Lineup

class	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							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					

VRV IV S SERIES

P.63

Heat Pump

RXYMQ-A

Especially designed for residential, small offices and shops

VRV IV S series is the system that 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 6 models to select from, providing the power that suits your needs.

Lineup

class	3.5	4	5	6	8	9
Heat Pump	●	●	●	●	●	●

VRV III-Q

P.73

Heat Pump / Heat Recovery

RQYQ-P
RQCEQ-P

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.

Lineup

class	5	8	10	12	13	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Heat Pump	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Heat Recovery			●		●		●	●	●	●	●	●	●	●									

VRV IV W SERIES

P.85

Heat Pump / Heat Recovery

RWEYQ-T

Water cooled system suitable for tall multistoried buildings

Water cooled *VRV* IV series utilises water as a heat source. The temperature of heat source water can be 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.

Lineup

class	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Heat Pump	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Heat Recovery	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Wide range indoor unit lineup creating various comfortable airflow

VRV indoor units

Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
		Capacity Range(kW)	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14	16	16.2	18.0	20	22.4	28
		Capacity Index	20	25	31.3	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFQ-S			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Round Flow)	FXFQ-P			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2		●	●	●	●	●											
4-Way Flow Ceiling Suspended	FXUQ-A								●		●							
Ceiling Mounted Cassette (Double Flow)	FXCQ-M		●	●	●	●	●	●		●		●						
Ceiling Mounted Cassette Corner	FXKQ-MA			●	●	●		●										
Slim Ceiling Mounted Duct (Standard Series)	FXDQ-PB		●	●	●													
	FXDQ-NB					●	●	●										
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SP		●	●	●	●	●	●										
Middle Static Pressure Ceiling Mounted Duct	FXSQ-P		●	●	●	●	●	●		●	●	●	●					
Ceiling Concealed (Duct)	FXDYQ-MA									●	●	●		●				
Ceiling Mounted Duct	FXMQ-P		●	●	●	●	●	●		●	●	●	●					
															●	●	●	●
Outdoor-Air Processing Unit	FXMQ-MF											●					●	●
Ceiling Suspended	FXHQ-MA				●			●			●							
Wall Mounted	FXAQ-P		●	●	●	●	●	●										
Floor Standing	FXLQ-MA		●	●	●	●	●	●										
Concealed Floor Standing	FXNQ-MA		●	●	●	●	●	●										
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)		Airflow rate 500-1000 m3/h															
Heat Reclaim Ventilator	VAM-GJ		Airflow rate 150-2000 m3/h															

Note: For indoor units that can be connected, please refer to the indoor unit product lineups associated with each outdoor unit series.

Residential indoor units with connection to BP units

Type	Model Name		20	25	35	50	60	71
		Capacity Range(kW)	2.2	2.5	3.5	5.0	6.0	7.1
		Capacity Index	20	25	35	50	60	71
Ceiling Mounted Cassette (Compact Multi Flow)	FFQ-B			●	●	●	●	
Slim Ceiling Mounted Duct	CDKS-EA CDXS-EA			●	●			
	CDKS-C FDXS-C			●	●	●	●	
Wall Mounted	CTXG-P			●	●	●		
				●	●	●		
	FTKS-K FTXS-K		●	●	●			
	FTKS-KA FTXS-KA					●	●	●
Floor Standing	FVXS-K			●	●	●		
Floor/Ceiling Suspended Dual	FLXS-B			●				
	FLXS-G				●	●	●	

Note: For indoor units that can be connected, please refer to the indoor unit product lineups associated with each outdoor unit series.

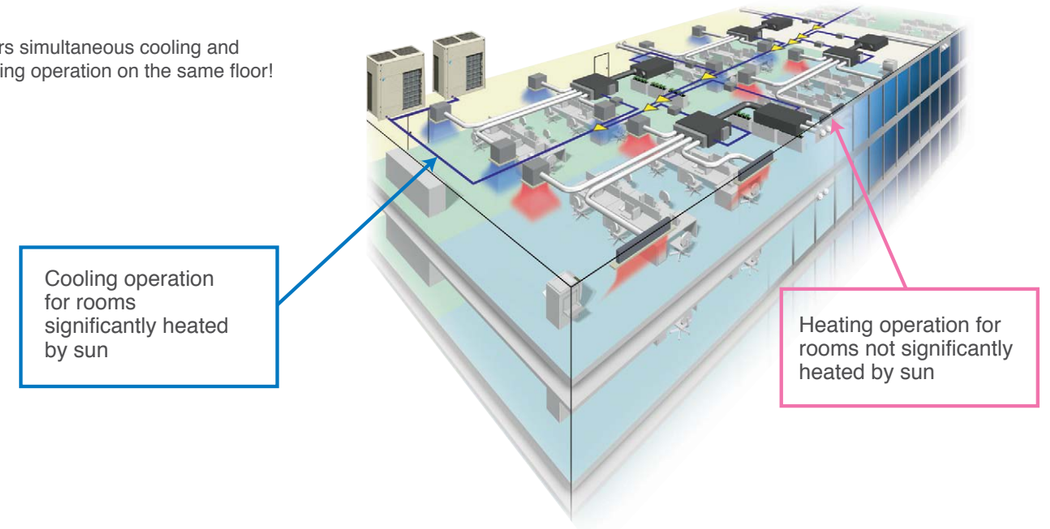
REYQ-T

Heat Recovery

8 class-60 class

(22.4 kW) (168 kW)

Offers simultaneous cooling and heating operation on the same floor!

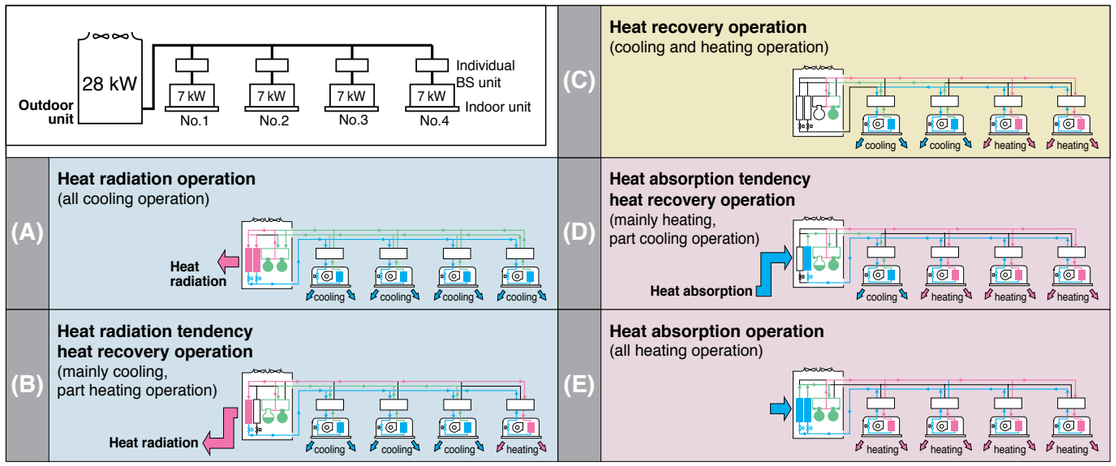


What is Heat Recovery Air Conditioner?

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

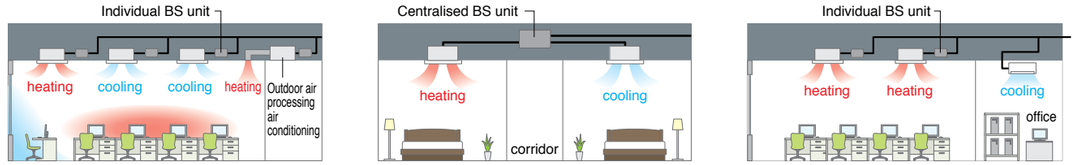
Operation mode

Heat recovery operation mode



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

Increasing demand for simultaneous cooling and heating needs



Winter season (Office Building)

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

Winter season (Hotel)

- Able to cater to individual heating and cooling requirement

Individual office

- Provides heating and annual cooling depending on space area

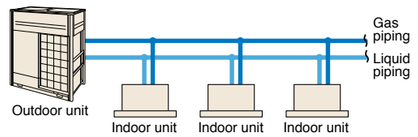
BS unit (Individual type/Centralised type)

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

Individual BS unit

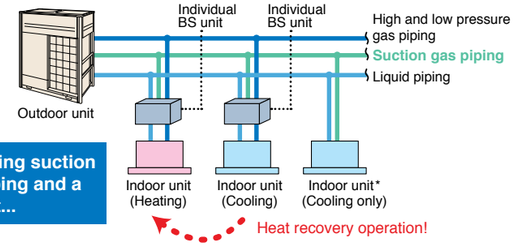
Centralised BS unit

Heat pump



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

Heat recovery

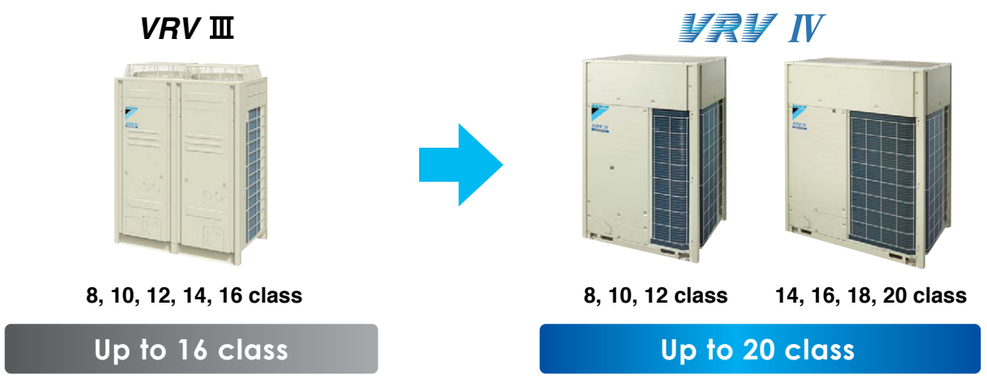


Enhanced Lineup

2 types up to 60 class

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

● Single Outdoor Unit



● Multiple Outdoor Units

Lineup

● Mo/C

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

Ease of installation

Compact & lightweight design

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

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

Comfort

Lower operation sound

Improve heat exchanger efficency, helps to reduced operation sound.

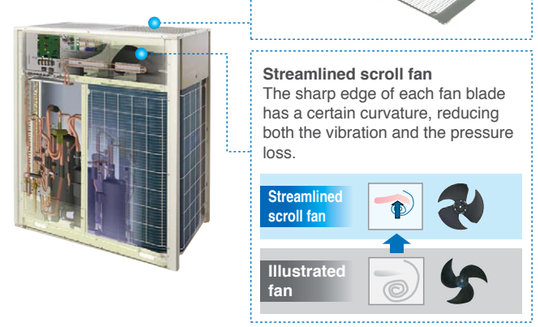
Sound level(dB(A))

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

1-2 dB(A) reduction than conventional model

Large airflow, high static pressure and quiet technology

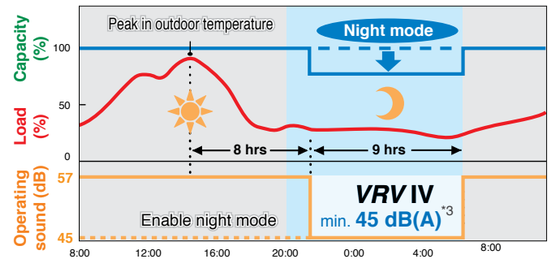
Without increasing operation sound, advanced analytical technologies are utilised to optimise fan design and increase airflow rate and high external static pressure.



Nighttime quiet operation function

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

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



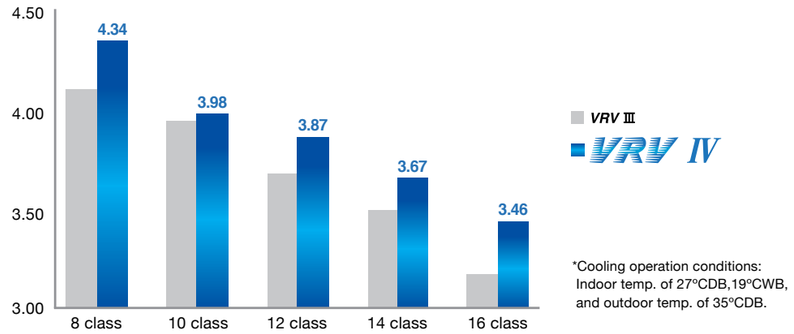
Note: · This function is available in setting at site.
· The operating sound in quiet operation mode is the actual value measured by our company.
· The relationship of outdoor temperature (load) and time shown above is just an example.

Energy saving

Higher Coefficient of Performance (COP)

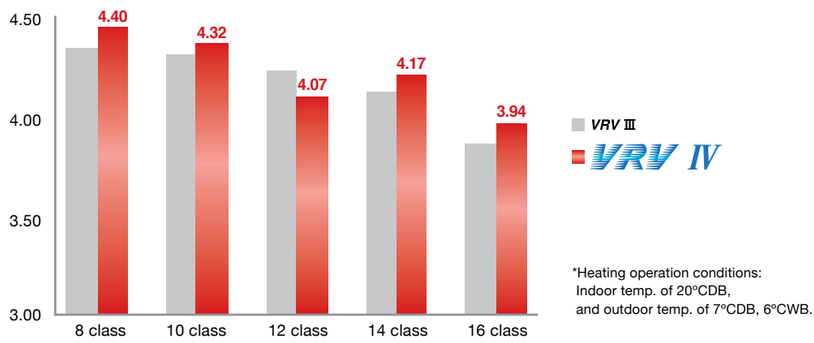
It has become essential for air conditioning manufacturers to develop systems that provide high energy savings. We at Daikin have made great efforts in this field, and the *VRV* IV system delivers highly efficient performance, contributing to high energy savings.

Cooling Operation COP



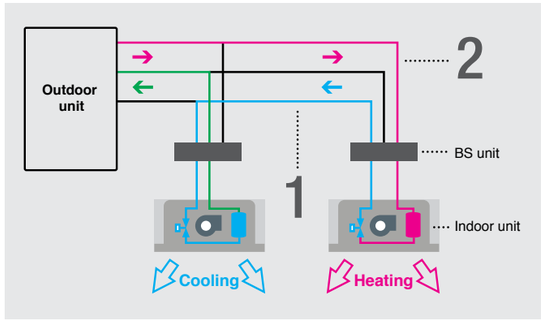
*Cooling operation conditions:
Indoor temp. of 27°CDB,19°CWB,
and outdoor temp. of 35°CDB.

Heating Operation COP



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

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



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

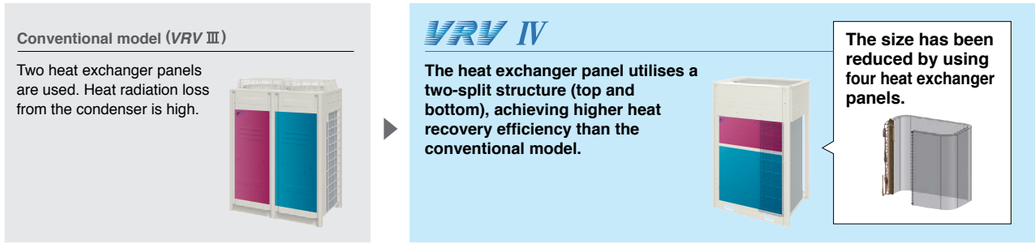
2 The waste heat from cooling is used to generate heat that is needed for heating operation while conserving electricity.

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

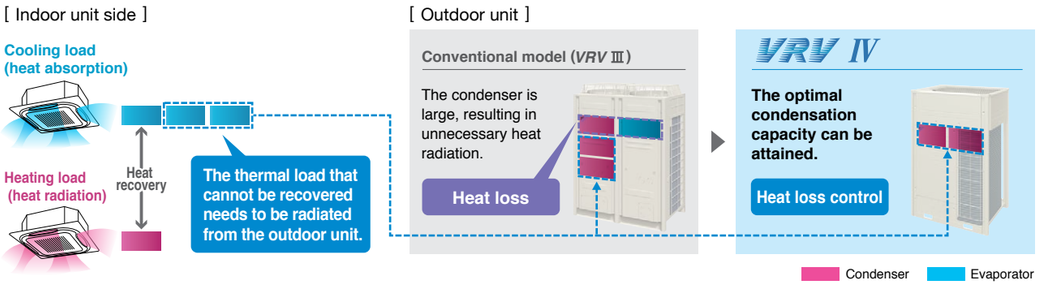
Development of a highly efficient heat exchanger utilising of a two-split structure

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

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



Indoor and outdoor heat balance (conceptual image)



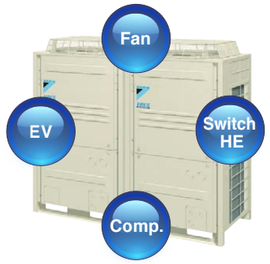
Heat Recovery Link control to reduce the heat loss

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

***VRV* Ⅲ**

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

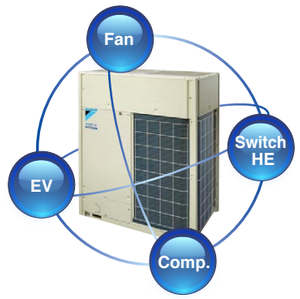
⇒ occurred heat loss



VRV IV

Interlocking operation with each elements in order to reduce energy

⇒ Improvement of Heat recovery



State-of-the-art energy saving technology

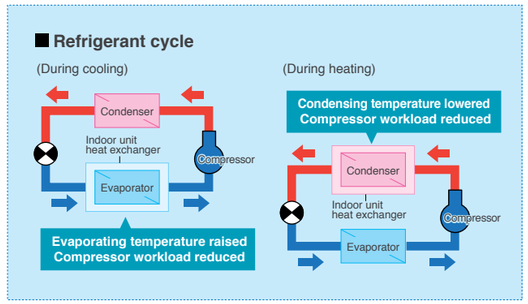
Customise your *VRV* system for optimal annual efficiency

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

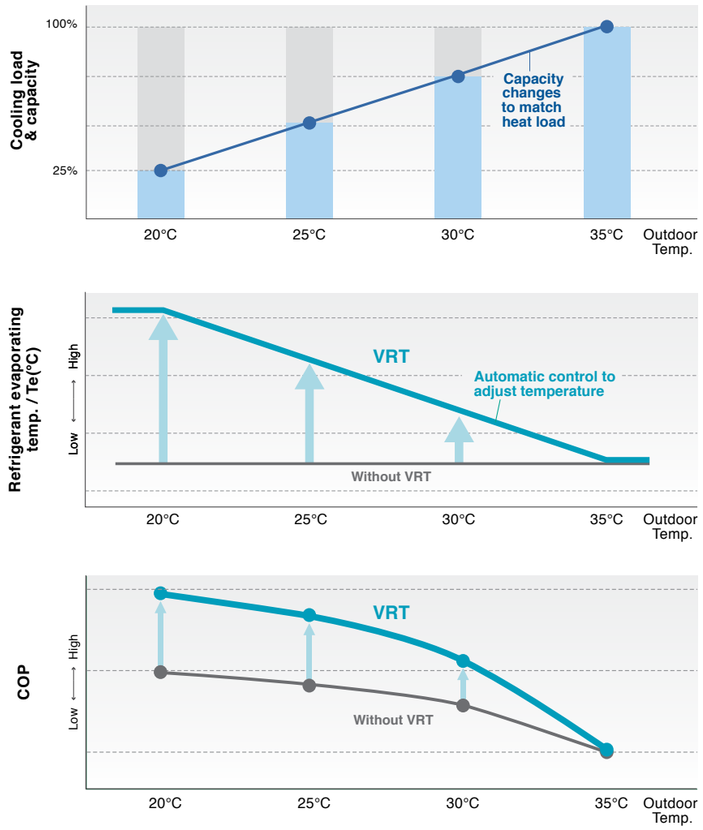
Variable Refrigerant Temperature

How is energy reduced?

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



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



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

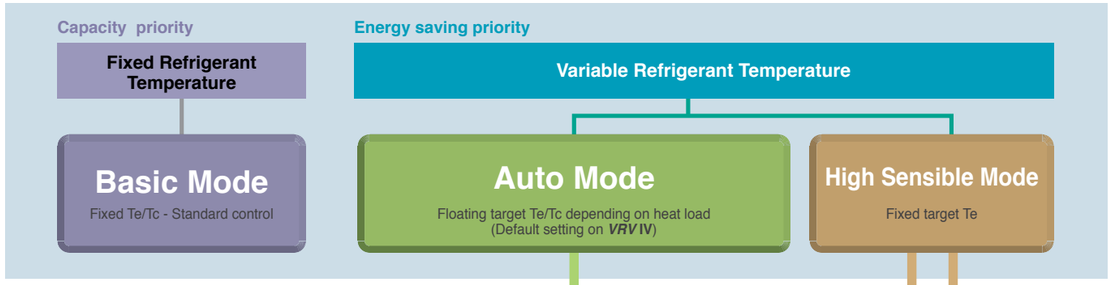
In case of fixed evaporating temperature, excessive cooling, thermo on-off loss, and other inefficiencies occur.

Automatic control adjusts evaporating temperature to heat load change.

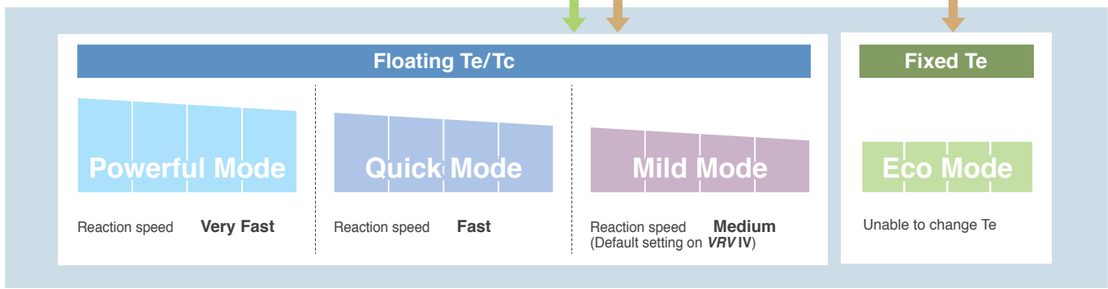
Energy efficiency is improved without sacrificing comfort.

Fine control to match user preference available through mode selection

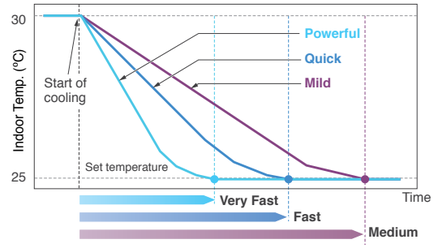
Basic mode is selected to maintain optimal comfort.
VRT is selected to save energy and prevent excessive cooling or heating.



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



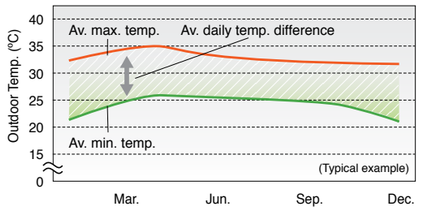
VRT offers quicker cool down to shorten uncomfortable pull down time.



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

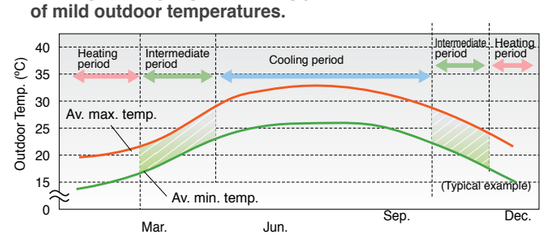
Recommended for use in these situations

Cooling only regions having differences in daily temperature.



VRT is particularly effective at night when temperatures are low.

Cooling/heating regions having periods of mild outdoor temperatures.



VRT is particularly effective during the intermediate periods.

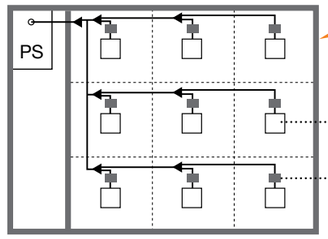
* VRT is only available during either all cooling operation or all heating operation.

Individual and centralised BS unit allow greater design flexibility.

Individual BS unit

BSQ100AV1
BSQ160AV1
BSQ250AV1

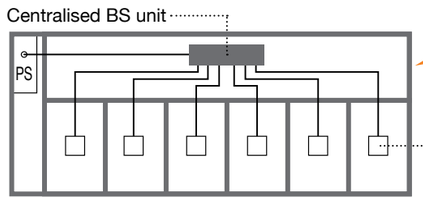
- Compact and flexible installation
- Flexible design
- Low noise



Recommended for large spaces or areas subject to frequent layout change

Centralised BS unit

BS4Q14AV1
BS6Q14AV1
BS8Q14AV1
BS10Q14AV1
BS12Q14AV1
BS16Q14AV1



Recommended for areas which have many small rooms

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

- Enhanced Line up
- Compact and lightweight design

Compared to conventional BS unit (6 branch)

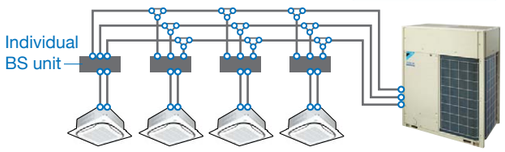
BS unit size **reduced by 65%**

BS unit weight **reduced by 73%**

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

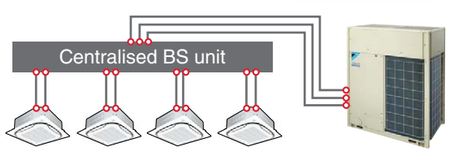
Individual BS unit

58 connecting point



Centralised BS unit

22 connecting point



*Centralised BS unit requires drain pipe

Greater design flexibility achieved by increasing the connection capacity range

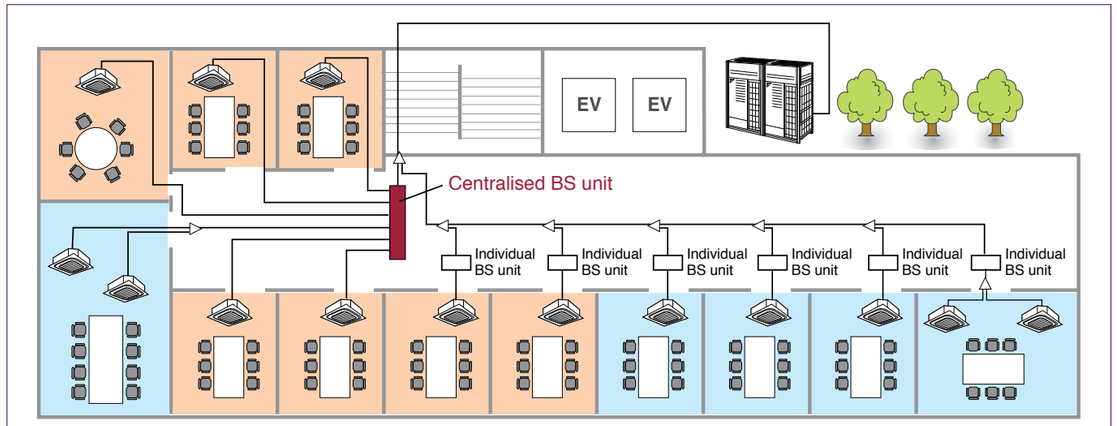
Centralised BS unit

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

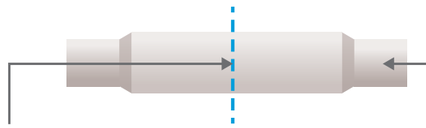
Centralised BS unit

By merging two branches
Adaptable up to
28.0 kW

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



Faster installation of centralised BS unit thanks to open connection



Time saving!

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

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

Lower transient sound

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

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

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

More options for equipment placement

Long piping length

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

Max. actual piping length
165 m

Max. equivalent piping length
190 m

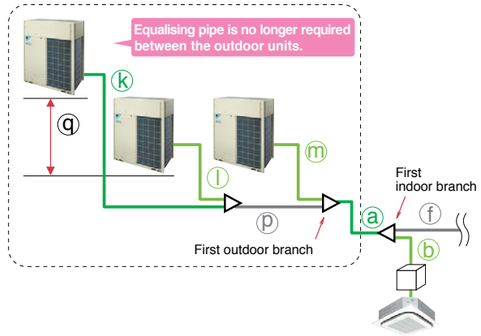
Max. total piping length
1000 m

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

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

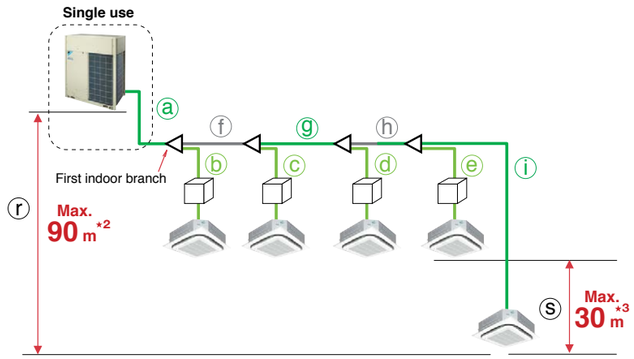
15 m higher than *VRV* III

Multiple use



*The rest of indoor units are the same as for single use.

Single use



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

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

			Level Difference	Example
Maximum allowable level difference	Between the outdoor units (Multiple use)		**5** m	q
	Between the indoor units		**30** m	s
	Between the outdoor units and the indoor units	If the outdoor unit is above.	**90** m*2	r
		If the outdoor unit is below.	**90** m*2	r

★1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. Various conditions and requirements have to be met to allow utilisation of 90 m piping length. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.
★2. When level differences above 50 m if the outdoor unit is above the indoor unit and 40 m if the outdoor unit is below the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.
★3. When level differences are 15 m or more, maximum actual piping length must be 120 m.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

Connection ratio = Total capacity index of the indoor units / Capacity index of the outdoor units

Conditions of *VRV* indoor unit connection capacity

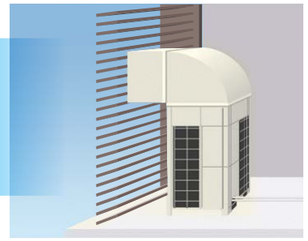
Applicable *VRV* indoor units	FXDQ, FXSQ, FXMQ-P, FXAQ models	Other *VRV* indoor unit models*1
Single outdoor units	200%	**200%**
Double outdoor units		**160%**
Triple outdoor units		**130%**

*1 For the FXFQ25P and FXFQ25S 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 27 for outdoor unit combination details.

High external static pressure

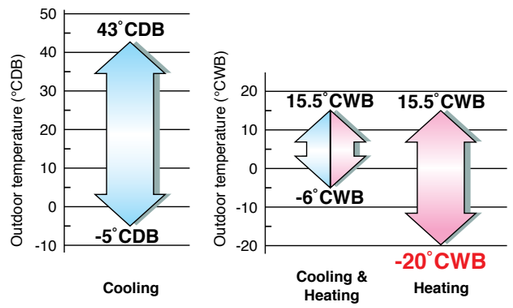
VRV IV outdoor unit condenser fans are able to achieve external static pressures of up to 78.4 Pa, ensuring efficient heat dissipation and stable operations.

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



Wide operation temperature range

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

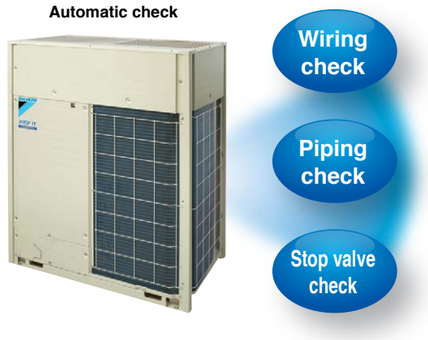


Multiple advanced features ensuring more accurate test operation and stable system

Efficient automatic test operation

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

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



Simplified commissioning and after-sales service

Function of information display by luminous digital tube

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

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

Compliant with the RoHS Directive*

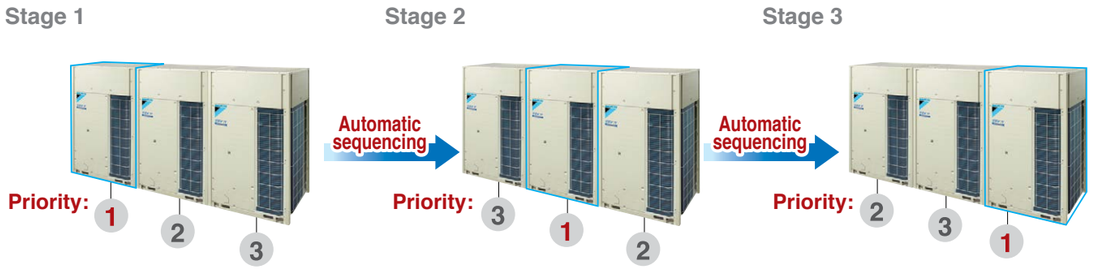
We have been making efforts to facilitate the transition to using RoHS Directive*-compliant materials for system parts.

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

Outdoor unit sequencing technology

Automatic sequencing operation

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



Double backup operation functions responding resiliently to various unexpected situations

Double backup operation functions

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

Unit backup operation function

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

Compressor backup operation function

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

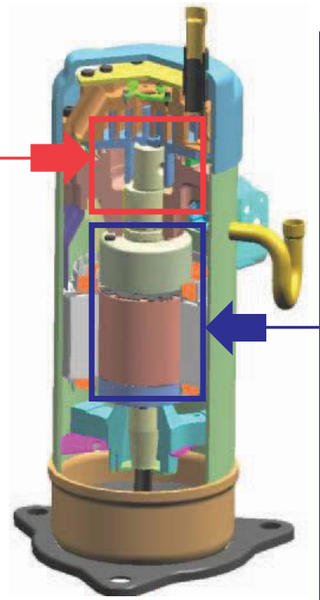
Large capacity all DC inverter compressor in compact casing

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

Development of high strength material

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

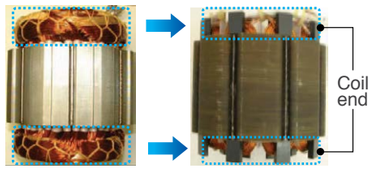
As a result of having thinned wall - thickness of the scroll, compression chamber volume increase 50%



Compact high efficiency concentrated winding motor

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

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



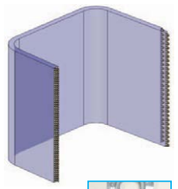
Small sizing coil end using concentrated winding, reduce copper loss (winding resistance).

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

Highly integrated heat exchanger

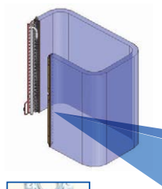
Improve performance by increasing heat exchanger area while maintaining the same installation space.

VRV III



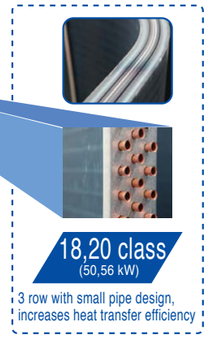
Fine Louvre Fin

VRV IV



Waffle Fin

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



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

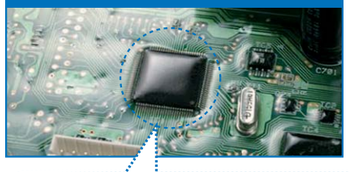
	Heat exchanger area	Contribution of COP (cooling)
16 class (45 kW)	24%UP	108.5%

Various advanced control main PC board

SMT* packaging technology

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

Computer control board surface adopting SMT packaging technology



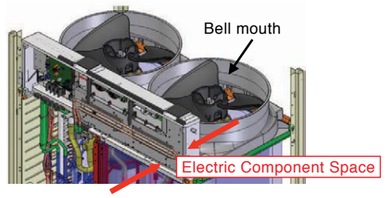
Conventional computer control board surface

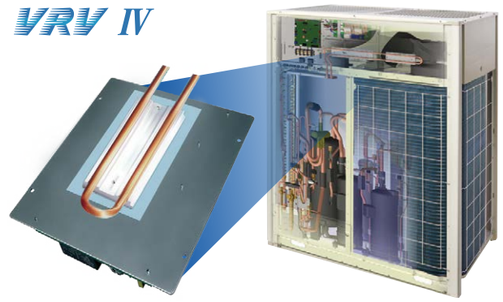
*SMT: Surface mounted technology

Refrigerant cooling technology, ensures stability of PCB temperature

Improved inner design to increase smooth airflow

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





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

Control board failure ratio at stable operation is reduced.

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

Outdoor Units - Heat Recovery

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

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

High-COP Type

●Double Outdoor Units

16, 18, 20 class

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

●Triple Outdoor Units

24, 26, 28, 30, 32 class

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

REYQ30THY1(E)
REYQ32THY1(E)

Standard Type

●Single Outdoor Units

8, 10, 12 class

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

14, 16, 18, 20 class

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

●Double Outdoor Units

22, 24 class

REYQ22TY1(E)
REYQ24TY1(E)

26, 28, 30 class

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

32, 34, 36 class

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

●Triple Outdoor Units

38, 40 class

REYQ38TY1(E)
REYQ40TY1(E)

42, 44 class

REYQ42TY1(E)
REYQ44TY1(E)

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

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

Lineup

class	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	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Indoor Units

Type	Model Name	Capacity Range(kW)	20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
		Capacity Index	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14	16	16.2	18.0	20	22.4	28
			20	25	31.3	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFQ-SVM			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		●	●	●	●	●											
4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		●	●	●	●	●	●		●		●						
Ceiling Mounted Cassette Corner	FXKQ-MAVE			●	●	●		●										
Slim Ceiling Mounted Duct (Standard Series)	FXDQ-PBVE	 (700mm width type)	●	●	●													
	FXDQ-NBVE	 (900/1,100 mm width type)				●	●	●										
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1		●	●	●	●	●	●										
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE		●	●	●	●	●	●		●	●	●	●					
Ceiling Concealed (Duct)	FXDYQ-MAV1									●	●	●		●				
Ceiling Mounted Duct	FXMQ-PVE		●	●	●	●	●	●		●	●	●	●					
	FXMQ-PV1A														●	●	●	●
Outdoor-Air Processing Unit	FXMQ-MFV1											●					●	●
Ceiling Suspended	FXHQ-MAVE				●			●			●							
Wall Mounted	FXAQ-PVE		●	●	●	●	●	●										
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●										
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															

High-COP Type

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

Note: *1. The outdoor unit multi connection piping kit (separately sold) is required for multiple connection.
*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 20 for note on connection capacity of indoor units.

Standard Type

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

Note: *1. For multiple connection of 22 class 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 20 for note on connection capacity of indoor units.

VRV IV Outdoor Units Heat Recovery REYQ-T

High-COP Type

MODEL			REYQ16THY1(E)	REYQ18THY1(E)	REYQ20THY1(E)	REYQ24THY1(E)
Combination units			REYQ8TY1(E)	REYQ8TY1(E)	REYQ8TY1(E)	REYQ8TY1(E)
			REYQ8TY1(E)	REYQ10TY1(E)	REYQ12TY1(E)	REYQ8TY1(E)
			—	—	—	REYQ8TY1(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz			
Cooling capacity		kcal/h	38,500	43,300	48,100	57,800
		Btu/h	153,000	172,000	191,000	229,000
		kW	44.8	50.4	55.9	67.2
Heating capacity		kcal/h	43,000	48,600	53,800	64,500
		Btu/h	171,000	193,000	213,000	256,000
		kW	50.0	56.5	62.5	75.0
Power consumption	Cooling	kW	10.3	12.2	13.8	15.5
	Heating	kW	11.4	13.0	14.9	17.0
Capacity control		%	10-100	8-100	8-100	7-100
Casing colour			Ivory white (5Y7.5/1)			
Compressor	Type		Hermetically Sealed Scroll Type			
	Motor output	kW	(3.3x1)+(3.3x1)	(3.3x1)+(4.0x1)	(3.3x1)+(4.9x1)	(3.3x1)+(3.3x1)+(3.3x1)
Airflow rate		ℓ/s	2,633+2,633	2,633+2,800	2,633+3,000	2,633+2,633+2,633
		m³/min	158+158	158+168	158+180	158+158+158
Dimensions (HxWxD)		mm	(1,657x930x765)+(1,657x930x765)			(1,657x930x765)+(1,657x930x765)+(1,657x930x765)
Machine weight		kg	215+215	215+230	215+230	215+215+215
Sound level		dB(A)	59	60	61	61
Sound power		dB(A)	80	81	82	82
Operation range	Cooling	°CDB	-5 to 43			
	Heating	°CWB	-20 to 15.5			
	Cooling & Heating	°CWB	-6 to 15.5			
Refrigerant	Type		R-410A			
	Charge	kg	9.7+9.7	9.7+9.8	9.7+9.9	9.7+9.7+9.7
Piping connections	Liquid	mm	ϕ12.7 (Brazing)	ϕ15.9 (Brazing)	ϕ15.9 (Brazing)	ϕ15.9 (Brazing)
	Gas	mm	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ34.9 (Brazing)
	High and low pressure gas	mm	ϕ22.2 (Brazing)	ϕ22.2 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)

MODEL			REYQ26THY1(E)	REYQ28THY1(E)	REYQ30THY1(E)	REYQ32THY1(E)
Combination units			REYQ8TY1(E)	REYQ8TY1(E)	REYQ8TY1(E)	REYQ8TY1(E)
			REYQ8TY1(E)	REYQ8TY1(E)	REYQ10TY1(E)	REYQ12TY1(E)
			REYQ10TY1(E)	REYQ12TY1(E)	REYQ12TY1(E)	REYQ12TY1(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz			
Cooling capacity		kcal/h	62,600	67,300	72,200	76,900
		Btu/h	248,000	267,000	286,000	305,000
		kW	72.8	78.3	83.9	89.4
Heating capacity		kcal/h	70,100	75,300	80,800	86,000
		Btu/h	278,000	299,000	321,000	341,000
		kW	81.5	87.5	94.0	100
Power consumption	Cooling	kW	17.4	19.0	20.9	22.5
	Heating	kW	18.7	20.6	22.2	24.1
Capacity control		%	6-100	6-100	5-100	5-100
Casing colour			Ivory white (5Y7.5/1)			
Compressor	Type		Hermetically Sealed Scroll Type			
	Motor output	kW	(3.3x1)+(3.3x1)+(4.0x1)	(3.3x1)+(3.3x1)+(4.9x1)	(3.3x1)+(4.0x1)+(4.9x1)	(3.3x1)+(4.9x1)+(4.9x1)
Airflow rate		ℓ/s	2,633+2,633+2,800	2,633+2,633+3,000	2,633+2,800+3,000	2,633+3,000+3,000
		m³/min	158+158+168	158+158+180	158+168+180	158+180+180
Dimensions (HxWxD)		mm	(1,657x930x765)+(1,657x930x765)+(1,657x930x765)			
Machine weight		kg	215+215+230	215+215+230	215+230+230	215+230+230
Sound level		dB(A)	61	62	62	63
Sound power		dB(A)	82	83	83	84
Operation range	Cooling	°CDB	-5 to 43			
	Heating	°CWB	-20 to 15.5			
	Cooling & Heating	°CWB	-6 to 15.5			
Refrigerant	Type		R-410A			
	Charge	kg	9.7+9.7+9.8	9.7+9.7+9.9	9.7+9.8+9.9	9.7+9.9+9.9
Piping connections	Liquid	mm	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)
	Gas	mm	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)
	High and low pressure gas	mm	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)

Note: 1. Models with (E) 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.
•Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
During actual operation, these values are normally somewhat higher as a result of ambient conditions.

VRV IV Outdoor Units Heat Recovery REYQ-T

Standard Type

MODEL			REYQ8TY1(E)	REYQ10TY1(E)	REYQ12TY1(E)	REYQ14TY1(E)	REYQ16TY1(E)	REYQ18TY1(E)		REYQ20TY1(E)	REYQ22TY1(E)	REYQ24TY1(E)	REYQ26TY1(E)	REYQ28TY1(E)	REYQ30TY1(E)	REYQ32TY1(E)	REYQ34TY1(E)
Combination units			—	—	—	—	—	—		—	REYQ10TY1(E) REYQ12TY1(E)	REYQ12TY1(E) REYQ12TY1(E)	REYQ12TY1(E) REYQ14TY1(E)	REYQ12TY1(E) REYQ16TY1(E)	REYQ12TY1(E) REYQ18TY1(E)	REYQ16TY1(E) REYQ16TY1(E)	REYQ16TY1(E) REYQ18TY1(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz							3-phase 4-wire system, 380–415 V, 50 Hz							
Cooling capacity		kcal/h	19,300	24,100	28,800	34,400	38,700	43,000		48,200	52,900	57,600	63,200	67,500	71,800	77,400	81,700
		Btu/h	76,400	95,500	114,000	136,000	154,000	171,000		191,000	210,000	229,000	251,000	268,000	285,000	307,000	324,000
		kW	22.4	28.0	33.5	40.0	45.0	50.0		56.0	61.5	67.0	73.5	78.5	83.5	90.0	95.0
Heating capacity		kcal/h	21,500	27,100	32,300	38,700	43,000	48,200		54,200	59,300	64,500	71,000	75,300	80,400	86,000	91,200
		Btu/h	85,300	107,000	128,000	154,000	171,000	191,000		215,000	235,000	256,000	281,000	299,000	319,000	341,000	362,000
		kW	25.0	31.5	37.5	45.0	50.0	56.0		63.0	69.0	75.0	82.5	87.5	93.5	100	106
Power consumption	Cooling	kW	5.16	7.04	8.66	10.9	13.0	15.4		18.0	15.7	17.3	19.6	21.7	24.1	26.0	28.4
	Heating	kW	5.68	7.29	9.22	10.8	12.7	15.0		17.5	16.5	18.4	20.0	21.9	24.2	25.4	27.7
Capacity control		%	20-100	16-100	15-100	11-100	10-100	8-100		8-100	8-100	8-100	6-100	6-100	5-100	5-100	4-100
Casing colour			Ivory white (5Y7.5/1)							Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically Sealed Scroll Type							Hermetically Sealed Scroll Type							
	Motor output	kW	3.3x1	4.0x1	4.9x1	(3.0x1)+(3.1x1)	(3.4x1)+(3.7x1)	(3.6x1)+(5.0x1)		(4.0x1)+(6.1x1)	(4.0x1)+(4.9x1)	(4.9x1)+(4.9x1)	(4.9x1)+(3.0x1)+(3.1x1)	(4.9x1)+(3.4x1)+(3.7x1)	(4.9x1)+(3.6x1)+(5.0x1)	(3.4x1)+(3.7x1)+ (3.4x1)+(3.7x1)	(3.4x1)+(3.7x1)+ (3.6x1)+(5.0x1)
Airflow rate		ℓ/s	2,633	2,800	3,000	3,900	3,983	3,767		4,483	2,800+3,000	3,000+3,000	3,000+3,900	3,000+3,983	3,000+3,767	3,983+3,983	3,983+3,767
		m³/min	158	168	180	234	239	226		269	168+180	180+180	180+234	180+239	180+226	239+239	239+226
Dimensions (HxWxD)		mm	1,657x930x765			1,657x1,240x765				1,657x1,240x765	(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)			(1,657x1,240x765)+(1,657x1,240x765)	
Machine weight		kg	215	230	230	310	310	342		342	230+230	230+230	230+310	230+310	230+342	310+310	310+342
Sound level		dB(A)	56	57	59	60	61	62		65	61	62	63	63	64	64	65
Sound power		dB(A)	77	78	80	81	82	83		86	82	83	84	84	85	85	86
Operation range	Cooling	°CDB	-5 to 43							-5 to 43							
	Heating	°CWB	-20 to 15.5							-20 to 15.5							
	Cooling & Heating	°CWB	-6 to 15.5							-6 to 15.5							
Refrigerant	Type		R-410A							R-410A							
	Charge	kg	9.7	9.8	9.9	11.8	11.8	11.8		11.8	9.8+9.9	9.9+9.9	9.9+11.8	9.9+11.8	9.9+11.8	11.8+11.8	11.8+11.8
Piping connections	Liquid	mm	ϕ9.5 (Brazing)	ϕ9.5 (Brazing)	ϕ12.7 (Brazing)	ϕ12.7 (Brazing)	ϕ12.7 (Brazing)	ϕ15.9 (Brazing)		ϕ15.9 (Brazing)	ϕ15.9 (Brazing)	ϕ15.9 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)
	Gas	mm	ϕ19.1 (Brazing)	ϕ22.2 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)		ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)
	High and low pressure gas	mm	ϕ15.9 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ22.2 (Brazing)	ϕ22.2 (Brazing)	ϕ22.2 (Brazing)		ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)	ϕ28.6 (Brazing)

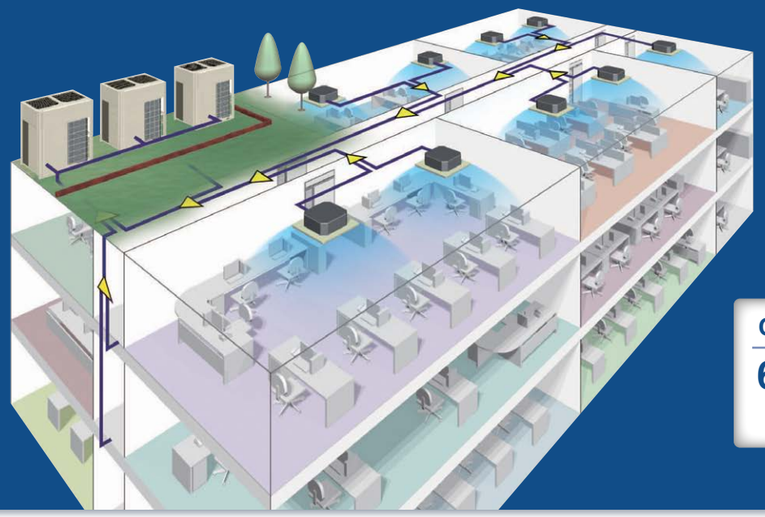
MODEL			REYQ36TY1(E)	REYQ38TY1(E)	REYQ40TY1(E)	REYQ42TY1(E)	REYQ44TY1(E)	REYQ46TY1(E)		REYQ48TY1(E)	REYQ50TY1(E)	REYQ52TY1(E)	REYQ54TY1(E)	REYQ56TY1(E)	REYQ58TY1(E)	REYQ60TY1(E)
Combination units			REYQ16TY1(E) REYQ20TY1(E)	REYQ8TY1(E) REYQ10TY1(E)	REYQ10TY1(E) REYQ12TY1(E)	REYQ10TY1(E) REYQ16TY1(E)	REYQ12TY1(E) REYQ16TY1(E)	REYQ14TY1(E) REYQ16TY1(E)		REYQ16TY1(E) REYQ16TY1(E)	REYQ16TY1(E) REYQ16TY1(E)	REYQ16TY1(E) REYQ18TY1(E)	REYQ18TY1(E) REYQ18TY1(E)	REYQ18TY1(E) REYQ18TY1(E)	REYQ18TY1(E) REYQ20TY1(E)	REYQ20TY1(E) REYQ20TY1(E)
			—	REYQ20TY1(E)	REYQ18TY1(E)	REYQ16TY1(E)	REYQ16TY1(E)	REYQ16TY1(E)		REYQ16TY1(E)	REYQ18TY1(E)	REYQ18TY1(E)	REYQ18TY1(E)	REYQ20TY1(E)	REYQ20TY1(E)	REYQ20TY1(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz							3-phase 4-wire system, 380–415 V, 50 Hz						
Cooling capacity		kcal/h	86,900	91,200	96,300	101,000	107,000	112,000		116,000	120,000	125,000	129,000	134,000	139,000	144,000
		Btu/h	345,000	362,000	382,000	403,000	423,000	444,000		461,000	478,000	495,000	512,000	532,000	553,000	573,000
		kW	101	106	112	118	124	130		135	140	145	150	156	162	168
Heating capacity		kcal/h	97,200	103,000	108,000	114,000	119,000	125,000		129,000	134,000	139,000	144,000	151,000	157,000	163,000
		Btu/h	386,000	409,000	427,000	450,000	471,000	495,000		512,000	532,000	553,000	573,000	597,000	621,000	645,000
		kW	113	120	125	132	138	145		150	156	162	168	175	182	189
Power consumption	Cooling	kW	31.0	30.2	31.1	33.0	34.7	36.9		39.0	41.4	43.8	46.2	48.8	51.4	54.0
	Heating	kW	30.2	30.5	31.5	32.7	34.6	36.2		38.1	40.4	42.7	45.0	47.5	50.0	52.5
Capacity control		%	4-100	4-100	4-100	4-100	4-100	3-100		3-100	3-100	3-100	3-100	3-100	3-100	3-100
Casing colour			Ivory white (5Y7.5/1)							Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically Sealed Scroll Type							Hermetically Sealed Scroll Type						
	Motor output	kW	(3.4x1)+(3.7x1)+ (4.0x1)+(6.1x1)	(3.3x1)+(4.0x1)+ (4.0x1)+(6.1x1)	(4.0x1)+(4.9x1)+ (3.6x1)+(5.0x1)	(4.0x1)+(3.4x1)+ (3.7x1)+(3.4x1)+ (3.7x1)	(4.9x1)+(3.4x1)+ (3.7x1)+(3.4x1)+ (3.7x1)	(3.0x1)+(3.1x1)+ (3.4x1)+(3.7x1)+ (3.4x1)+(3.7x1)		(3.4x1)+(3.7x1)+ (3.4x1)+(3.7x1)+ (3.4x1)+(3.7x1)	(3.4x1)+(3.7x1)+ (3.4x1)+(3.7x1)+ (3.6x1)+(5.0x1)	(3.4x1)+(3.7x1)+ (3.6x1)+(5.0x1)+ (3.6x1)+(5.0x1)	(3.6x1)+(5.0x1)+ (3.6x1)+(5.0x1)+ (3.6x1)+(5.0x1)	(3.6x1)+(5.0x1)+ (3.6x1)+(5.0x1)+ (4.0x1)+(6.1x1)	(3.6x1)+(5.0x1)+ (4.0x1)+(6.1x1)+ (4.0x1)+(6.1x1)	(4.0x1)+(6.1x1)+ (4.0x1)+(6.1x1)+ (4.0x1)+(6.1x1)
Airflow rate		ℓ/s	3,983+4,483	2,633+2,800+4,483	2,800+3,000+3,767	2,800+3,983+3,983	3,000+3,983+3,983	3,900+3,983+3,983		3,983+3,983+3,983	3,983+3,983+3,767	3,983+3,767+3,767	3,767+3,767+3,767	3,767+3,767+4,483	3,767+4,483+4,483	4,483+4,483+4,483
		m³/min	239+269	158+168+269	168+180+226	168+239+239	180+239+239	234+239+239		239+239+239	239+239+226	239+226+226	226+226+226	226+226+269	226+269+269	269+269+269
Dimensions (HxWxD)		mm	(1,657x1,240x765)+ (1,657x1,240x765)	(1,657x930x765)+(1,657x930x765)+ (1,657x1,240x765)		(1,657x930x765)+(1,657x1,240x765)+ (1,657x1,240x765)		(1,657x1,240x765)+ (1,657x1,240x765)+ (1,657x1,240x765)		(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)						
Machine weight		kg	310+342	215+230+342	230+230+342	230+310+310	230+310+310	310+310+310		310+310+310	310+310+342	310+342+342	342+342+342	342+342+342	342+342+342	342+342+342
Sound level		dB(A)	66	66	65	65	65	65		66	66	66	67	68	69	70
Sound power		dB(A)	87	87	86	86	86	86		87	87	87	88	89	90	91
Operation range	Cooling	°CDB	-5 to 43							-5 to 43						
	Heating	°CWB	-20 to 15.5							-20 to 15.5						
	Cooling & Heating	°CWB	-6 to 15.5							-6 to 15.5						
Refrigerant	Type		R-410A							R-410A						
	Charge	kg	11.8+11.8	9.7+9.8+11.8	9.8+9.9+11.8	9.8+11.8+11.8	9.9+11.8+11.8	11.8+11.8+11.8		11.8+11.8+11.8	11.8+11.8+11.8	11.8+11.8+11.8	11.8+11.8+11.8	11.8+11.8+11.8	11.8+11.8+11.8	11.8+11.8+11.8
Piping connections	Liquid	mm	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)		ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)
	Gas	mm	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)		ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)	ϕ41.3 (Brazing)
	High and low pressure gas	mm	ϕ28.6 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)		ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)	ϕ34.9 (Brazing)

Note: 1. Models with (E) 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.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

VRV IV Excellent Operational Perf ormance



RX(Y)Q-T

Cooling Only / Heat Pump

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

Enhanced Lineup to 3 types

High-COP Type

20 class
(54.4 kW)

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

	VRV III	VRV IV	
COP during cooling operation	3.94	4.35	10% Inctease
Installation Space	1.66 m²	2.13 m²	
Product Weight	490 kg	555 kg	

Standard Type

20 class
(55.9 kW)

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

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

Space Saving Type

20 class
(56 kW)

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

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

Lineup

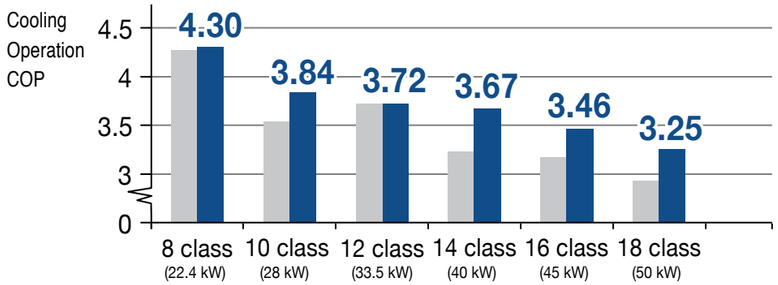
● Mo/C

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

Energy saving

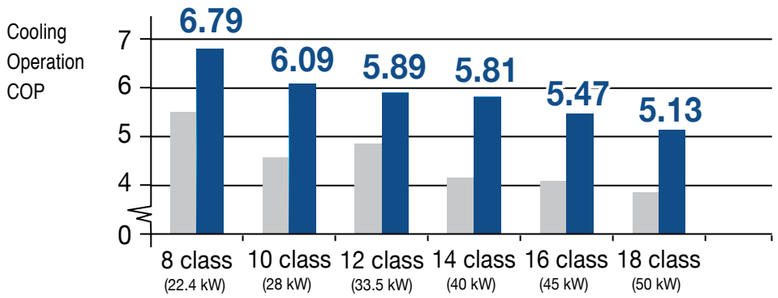
Higher Coefficient of Performance (COP)

COP at 100% operation load



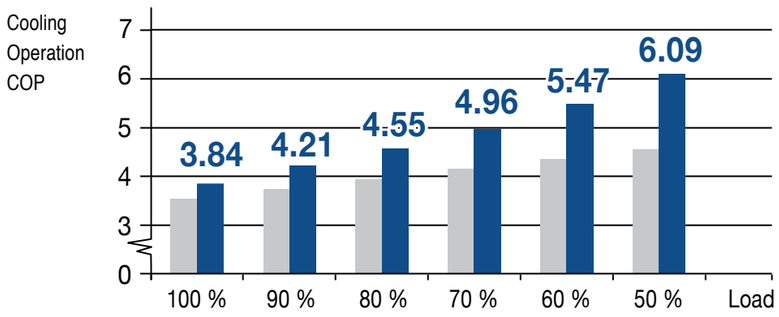
*Cooling operation conditions: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB.

COP at 50% operation load



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

COP for 10 class



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

Realising compact technology with performance

Customise your *VRV* system for optimal annual efficiency

***VRV* Ⅲ 20 class** **VRV IV 20 class**

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

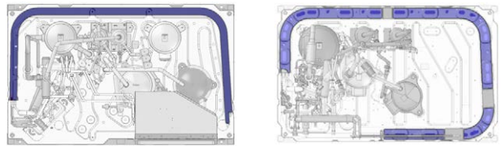
With this unbridled passion for high quality and advanced technology solutions, the new 20 class is designed with the following considerations:

Design considerations

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

Increase surface area of heat exchanger

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



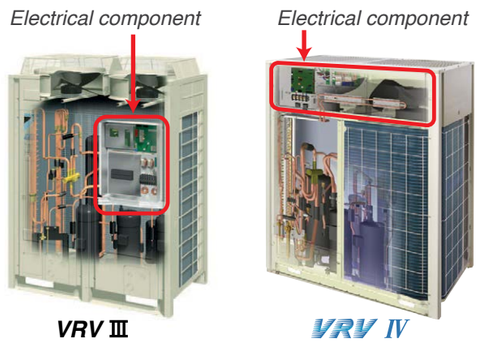
***VRV* Ⅲ** **VRV IV**

Easy maintenance

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

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

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

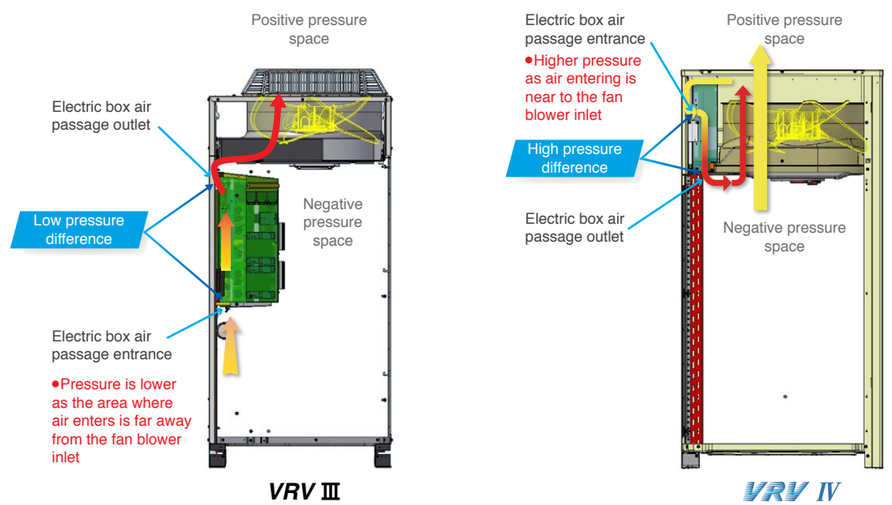


***VRV* Ⅲ** **VRV IV**

Sufficient cooling for electrical component

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

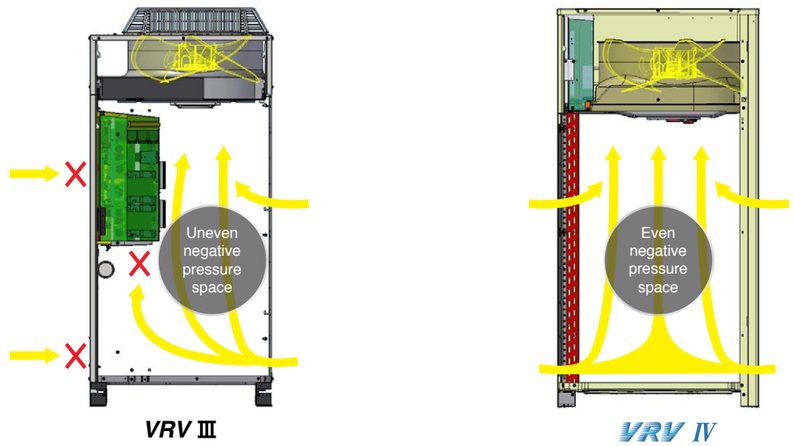
The small holes created in the electric box are now close to the fan blower inlet, thus a significant pressure difference can still be achieved unlike that of ***VRV* Ⅲ**.



***VRV* Ⅲ** **VRV IV**

Eliminate suction resistance issue

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



***VRV* Ⅲ** **VRV IV**

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

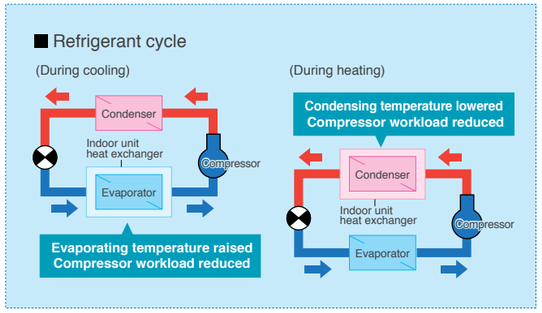
Customise your *VRV* system for optimal annual efficiency

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.

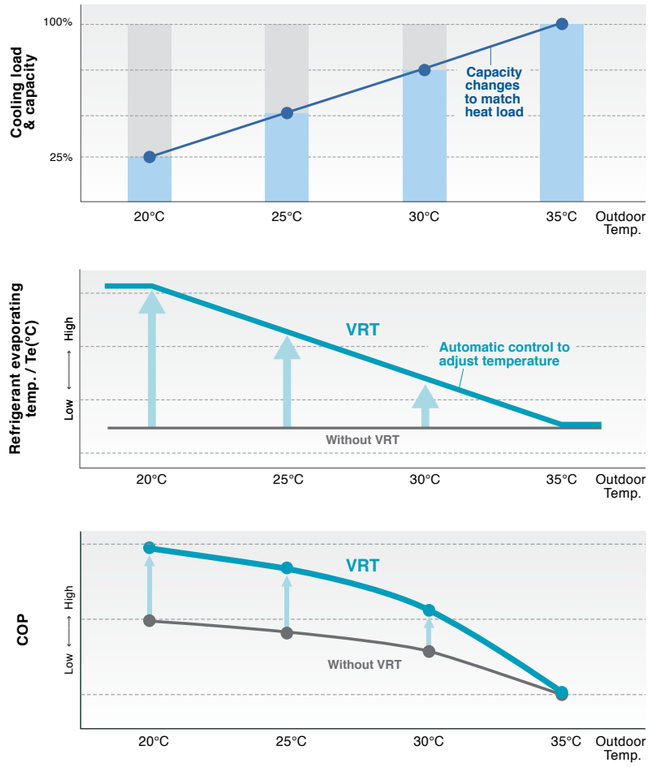
Variable Refrigerant Temperature

How is energy reduced?

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



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



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

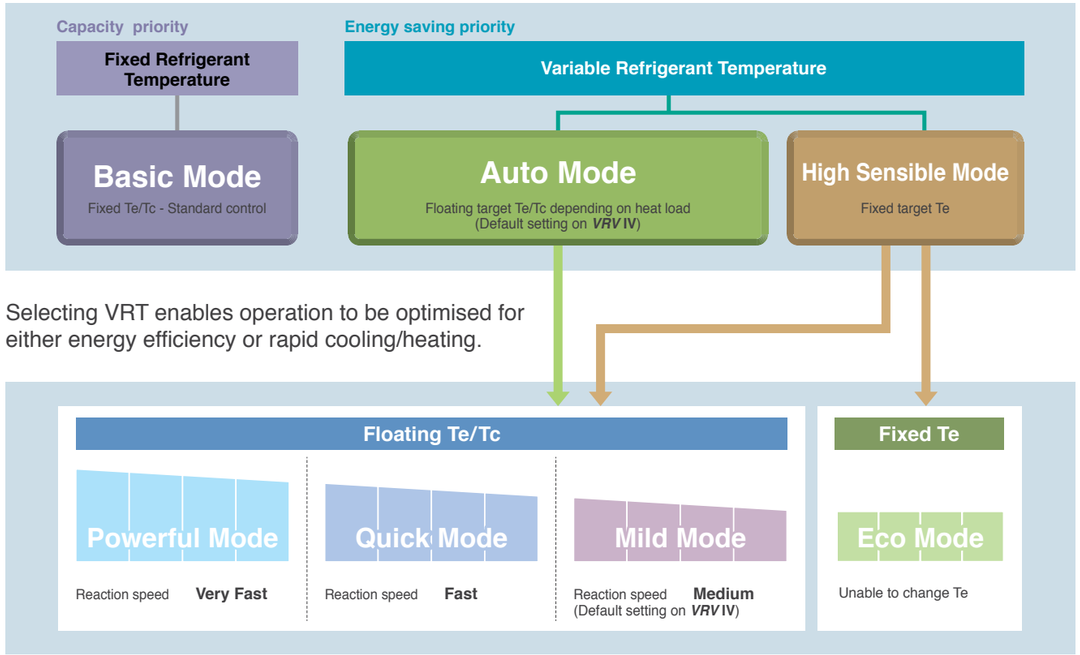
In case of fixed evaporating temperature, excessive cooling, thermo on-off loss, and other inefficiencies occur.

Automatic control adjusts evaporating temperature to heat load change.

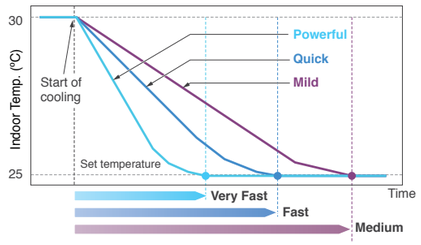
Energy efficiency is improved without sacrificing comfort.

Fine control to match user preference available through mode selection

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



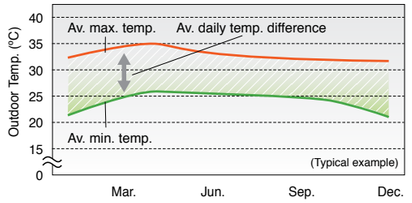
VRT offers quicker cool down to shorten uncomfortable pull down time.



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

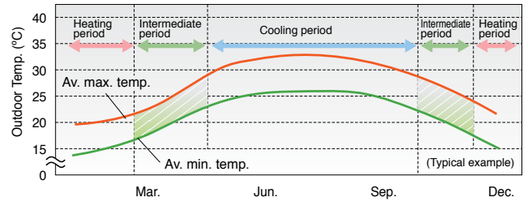
Recommended for use in these situations

■ Cooling only regions having differences in daily temperature.



VRT is particularly effective at night when temperatures are low.

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



VRT is particularly effective during the intermediate periods.

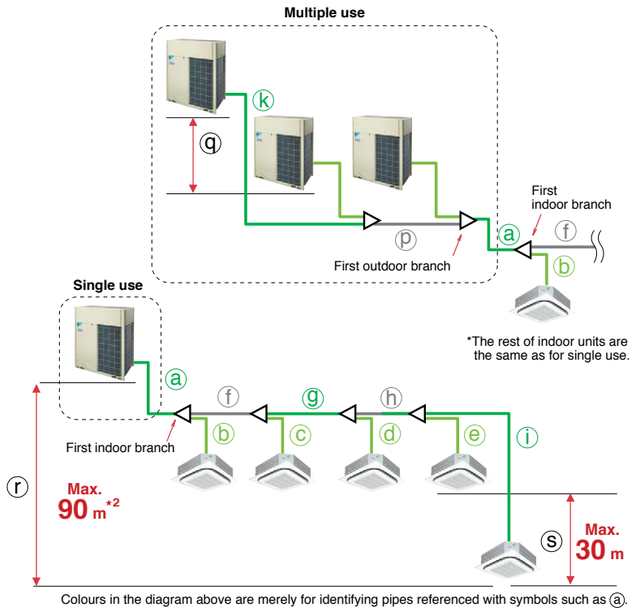
More options for installation location

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)



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

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

			Level Difference	Example
Maximum allowable level difference	Between the outdoor units (Multiple use)		**5** m	q
	Between the indoor units		**30** m	s
	Between the outdoor units and the indoor units	If the outdoor unit is above.	**90** m*2	r
		If the outdoor unit is below.	**90** m*2	r

★1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. Various conditions and requirements have to be met to allow utilisation of 90 m piping length. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.
★2. When level differences are 50 m or more, the diameter of the main liquid piping size must be increased. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

Connection ratio =

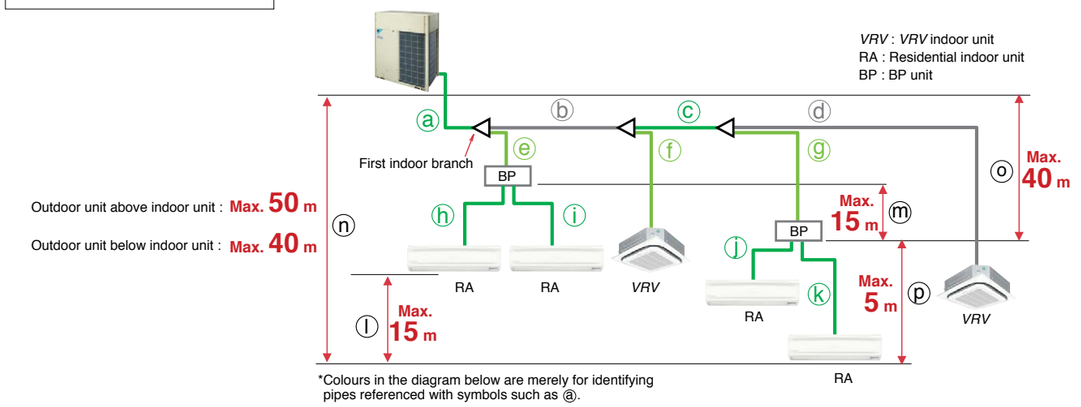
$$\frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$$

Conditions of *VRV* indoor unit connection capacity

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

*1 For the FXFQ25P and FXFQ25S 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 47-48 for outdoor unit combination details.

For mixed combination of *VRV* and residential indoor units



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

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

			Actual piping length	Example	Equivalent piping length
Maximum allowable piping length	Refrigerant piping length		**100** m	a+b+c+g+k, a+b+c+d	**120** m
	Total piping length		**250** m	a+b+c+d+e+f+g+h+i+j+k	—
	Between BP unit and indoor unit	If indoor unit capacity index < 60.	**2** m–**15** m	h, i, j, k	—
		If indoor unit capacity index is 60.	**2** m–**12** m		
		If indoor unit capacity index is 71.	**2** m–**8** m		
	Between the first indoor branch and the farthest BP unit or between the first indoor branch and the farthest *VRV* indoor unit		**50** m*1	b+c+g, b+c+d	—
Minimum allowable piping length	Between outdoor unit and the first indoor branch		**5** m	a	—

			Level Difference	Example
Maximum allowable level difference	Between the indoor units		**15** m	l
	Between BP units		**15** m	m
	Between the outdoor unit and the indoor unit	If the outdoor unit is above.	**50** m	n
		If the outdoor unit is below.	**40** m	n
	Between the outdoor unit and the BP unit		**40** m	o
	Between the BP unit and the indoor unit		**5** m	p

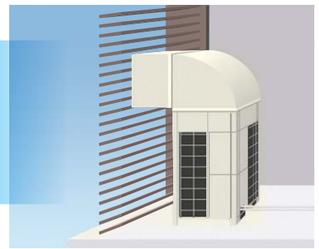
*1. If the piping length between the first indoor branch and BP unit or *VRV* indoor unit is over 20 m, it is necessary to increase the gas and liquid piping size between the first indoor branch and BP unit or *VRV* indoor unit. If the piping diameter of the sized up piping exceeds the diameter of the piping before the first indoor branch kit, then the latter also requires a liquid piping and gas piping size up. 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% for cooling only models and 80% to 130% for heat pump models. Refer to page 48 for outdoor unit combination details.

High external static pressure

***VRV* IV** outdoor unit condenser fans are able to achieve external static pressures of up to 78.4 Pa, ensuring efficient heat dissipation and stable operations.

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

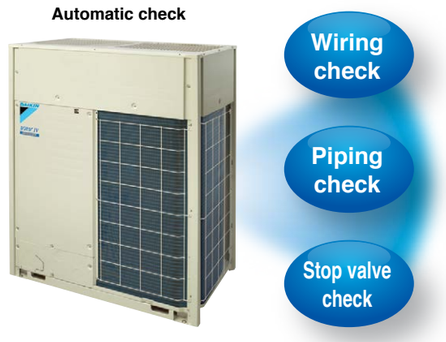


Multiple advanced features ensuring more accurate test operation and stable system

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.

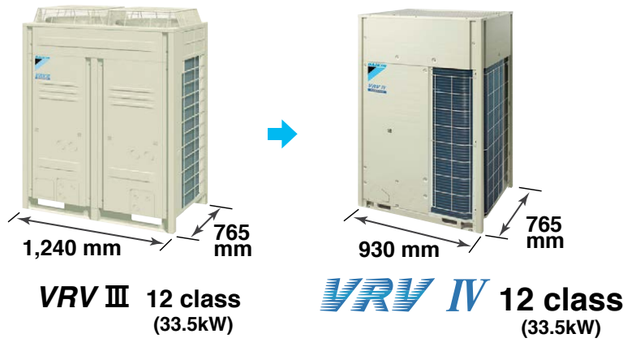
- Automatically checks the wirings between outdoor units and indoor units to confirm whether there is a defective wiring.
- Optimises operations to suit field piping lengths.
- Automatically check whether the stop valve in each outdoor unit is in normal status to ensure the smooth operation of air conditioning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



Ease of installation

Compact & lightweight design

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



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

Simplified commissioning and after-sales service

Function of information display by luminous digital tube

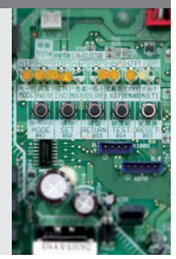
***VRV* IV** system utilises 7-segment luminous digital tubes to display system operation information, enabling the operational state to be visually displayed whilst facilitating simplified commissioning and after-sales service.

7-segment digital display

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.



Outdoor unit sequencing technology

Automatic sequencing operation

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

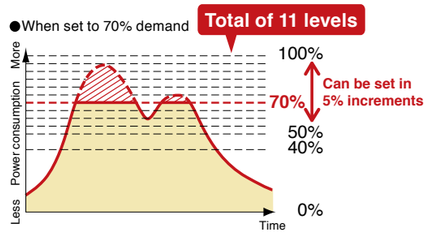
Compliant with the RoHS Directive*

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

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

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.



Double backup operation functions responding resiliently to various unexpected situations

Double backup operation functions

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

Unit backup operation function

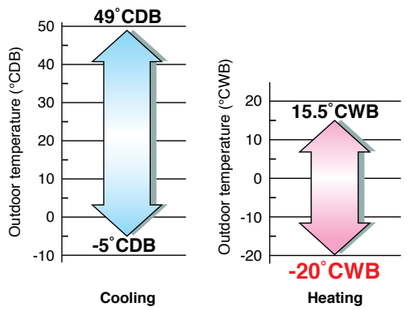
If malfunction occurs in an outdoor unit...
Emergency operation can be conveniently set and enabled by the remote controller for indoor unit (for systems composed of two or more outdoor units).

Compressor backup operation function

If malfunction occurs in a compressor...
Emergency operation can be easily set and enabled by the outdoor unit (for a single outdoor unit system RX(Y)Q14-20TY1A models).

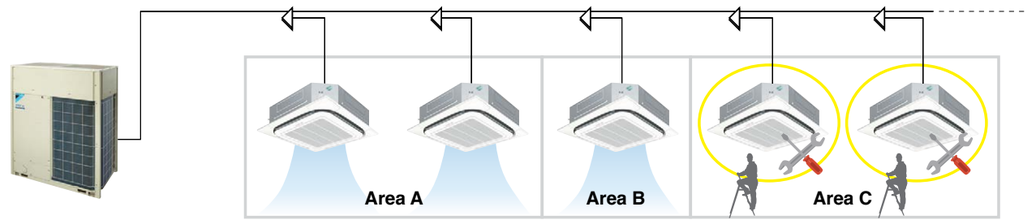
Wide operation temperature range

The versatile operation range of the ***VRV* IV** system works to reduce limitations on installation locations. The operation temperature range for heating goes all the way down to -20˚C, while cooling can be performed with outdoor temperatures as high as 49˚C. Both these achievements are due to the employment of a high-pressure dome-type compressor.



Ease of Maintenance

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



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

Comfort

Lower operation sound

Improve heat exchanger efficency, helps to reduced operation sound.

Sound level(dB(A))

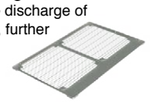
	6 class	8 class	10 class	12 class
VRV III	57	57	58	60
VRV IV	55	56	57	59

1-2 dB(A) reduction than conventional model

Large airflow, high static pressure and quiet technology

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

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

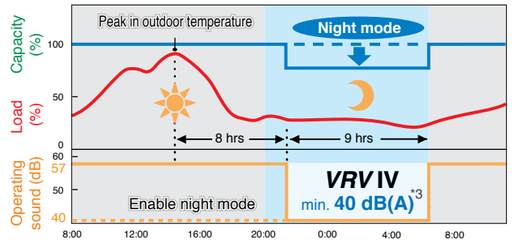


Streamlined scroll fan
The sharp edge of each fan blade has a certain curvature, reducing both the vibration and the pressure loss.

Nighttime quiet operation function

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

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



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

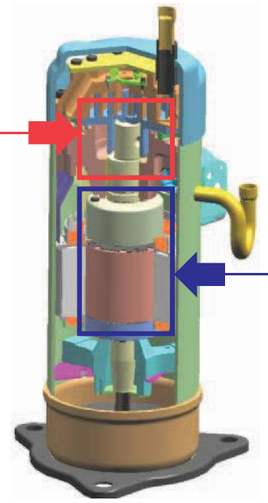
Large capacity all DC inverter compressor in compact casing

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

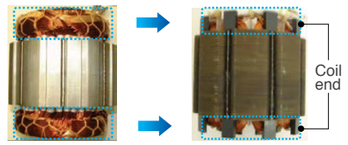
As a result of having thinned a wall - thickness of the scroll, compression chamber volume increase 50%



Small type high efficiency concentrated winding motor

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

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



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

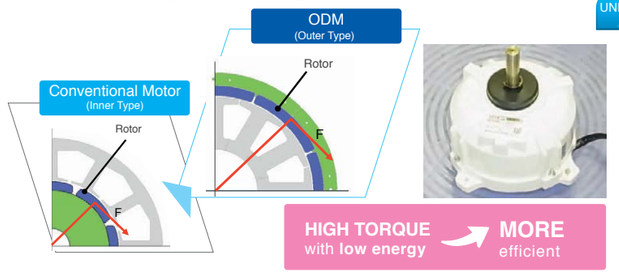
Improve motor efficiency in low rpm range (improve intermediate efficiency).

Outer Rotor DC Motor (ODM)

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

Advantages of ODM

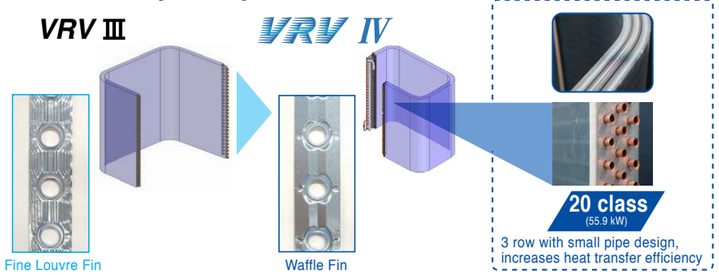
Thanks to large diameter of the rotor,
① Large torque with same electromagnetic force
② Stable rotation in all range, and can be operated with small number of rotations



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.



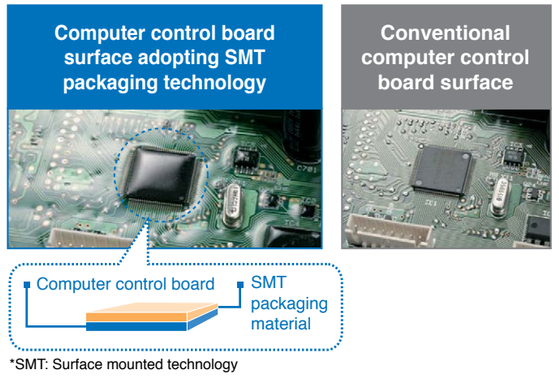
	Heat exchanger area	Contribution of COP (cooling)
10 class (28 kW)	13%UP	105.5%
16 class (45 kW)	24%UP	111.5%

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.

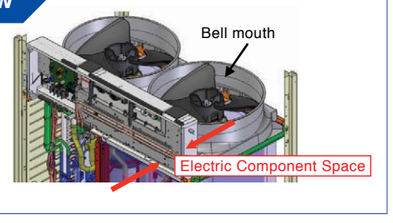


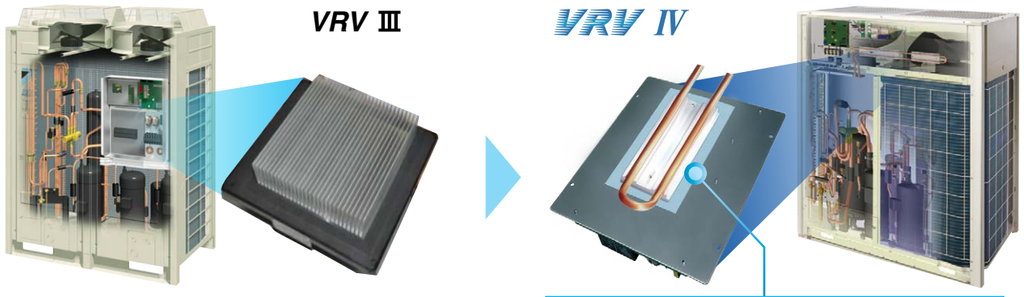
*SMT: Surface mounted technology

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.





Using refrigerant to cool the inverter power module helped minimize the electric component, and this resulted in reduced 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 ratio.

Outdoor Units - Cooling Only / Heat Pump

Outdoor unit capacity now increased to 60 class (168 kW)

- *VRV* IV outdoor unit offers a higher capacity of up to 60 class (168 kW), responding to the needs of large commercial buildings.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system design flexibility to a new level.
- Outdoor units with anti-corrosion specifications (-E type on request) are designed specifically for use in areas which are subject to salt damage and atmospheric pollution.

Lineup

class	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 class

RX(Y)Q12THY1A(E)
RX(Y)Q14THY1A(E)
RX(Y)Q16THY1A(E)

●Triple Outdoor Units

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

RX(Y)Q18THY1A(E) RX(Y)Q26THY1A(E)
RX(Y)Q20THY1A(E) RX(Y)Q28THY1A(E)
RX(Y)Q22THY1A(E) RX(Y)Q30THY1A(E)
RX(Y)Q24THY1A(E) RX(Y)Q32THY1A(E)

34, 38 class

RX(Y)Q34THY1A(E)
RX(Y)Q38THY1A(E)

36, 40 class

RX(Y)Q36THY1A(E)
RX(Y)Q40THY1A(E)

42, 44, 46, 48, 50 class

RX(Y)Q42THY1A(E) RX(Y)Q48THY1A(E)
RX(Y)Q44THY1A(E) RX(Y)Q50THY1A(E)
RX(Y)Q46THY1A(E)

Standard Type

●Single Outdoor Units

6, 8, 10, 12 class

RX(Y)Q6TY1A(E)
RX(Y)Q8TY1A(E)
RX(Y)Q10TY1A(E)
RX(Y)Q12TY1A(E)

14, 16 class

RX(Y)Q14TY1A(E)
RX(Y)Q16TY1A(E)

●Double Outdoor Units

18, 20 class

RX(Y)Q18TNY1A(E)
RX(Y)Q20TNY1A(E)

22, 24, 26 class

RX(Y)Q22TNY1A(E)
RX(Y)Q24TNY1A(E)
RX(Y)Q26TNY1A(E)

28, 30, 32 class

RX(Y)Q28TNY1A(E)
RX(Y)Q30TNY1A(E)
RX(Y)Q32TNY1A(E)

●Triple Outdoor Units

34, 36 class

RX(Y)Q34TNY1A(E)
RX(Y)Q36TNY1A(E)

38, 40 class

RX(Y)Q38TNY1A(E)
RX(Y)Q40TNY1A(E)

42, 44 class

RX(Y)Q42TNY1A(E)
RX(Y)Q44TNY1A(E)

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

RX(Y)Q46TNY1A(E) RX(Y)Q54TNY1A(E)
RX(Y)Q48TNY1A(E) RX(Y)Q56TNY1A(E)
RX(Y)Q50TNY1A(E) RX(Y)Q58TNY1A(E)
RX(Y)Q52TNY1A(E) RX(Y)Q60TNY1A(E)

Space Saving Type

●Single Outdoor Units

18, 20 class

RX(Y)Q18TY1A(E)
RX(Y)Q20TY1A(E)

●Double Outdoor Units

22, 24 class

RX(Y)Q22TSY1A(E)
RX(Y)Q24TSY1A(E)

26, 28, 30, 32 class

RX(Y)Q26TSY1A(E) RX(Y)Q30TSY1A(E)
RX(Y)Q28TSY1A(E) RX(Y)Q32TSY1A(E)

●Double Outdoor Units

34, 36, 38, 40 class

RX(Y)Q34TSY1A(E) RX(Y)Q38TSY1A(E)
RX(Y)Q36TSY1A(E) RX(Y)Q40TSY1A(E)

●Triple Outdoor Units

42, 44 class

RX(Y)Q42TSY1A(E)
RX(Y)Q44TSY1A(E)

46, 48, 50 class

RX(Y)Q46TSY1A(E)
RX(Y)Q48TSY1A(E)
RX(Y)Q50TSY1A(E)

For connection of only *VRV* indoor units

High-COP Type

Class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
12	32.0	300	RX(Y)Q12TH	RX(Y)Q6Tx 2	BHFP22P100	150 to 390 (480)	19 (24)
14	38.4	350	RX(Y)Q14TH	RX(Y)Q6T+ RX(Y)Q8T		175 to 455 (560)	22 (28)
16	44.8	400	RX(Y)Q16TH	RX(Y)Q8T x 2		200 to 520 (640)	26 (32)
18	48.0	450	RX(Y)Q18TH	RX(Y)Q6T x 3	BHFP22P151	225 to 585 (585)	29 (29)
20	54.4	500	RX(Y)Q20TH	RX(Y)Q6Tx 2+ RX(Y)Q8T		250 to 650 (650)	32 (32)
22	60.8	550	RX(Y)Q22TH	RX(Y)Q6T+ RX(Y)Q8Tx 2		275 to 715 (715)	35 (35)
24	67.2	600	RX(Y)Q24TH	RX(Y)Q8Tx 3		300 to 780 (780)	39 (39)
26	72.8	650	RX(Y)Q26TH	RX(Y)Q8Tx 2 + RX(Y)Q10T		325 to 845 (845)	42 (42)
28	78.3	700	RX(Y)Q28TH	RX(Y)Q8Tx 2 + RX(Y)Q12T		350 to 910 (910)	45 (45)
30	83.9	750	RX(Y)Q30TH	RX(Y)Q8T+ RX(Y)Q10T+ RX(Y)Q12T		375 to 975 (975)	48 (48)
32	89.4	800	RX(Y)Q32TH	RX(Y)Q8T+ RX(Y)Q12Tx 2		400 to 1,040 (1,040)	52 (52)
34	95.9	850	RX(Y)Q34TH	RX(Y)Q8T+ RX(Y)Q12T+ RX(Y)Q14T		425 to 1,105 (1,105)	55 (55)
36	102	900	RX(Y)Q36TH	RX(Y)Q8T+ RX(Y)Q14T x 2		450 to 1,170 (1,170)	58 (58)
38	107	950	RX(Y)Q38TH	RX(Y)Q12Tx 2+ RX(Y)Q14T		475 to 1,235 (1,235)	61 (61)
40	114	1,000	RX(Y)Q40TH	RX(Y)Q12T+ RX(Y)Q14Tx 2		500 to 1,300 (1,300)	64 (64)
42	120	1,050	RX(Y)Q42TH	RX(Y)Q14Tx 3		525 to 1,365 (1,365)	
44	125	1,100	RX(Y)Q44TH	RX(Y)Q14Tx 2+ RX(Y)Q16T		550 to 1,430 (1,430)	
46	130	1,150	RX(Y)Q46TH	RX(Y)Q14T+ RX(Y)Q16Tx 2		575 to 1,495 (1,495)	
48	135	1,200	RX(Y)Q48TH	RX(Y)Q16Tx 3		600 to 1,560 (1,560)	
50	140	1,250	RX(Y)Q50TH	RX(Y)Q16Tx 2 + RX(Y)Q18T		625 to 1,625 (1,625)	

Note: *1. The outdoor unit multi connection piping kit (separately sold) is required for multiple connection.
*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 37 for note on connection capacity of indoor units.

Space Saving Type

Class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
18	50.0	450	RX(Y)Q18T	RX(Y)Q18T	–	225 to 585 (900)	29 (45)
20	56.0	500	RX(Y)Q20T	RX(Y)Q20T	–	250 to 650 (1,000)	32 (50)
22	61.5	550	RX(Y)Q22TS	RX(Y)Q10T + RX(Y)Q12T	BHFP22P100	275 to 715 (880)	35 (44)
24	67.0	600	RX(Y)Q24TS	RX(Y)Q12T x 2		300 to 780 (960)	39 (48)
26	72.4	650	RX(Y)Q26TS	RX(Y)Q8T + RX(Y)Q18T		325 to 845 (1,040)	42 (52)
28	78.5	700	RX(Y)Q28TS	RX(Y)Q12T + RX(Y)Q16T		350 to 910 (1,120)	45 (56)
30	83.5	750	RX(Y)Q30TS	RX(Y)Q12T + RX(Y)Q18T		375 to 975 (1,200)	48 (60)
32	89.5	800	RX(Y)Q32TS	RX(Y)Q12T + RX(Y)Q20T		400 to 1,040 (1,280)	52 (64)
34	95.0	850	RX(Y)Q34TS	RX(Y)Q16T + RX(Y)Q18T		425 to 1,105 (1,360)	55 (64)
36	100	900	RX(Y)Q36TS	RX(Y)Q18T x 2		450 to 1,170 (1,440)	58 (64)
38	106	950	RX(Y)Q38TS	RX(Y)Q18T + RX(Y)Q20T		475 to 1,235 (1,520)	61 (64)
40	112	1,000	RX(Y)Q40TS	RX(Y)Q20T x 2		500 to 1,300 (1,600)	64 (64)
42	117	1,050	RX(Y)Q42TS	RX(Y)Q12T x 2 + RX(Y)Q18T	BHFP22P151	525 to 1,365 (1,365)	
44	123	1,100	RX(Y)Q44TS	RX(Y)Q12T x 2 + RX(Y)Q20T		550 to 1,430 (1,430)	
46	129	1,150	RX(Y)Q46TS	RX(Y)Q12T + RX(Y)Q16T + RX(Y)Q18T		575 to 1,495 (1,495)	
48	134	1,200	RX(Y)Q48TS	RX(Y)Q12T + RX(Y)Q18T x 2		600 to 1,560 (1,560)	
50	140	1,250	RX(Y)Q50TS	RX(Y)Q12T + RX(Y)Q18T + RX(Y)Q20T		625 to 1,625 (1,625)	

Note: *1. For multiple connection of 22 class 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 37 for note on connection capacity of indoor units.

Standard Type

Class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
6	16.0	150	RX(Y)Q6T	RX(Y)Q6T	–	75 to 195 (300)	9 (15)
8	22.4	200	RX(Y)Q8T	RX(Y)Q8T	–	100 to 260 (400)	13 (20)
10	28.0	250	RX(Y)Q10T	RX(Y)Q10T	–	125 to 325 (500)	16 (25)
12	33.5	300	RX(Y)Q12T	RX(Y)Q12T	–	150 to 390 (600)	19 (30)
14	40.0	350	RX(Y)Q14T	RX(Y)Q14T	–	175 to 455 (700)	22 (35)
16	45.0	400	RX(Y)Q16T	RX(Y)Q16T	–	200 to 520 (800)	26 (40)
18	50.4	450	RX(Y)Q18TN	RX(Y)Q8T + RX(Y)Q10T	BHFP22P100	225 to 585 (720)	29 (36)
20	55.9	500	RX(Y)Q20TN	RX(Y)Q8T + RX(Y)Q12T		250 to 650 (800)	32 (40)
22	62.4	550	RX(Y)Q22TN	RX(Y)Q8T + RX(Y)Q14T		275 to 715 (880)	35 (44)
24	68.0	600	RX(Y)Q24TN	RX(Y)Q10T + RX(Y)Q14T		300 to 780 (960)	39 (48)
26	73.5	650	RX(Y)Q26TN	RX(Y)Q12T + RX(Y)Q14T		325 to 845 (1,040)	42 (52)
28	80.0	700	RX(Y)Q28TN	RX(Y)Q14T × 2		350 to 910 (1,120)	45 (56)
30	85.0	750	RX(Y)Q30TN	RX(Y)Q14T + RX(Y)Q16T		375 to 975 (1,200)	48 (60)
32	90.0	800	RX(Y)Q32TN	RX(Y)Q14T + RX(Y)Q18T		400 to 1,040 (1,280)	52 (64)
34	95.0	850	RX(Y)Q34TN	RX(Y)Q10T + RX(Y)Q12T × 2	BHFP22P151	425 to 1,105 (1,105)	55 (55)
36	101	900	RX(Y)Q36TN	RX(Y)Q12T × 3		450 to 1,170 (1,170)	58 (58)
38	106	950	RX(Y)Q38TN	RX(Y)Q8T + RX(Y)Q12T + RX(Y)Q18T		475 to 1,235 (1,235)	61 (61)
40	112	1,000	RX(Y)Q40TN	RX(Y)Q12T × 2 + RX(Y)Q16T		500 to 1,300 (1,300)	64 (64)
42	119	1,050	RX(Y)Q42TN	RX(Y)Q12T + RX(Y)Q14T + RX(Y)Q16T		525 to 1,365 (1,365)	
44	124	1,100	RX(Y)Q44TN	RX(Y)Q12T + RX(Y)Q16T × 2		550 to 1,430 (1,430)	
46	130	1,150	RX(Y)Q46TN	RX(Y)Q14T × 2 + RX(Y)Q18T		575 to 1,495 (1,495)	
48	135	1,200	RX(Y)Q48TN	RX(Y)Q14T + RX(Y)Q16T + RX(Y)Q18T		600 to 1,560 (1,560)	
50	140	1,250	RX(Y)Q50TN	RX(Y)Q14T + RX(Y)Q18T × 2		625 to 1,625 (1,625)	
52	145	1,300	RX(Y)Q52TN	RX(Y)Q16T + RX(Y)Q18T × 2		650 to 1,690 (1,690)	
54	150	1,350	RX(Y)Q54TN	RX(Y)Q18T × 3		675 to 1,755 (1,755)	
56	156	1,400	RX(Y)Q56TN	RX(Y)Q18T × 2 + RX(Y)Q20T		700 to 1,820 (1,820)	
58	162	1,450	RX(Y)Q58TN	RX(Y)Q18T + RX(Y)Q20T × 2		725 to 1,885 (1,885)	
60	168	1,500	RX(Y)Q60TN	RX(Y)Q20T × 3		750 to 1,950 (1,950)	

Note: *1. For multiple connection of 18 class 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 37 for note on connection capacity of indoor units.

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

Model name*1	kW	class	Capacity index	Total capacity index of connectable indoor units*2				Maximum number of connectable indoor units
				Combination (%)*2				
				50%*2 (minimum for RXQ)	80%*2 (mininum for RXYQ)	100%	130%	
RX(Y)Q6TY1A	16.0	6 class	150	75	120	150	195	9
RX(Y)Q8TY1A	22.4	8 class	200	100	160	200	260	13
RX(Y)Q10TY1A	28.0	10 class	250	125	200	250	325	16
RX(Y)Q12TY1A	33.5	12 class	300	150	240	300	390	19
RX(Y)Q14TY1A	40.0	14 class	350	175	280	350	455	22
RX(Y)Q16TY1A	45.0	16 class	400	200	320	400	520	26
RX(Y)Q18TY1A	50.0	18 class	450	225	360	450	585	29
RX(Y)Q20TY1A	56.0	20 class	500	250	400	500	650	32

Note: *1. Only single outdoor unit (RX(Y)Q6-20TY1A) can be connected.
*2. Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor unit for cooling only RXQ models and 80% to 130% of the capacity index of the outdoor unit for heat pump RXYQ models.

Enhanced range of choices

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.

Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
		Capacity Range(kW)	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14	16	16.2	18.0	20	22.4	28
		Capacity Index	20	25	31.3	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFQ-SVM			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		●	●	●	●	●											
4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		●	●	●	●	●	●		●		●						
Ceiling Mounted Cassette Corner	FXKQ-MAVE			●	●	●		●										
Slim Ceiling Mounted Duct (Standard Series)	FXDQ-PBVE	(700mm width type)	●	●	●													
	FXDQ-NBVE	(900/1,100 mm width type)				●	●	●										
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1		●	●	●	●	●	●										
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE		●	●	●	●	●	●		●	●	●	●					
Ceiling Concealed (Duct)	FXDYQ-MAV1									●	●	●		●				
Ceiling Mounted Duct	FXMQ-PVE		●	●	●	●	●	●		●	●	●	●					
	FXMQ-PV1A														●	●	●	●
Outdoor-Air Processing Unit	FXMQ-MFV1											●					●	●
Ceiling Suspended	FXHQ-MAVE				●			●			●							
Wall Mounted	FXAQ-PVE		●	●	●	●	●	●										
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●										
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		20	25	35	50	60	71
			Rated Capacity (kW)	2.0	2.5	3.5	5.0	6.0	7.1
			Capacity Index	20	25	35	50	60	71
Ceiling Mounted Cassette (Compact Multi Flow)		FFQ-BV1B			●	●	●	●	
Slim Ceiling Mounted Duct	Cooling Only	CDKS-EAVMA	(700 mm width type)		●	●			
	Heat Pump	CDXS-EAVMA							
	Cooling Only	CDKS-CVMA	(900/1,100 mm width type)		●	●	●	●	
	Heat Pump	FDXS-CVMA							
Wall Mounted	Heat Pump	CTXG-PVMAW			●	●	●		
		CTXG-PVMAS			●	●	●		
	Cooling Only	FTKS-KVMA		●	●	●			
	Heat Pump	FTXS-KVMA							
	Cooling Only	FTKS-KAVMA					●	●	●
	Heat Pump	FTXS-KAVMA							
Floor Standing	Heat Pump	FVXS-KV1A			●	●	●		
Floor/Ceiling Suspended Dual	Heat Pump	FLXS-BVMA			●				
		FLXS-GVMA				●	●	●	

Note: BP units are necessary for residential indoor units. Only single outdoor unit (RX(Y)Q6-20TY1A) can be connected.

*Refer to page 47-48 for the maximum number of connectable indoor units.

VRV IV Outdoor Units Cooling Only RXQ-T

High-COP Type

MODEL			RXQ12THY1A(E)	RXQ14THY1A(E)	RXQ16THY1A(E)	RXQ18THY1A(E)	RXQ20THY1A(E)	RXQ22THY1A(E)	RXQ24THY1A(E)
Combination units			RXQ6TY1A(E)	RXQ6TY1A(E)	RXQ8TY1A(E)	RXQ6TY1A(E)	RXQ6TY1A(E)	RXQ6TY1A(E)	RXQ8TY1A(E)
			RXQ6TY1A(E)	RXQ8TY1A(E)	RXQ8TY1A(E)	RXQ6TY1A(E)	RXQ6TY1A(E)	RXQ8TY1A(E)	RXQ8TY1A(E)
			—	—	—	RXQ6TY1A(E)	RXQ8TY1A(E)	RXQ8TY1A(E)	RXQ8TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 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	Cooling	kW	7.26	8.84	10.4	10.9	12.5	14.1	15.6
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		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
		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)			
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
Sound power		dB(A)	78	79	79	80	80	80	81
Operation range	Cooling	ºCDB	-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			RXQ26THY1A(E)	RXQ28THY1A(E)	RXQ30THY1A(E)	RXQ32THY1A(E)	RXQ34THY1A(E)	RXQ36THY1A(E)	RXQ38THY1A(E)	RXQ40THY1A(E)
Combination units			RXQ8TY1A(E)	RXQ8TY1A(E)	RXQ8TY1A(E)	RXQ8TY1A(E)	RXQ8TY1A(E)	RXQ8TY1A(E)	RXQ12TY1A(E)	RXQ12TY1A(E)
			RXQ8TY1A(E)	RXQ8TY1A(E)	RXQ10TY1A(E)	RXQ12TY1A(E)	RXQ12TY1A(E)	RXQ14TY1A(E)	RXQ12TY1A(E)	RXQ14TY1A(E)
			RXQ10TY1A(E)	RXQ12TY1A(E)	RXQ12TY1A(E)	RXQ12TY1A(E)	RXQ14TY1A(E)	RXQ14TY1A(E)	RXQ14TY1A(E)	RXQ14TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz							
Cooling capacity		kcal/h	62,600	67,300	72,200	76,900	82,500	87,700	92,000	98,000
		Btu/h	248,000	267,000	286,000	305,000	327,000	348,000	365,000	389,000
		kW	72.8	78.3	83.9	89.4	95.9	102	107	114
Power consumption	Cooling	kW	17.7	19.4	21.5	23.2	25.1	27.0	28.9	30.8
Capacity control		%	6-100	6-100	5-100	5-100	5-100	4-100	4-100	4-100
Casing colour			Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically Sealed Scroll Type							
	Motor output	kW	(3.4x1)+(3.4x1)+(4.1x1)	(3.4x1)+(3.4x1)+(5.2x1)	(3.4x1)+(4.1x1)+(5.2x1)	(3.4x1)+(5.2x1)+(5.2x1)	(3.4x1)+(5.2x1)+(2.9x1)+(3.3x1)	(3.4x1)+(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)	(5.2x1)+(5.2x1)+(2.9x1)+(3.3x1)	(5.2x1)+(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)
Airflow rate		ℓ/s	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
		m³/min	157+157+165	157+157+178	157+165+178	157+178+178	157+178+233	157+233+233	178+178+233	178+233+233
Dimensions (HxWxD)		mm	(1,657x930x765)+(1,657x930x765)+(1,657x930x765)				(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)
Machine weight		kg	185+185+195	185+185+195	185+195+195	185+195+195	185+195+285	185+285+285	195+195+285	195+285+285
Sound level		dB(A)	61	62	62	63	63	64	64	64
Sound power		dB(A)	82	82	83	83	83	84	84	84
Operation range	Cooling	ºCDB	-5 to 49							
Refrigerant	Type		R-410A							
	Charge	kg	5.9+5.9+6.0	5.9+5.9+6.3	5.9+6.0+6.3	5.9+6.3+6.3	5.9+6.3+10.3	5.9+10.3+10.3	6.3+6.3+10.3	6.3+10.3+10.3
Piping connections	Liquid	mm	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)
	Gas	mm	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)

MODEL			RXQ42THY1A(E)	RXQ44THY1A(E)	RXQ46THY1A(E)	RXQ48THY1A(E)	RXQ50THY1A(E)
Combination units			RXQ14TY1A(E)	RXQ14TY1A(E)	RXQ14TY1A(E)	RXQ16TY1A(E)	RXQ16TY1A(E)
			RXQ14TY1A(E)	RXQ14TY1A(E)	RXQ16TY1A(E)	RXQ16TY1A(E)	RXQ16TY1A(E)
			RXQ14TY1A(E)	RXQ16TY1A(E)	RXQ16TY1A(E)	RXQ16TY1A(E)	RXQ18TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 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	32.7	34.8	36.9	39.0	41.4
Capacity control		%	4-100	3-100	3-100	3-100	3-100
Casing colour			Ivory white (5Y7.5/1)				
Compressor	Type		Hermetically Sealed Scroll Type				
	Motor output	kW	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)	(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)
Airflow rate		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	3,883+3,883+3,883
		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
Sound power		dB(A)	85	86	87	88	88
Operation range	Cooling	ºCDB	-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)	ϕ41.3Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)

Note: 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-T

Standard Type

MODEL			RXQ6TY1A(E)	RXQ8TY1A(E)	RXQ10TY1A(E)	RXQ12TY1A(E)	RXQ14TY1A(E)	RXQ16TY1A(E)	RXQ18TNY1A(E)	RXQ20TNY1A(E)	RXQ22TNY1A(E)	RXQ24TNY1A(E)	RXQ26TNY1A(E)	RXQ28TNY1A(E)	RXQ30TNY1A(E)	RXQ32TNY1A(E)
Combination units			—	—	—	—	—	—	RXQ8TY1A(E) RXQ10TY1A(E)	RXQ8TY1A(E) RXQ12TY1A(E)	RXQ8TY1A(E) RXQ14TY1A(E)	RXQ10TY1A(E) RXQ14TY1A(E)	RXQ12TY1A(E) RXQ14TY1A(E)	RXQ14TY1A(E) RXQ14TY1A(E)	RXQ14TY1A(E) RXQ16TY1A(E)	RXQ14TY1A(E) RXQ18TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz						3-phase 4-wire system, 380–415 V, 50 Hz							
Cooling capacity		kcal/h	13,800	19,300	24,100	28,800	34,400	38,700	43,300	48,100	53,700	58,500	63,200	68,800	73,100	77,400
		Btu/h	54,600	76,400	95,500	114,000	136,000	154,000	172,000	191,000	213,000	232,000	251,000	273,000	290,000	307,000
		kW	16.0	22.4	28.0	33.5	40.0	45.0	50.4	55.9	62.4	68.0	73.5	80.0	85.0	90.0
Power consumption	Cooling	kW	3.63	5.21	7.29	9.01	10.9	13.0	12.5	14.2	16.1	18.2	19.9	21.8	23.9	26.3
Capacity control		%	20-100	20-100	16-100	15-100	11-100	10-100	8-100	8-100	7-100	6-100	6-100	5-100	5-100	5-100
Casing colour			Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically Sealed Scroll Type						Hermetically Sealed Scroll Type							
	Motor output	kW	2.4x1	3.4x1	4.1x1	5.2x1	(2.9x1)+(3.3x1)	(3.6x1)+(3.7x1)	(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)
Airflow rate		ℓ/s	1,983	2,616	2,749	2,966	3,883	3,883	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
		m³/min	119	157	165	178	233	233	157+165	157+178	157+233	165+233	178+233	233+233	233+233	233+233
Dimensions (HxWxD)		mm	1,657x930x765				1,657x1,240x765		(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)			(1,657x1,240x765)+(1,657x1,240x765)		
Machine weight		kg	185	185	195	195	285	285	185+195	185+195	185+285	195+285	195+285	285+285	285+285	285+285
Sound level		dB(A)	55	56	57	59	60	61	60	61	61	62	63	63	64	64
Sound power		dB(A)	75	76	78	79	80	83	80	81	81	82	83	83	85	85
Operation range	Cooling	°CDB	-5 to 49						-5 to 49							
Refrigerant	Type		R-410A						R-410A							
	Charge	kg	5.9	5.9	6.0	6.3	10.3	10.4	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
Piping connections	Liquid	mm	ϕ9.5(Brazing)			ϕ12.7(Brazing)			ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)
	Gas	mm	ϕ19.1(Brazing)		ϕ22.2(Brazing)	ϕ28.6(Brazing)			ϕ28.6(Brazing)	ϕ28.6(Brazing)	ϕ28.6(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)

MODEL			RXQ34TNY1A(E)	RXQ36TNY1A(E)	RXQ38TNY1A(E)	RXQ40TNY1A(E)	RXQ42TNY1A(E)	RXQ44TNY1A(E)	RXQ46TNY1A(E)	RXQ48TNY1A(E)	RXQ50TNY1A(E)	RXQ52TNY1A(E)	RXQ54TNY1A(E)	RXQ56TNY1A(E)	RXQ58TNY1A(E)	RXQ60TNY1A(E)
Combination units			RXQ10TY1A(E) RXQ12TY1A(E) RXQ12TY1A(E)	RXQ12TY1A(E) RXQ12TY1A(E) RXQ12TY1A(E)	RXQ8TY1A(E) RXQ12TY1A(E) RXQ18TY1A(E)	RXQ12TY1A(E) RXQ12TY1A(E) RXQ16TY1A(E)	RXQ12TY1A(E) RXQ14TY1A(E) RXQ16TY1A(E)	RXQ12TY1A(E) RXQ16TY1A(E) RXQ16TY1A(E)	RXQ14TY1A(E) RXQ14TY1A(E) RXQ18TY1A(E)	RXQ14TY1A(E) RXQ16TY1A(E) RXQ18TY1A(E)	RXQ14TY1A(E) RXQ16TY1A(E) RXQ18TY1A(E)	RXQ16TY1A(E) RXQ18TY1A(E) RXQ18TY1A(E)	RXQ18TY1A(E) RXQ18TY1A(E) RXQ18TY1A(E)	RXQ18TY1A(E) RXQ18TY1A(E) RXQ20TY1A(E)	RXQ18TY1A(E) RXQ20TY1A(E) RXQ20TY1A(E)	RXQ20TY1A(E) RXQ20TY1A(E) RXQ20TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz						3-phase 4-wire system, 380–415 V, 50 Hz							
Cooling capacity		kcal/h	81,700	86,900	91,200	96,300	102,000	107,000	112,000	116,000	120,000	125,000	129,000	134,000	139,000	144,000
		Btu/h	324,000	345,000	362,000	382,000	406,000	423,000	444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000
		kW	95.0	101	106	112	119	124	130	135	140	145	150	156	162	168
Power consumption	Cooling	kW	25.3	27.0	29.6	31.0	32.9	35.0	37.2	39.3	41.7	43.8	46.2	48.8	51.4	54.0
Capacity control		%	5-100	5-100	4-100	4-100	4-100	4-100	3-100	3-100	3-100	3-100	3-100	3-100	3-100	3-100
Casing colour			Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically Sealed Scroll Type						Hermetically Sealed Scroll Type							
	Motor output	kW	(4.1x1)+(5.2x1)+(5.2x1)	(5.2x1)+(5.2x1)+(5.2x1)	(3.4x1)+(5.2x1)+(4.4x1)+(4.0x1)	(5.2x1)+(5.2x1)+(3.6x1)+(3.7x1)	(5.2x1)+(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)	(5.2x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(4.4x1)+(4.0x1)	(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)+(4.6x1)+(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		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	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
		m³/min	165+178+178	178+178+178	157+178+233	178+178+233	178+233+233	178+233+233	233+233+233	233+233+233	233+233+233	233+233+233	233+233+233	233+233+268	233+268+268	268+268+268
Dimensions (HxWxD)		mm	(1,657x930x765)+(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)							
Machine weight		kg	195+195+195	195+195+195	185+195+285	195+195+285	195+285+285	195+285+285	285+285+285	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)	63	64	64	65	65	65	66	66	66	66	67	68	69	70
Sound power		dB(A)	83	84	86	86	86	87	87	87	88	88	89	90	91	92
Operation range	Cooling	°CDB	-5 to 49						-5 to 49							
Refrigerant	Type		R-410A						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	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
Piping connections	Liquid	mm	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)
	Gas	mm	ϕ34.9(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)

Note: 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-T

Space Saving Type

MODEL			RXQ18TY1A(E)	RXQ20TY1A(E)	RXQ22TSY1A(E)	RXQ24TSY1A(E)	RXQ26TSY1A(E)	RXQ28TSY1A(E)	RXQ30TSY1A(E)	RXQ32TSY1A(E)	RXQ34TSY1A(E)	RXQ36TSY1A(E)	RXQ38TSY1A(E)	RXQ40TSY1A(E)
Combination units			—	—	RXQ10TY1A(E)	RXQ12TY1A(E)	RXQ8TY1A(E)	RXQ12TY1A(E)	RXQ12TY1A(E)	RXQ12TY1A(E)	RXQ16TY1A(E)	RXQ18TY1A(E)	RXQ18TY1A(E)	RXQ20TY1A(E)
					RXQ12TY1A(E)	RXQ12TY1A(E)	RXQ18TY1A(E)	RXQ16TY1A(E)	RXQ18TY1A(E)	RXQ20TY1A(E)	RXQ18TY1A(E)	RXQ18TY1A(E)	RXQ20TY1A(E)	RXQ20TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz					3-phase 4-wire system, 380–415 V, 50 Hz						
Cooling capacity		kcal/h	43,000	48,200	52,900	57,600	62,300	67,500	71,800	77,000	81,700	86,000	91,200	96,300
		Btu/h	171,000	191,000	210,000	229,000	247,000	268,000	285,000	305,000	324,000	341,000	362,000	382,000
		kW	50.0	56.0	61.5	67.0	72.4	78.5	83.5	89.5	95.0	100	106	112
Power consumption	Cooling	kW	15.4	18.0	16.3	18.0	20.6	22.0	24.4	27.0	28.4	30.8	33.4	36.0
Capacity control		%	10-100	8-100	8-100	8-100	7-100	6-100	6-100	5-100	5-100	5-100	4-100	4-100
Casing colour			Ivory white (5Y7.5/1)					Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically Sealed Scroll Type					Hermetically Sealed Scroll Type						
	Motor output	kW	(4.4x1)+(4.0x1)	(4.6x1)+(5.5x1)	(4.1x1)+(5.2x1)	(5.2x1)+(5.2x1)	(3.4x1)+(4.4x1)+(4.0x1)	(5.2x1)+(3.6x1)+(3.7x1)	(5.2x1)+(4.4x1)+(4.0x1)	(5.2x1)+(4.6x1)+(5.5x1)	(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.6x1)+(5.5x1)	(4.6x1)+(5.5x1)+(4.6x1)+(5.5x1)
Airflow rate		ℓ/s	3,883	4,466	2,749+2,966	2,966+2,966	2,616+3,883	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
		m³/min	233	268	165+178	178+178	157+233	178+233	178+233	178+268	233+233	233+233	233+268	268+268
Dimensions (HxWxD)		mm	1,657x1,240x765		(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x1,240x765)			(1,657x1,240x765)+(1,657x1,240x765)			
Machine weight		kg	285	320	195+195	195+195	185+285	195+285	195+285	195+320	285+285	285+285	285+320	320+320
Sound level		dB(A)	62	65	61	62	63	63	64	66	65	65	67	68
Sound power		dB(A)	84	87	82	82	85	84	85	88	87	87	89	90
Operation range	Cooling	°CDB	-5 to 49					-5 to 49						
Refrigerant	Type		R-410A					R-410A						
	Charge	kg	10.5	11.8	6.0+6.3	6.3+6.3	5.9+10.5	6.3+10.4	6.3+10.5	6.3+11.8	10.4+10.5	10.5+10.5	10.5+11.8	11.8+11.8
Piping connections	Liquid	mm	ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)
	Gas	mm	ϕ28.6(Brazing)	ϕ28.6(Brazing)	ϕ28.6(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)

MODEL			RXQ42TSY1A(E)	RXQ44TSY1A(E)	RXQ46TSY1A(E)	RXQ48TSY1A(E)	RXQ50TSY1A(E)
Combination units			RXQ12TY1A(E)	RXQ12TY1A(E)	RXQ12TY1A(E)	RXQ12TY1A(E)	RXQ12TY1A(E)
			RXQ12TY1A(E)	RXQ12TY1A(E)	RXQ16TY1A(E)	RXQ18TY1A(E)	RXQ18TY1A(E)
			RXQ18TY1A(E)	RXQ20TY1A(E)	RXQ18TY1A(E)	RXQ18TY1A(E)	RXQ20TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 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	33.4	36.0	37.4	39.8	42.4
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
Sound power		dB(A)	86	88	87	88	89
Operation range	Cooling	°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)

Note: 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 Heat Pump RXYQ-T

High-COP Type

MODEL			RXYQ12THY1A(E)	RXYQ14THY1A(E)	RXYQ16THY1A(E)	RXYQ18THY1A(E)	RXYQ20THY1A(E)	RXYQ22THY1A(E)	RXYQ24THY1A(E)
Combination units			RXYQ6TY1A(E)	RXYQ6TY1A(E)	RXYQ8TY1A(E)	RXYQ6TY1A(E)	RXYQ6TY1A(E)	RXYQ6TY1A(E)	RXYQ8TY1A(E)
			RXYQ6TY1A(E)	RXYQ8TY1A(E)	RXYQ8TY1A(E)	RXYQ6TY1A(E)	RXYQ6TY1A(E)	RXYQ8TY1A(E)	RXYQ8TY1A(E)
			—	—	—	RXYQ6TY1A(E)	RXYQ8TY1A(E)	RXYQ8TY1A(E)	RXYQ8TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 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
Heating capacity		kcal/h	31,000	37,000	43,000	46,400	52,500	58,500	64,500
		Btu/h	123,000	147,000	171,000	184,000	208,000	232,000	256,000
		kW	36.0	43.0	50.0	54.0	61.0	68.0	75.0
Power consumption	Cooling	kW	7.26	8.84	10.4	10.9	12.5	14.1	15.6
	Heating	kW	7.98	9.68	11.4	12.0	13.7	15.4	17.1
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		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
		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)			
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
Sound power		dB(A)	78	79	79	80	80	80	81
Operation range	Cooling	ºCDB	-5 to 49						
	Heating	ºCWB	-20 to 15.5						
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			RXYQ26THY1A(E)	RXYQ28THY1A(E)	RXYQ30THY1A(E)	RXYQ32THY1A(E)	RXYQ34THY1A(E)	RXYQ36THY1A(E)	RXYQ38THY1A(E)	RXYQ40THY1A(E)
Combination units			RXYQ8TY1A(E)	RXYQ8TY1A(E)	RXYQ8TY1A(E)	RXYQ8TY1A(E)	RXYQ8TY1A(E)	RXYQ8TY1A(E)	RXYQ12TY1A(E)	RXYQ12TY1A(E)
			RXYQ8TY1A(E)	RXYQ8TY1A(E)	RXYQ10TY1A(E)	RXYQ12TY1A(E)	RXYQ12TY1A(E)	RXYQ14TY1A(E)	RXYQ12TY1A(E)	RXYQ14TY1A(E)
			RXYQ10TY1A(E)	RXYQ12TY1A(E)	RXYQ12TY1A(E)	RXYQ12TY1A(E)	RXYQ14TY1A(E)	RXYQ14TY1A(E)	RXYQ14TY1A(E)	RXYQ14TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz							
Cooling capacity		kcal/h	62,600	67,300	72,200	76,900	82,500	87,700	92,000	98,000
		Btu/h	248,000	267,000	286,000	305,000	327,000	348,000	365,000	389,000
		kW	72.8	78.3	83.9	89.4	95.9	102	107	114
Heating capacity		kcal/h	70,100	75,300	80,800	86,000	92,900	98,900	103,000	110,000
		Btu/h	278,000	299,000	321,000	341,000	368,000	392,000	409,000	437,000
		kW	81.5	87.5	94.0	100	108	115	120	128
Power consumption	Cooling	kW	17.7	19.4	21.5	23.2	25.1	27.0	28.9	30.8
	Heating	kW	18.7	20.4	22.0	23.8	25.9	27.9	29.2	31.3
Capacity control		%	6-100	6-100	5-100	5-100	5-100	4-100	4-100	4-100
Casing colour			Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically Sealed Scroll Type							
	Motor output	kW	(3.4x1)+(3.4x1)+(4.1x1)	(3.4x1)+(3.4x1)+(5.2x1)	(3.4x1)+(4.1x1)+(5.2x1)	(3.4x1)+(5.2x1)+(5.2x1)	(3.4x1)+(5.2x1)+(2.9x1)+(3.3x1)	(3.4x1)+(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)	(5.2x1)+(5.2x1)+(2.9x1)+(3.3x1)	(5.2x1)+(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)
Airflow rate		ℓ/s	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
		m³/min	157+157+165	157+157+178	157+165+178	157+178+178	157+178+233	157+233+233	178+178+233	178+233+233
Dimensions (HxWxD)		mm	(1,657x930x765)+(1,657x930x765)+(1,657x930x765)				(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)
Machine weight		kg	185+185+195	185+185+195	185+195+195	185+195+195	185+195+285	185+285+285	195+195+285	195+285+285
Sound level		dB(A)	61	62	62	63	63	64	64	64
Sound power		dB(A)	82	82	83	83	83	84	84	84
Operation range	Cooling	ºCDB	-5 to 49							
	Heating	ºCWB	-20 to 15.5							
Refrigerant	Type		R-410A							
	Charge	kg	5.9+5.9+6.0	5.9+5.9+6.3	5.9+6.0+6.3	5.9+6.3+6.3	5.9+6.3+10.3	5.9+10.3+10.3	6.3+6.3+10.3	6.3+10.3+10.3
Piping connections	Liquid	mm	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)
	Gas	mm	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)

MODEL			RXYQ42THY1A(E)	RXYQ44THY1A(E)	RXYQ46THY1A(E)	RXYQ48THY1A(E)	RXYQ50THY1A(E)
Combination units			RXYQ14TY1A(E)	RXYQ14TY1A(E)	RXYQ14TY1A(E)	RXYQ16TY1A(E)	RXYQ16TY1A(E)
			RXYQ14TY1A(E)	RXYQ14TY1A(E)	RXYQ16TY1A(E)	RXYQ16TY1A(E)	RXYQ16TY1A(E)
			RXYQ14TY1A(E)	RXYQ16TY1A(E)	RXYQ16TY1A(E)	RXYQ16TY1A(E)	RXYQ18TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 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
Heating capacity		kcal/h	116,000	120,000	125,000	129,000	134,000
		Btu/h	461,000	478,000	495,000	512,000	532,000
		kW	135	140	145	150	156
Power consumption	Cooling	kW	32.7	34.8	36.9	39.0	41.4
	Heating	kW	33.3	35.0	36.7	38.4	40.7
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		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	3,883+3,883+3,883
		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+300
Sound level		dB(A)	65	65	65	66	66
Sound power		dB(A)	85	86	87	88	88
Operation range	Cooling	ºCDB	-5 to 49				
	Heating	ºCWB	-20 to 15.5				
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+11.7
Piping connections	Liquid	mm	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)
	Gas	mm	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)

Note: 1. Models with (E) 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.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
During actual operation, these values are normally somewhat higher as a result of ambient conditions.

VRV IV Outdoor Units Heat Pump RXYQ-T

Standard Type

MODEL			RXYQ6TY1A(E)	RXYQ8TY1A(E)	RXYQ10TY1A(E)	RXYQ12TY1A(E)	RXYQ14TY1A(E)	RXYQ16TY1A(E)		RXYQ18TNY1A(E)	RXYQ20TNY1A(E)	RXYQ22TNY1A(E)	RXYQ24TNY1A(E)	RXYQ26TNY1A(E)	RXYQ28TNY1A(E)	RXYQ30TNY1A(E)	RXYQ32TNY1A(E)
Combination units			—	—	—	—	—	—		RXYQ8TY1A(E) RXYQ10TY1A(E)	RXYQ8TY1A(E) RXYQ12TY1A(E)	RXYQ8TY1A(E) RXYQ14TY1A(E)	RXYQ10TY1A(E) RXYQ14TY1A(E)	RXYQ12TY1A(E) RXYQ14TY1A(E)	RXYQ14TY1A(E) RXYQ14TY1A(E)	RXYQ14TY1A(E) RXYQ16TY1A(E)	RXYQ14TY1A(E) RXYQ18TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz							3-phase 4-wire system, 380–415 V, 50 Hz							
Cooling capacity		kcal/h	13,800	19,300	24,100	28,800	34,400	38,700		43,300	48,100	53,700	58,500	63,200	68,800	73,100	77,400
		Btu/h	54,600	76,400	95,500	114,000	136,000	154,000		172,000	191,000	213,000	232,000	251,000	273,000	290,000	307,000
		kW	16.0	22.4	28.0	33.5	40.0	45.0		50.4	55.9	62.4	68.0	73.5	80.0	85.0	90.0
Heating capacity		kcal/h	15,500	21,500	27,100	32,300	38,700	43,000		48,600	53,800	60,200	65,800	71,000	77,400	81,700	86,900
		Btu/h	61,400	85,300	107,000	128,000	154,000	171,000		193,000	213,000	239,000	261,000	281,000	307,000	324,000	345,000
		kW	18.0	25.0	31.5	37.5	45.0	50.0		56.5	62.5	70.0	76.5	82.5	90.0	95.0	101
Power consumption	Cooling	kW	3.63	5.21	7.29	9.01	10.9	13.0		12.5	14.2	16.1	18.2	19.9	21.8	23.9	26.3
	Heating	kW	3.99	5.69	7.29	9.06	11.1	12.8		13.0	14.8	16.8	18.4	20.2	22.2	23.9	26.2
Capacity control		%	20-100	20-100	16-100	15-100	11-100	10-100		8-100	8-100	7-100	6-100	6-100	5-100	5-100	5-100
Casing colour			Ivory white (5Y7.5/1)							Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically Sealed Scroll Type							Hermetically Sealed Scroll Type							
	Motor output	kW	2.4x1	3.4x1	4.1x1	5.2x1	(2.9x1)+(3.3x1)	(3.6x1)+(3.7x1)		(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)
Airflow rate		ℓ/s	1,983	2,616	2,749	2,966	3,883	3,883		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
		m³/min	119	157	165	178	233	233		157+165	157+178	157+233	165+233	178+233	233+233	233+233	233+233
Dimensions (HxWxD)		mm	1,657x930x765				1,657x1,240x765			(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)			(1,657x1,240x765)+(1,657x1,240x765)		
Machine weight		kg	185	185	195	195	285	285		185+195	185+195	185+285	195+285	195+285	285+285	285+285	285+300
Sound level		dB(A)	55	56	57	59	60	61		60	61	61	62	63	63	64	64
Sound power		dB(A)	75	76	78	79	80	83		80	81	81	82	83	83	85	85
Operation range	Cooling	°CDB	-5 to 49							-5 to 49							
	Heating	°CWB	-20 to 15.5							-20 to 15.5							
Refrigerant	Type		R-410A							R-410A							
	Charge	kg	5.9	5.9	6.0	6.3	10.3	10.4		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+11.7
Piping connections	Liquid	mm	ϕ9.5(Brazing)			ϕ12.7(Brazing)				ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)
	Gas	mm	ϕ19.1(Brazing)		ϕ22.2(Brazing)	ϕ28.6(Brazing)				ϕ28.6(Brazing)	ϕ28.6(Brazing)	ϕ28.6(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)

MODEL			RXYQ34TNY1A(E)	RXYQ36TNY1A(E)	RXYQ38TNY1A(E)	RXYQ40TNY1A(E)	RXYQ42TNY1A(E)	RXYQ44TNY1A(E)		RXYQ46TNY1A(E)	RXYQ48TNY1A(E)	RXYQ50TNY1A(E)	RXYQ52TNY1A(E)	RXYQ54TNY1A(E)	RXYQ56TNY1A(E)	RXYQ58TNY1A(E)	RXYQ60TNY1A(E)
Combination units			RXYQ10TY1A(E) RXYQ12TY1A(E) RXYQ12TY1A(E)	RXYQ12TY1A(E) RXYQ12TY1A(E) RXYQ12TY1A(E)	RXYQ8TY1A(E) RXYQ12TY1A(E) RXYQ18TY1A(E)	RXYQ12TY1A(E) RXYQ12TY1A(E) RXYQ16TY1A(E)	RXYQ12TY1A(E) RXYQ14TY1A(E) RXYQ16TY1A(E)	RXYQ12TY1A(E) RXYQ16TY1A(E) RXYQ16TY1A(E)		RXYQ14TY1A(E) RXYQ14TY1A(E) RXYQ18TY1A(E)	RXYQ14TY1A(E) RXYQ16TY1A(E) RXYQ18TY1A(E)	RXYQ14TY1A(E) RXYQ18TY1A(E) RXYQ18TY1A(E)	RXYQ16TY1A(E) RXYQ18TY1A(E) RXYQ18TY1A(E)	RXYQ18TY1A(E) RXYQ18TY1A(E) RXYQ18TY1A(E)	RXYQ18TY1A(E) RXYQ18TY1A(E) RXYQ20TY1A(E)	RXYQ18TY1A(E) RXYQ20TY1A(E) RXYQ20TY1A(E)	RXYQ20TY1A(E) RXYQ20TY1A(E) RXYQ20TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz							3-phase 4-wire system, 380–415 V, 50 Hz							
Cooling capacity		kcal/h	81,700	86,900	91,200	96,300	102,000	107,000		112,000	116,000	120,000	125,000	129,000	134,000	139,000	144,000
		Btu/h	324,000	345,000	362,000	382,000	406,000	423,000		444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000
		kW	95.0	101	106	112	119	124		130	135	140	145	150	156	162	168
Heating capacity		kcal/h	92,000	97,200	102,000	108,000	114,000	119,000		126,000	130,000	135,000	139,000	144,000	151,000	157,000	163,000
		Btu/h	365,000	386,000	406,000	427,000	454,000	471,000		498,000	515,000	536,000	553,000	573,000	597,000	621,000	645,000
		kW	107	113	119	125	133	138		146	151	157	162	168	175	182	189
Power consumption	Cooling	kW	25.3	27.0	29.6	31.0	32.9	35.0		37.2	39.3	41.7	43.8	46.2	48.8	51.4	54.0
	Heating	kW	25.4	27.2	29.9	30.9	33.0	34.7		37.3	39.0	41.3	43.0	45.3	47.7	50.1	52.5
Capacity control		%	5-100	5-100	4-100	4-100	4-100	4-100		3-100	3-100	3-100	3-100	3-100	3-100	3-100	3-100
Casing colour			Ivory white (5Y7.5/1)							Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically Sealed Scroll Type							Hermetically Sealed Scroll Type							
	Motor output	kW	(4.1x1)+(5.2x1)+(5.2x1)	(5.2x1)+(5.2x1)+(5.2x1)	(3.4x1)+(5.2x1)+(4.4x1)+(4.0x1)	(5.2x1)+(5.2x1)+(3.6x1)+(3.7x1)	(5.2x1)+(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)	(5.2x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)		(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(4.4x1)+(4.0x1)	(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		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		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
		m³/min	165+178+178	178+178+178	157+178+233	178+178+233	178+233+233	178+233+233		233+233+233	233+233+233	233+233+233	233+233+233	233+233+233	233+233+268	233+268+268	268+268+268
Dimensions (HxWxD)		mm	(1,657x930x765)+(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)							
Machine weight		kg	195+195+195	195+195+195	185+195+300	195+195+285	195+285+285	195+285+285		285+285+300	285+285+300	285+300+300	285+300+300	300+300+300	300+300+320	300+320+320	320+320+320
Sound level		dB(A)	63	64	64	65	65	65		66	66	66	66	67	68	69	70
Sound power		dB(A)	83	84	86	86	86	87		87	87	88	88	89	90	91	92
Operation range	Cooling	°CDB	-5 to 49							-5 to 49							
	Heating	°CWB	-20 to 15.5							-20 to 15.5							
Refrigerant	Type		R-410A							R-410A							
	Charge	kg	6.0+6.3+6.3	6.3+6.3+6.3	5.9+6.3+11.7	6.3+6.3+10.4	6.3+10.3+10.4	6.3+10.4+10.4		10.3+10.3+11.7	10.3+10.4+11.7	10.3+11.7+11.7	10.4+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.8	11.7+11.8+11.8	11.8+11.8+11.8
Piping connections	Liquid	mm	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)		ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)
	Gas	mm	ϕ34.9(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)		ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)

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

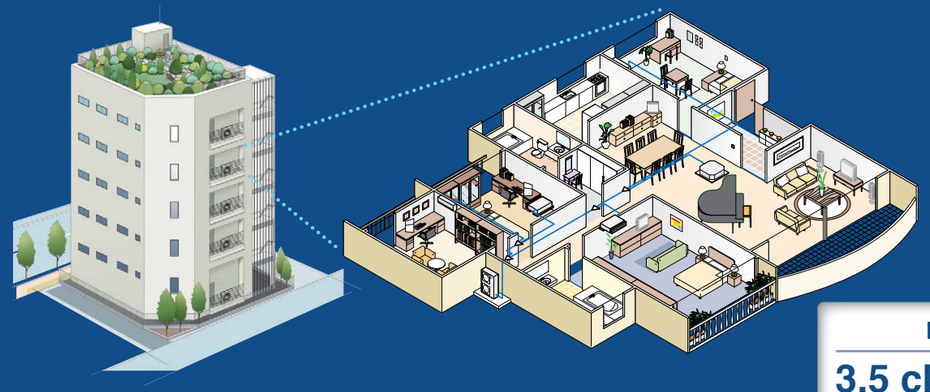
VRV IV Outdoor Units Heat Pump RXYQ-T

Space Saving Type

MODEL			RXYQ18TY1A(E)	RXYQ20TY1A(E)	RXYQ22TSY1A(E)	RXYQ24TSY1A(E)	RXYQ26TSY1A(E)	RXYQ28TSY1A(E)	RXYQ30TSY1A(E)	RXYQ32TSY1A(E)	RXYQ34TSY1A(E)	RXYQ36TSY1A(E)	RXYQ38TSY1A(E)	RXYQ40TSY1A(E)
Combination units			—	—	RXYQ10TY1A(E)	RXYQ12TY1A(E)	RXYQ8TY1A(E)	RXYQ12TY1A(E)	RXYQ12TY1A(E)	RXYQ12TY1A(E)	RXYQ16TY1A(E)	RXYQ18TY1A(E)	RXYQ18TY1A(E)	RXYQ20TY1A(E)
					RXYQ12TY1A(E)	RXYQ12TY1A(E)	RXYQ18TY1A(E)	RXYQ16TY1A(E)	RXYQ18TY1A(E)	RXYQ20TY1A(E)	RXYQ18TY1A(E)	RXYQ18TY1A(E)	RXYQ20TY1A(E)	RXYQ20TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz					3-phase 4-wire system, 380–415 V, 50 Hz						
Cooling capacity		kcal/h	43,000	48,200	52,900	57,600	62,300	67,500	71,800	77,000	81,700	86,000	91,200	96,300
		Btu/h	171,000	191,000	210,000	229,000	247,000	268,000	285,000	305,000	324,000	341,000	362,000	382,000
		kW	50.0	56.0	61.5	67.0	72.4	78.5	83.5	89.5	95.0	100	106	112
Heating capacity		kcal/h	48,200	54,200	59,300	64,500	69,700	75,300	80,400	86,900	91,200	96,300	102,000	108,000
		Btu/h	191,000	215,000	235,000	256,000	276,000	299,000	319,000	345,000	362,000	382,000	406,000	430,000
		kW	56.0	63.0	69.0	75.0	81.0	87.5	93.5	101	106	112	119	126
Power consumption	Cooling	kW	15.4	18.0	16.3	18.0	20.6	22.0	24.4	27.0	28.4	30.8	33.4	36.0
	Heating	kW	15.1	17.5	16.4	18.1	20.8	21.9	24.2	26.6	27.9	30.2	32.6	35.0
Capacity control		%	10-100	8-100	8-100	8-100	7-100	6-100	6-100	5-100	5-100	5-100	4-100	4-100
Casing colour			Ivory white (5Y7.5/1)					Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically Sealed Scroll Type					Hermetically Sealed Scroll Type						
	Motor output	kW	(4.4x1)+(4.0x1)	(4.6x1)+(5.5x1)	(4.1x1)+(5.2x1)	(5.2x1)+(5.2x1)	(3.4x1)+(4.4x1)+(4.0x1)	(5.2x1)+(3.6x1)+(3.7x1)	(5.2x1)+(4.4x1)+(4.0x1)	(5.2x1)+(4.6x1)+(5.5x1)	(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.6x1)+(5.5x1)	(4.6x1)+(5.5x1)+(4.6x1)+(5.5x1)
Airflow rate		ℓ/s	3,883	4,466	2,749+2,966	2,966+2,966	2,616+3,883	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
		m³/min	233	268	165+178	178+178	157+233	178+233	178+233	178+268	233+233	233+233	233+268	268+268
Dimensions (HxWxD)		mm	1,657x1,240x765		(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x1,240x765)			(1,657x1,240x765)+(1,657x1,240x765)			
Machine weight		kg	300	320	195+195	195+195	185+300	195+285	195+300	195+320	285+300	300+300	300+320	320+320
Sound level		dB(A)	62	65	61	62	63	63	64	66	65	65	67	68
Sound power		dB(A)	84	87	82	82	85	84	85	88	87	87	89	90
Operation range	Cooling	°CDB	-5 to 49					-5 to 49						
	Heating	°CWB	-20 to 15.5					-20 to 15.5						
Refrigerant	Type		R-410A					R-410A						
	Charge	kg	11.7	11.8	6.0+6.3	6.3+6.3	5.9+11.7	6.3+10.4	6.3+11.7	6.3+11.8	10.4+11.7	11.7+11.7	11.7+11.8	11.8+11.8
Piping connections	Liquid	mm	ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ15.9(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)	ϕ19.1(Brazing)
	Gas	mm	ϕ28.6(Brazing)	ϕ28.6(Brazing)	ϕ28.6(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ34.9(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)	ϕ41.3(Brazing)

MODEL			RXYQ42TSY1A(E)	RXYQ44TSY1A(E)	RXYQ46TSY1A(E)	RXYQ48TSY1A(E)	RXYQ50TSY1A(E)
Combination units			RXYQ12TY1A(E)	RXYQ12TY1A(E)	RXYQ12TY1A(E)	RXYQ12TY1A(E)	RXYQ12TY1A(E)
			RXYQ12TY1A(E)	RXYQ12TY1A(E)	RXYQ16TY1A(E)	RXYQ18TY1A(E)	RXYQ18TY1A(E)
			RXYQ18TY1A(E)	RXYQ20TY1A(E)	RXYQ18TY1A(E)	RXYQ18TY1A(E)	RXYQ20TY1A(E)
Power supply			3-phase 4-wire system, 380–415 V, 50 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
Heating capacity		kcal/h	113,000	119,000	124,000	129,000	135,000
		Btu/h	447,000	471,000	491,000	512,000	536,000
		kW	131	138	144	150	157
Power consumption	Cooling	kW	33.4	36.0	37.4	39.8	42.4
	Heating	kW	33.2	35.6	37.0	39.3	41.7
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+300	195+195+320	195+285+300	195+300+300	195+300+320
Sound level		dB(A)	65	67	66	66	67
Sound power		dB(A)	86	88	87	88	89
Operation range	Cooling	°CDB	-5 to 49				
	Heating	°CWB	-20 to 15.5				
Refrigerant	Type		R-410A				
	Charge	kg	6.3+6.3+11.7	6.3+6.3+11.8	6.3+10.4+11.7	6.3+11.7+11.7	6.3+11.7+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)

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



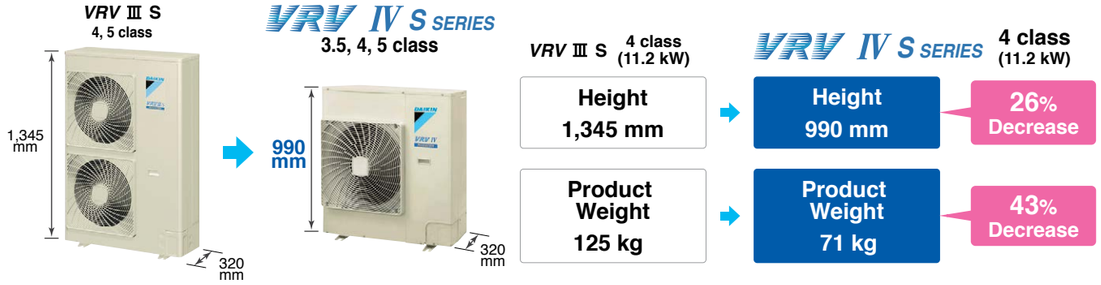
RXYMQ-A

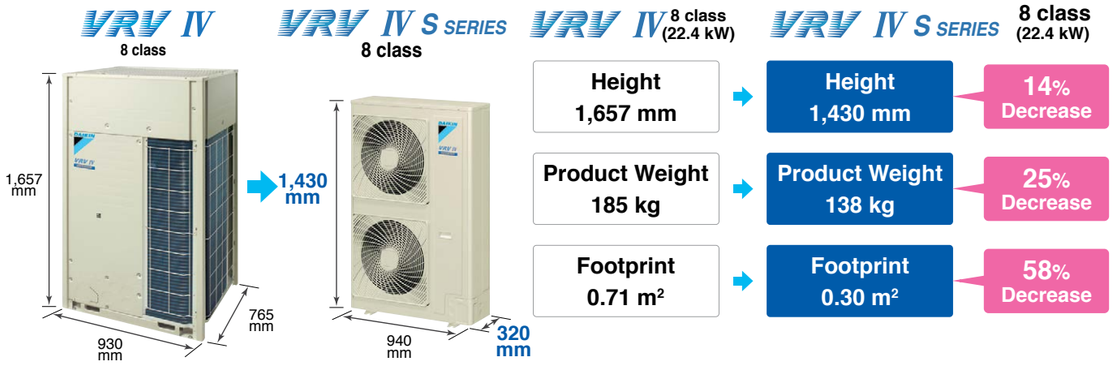
Heat Pump

3.5 class-9 class
(9 kW) (24 kW)

Compact & Lightweight Design

The new design has been optimised for the *VRV* IV S series, with the height of 3.5 class to 5 class 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 our range to include 3.5 class, 8 class and 9 class.

VRV IV S SERIES

3.5 class 4 class 5 class 6 class 8 class 9 class

Lineup

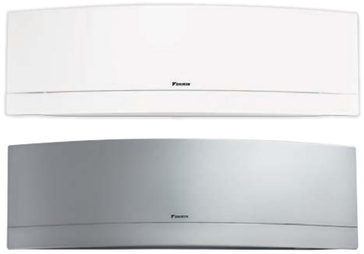
6 models

Model Name	RXYMQ3AV4A	RXYMQ4AV4A	RXYMQ5AV4A	RXYMQ6AV4A	RXYMQ8AY1	RXYMQ9AY1
Power Supply	1-phase, 230 – 240 V, 50 Hz				3-phase, 380 – 415 V, 50 Hz	
Capacity Range	3.5 class (9.0 kW)	4 class (11.2 kW)	5 class (14.0 kW)	6 class (16.0 kW)	8 class (22.4 kW)	9 class (24.0 kW)
Capacity Index	80	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



CTXG-P series indoor unit

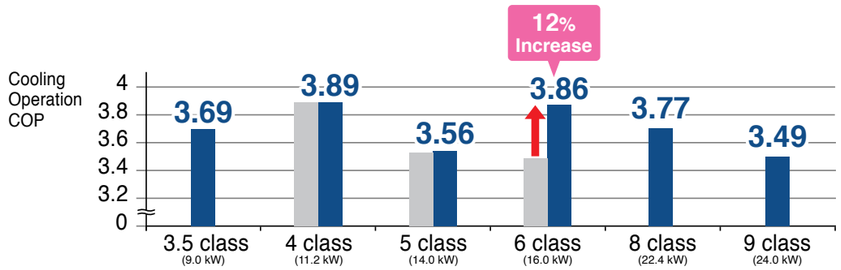
reddot award 2014 winner

German Design Award SPECIAL MENTION 2015

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 class.



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

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**

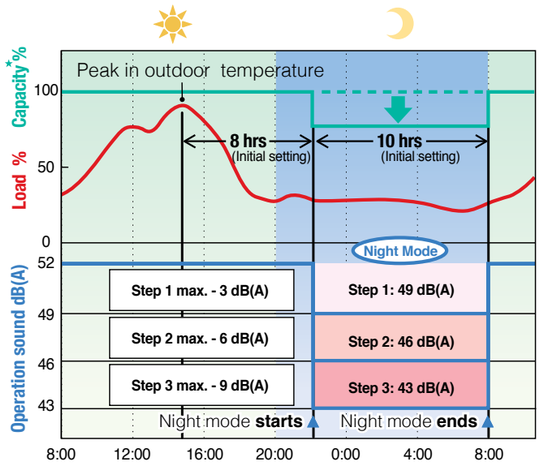
Starting time and ending time can be input. (An external control adaptor for outdoor unit, DTA104A53/61/62, and a locally obtained timer are necessary.)

Mode 3. **Combined mode**

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

*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

Mode 1. **Automatic mode**



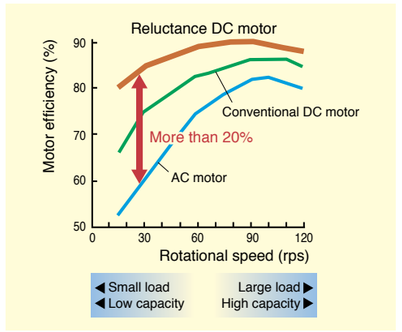
Note: • This function is available in setting at site.
• The relationship of outdoor temperature (load) and time shown in the graph is just an example.
* The capacity reduction rate differs depending on the operation sound level step selected.

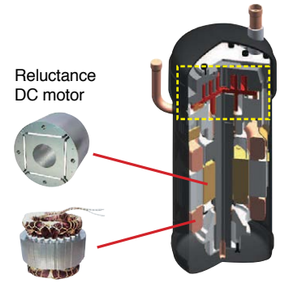
Collection of cutting-edge technologies realises efficient and quiet operation

The high efficiency compressor to achieve a higher COP

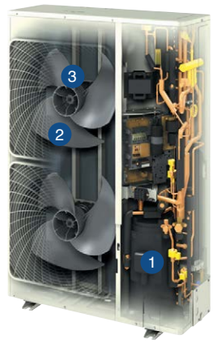
1 Compressor equipped with Reluctance DC motor

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.



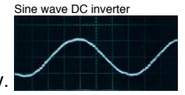


8, 9 Class



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.

Sine wave DC inverter



>> Smooth sine wave DC inverter

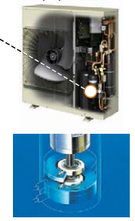
Use of an optimised sine wave smoothes motor rotation, further improving operating efficiency.

RXYMQ3, 4, 5, 6AV4A

3.5, 4, 5 Class

>> Swing compressor

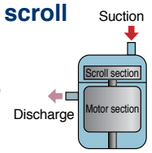
Daikin swing compressor has integrated the rotor with the blade, completely solving the refrigerant leakage and the wear problem caused by the mechanical friction between the rotor and the blade, which enhances the compressor efficiency and makes the compressor more quiet and durable.



RXYMQ8, 9AY1

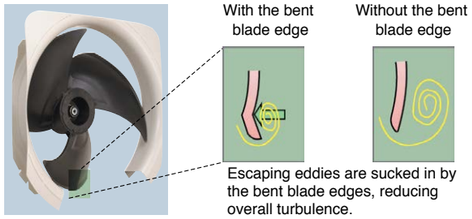
>> The structural scroll

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



2 Smooth Air Inlet Bell Mouth and Aero Spiral Fan

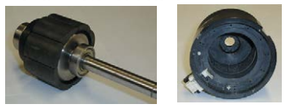
These two features work to reduce sound. Guides are added to the bell mouth intake to reduce turbulence in the airflow generated by fan suction. The Aero Spiral Fan features fan blades with the bent blade edges, further reducing turbulence.



3 DC fan motor

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

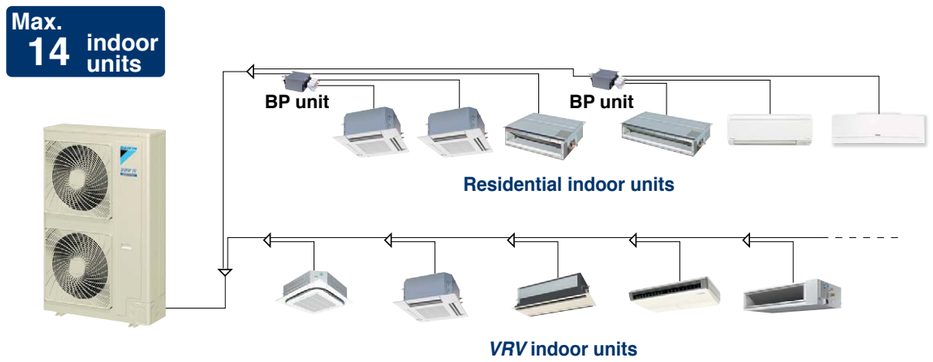
DC fan motor structure



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: Refer to page 71 for the maximum number of connectable indoor unit.



Automatic test operation

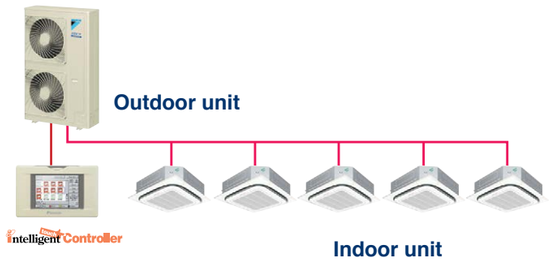
Simply press the test operation button and the unit performs an automatic system check, including wiring, stop valves, piping, and refrigerant charging amount. The results are returned automatically after the check finishes.

Simple wiring and piping connection

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

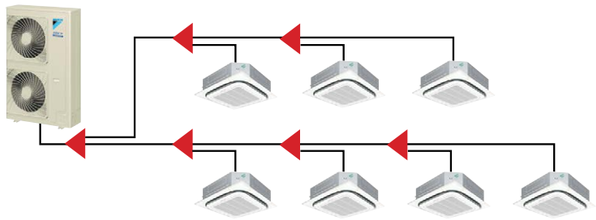
>> Super wiring system

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.



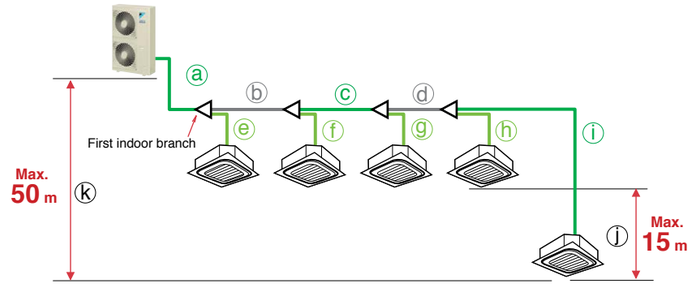
Long piping design possible

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

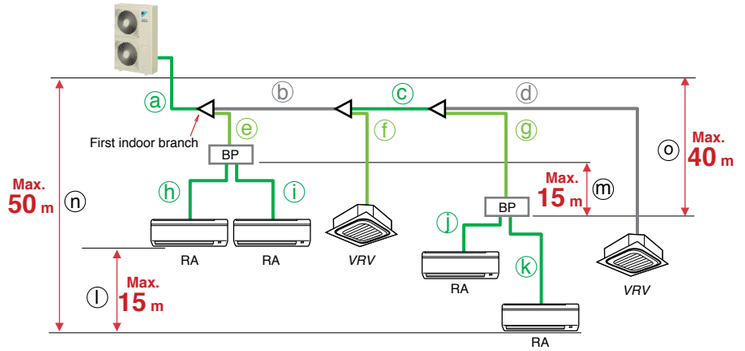


			3.5,4 class	5 class	6 class	8,9 class
Max. allowable piping length	Refrigerant piping length	a+b+c+d+i	50 m	70 m	120 m	100 m
	Equivalent piping length		65 m	90 m	150 m	130 m
	Total piping length	a+b+c+d+e+f+g+h+i	250 m	300 m	300 m	300 m
	Between the first indoor branch and the farthest indoor unit	b+c+d+i	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
	Between the outdoor unit and the indoor unit — 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



				3.5,4 class	5 class	6-9 class
Max. allowable piping length	Refrigerant piping length		a+b+c+g+k, a+b+c+d	50 m	70 m	100 m
	Equivalent piping length			65 m	90 m	125 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	BP unit - indoor unit	If indoor unit capacity index < 60	h, i, j, k	2 m–15 m	2 m–15 m	2 m–15 m
		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 included into one system, opening the door to stylish and quiet indoor units.

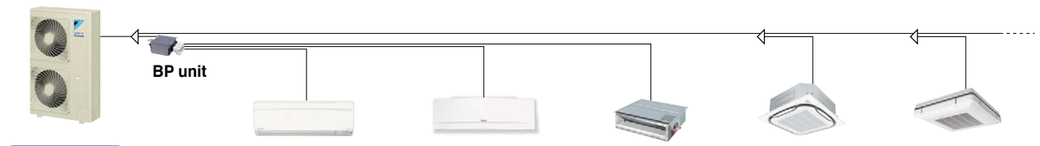
VRV indoor units

Type	Model Name	Capacity Range(kW)	20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
		Capacity Range(kW)	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14	16	16.2	18.0	20	22.4	28
		Capacity Index	20	25	31.3	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFQ-SVM			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		●	●	●	●	●											
4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		●	●	●	●	●	●		●		●						
Ceiling Mounted Cassette Corner	FXKQ-MAVE			●	●	●		●										
Slim Ceiling Mounted Duct (Standard Series)	FXDQ-PBVE	(700mm width type)	●	●	●													
	FXDQ-NBVE	(900/1,100 mm width type)				●	●	●										
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1		●	●	●	●	●	●										
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE		●	●	●	●	●	●		●	●	●	●					
Ceiling Concealed (Duct)	FXDYQ-MAV1									●	●	●		●				
Ceiling Mounted Duct	FXMQ-PVE		●	●	●	●	●	●		●	●	●	●					
	FXMQ-PV1A														●	●	●	●
Outdoor-Air Processing Unit	FXMQ-MFV1											●					●	
Ceiling Suspended	FXHQ-MAVE				●			●			●							
Wall Mounted	FXAQ-PVE		●	●	●	●	●	●										
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●										
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)	20	25	35	50	60	71
		Capacity Index	20	25	35	50	60	71
Ceiling Mounted Cassette (Compact Multi Flow)	FFQ-BV1B			●	●	●	●	
Slim Ceiling Mounted Duct	CDXS-EAVMA	(700 mm width type)		●	●			
	FDXS-CVMA	(900/1,100 mm width type)		●	●	●	●	
Wall Mounted	CTXG-PVMAW			●	●	●		
	CTXG-PVMAS			●	●	●		
	FTXS-KVMA		●	●	●			
	FTXS-KAVMA					●	●	●
Floor Standing	FVXS-KV1A			●	●	●		
Floor/Ceiling Suspended Dual	FLXS-BVMA			●				
	FLXS-GVMA				●	●	●	

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



*Refer to page 71 for the maximum number of connectable indoor units.

VRV IV S series Outdoor Units Heat Pump RXYMQ-A

MODEL			RXYMQ3AV4A	RXYMQ4AV4A	RXYMQ5AV4A	RXYMQ6AV4A	RXYMQ8AY1	RXYMQ9AY1
Power supply			1-phase, 230–240 V, 50 Hz				3-phase, 380–415 V, 50 Hz	
Cooling capacity		Kcal/h	7,740	9,600	12,000	13,800	19,300	20,600
		Btu/h	30,700	38,200	47,800	54,600	76,400	81,900
		kW	9.0	11.2	14.0	16.0	22.4	24.0
Heating capacity		Kcal/h	8,600	10,800	12,000	15,500	21,500	22,400
		Btu/h	34,100	42,700	47,800	61,400	85,300	88,700
		kW	10.0	12.5	14.0	18.0	25.0	26.0
Power consumption	Cooling	kW	2.44	2.88	3.93	4.14	5.94	6.88
	Heating		2.28	2.60	3.04	4.07	6.25	6.82
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		ℓ/s	1,267			1,766	2,333	
		m³/min	76			106	140	
Dimensions (H x W x D)		mm	990 x 940 x 320			1,345 x 900 x 320	1,430 x 940 x 320	
Machine weight		kg	71		82	104	138	
Sound level (Cooling/Heating)		dB(A)	51/52	52/54	53/54	55/56	57/58	58/59
Sound power		dB(A)	69	70	71	73	75	76
Operation range	Cooling	°CDB	-5 to 46					
	Heating	°CWB	-20 to 15.5					
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.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- Refrigerant charge is required.

Outdoor unit combinations

Model	kW	Class	Capacity index	Total capacity index of connectable indoor units				Maximum number of connectable indoor units
				Combination (%)				
				50%*1	80%*2	100%*3	130%	
RXYMQ3AV4A	9.0	3.5	80	40	64	80	104	5
RXYMQ4AV4A	11.2	4	100	50	80	100	130	6
RXYMQ5AV4A	14.0	5	125	62.5	100	125	162.5	8
RXYMQ6AV4A	16.0	6	150	75	120	150	195	9
RXYMQ8AY1	22.4	8	200	100	160	200	260	13
RXYMQ9AY1	24.0	9	215	107.5	172	215	280	14

Note: *1. When only *VRV* indoor units are connected, connection ratio must be 50% to 130%.
*2. When a mixed combination of *VRV* and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 80% to 130%.
*3. When outdoor-air processing unit is connected, connection ratio must be 50% to 100%. A mixed combination of the outdoor-air processing unit and standard indoor unit in one system is not allowed.

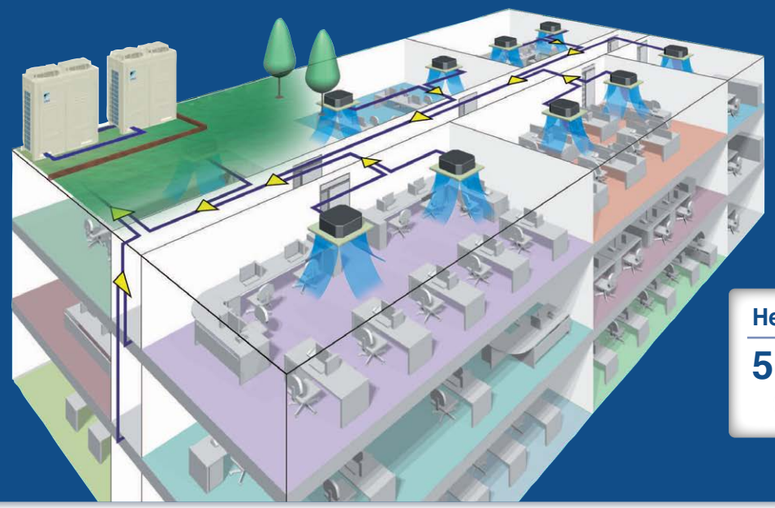
VRV III S series Outdoor Units Heat Pump RXYMQ-P

MODEL			RXYMQ5PV4A
Power supply			1-phase, 230–240 V, 50 Hz
Cooling capacity		Kcal/h	12,000
		Btu/h	47,800
		kW	14.0
Heating capacity		Kcal/h	13,800
		Btu/h	54,600
		kW	16.0
Power consumption	Cooling	kW	3.97
	Heating		4.09
Capacity control		%	24 to 100
Casing colour			Ivory white (5Y7.5/1)
Compressor	Type		Hermetically sealed scroll type
	Motor output	kW	3.0
Airflow rate		ℓ/s	1,767
		m³/min	106
Dimensions (H x W x D)		mm	1,345 x 900 x 320
Machine weight		kg	125
Sound level (Cooling/Heating)		dB(A)	51/53
Sound power		dB(A)	69
Operation range	Cooling	°CDB	-5 to 46
	Heating	°CWB	-20 to 15.5
Refrigerant	Type		R-410A
	Charge	kg	4.0
Piping connections	Liquid	mm	ϕ 9.5 (Flare)
	Gas		ϕ 15.9 (Flare)

Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- Refrigerant charge is required.

Please refer to the *VRV* III S series brochure and Engineering Data Book for more information.

VRVIII-Q For quick & high quality replacement use



RQYQ-P
RQCEQ-P

Heat Pump / Heat Recovery

5 class-48 class
(14 kW) (135 kW)

Quicker, easier installation of energy efficient air conditioning

*VRV*III-Q for replacement use can be installed using existing refrigerant piping thanks to its unique refrigerant control system without the need for additional special equipment or installation work. This enables renovation of the air conditioning system to be carried out quickly and smoothly and minimises any inconvenience to the operations and users in the building.

The VRVIII-Q concept

Simple use of existing refrigerant piping.

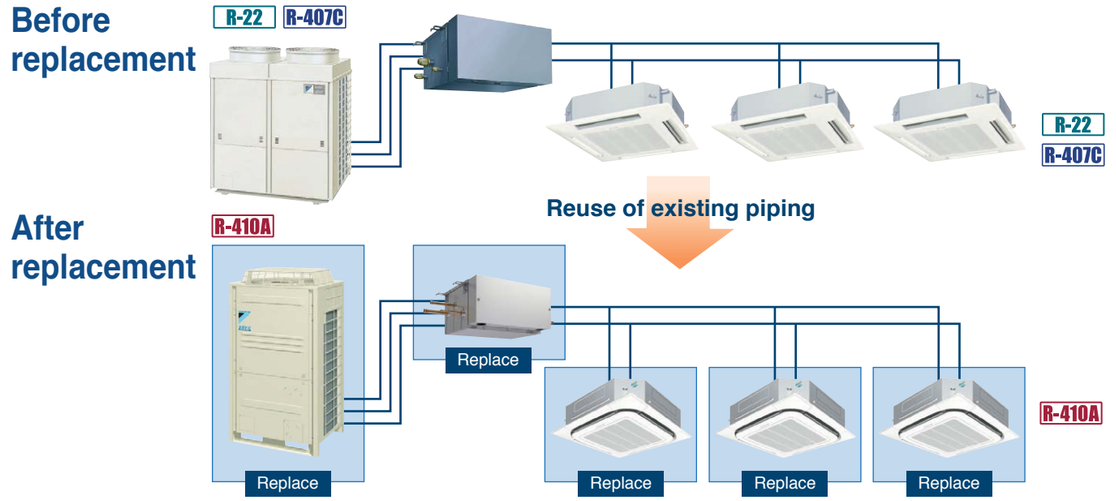
In the past, special equipment and work was needed to clean pipes when using existing piping, but this is no longer required. A new function will automatically flush the system and deposit the mineral oil in a 'mixing unit'.

Refrigerant charging completed with just one switch.

Through a simplified test operation, system flushing and refrigerant charging is performed and the exact charge required is automatically determined by the outdoor unit, thus simplifying the testing and commissioning process.

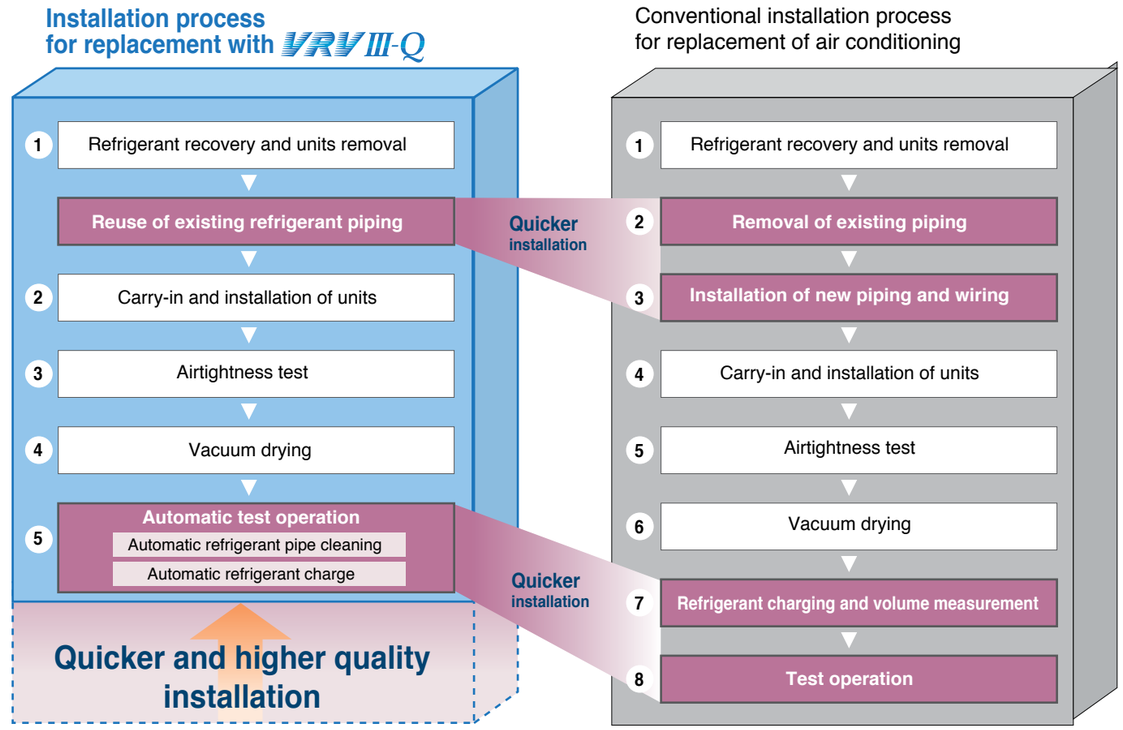
Automatic measurement of the exact volume necessary for refrigerant charging.

The exact volume of refrigerant required, which can be difficult to assess for existing piping, is measured automatically. Charging from a gas cylinder with the exact volume necessary supports high-quality installation.



* It is not possible to combine old R-22 and new R-410A indoor units in one system due to incompatibility of communication. It is not possible to keep R-407C indoor units.
* Conventional BS units need to be replaced in case of Heat Recovery system.

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



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

High COP

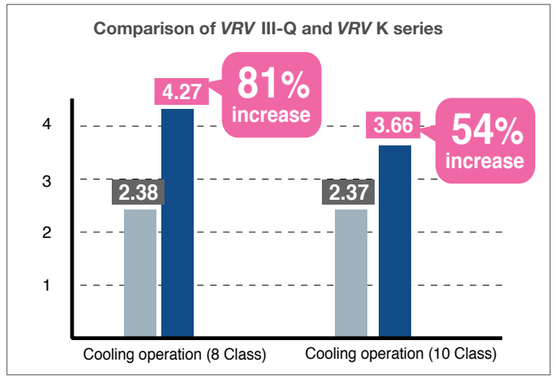
Energy Efficient with high COP

We have reached a higher level of efficiency, thanks to advanced features such as a redesigned heat exchanger, grille and the introduction of dual DC fans.

Conventional *VRV* K series
RSX(Y)8, 10K
(model from 16 years previous)

VRV III-Q
RQYQ8, 10P

• Cooling operating conditions: Indoor temp. of 27°CDB, 19.0°CWB, and outdoor temp. of 35°CDB.



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

Conventional
VRV K PLUS series: RX(Y)16K
(model from 16 years previous)
16 Class outdoor unit

Installation space
2.25 m²

VRV III-Q : RQYQ16P
16 Class outdoor unit

Installation space
0.95 m²

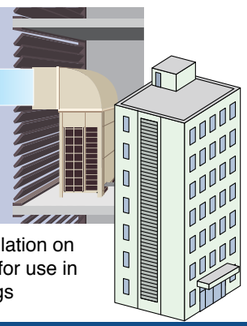
58% less space

High external static pressure 78.4 Pa

Conventional *VRV* K series
(model from 16 years previous)

49.0 Pa → VRV III-Q 78.4 Pa

External static pressure
78.4 Pa
Easier discharge hood connection (field setting)



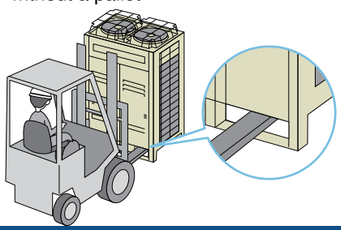
Easy installation on each floor for use in tall buildings

Small and light, significantly reducing constraints during carry-in

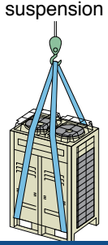
Can be transported easily by elevator and carried on stairs.

*Available for the RQYQ140 and RQCEQ models.

Can be carried on a fork-lift without a pallet



Easy belt suspension



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!

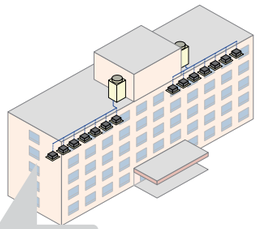
The number of connectable indoor units has been increased from 30 to 64.

Conventional
VRV K PLUS series: RX(Y)24–30K
(model from 16 years previous)

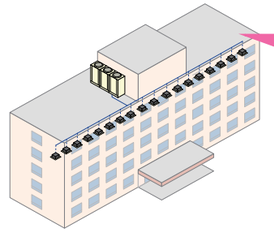
Up to **30** indoor units connectable

VRV III-Q : RQYQ40–48P

Up to **64** indoor units connectable



Where several systems used to be required ...



Condensed into a single system

Simple to deploy even in long, wide buildings with many small rooms

Enables increased capacity

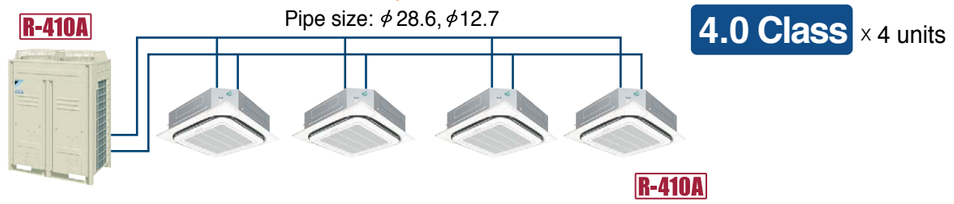
System can be upgraded using existing piping

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

Before replacement
10 Class

Reuse of existing piping

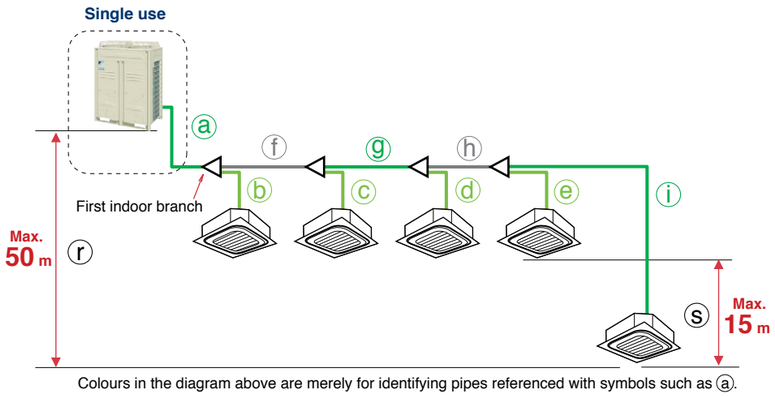
After replacement
VRV III-Q
16 Class



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

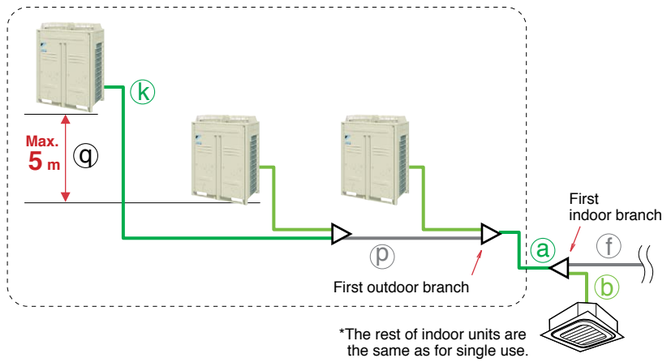
Piping limits for reuse of existing piping

Single use



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

Multiple use



*The rest of indoor units are the same as for single use.

			Actual piping length	Example	Equivalent piping length
Maximum allowable piping length	Refrigerant piping length	RQYQ8-48P	**150** m	a+f+g+h+i	**175** m
		RQYQ140P, RQCEQ-P	**120** m		**150** 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		**40** m	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		**15** m	s
	Between the outdoor units and the indoor units	If the outdoor unit is above.	**50** m	r
		If the outdoor unit is below.	**40** m	r

Reusability of existing piping for *VRV* III-Q

Heat Pump

Type of piping	Class	Piping size: Liquid ϕ6.4	ϕ9.5	ϕ12.7	ϕ15.9	ϕ19.1	ϕ22.2	Gas ϕ12.7	ϕ15.9	ϕ19.1	ϕ22.2	ϕ25.4	ϕ28.6	ϕ34.9	ϕ41.3	ϕ54.1
Main piping	5 Class	×	S○●		×	×	×	×	S○	●			×	×	×	×
	8 Class	×	S○	●		×	×	×	×	S○		●	●	×	×	×
	10 Class	×	S○	●		×	×	×	×	×	S○		●	×	×	×
	12 Class	×	×	S○	●	×	×	×	×	×	×	×	S○	×●	×	×
	14 Class	×	×	S○	●	×	×	×	×	×	×	×	S○	●	×	×
	16 Class	×	×	S○	●	×	×	×	×	×	×	×	S○	●	×	×
	18 Class	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×	×
	20 Class	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×	×
	22 Class	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×	×
	24 Class	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●	×
	26 Class	×	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×
	28 Class	×	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×
	30 Class	×	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×
	32 Class	×	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×
	34 Class	×	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×
	36 Class	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
	38 Class	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
	40 Class	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
	42 Class	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
	44 Class	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
	46 Class	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
	48 Class	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
From REFNET to REFNET*1	< 100	×	S○●		×	×	×	×	S○●			×	×	×	×	×
	100 ≤ X < 150	×	S○●		×	×	×	×	S○	●	×	×	×	×	×	×
	150 ≤ X < 160	×	S○●		×	×	×	×		S○●			×	×	×	×
	160 ≤ X < 200	×	S○	●	×	×	×	×	×	S○		●	×	×	×	×
	200 ≤ X < 290	×	S○	●		×	×	×	×	×	S○	●		×	×	×
	290 ≤ X < 330	×	×	S○●		×	×	×	×	×	×	●	S○		×	×
	330 ≤ X < 420	×	×	S○	●		×	×	×	×	×	●	S○		×	×
	420 ≤ X < 480	×	×	S	○●		×	×	×	×	×	×	S○	●	×	×
	480 ≤ X < 640	×	×	S	○	●	×	×	×	×	×	×	S○	●	×	×
	640 ≤ X < 900	×	×	×	S	○●		×	×	×	×	×	×	S○	●	
	900 ≤ X < 920	×	×	×	S	○	●	×	×	×	×	×	×	S○		●
	920 ≤	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	●
From REFNET to indoor unit*2	20–40 Class	S○●		×	×	×	×	S○●		×	×	×	×	×	×	×
	50 Class	S○	●	×	×	×	×	S○	●	×	×	×	×	×	×	×
	63 Class	×	S○●		×	×	×		S○●		×	×	×	×	×	×
	80 Class	×	S○●		×	×	×	×	S○●		×	×	×	×	×	×
	100–125 Class	×	S○●		×	×	×	×	S○	●			×	×	×	×
	140–145 Class	×	S○		×	×	×	×	S○				×	×	×	×
	180 Class	×	S○		×	×	×	×	×	S○			×	×	×	×
	200 Class	×	S○	●	×	×	×	×	×	S○		●		×	×	×
	250 Class	×	S○	●	×	×	×	×	×	×	S○		●	×	×	×

● : Piping size of conventional R-22, R-407C model
○ : Piping size of conventional R-410A model
S : Standard piping size of *VRV* III-Q
: Possible
: Standard piping size of *VRV* III-Q. However, when equivalent piping length between outdoor unit and indoor unit is 90 m or more, size of main piping must be increased.
× : Not possible

Heat Recovery

Type of piping	Class	Piping size: Liquid ϕ6.4	ϕ9.5	ϕ12.7	ϕ15.9	ϕ19.1	ϕ22.2	Suction gas ϕ12.7	ϕ15.9	ϕ19.1	ϕ22.2	ϕ25.4	ϕ28.6	ϕ34.9	ϕ41.3	High and low pressure gas ϕ9.5	ϕ12.7	ϕ15.9	ϕ19.1	ϕ22.2	ϕ25.4	ϕ28.6	ϕ34.9
Main piping	10 Class	×	S○	●	×	×		×	×	×	S○		●	×	×	×	×	×	S○●		×	×	×
	13 Class	×	×	S		×	×	×	×	×	×	S		×	×	×	×	×	S		×	×	×
	16 Class	×	×	S○	●		×	×	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×	×
	18 Class	×	×	×	S○	●	×	×	×	×	×	S○	●	×	×	×	×	×	×	S○	●	×	×
	20 Class	×	×	×	S○	●	×	×	×	×	×	S○	●	×	×	×	×	×	×	S	●	○	×
	22 Class	×	×	×	S○		×	×	×	×	×	S○		×	×	×	×	×	×	×	S	○	×
	24 Class	×	×	×	S○	●	×	×	×	×	×	S	○	×●	×	×	×	×	×	×	S	○●	×
	26 Class	×	×	×	×	S○	●	×	×	×	×	×	S○	●	×	×	×	×	×	×	S	○●	×
	28 Class	×	×	×	×	S○	●	×	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	×●
	30 Class	×	×	×	×	S○	●	×	×	×	×	×	S○	●	×	×	×	×	×	×	×	S○	×●
From REFNET to REFNET*1	< 50	S●	○	×	×	×	×	S●	○	×	×	×	×	×	×	S●	○	×	×	×	×	×	×
	50 ≤ X < 100	×	S○●		×	×	×	×	S○●		×	×	×	×	×	×	S○●		×	×	×	×	×
	100 ≤ X < 150	×	S○●		×	×	×	×	S○	●			×	×	×	×	S○	●	×	×	×	×	×
	150 ≤ X < 160	×	S○●		×	×	×	×	×	S○●			×	×	×	×	×	S○●		×	×	×	×
	160 ≤ X < 200	×	S○	●	×	×	×	×	×	S○		●	×	×	×	×	×	S○	●	×	×	×	×
	200 ≤ X < 290	×	S○	●		×	×	×	×	×	S○	●		×	×	×	×	×	S○●		×	×	×
	290 ≤ X < 330	×	×	S○●		×	×	×	×	×	×	S●	○	×	×	×	×	×	S○●		×	×	×
	330 ≤ X < 420	×	×	S○	●		×	×	×	×	×	S○	× ●	×	×	×	×	×	S○		●	×	×
	420 ≤ X < 480	×	×	×	S○●		×	×	×	×	×	S○	●	×	×	×	×	×	×	×	S●	○	×
	480 ≤ X < 640	×	×	×	S○	●	×	×	×	×	×	S○	●	×	×	×	×	×	×	×	S●	○	×
	640 ≤ X < 700	×	×	×	×	S○●		×	×	×	×	×	S○	●	×	×	×	×	×	×	S●	○	×
	700 ≤ X < 900	×	×	×	×	S○●		×	×	×	×	×	S○	●	×	×	×	×	×	×	S	○	×●
	900 ≤	×	×	×	×	S○●		×	×	×	×	×	S	○●	×	×	×	×	×	×	×	S○	×●
From BS to indoor unit*2	20-40 Class	S○●		×	×	×	×	S○●		×	×	×	×	×	×								
	50 Class	S○	●	×	×	×	×	S○	●	×	×	×	×	×	×								
	63 Class	×	S○●		×	×	×		S○●		×	×	×	×	×								
	80 Class	×	S○●		×	×	×	×	S○●		×	×	×	×	×								
	100-125 Class	×	S○●		×	×	×	×	S○	●			×	×	×								
	140-145 Class	×	S○		×	×	×	×	S○				×	×	×								
	180 Class	×	S○		×	×	×	×	×	S○			×	×	×								
	200 Class	×	S○	●		×	×	×	×	S○		●		×	×								
	250 Class	×	S○	●		×	×	×	×	×	S○		●	×	×								

● : Piping size of conventional R-22, R-407C model
○ : Piping size of conventional R-410A model
S : Standard piping size of *VRV* III-Q
: Possible
: Standard piping size of *VRV* III-Q. However, when equivalent piping length between outdoor unit and indoor unit is 90 m or more, size of main piping must be increased.
× : 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 BS to indoor unit depends on the capacity of the connected indoor unit. It cannot exceed piping size of upstream side.

System lineup for replacement use

Outdoor units

Heat Pump

5 Class

RQYQ140PY1

8, 10,12 Class

RQYQ8PY1B
RQYQ10PY1B
RQYQ12PY1B

14, 16 Class

RQYQ14PY1B
RQYQ16PY1B

18, 20, 22, 24 Class

RQYQ18PY1B RQYQ22PY1B
RQYQ20PY1B RQYQ24PY1B

26, 28 Class

RQYQ26PY1B
RQYQ28PY1B

30, 32 Class

RQYQ30PY1B
RQYQ32PY1B

34, 36, 38, 40 Class

RQYQ34PY1B RQYQ38PY1B
RQYQ36PY1B RQYQ40PY1B

42, 44 Class

RQYQ42PY1B
RQYQ44PY1B

46, 48 Class

RQYQ46PY1B
RQYQ48PY1B

Outdoor unit combinations

Class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2 *3 Combination (%)			Maximum number of connectable indoor units
						50%	100%	130%	
5	**14.0**	125	RQYQ140P	RQYQ140P	–	62.5	125	162.5	8
8	**22.4**	200	RQYQ8P	RQYQ8P	–	100	200	260	13
10	**28.0**	250	RQYQ10P	RQYQ10P	–	125	250	325	16
12	**33.5**	300	RQYQ12P	RQYQ12P	–	150	300	390	19
14	**40.0**	350	RQYQ14P	RQYQ14P	–	175	350	455	22
16	**45.0**	400	RQYQ16P	RQYQ16P	–	200	400	520	26
18	**50.4**	450	RQYQ18P	RQYQ8P + RQYQ10P	BHFP22P100	225	450	585	29
20	**55.9**	500	RQYQ20P	RQYQ8P + RQYQ12P		250	500	650	32
22	**61.5**	550	RQYQ22P	RQYQ10P + RQYQ12P		275	550	715	35
24	**67.0**	600	RQYQ24P	RQYQ12P + RQYQ12P		300	600	780	39
26	**73.0**	650	RQYQ26P	RQYQ10P+ RQYQ16P		325	650	845	42
28	**78.5**	700	RQYQ28P	RQYQ12P + RQYQ16P		350	700	910	45
30	**85.0**	750	RQYQ30P	RQYQ14P + RQYQ16P		375	750	975	48
32	**90.0**	800	RQYQ32P	RQYQ16P + RQYQ16P		400	800	1,040	52
34	**96.0**	850	RQYQ34P	RQYQ10P+ RQYQ10P + RQYQ14P	BHFP22P151	425	850	1,105	55
36	**101**	900	RQYQ36P	RQYQ10P + RQYQ10P + RQYQ16P		450	900	1,170	58
38	**107**	950	RQYQ38P	RQYQ10P + RQYQ12P+ RQYQ16P		475	950	1,235	61
40	**112**	1,000	RQYQ40P	RQYQ12P+ RQYQ12P+ RQYQ16P		500	1,000	1,300	64
42	**118**	1,050	RQYQ42P	RQYQ10P + RQYQ16P+ RQYQ16P		525	1,050	1,365	
44	**124**	1,100	RQYQ44P	RQYQ12P+ RQYQ16P + RQYQ16P		550	1,100	1,430	
46	**130**	1,150	RQYQ46P	RQYQ14P + RQYQ16P+ RQYQ16P		575	1,150	1,495	
48	**135**	1,200	RQYQ48P	RQYQ16P + RQYQ16P + RQYQ16P		600	1,200	1,560	

*1 For multiple connections of 18 Class 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%.

System lineup for replacement use

Outdoor units

Heat Recovery

10, 13 Class

RQCEQ280PY1
RQCEQ360PY1

16, 18, 20, 22 Class

RQCEQ460PY1
RQCEQ500PY1
RQCEQ540PY1
RQCEQ636PY1

24, 26, 28, 30 Class

RQCEQ712PY1
RQCEQ744PY1
RQCEQ816PY1
RQCEQ848PY1

Outdoor unit combinations

Class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2 *3 Combination (%)			Maximum number of connectable indoor units
						50%	100%	130%	
10	**28.0**	250	RQCEQ280P	RQEQ140P+RQEQ140P	BHFP26P36C	125	250	325	16
13	**36.0**	325	RQCEQ360P	RQEQ180P+RQEQ180P		162.5	325	422.5	21
16	**46.0**	400	RQCEQ460P	RQEQ140P+RQEQ140P +RQEQ180P	BHFP26P63C	200	400	520	26
18	**50.0**	450	RQCEQ500P	RQEQ140P+RQEQ180P +RQEQ180P		225	450	585	29
20	**54.0**	500	RQCEQ540P	RQEQ180P+RQEQ180P +RQEQ180P		250	500	650	32
22	**63.6**	550	RQCEQ636P	RQEQ212P+RQEQ212P +RQEQ212P		275	550	715	35
24	**71.2**	600	RQCEQ712P	RQEQ140P+RQEQ180P +RQEQ180P+RQEQ212P	BHFP26P84C	300	600	780	39
26	**74.4**	650	RQCEQ744P	RQEQ140P+RQEQ180P +RQEQ212P+RQEQ212P		325	650	845	42
28	**81.6**	700	RQCEQ816P	RQEQ180P+RQEQ212P +RQEQ212P+RQEQ212P		350	700	910	45
30	**84.8**	750	RQCEQ848P	RQEQ212P+RQEQ212P +RQEQ212P+RQEQ212P		375	750	975	48

*1 The outdoor unit multi connection piping kit (separately sold) is required for multiple connections.
*2 Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor units.
*3 For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outdoor units.
*4 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%.

Indoor Unit Lineup

Type	Model Name	Capacity Range(kW)	20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
		Capacity Index	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14	16	16.2	18.0	20	22.4	28
		Capacity Index	20	25	31.3	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFQ-SVM			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		●	●	●	●	●											
4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		●	●	●	●	●	●		●		●						
Ceiling Mounted Cassette Corner	FXKQ-MAVE			●	●	●		●										
Slim Ceiling Mounted Duct (Standard Series)	FXDQ-PBVE	 (700mm width type)	●	●	●													
	FXDQ-NBVE	 (900/1,100 mm width type)				●	●	●										
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1		●	●	●	●	●	●										
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE		●	●	●	●	●	●		●	●	●	●					
Ceiling Concealed (Duct)	FXDYQ-MAV1									●	●	●		●				
Ceiling Mounted Duct	FXMQ-PVE		●	●	●	●	●	●		●	●	●	●					
	FXMQ-PV1A														●	●	●	●
Outdoor-Air Processing Unit	FXMQ-MFV1											●					●	●
Ceiling Suspended	FXHQ-MAVE				●			●			●							
Wall Mounted	FXAQ-PVE		●	●	●	●	●	●										
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●										
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															

VRV III-Q Outdoor Units Heat Pump RQYQ-P

MODEL			RQYQ140PY1	RQYQ8PY1B	RQYQ10PY1B	RQYQ12PY1B	RQYQ14PY1B	RQYQ16PY1B
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz					
Cooling capacity (*1)(*2)		kcal/h(*1)	12,100	19,400	24,300	29,000	34,600	39,000
		Btu/h(*1)	48,100	76,800	96,200	115,000	137,000	155,000
	kW	(*1)	14.1	22.5	28.2	33.7	40.2	45.3
		(*2)	14.0	22.4	28.0	33.5	40.0	45.0
Heating capacity		kcal/h	13,800	21,500	27,100	32,300	38,700	43,000
		Btu/h	54,600	85,300	107,000	128,000	154,000	171,000
		kW	16.0	25.0	31.5	37.5	45.0	50.0
Power consumption	Cooling (*2)	kW	3.52	5.24	7.64	10.1	11.6	13.6
	Heating		4.00	6.42	8.59	10.2	12.2	13.6
Capacity control		%	25-100	20-100	14-100	14-100	10-100	10-100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed scroll type					
	Motor output	kW	2.8×1	4.5×1	(1.4+4.5)×1	(3.3+4.5)×1	(1.6+4.5+4.5)×1	(2.7+4.5+4.5)×1
Airflow rate		ℓ/s	1,583	3,000	3,083	3,333	3,883	3,883
		m³/min	95	180	185	200	233	233
Dimensions (H×W×D)		mm	1,680×635×765	1,680×930×765			1,680×1,240×765	
Machine weight		kg	175	230	284	284	381	381
Sound level		dB(A)	54	57	58	60	60	60
Operation range	Cooling	°CDB	–5 to 43					
	Heating	°CWB	–20 to 15.5					
Refrigerant	Type		R-410A					
	Charge	kg	11.1	10.8	11.7	11.7	11.7	11.7
Piping connections	Liquid	mm	ϕ 9.5 (Brazing)	ϕ 9.5 (Brazing)	ϕ 9.5 (Brazing)	ϕ 12.7 (Brazing)	ϕ 12.7 (Brazing)	ϕ 12.7 (Brazing)
	Gas		ϕ 15.9 (Brazing)	ϕ 19.1 (Brazing)	ϕ 22.2 (Brazing)	ϕ 28.6 (Brazing)	ϕ 28.6 (Brazing)	ϕ 28.6 (Brazing)

MODEL		RQYQ18PY1B	RQYQ20PY1B	RQYQ22PY1B	RQYQ24PY1B	RQYQ26PY1B	RQYQ28PY1B	RQYQ30PY1B	RQYQ32PY1B
Combination units		RQYQ8PY1B RQYQ10PY1B	RQYQ8PY1B RQYQ12PY1B	RQYQ10PY1B RQYQ12PY1B	RQYQ12PY1B RQYQ12PY1B	RQYQ10PY1B RQYQ16PY1B	RQYQ12PY1B RQYQ16PY1B	RQYQ14PY1B RQYQ16PY1B	RQYQ16PY1B RQYQ16PY1B
Power supply		3-phase 4-wire system, 380–415 V, 50 Hz							
Cooling capacity (*1)(*2)	kcal/h(*1)	43,600	48,300	53,200	58,000	63,300	67,900	73,500	78,000
	Btu/h(*1)	173,000	192,000	211,000	230,000	251,000	270,000	292,000	310,000
	kW (*1)	50.7	56.2	61.9	67.4	73.5	79.0	85.5	90.6
	kW (*2)	50.4	55.9	61.5	67.0	73.0	78.5	85.0	90.0
Heating capacity	kcal/h	48,600	53,800	59,300	64,500	70,100	75,300	81,700	86,000
	Btu/h	193,000	213,000	235,000	256,000	278,000	299,000	324,000	341,000
	kW	56.5	62.5	69.0	75.0	81.5	87.5	95.0	100
Power consumption Cooling (*2)	kW	12.9	15.4	17.8	20.2	21.3	23.7	25.2	27.2
Power consumption Heating	kW	15.1	16.7	18.8	20.4	22.2	23.8	25.8	27.2
Capacity control	%	9-100	8-100	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							
Compressor Motor output	kW	(4.5×1)+ ((1.4+4.5)×1)	(4.5×1)+ ((3.3+4.5)×1)	((1.4+4.5)×1)+ ((3.3+4.5)×1)	((3.3+4.5)×1)+ ((3.3+4.5)×1)	((1.4+4.5)×1)+ ((2.7+4.5+4.5)×1)	((3.3+4.5)×1)+ ((2.7+4.5+4.5)×1)	((1.6+4.5+4.5)×1)+ ((2.7+4.5+4.5)×1)	((2.7+4.5+4.5)×1)+ ((2.7+4.5+4.5)×1)
Airflow rate	ℓ/s	3,000+3,083	3,000+3,333	3,083+3,333	3,333+3,333	3,000+3,883	3,333+3,883	3,883+3,883	3,883+3,883
	m³/min	180+185	180+200	185+200	200+200	185+233	200+233	233+233	233+233
Dimensions (H×W×D)	mm	(1,680×930×765)+(1,680×930×765)				(1,680×930×765)+(1,680×1,240×765)		(1,680×1,240×765)+(1,680×1,240×765)	
Machine weight	kg	230+284	230+284	284+284	284+284	284+381	284+381	381+381	381+381
Sound level	dB(A)	61	62	63	63	63	63	63	63
Operation range Cooling	°CDB	–5 to 43							
Operation range Heating	°CWB	–20 to 15.5							
Refrigerant Type		R-410A							
Refrigerant Charge	kg	10.8+11.7	10.8+11.7	11.7+11.7	11.7+11.7	11.7+11.7	11.7+11.7	11.7+11.7	11.7+11.7
Piping connections 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)	ϕ 19.1 (Brazing)
Piping connections Gas		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)

Note: Specifications are based on the following conditions;
- Cooling:(*1) Indoor temp.: 27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
  (*2) Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

VRV III-Q Outdoor Units Heat Pump RQYQ-P

MODEL	Combination units		RQYQ34PY1B	RQYQ36PY1B	RQYQ38PY1B	RQYQ40PY1B	RQYQ42PY1B	RQYQ44PY1B	RQYQ46PY1B	RQYQ48PY1B
			RQYQ10PY1B RQYQ10PY1B RQYQ14PY1B	RQYQ10PY1B RQYQ10PY1B RQYQ16PY1B	RQYQ10PY1B RQYQ12PY1B RQYQ16PY1B	RQYQ12PY1B RQYQ12PY1B RQYQ16PY1B	RQYQ10PY1B RQYQ16PY1B RQYQ16PY1B	RQYQ12PY1B RQYQ16PY1B RQYQ16PY1B	RQYQ14PY1B RQYQ16PY1B RQYQ16PY1B	RQYQ16PY1B RQYQ16PY1B RQYQ16PY1B
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz							
Cooling capacity (*1)(*2)		kcal/h(*1)	83,200	87,700	92,900	97,200	102,000	108,000	113,000	117,000
		Btu/h(*1)	329,000	348,000	368,000	386,000	406,000	427,000	447,000	464,000
		kW (*1)	96.6	102	108	113	119	125	131	136
		kW (*2)	96.0	101	107	112	118	124	130	135
Heating capacity		kcal/h	92,700	97,200	102,000	108,000	114,000	119,000	125,000	129,000
		Btu/h	368,000	386,000	406,000	427,000	450,000	471,000	495,000	521,000
		kW	108	113	119	125	132	138	145	150
Power consumption	Cooling (*2)	kW	26.9	28.9	31.4	33.8	34.9	35.3	38.8	40.8
	Heating	kW	29.4	30.8	32.4	34.0	35.8	36.0	39.4	40.8
Capacity control		%	5-100	4-100	4-100	4-100	4-100	4-100	3-100	3-100
Casing colour			Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically sealed scroll type							
	Motor output	kW	((1.4+4.5)x1)+((1.4+4.5)x1)+((1.6+4.5+4.5)x1)	((1.4+4.5)x1)+((1.4+4.5)x1)+((2.7+4.5+4.5)x1)	((1.4+4.5)x1)+((3.3+4.5)x1)+((2.7+4.5+4.5)x1)	((3.3+4.5)x1)+((3.3+4.5)x1)+((2.7+4.5+4.5)x1)	((1.4+4.5)x1)+((2.7+4.5+4.5)x1)+((2.7+4.5+4.5)x1)	((3.3+4.5)x1)+((2.7+4.5+4.5)x1)+((2.7+4.5+4.5)x1)	((1.6+4.5+4.5)x1)+((2.7+4.5+4.5)x1)+((2.7+4.5+4.5)x1)	((2.7+4.5+4.5)x1)+((2.7+4.5+4.5)x1)+((2.7+4.5+4.5)x1)
Airflow rate		ℓ/s	3,083+3,083+3,883	3,083+3,083+3,883	3,083+3,333+3,883	3,333+3,333+3,883	3,083+3,883+3,883	3,333+3,883+3,883	3,883+3,883+3,883	3,883+3,883+3,883
		m³/min	185+185+233	185+185+233	185+200+233	200+200+233	185+233+233	200+233+233	233+233+233	233+233+233
Dimensions (HxWxD)		mm	(1,680×930×765)+(1,680×930×765)+(1,680x1,240x765)				(1,680x930x765)+(1,680x1,240x765)+(1,680x1,240x765)		(1,680x1,240x765)+(1,680x1,240x765)+(1,680x1,240x765)	
Machine weight		kg	284+284+381	284+284+381	284+284+381	284+284+381	284+381+381	284+381+381	381+381+381	381+381+381
Sound level		dB(A)	64	64	65	65	65	65	65	65
Operation range	Cooling	°CDB	–5 to 43							
	Heating	°CWB	–20 to 15.5							
Refrigerant	Type		R-410A							
	Charge	kg	11.7+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7	11.7+11.7+11.7
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)	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)	ϕ 41.3 (Brazing)	ϕ 41.3 (Brazing)

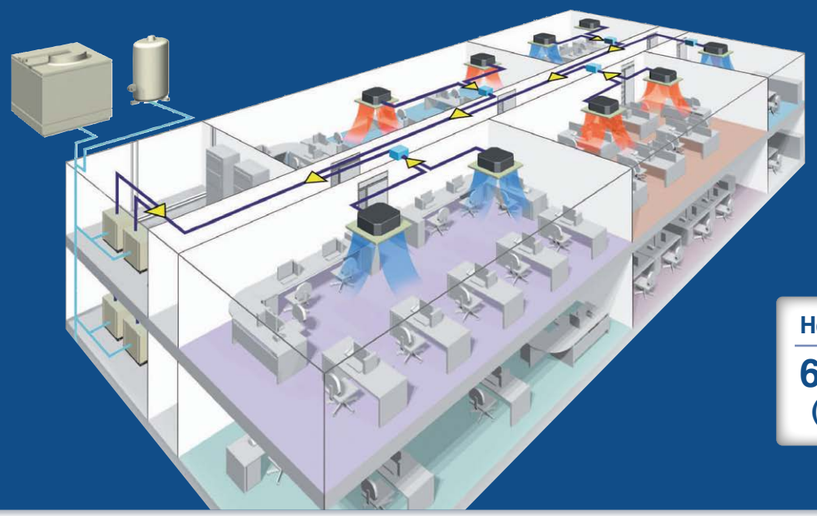
Note: Specifications are based on the following conditions;
- Cooling:(*1) Indoor temp.: 27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
  (*2) Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

VRV III-Q Outdoor Units Heat Recovery RQCEQ-P

MODEL	Combination units		RQCEQ280PY1	RQCEQ360PY1	RQCEQ460PY1	RQCEQ500PY1	RQCEQ540PY1	RQCEQ636PY1
			RQEQ140PY1 RQEQ140PY1	RQEQ180PY1 RQEQ180PY1	RQEQ140PY1 RQEQ140PY1 RQEQ180PY1	RQEQ140PY1 RQEQ180PY1 RQEQ180PY1	RQEQ180PY1 RQEQ180PY1 RQEQ180PY1	RQEQ212PY1 RQEQ212PY1 RQEQ212PY1
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz					
Cooling capacity (*1) (*2)		kcal/h(*1)	24,300	31,200	39,800	43,300	46,800	55,000
		Btu/h(*1)	96,200	124,000	158,000	172,000	186,000	218,000
		kW (*1)	28.2	36.3	46.3	50.4	54.4	64.0
		kW (*2)	28.0	36.0	46.0	50.0	54.0	63.6
Heating capacity		kcal/h	27,500	34,400	44,700	48,200	51,600	57,800
		Btu/h	109,000	136,000	177,000	191,000	205,000	229,000
		kW	32.0	40.0	52.0	56.0	60.0	67.2
Power consumption	Cooling (*2)	kW	7.04	10.3	12.2	13.9	15.5	21.9
	Heating	kW	8.00	10.7	13.4	14.7	16.1	17.7
Capacity control		%	13-100	10-100	8-100	7-100	7-100	7-100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed scroll type					
	Motor output	kW	2.8x2	3.3x2	2.8x2+3.3	2.8+3.3x2	3.3x3	3.6x3
Airflow rate		ℓ/s	1583+1583	1833+1833	1583+1583+1833	1583+1833+1833	1833+1833+1833	1833+1833+1833
		m³/min	95+95	110+110	95+95+110	95+110+110	110+110+110	110+110+110
Dimensions (HxWxD)		mm	(1,680x635x765)+(1,680x635x765)		(1,680x635x765)+(1,680x635x765)+(1,680x635x765)			
Machine weight		kg	175+175	175+175	175+175+175	175+175+175	175+175+175	179+179+179
Sound level		dB(A)	57	61	61	62	63	65
Operation range	Cooling	°CDB	-5 to 43					
	Heating	°CWB	-20 to 15.5					
	Cooling & Heating	°CWB	-6 to 15.5					
Refrigerant	Type		R-410A					
	Charge	kg	10.3+10.3	10.6+10.6	10.3+10.3+10.6	10.3+10.6+10.6	10.6+10.6+10.6	11.2+11.2+11.2
Piping connections	Liquid	mm	ϕ 9.5 (Brazing)	ϕ 12.7 (Brazing)	ϕ 12.7 (Brazing)	ϕ 15.9 (Brazing)	ϕ 15.9 (Brazing)	ϕ 15.9 (Brazing)
	Suction gas	mm	ϕ 22.2 (Brazing)	ϕ 25.4 (Brazing)	ϕ 28.6 (Brazing)	ϕ 28.6 (Brazing)	ϕ 28.6 (Brazing)	ϕ 28.6 (Brazing)
	High and low pressure gas	mm	ϕ 19.1 (Brazing)	ϕ 19.1 (Brazing)	ϕ 22.2 (Brazing)	ϕ 22.2 (Brazing)	ϕ 22.2 (Brazing)	ϕ 25.4 (Brazing)

MODEL	Combination units		RQCEQ712PY1	RQCEQ744PY1	RQCEQ816PY1	RQCEQ848PY1
			RQEQ140PY1 RQEQ180PY1 RQEQ180PY1 RQEQ212PY1	RQEQ140PY1 RQEQ180PY1 RQEQ212PY1 RQEQ212PY1	RQEQ180PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1	RQEQ212PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz			
Cooling capacity (*1) (*2)		kcal/h(*1)	61,700	64,400	70,700	73,400
		Btu/h(*1)	245,000	256,000	280,000	291,000
		kW (*1)	71.7	74.9	82.2	85.4
		kW (*2)	71.2	74.4	81.6	84.8
Heating capacity		kcal/h	67,400	69,500	75,000	77,100
		Btu/h	268,000	276,000	298,000	306,000
		kW	78.4	80.8	87.2	89.6
Power consumption	Cooling (*2)	kW	21.2	23.3	27.1	29.2
	Heating	kW	20.7	21.2	23.1	23.6
Capacity control		%	5-100	5-100	5-100	5-100
Casing colour			Ivory white (5Y7.5/1)			
Compressor	Type		Hermetically sealed scroll type			
	Motor output	kW	2.8+3.3x2+3.6	2.8+3.3+3.6x2	3.3+3.6x3	3.6x4
Airflow rate		ℓ/s	1583+1833+1833+1833	1583+1833+1833+1833	1833+1833+1833+1833	1833+1833+1833+1833
		m³/min	95+110+110+110	95+110+110+110	110+110+110+110	110+110+110+110
Dimensions (HxWxD)		mm	(1,680x635x765)+(1,680x635x765)+(1,680x635x765)+(1,680x635x765)			
Machine weight		kg	175+175+175+179	175+175+179+179	175+179+179+179	179+179+179+179
Sound level		dB(A)	64	65	66	66
Operation range	Cooling	°CDB	-5 to 43			
	Heating	°CWB	-20 to 15.5			
	Cooling & Heating	°CWB	-6 to 15.5			
Refrigerant	Type		R-410A			
	Charge	kg	10.3+10.6+10.6+11.2	10.3+10.6+11.2+11.2	10.6+11.2+11.2+11.2	11.2+11.2+11.2+11.2
Piping connections	Liquid	mm	ϕ 15.9 (Brazing)	ϕ 19.1 (Brazing)	ϕ 19.1 (Brazing)	ϕ 19.1 (Brazing)
	Suction gas	mm	ϕ 28.6 (Brazing)	ϕ 34.9 (Brazing)	ϕ 34.9 (Brazing)	ϕ 34.9 (Brazing)
	High and low pressure gas	mm	ϕ 25.4 (Brazing)	ϕ 25.4 (Brazing)	ϕ 28.6 (Brazing)	ϕ 28.6 (Brazing)

Note: Specifications are based on the following conditions;
- Cooling:(*1) Indoor temp.: 27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
  (*2) Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.



RWEYQ-T

Heat Pump / Heat Recovery

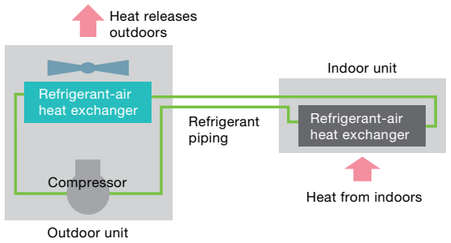
6 class-36 class
(16.0 kW) (101 kW)

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

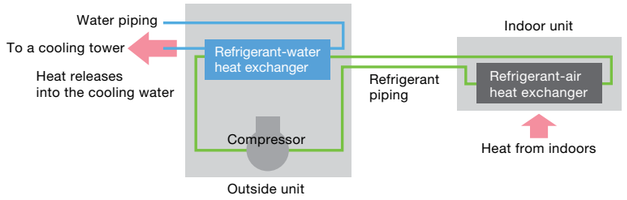
What is a water cooled system?

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 Cooling Tower.

Air cooled system



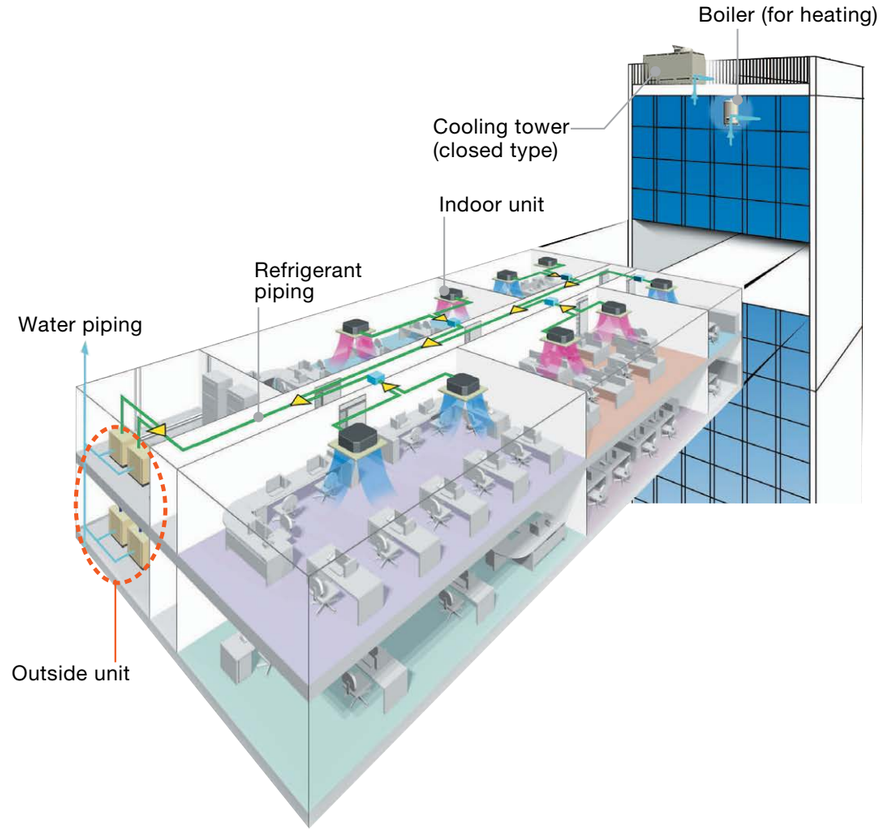
Water cooled system



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

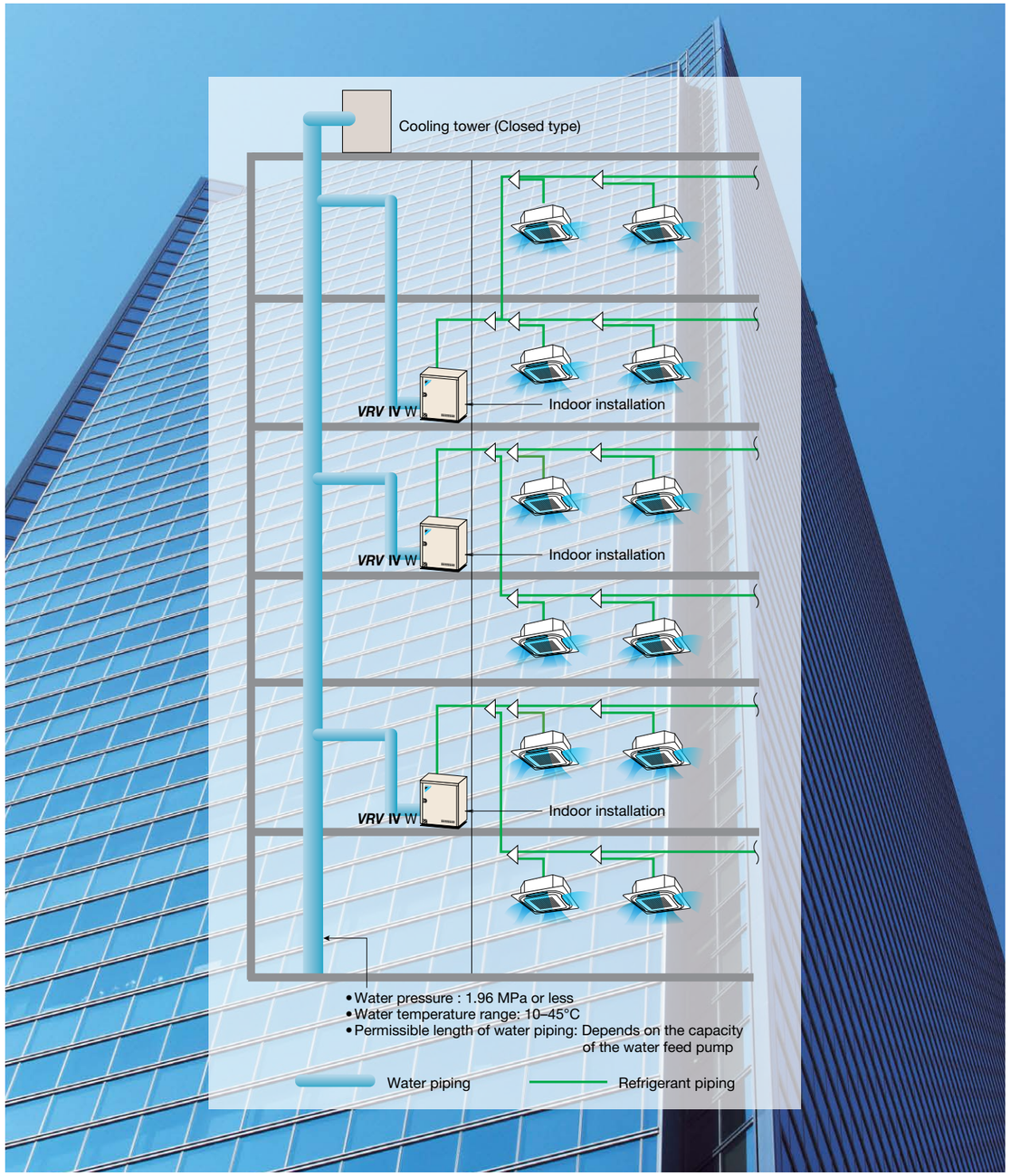
- Outside units can be installed indoors, for example, on basement floors.
  → **High installation flexibility**
- The air conditioning operation is stable even when the outdoor air temperature is high.
  → **Improved comfort**

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 internally 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 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.

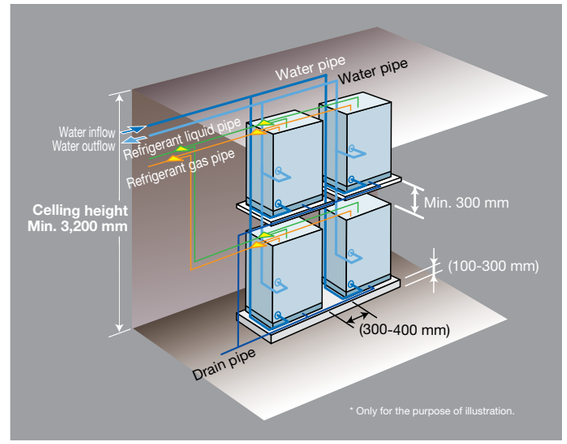
The *VRV* IV W series can meet various air conditioning needs by taking full advantage of the characteristics of a water cooled system.



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

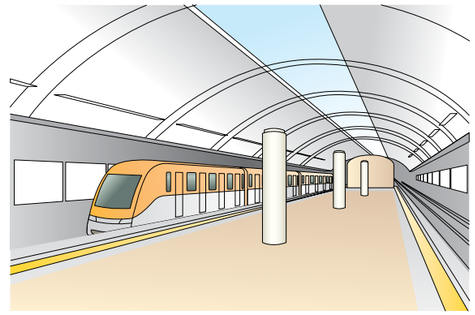
No balcony required

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.



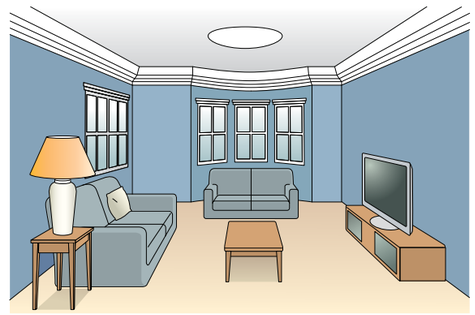
Easy to install in underground shopping malls and subway systems

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

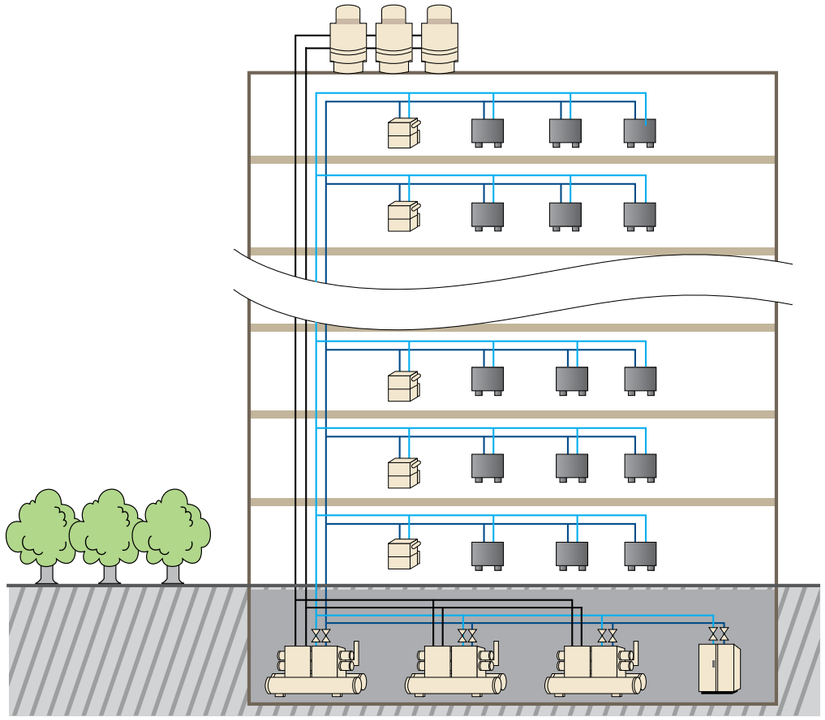


Suitable for High Rise Residential Development

We offer an extensive lineup of small capacity outside units as well as connectable residential indoor units.



As conventional water based systems age, service and maintenance issues arise



* System diagram

Why is a Retrofit Solution Necessary?

1. As equipment age, air-conditioning capacity and performance deteriorates.
2. The maintenance cost for the equipment keeps rising.
3. After an extended period of operations, the noise generated by the equipment increases.
4. Scale formation in water pipes are difficult to clean, impact on performance and leads to corrosion issues.
5. Difficulty in catering to new tenancy design changes and requirements.
6. Individual energy billing for multi tenancy application is difficult.
7. After hours operations for tenants is costly and inefficient.
8. Building Management Systems are expensive to install and operate.

Issues to consider in a retrofit project

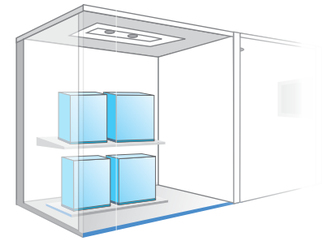
1. How to avoid damaging the building structure?
2. How to reduce the impact on tenants during renovation?
3. How to bring the renovation costs down to lowest level possible?
4. How to securely transport the air conditioning outside unit without incident?
5. How to simplify maintenance of the air conditioning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

A Flexible System Convenient for Expansion / Retrofit

Benefits of Water Cooled *VRV* IV System

1 Outdoor unit located internally

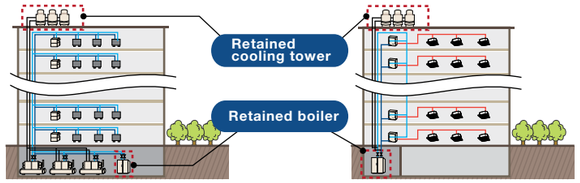
The outside units of the water cooled ***VRV* IV** W series negates the need of direct heat exchange with outdoor air. This feature makes it possible to place the outside unit room inside the building, which greatly extends design flexibility and makes it easier to adapt to different types of buildings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



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

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

Note:
Closed circuit is necessary. In case of Open Towers, use of Plate Heat Exchanger is required between Open Tower and condenser water circuit.



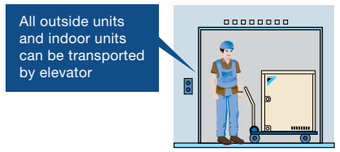
Before Retrofit

After Retrofit

* System diagram

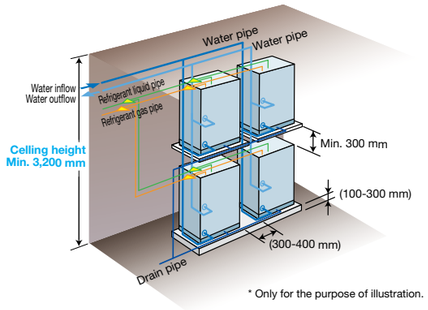
3 Minimal plant room space

- 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.



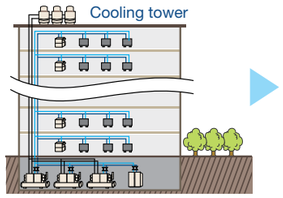
- The modular design featured by the water cooled ***VRV* IV** W series enables a free and flexible configuration of the outside units. Outside units may be double stacked to minimize plant space.

Stacking up of the outside units

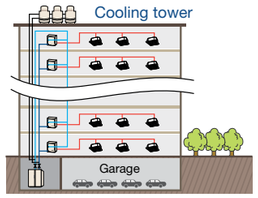


* Only for the purpose of illustration.

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.



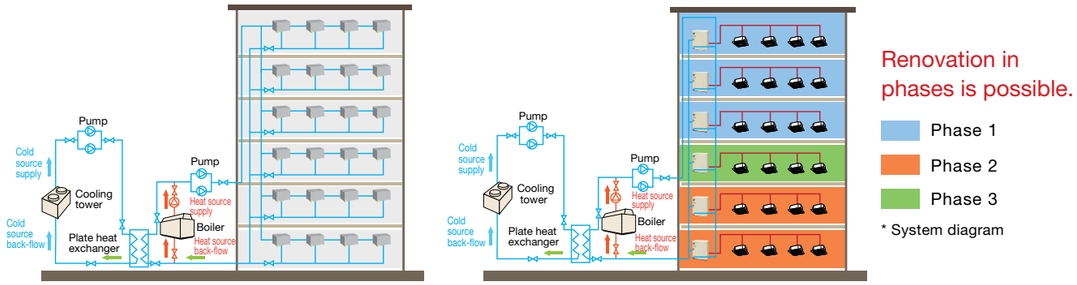
With the water cooled ***VRV* IV** W series, the outside units are modular design and can be arranged more freely and flexibly, saving part of the outside unit room for purposes such as business or car parking.

* System diagram

Water Cooled *VRV* IV as a Retrofit Solution

4 Floor by floor retrofit without interrupting

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



Water cooled packaged air conditioning system

Water cooled ***VRV* IV** W series

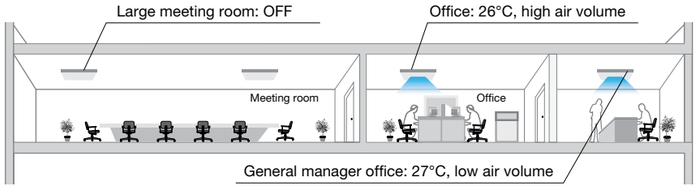
5 Compact refrigerant pipes and *VRV* indoor units help to free up ceiling space

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

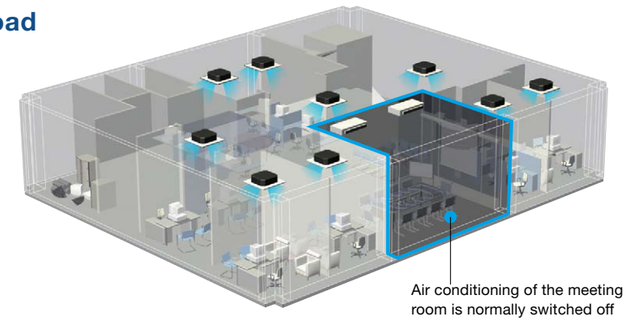
Each indoor unit of the water cooled ***VRV* IV** W series can be independently controlled and adjusted according to each tenant's individual needs for temperature and air volume.
This achieves optimal comfort and convenience.



Based on cooling condition

2 Higher efficiency with partial load

An air-conditioning plant operates at partial load for most of the year given the changing nature of both the external and internal loads.
By incorporating advanced DC Inverter, Refrigerant Control technology and VRT, Daikin's ***VRV* IV** W series is able to deliver superior partial load performances.

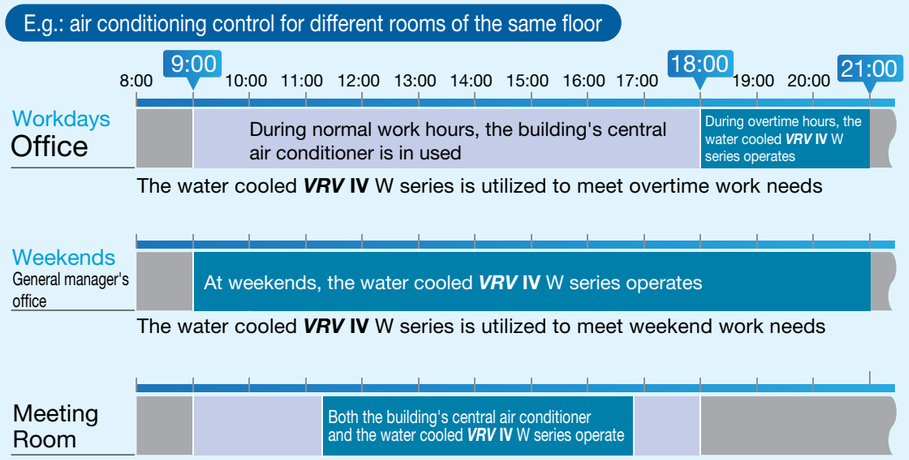


Actual conditions of the floor

3 Suitable as a low load or supplementary system

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

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



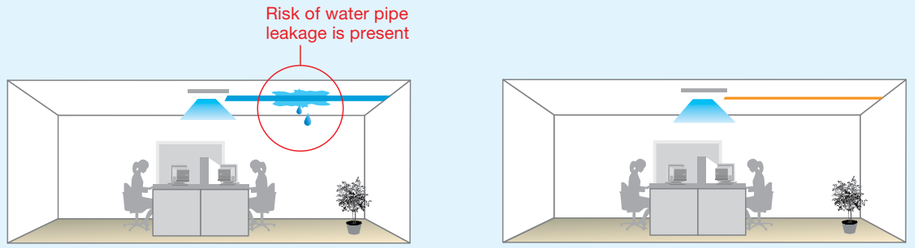
The water cooled ***VRV* IV** W series is utilized to meet overtime work needs

The water cooled ***VRV* IV** W series is utilized to meet weekend work needs

When a large number of people are present, the water cooled ***VRV* IV** W series can work to supplement insufficient capacity of the building's central air conditioner

4 Connection using refrigerant pipes eliminate the risk of water leakage

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



Adoption of water pipes for indoor connections in an all-water central air conditioning system

Adoption of refrigerant pipes for indoor connections in a water cooled ***VRV* IV** W series system

State-of-the-art energy saving technology

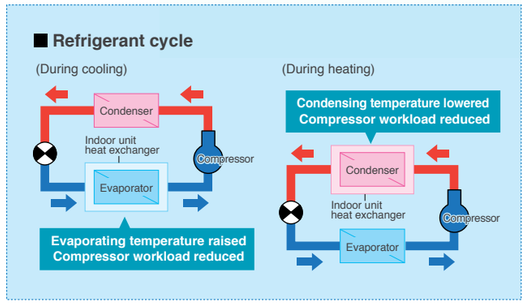
Customise your *VRV* system for optimal annual efficiency

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

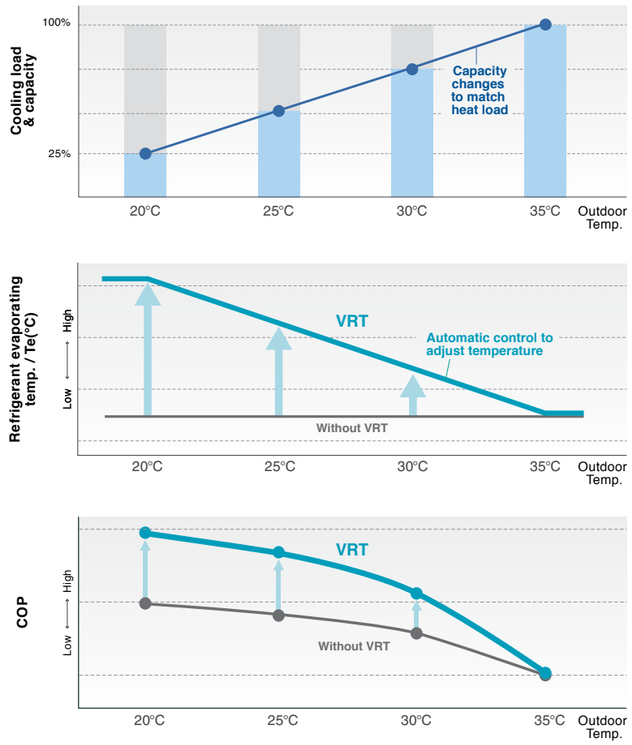
Variable Refrigerant Temperature

How is energy reduced?

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



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



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

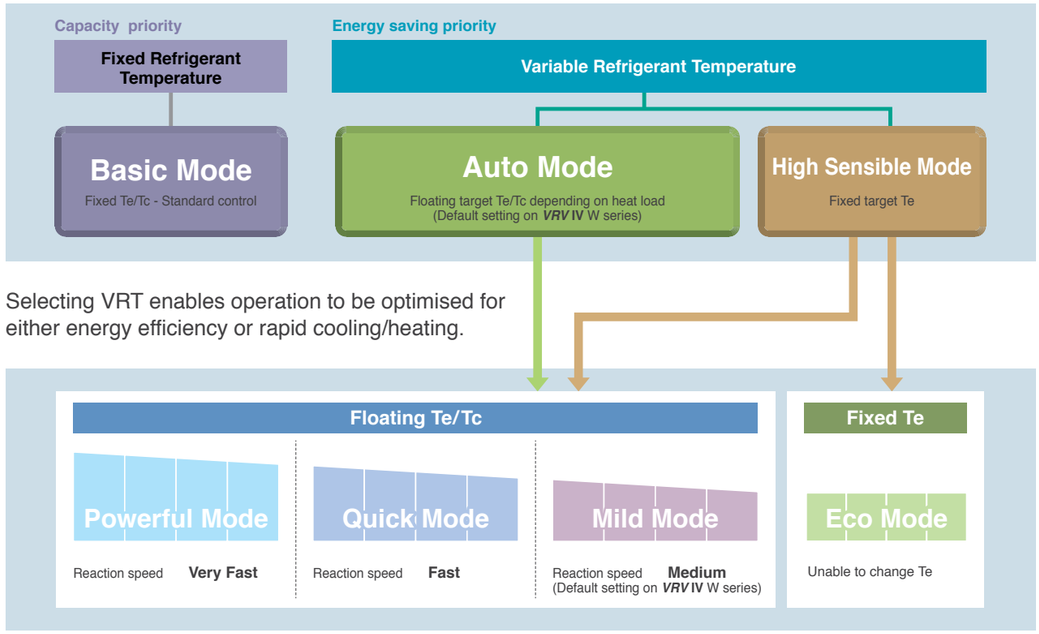
In case of fixed evaporating temperature, excessive cooling, thermo on-off loss, and other inefficiencies occur.

Automatic control adjusts evaporating temperature to heat load change.

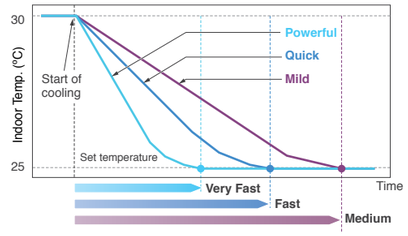
Energy efficiency is improved without sacrificing comfort.

Fine control to match user preference available through mode selection

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



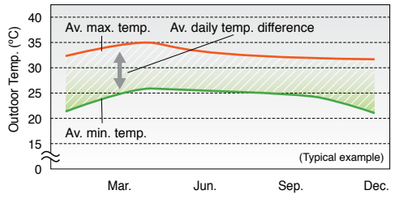
VRT offers quicker cool down to shorten uncomfortable pull down time.



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

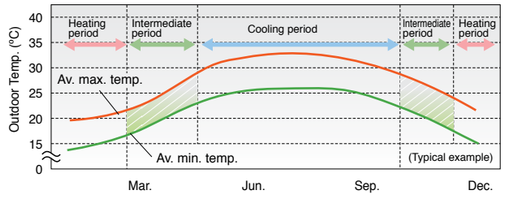
Recommended for use in these situations

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



VRT is particularly effective at night when temperatures are low.

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



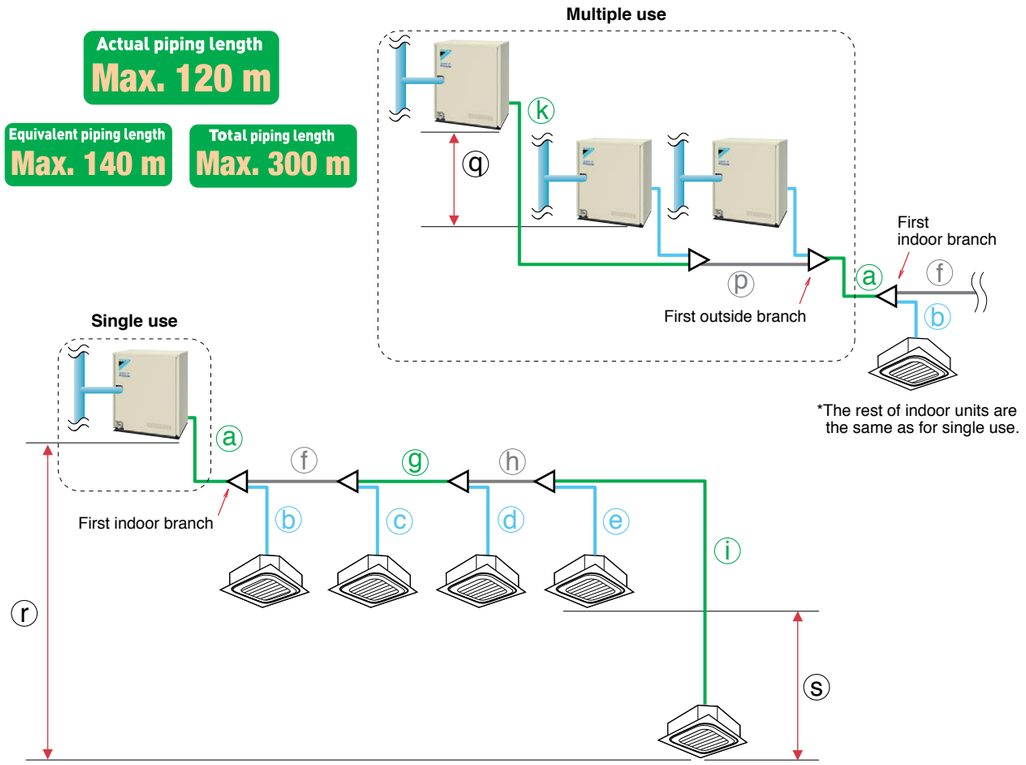
VRT is particularly effective during the intermediate periods.

* VRT is only available during either all cooling operation or all heating operation.

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

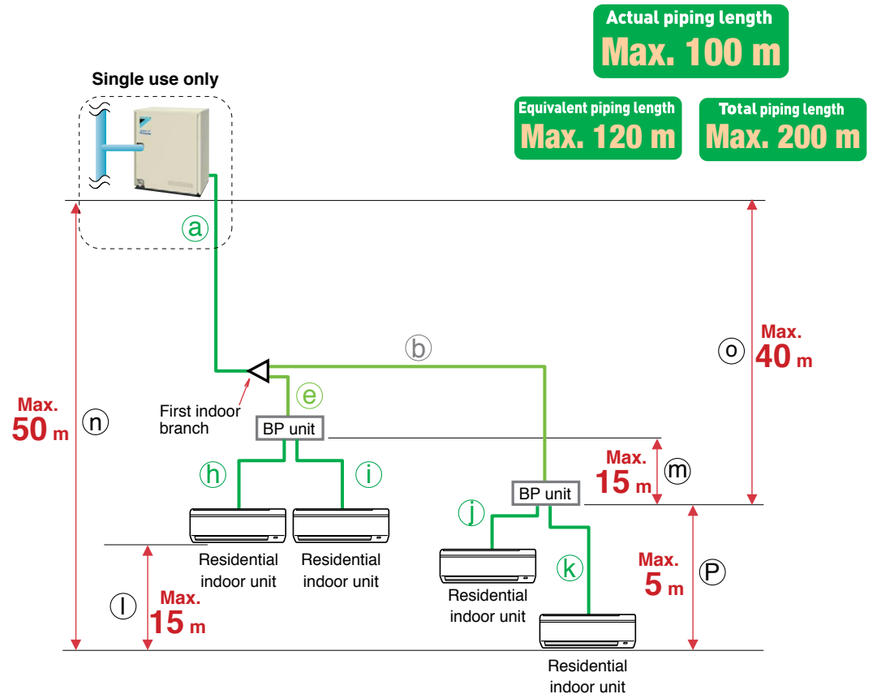


* Colours in the diagram above are merely for identifying pipes referenced with symbols such as ⓐ.

			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.	50 m	r	—
		If the outside unit is below.	40 m	r	—

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

For connection of only residential indoor units



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

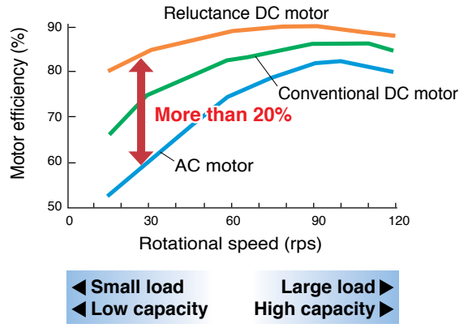
			Actual piping length	Example	Equivalent Example piping length
Max. allowable piping length	Refrigerant piping length		100 m	a+b+k	120 m
	Total piping length		200 m	a+b+e+h+j+k	—
	Between the first indoor branch and the farthest indoor unit		50 m*1	b+k	—
Max. and min. allowable piping length	Between BP 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	—

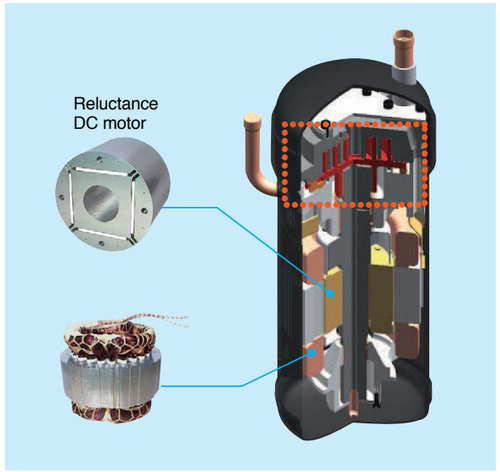
*1. When the piping length exceeds 20 m, the size of the main pipes (the gas side and the liquid side) must be increased. Please refer to Engineering Data Book for details.

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.





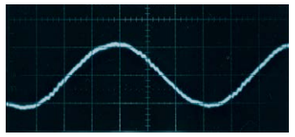
Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory using Daikin products.

*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

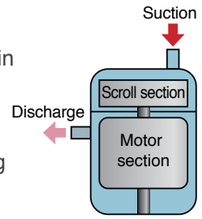
Use of an optimised sine wave smoothes motor rotation, further improving operating efficiency.



Sine wave DC inverter

Scroll compressor

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

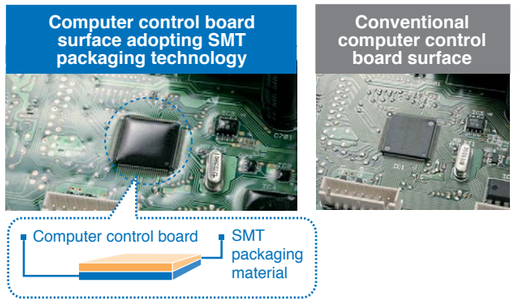


Advanced control main PC board

SMT* packaging technology

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

*SMT: Surface mounted technology



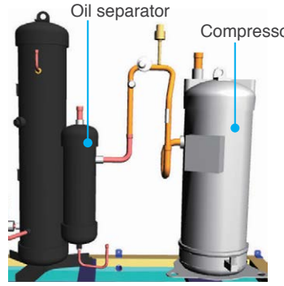
Minimize performance degradation from refrigeration oil in all stages of operation

Newly designed oil receiver

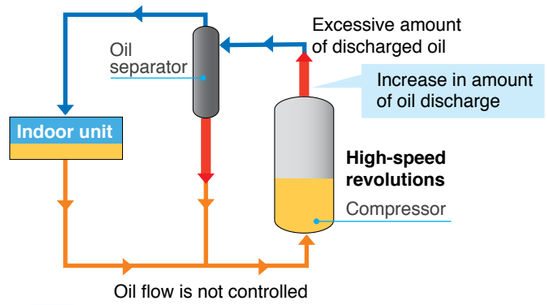
Adding a container vessel (Oil Receiver) helps eliminate performance degradation by retaining refrigeration oil and preventing excessive oil from flowing to the heat exchanger.
The new design enables the oil receiver to automatically supply the compressor with only the necessary amount of oil.

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.

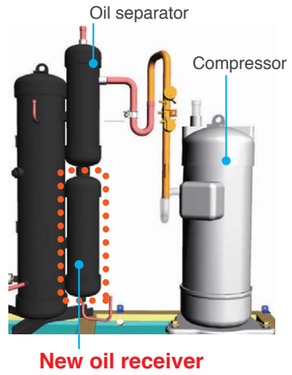


Oil flows to the indoor and outside unit heat exchangers through the oil separator.

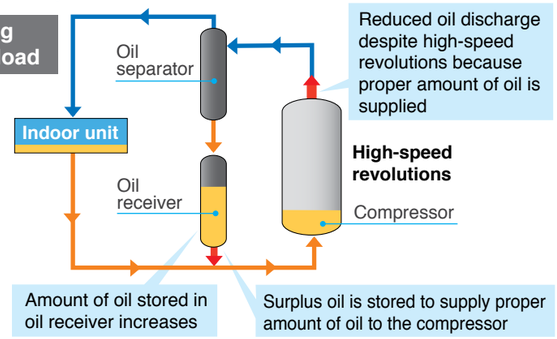


VRV IV W SERIES

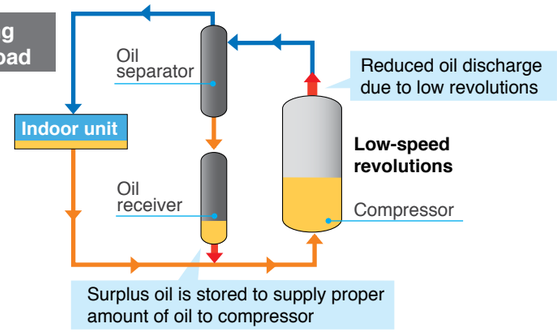
Surplus oil is stored in the oil receiver and automatically controls the amount of refrigeration oil in the refrigerant cycle. This prevents a reduction in performance for heat exchanger.



During high load



During low load



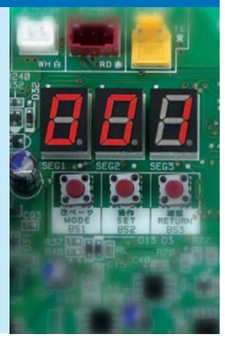
Simplified commissioning and after-sales service

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.

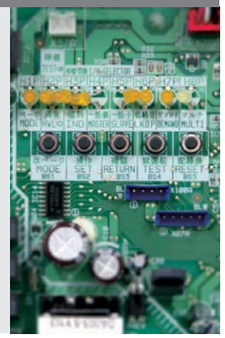
7-segment digital display

Displays system operation information directly



Conventional LED display

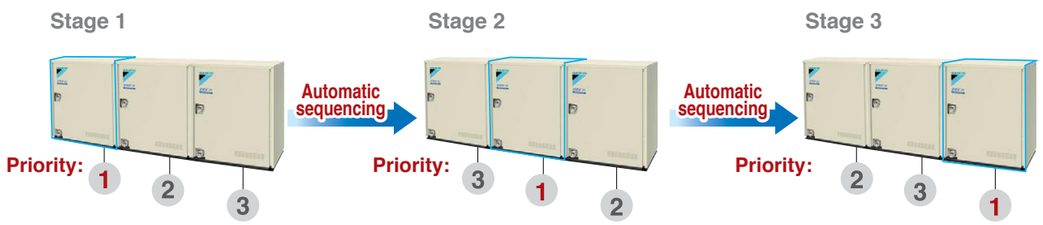
Figures out system operation information by reading light emitting state of different diodes, which is both inefficient and fallible.



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 outside unit to improve longevity of equipment and stable operation.



Reliable and convenient air conditioning system

Auto-restart technology after power interruption

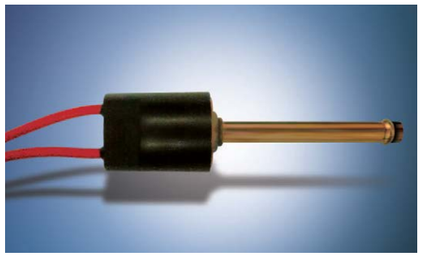
No matter whether the indoor or outside unit accidentally experiences a power interruption during normal operation, the system will keep a record of the operating mode adopted before the power interruption. When the power supply recovers, the air conditioning system will then restore itself back into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

Refrigerant pressure detection technology makes system operation more stable and efficient

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

More stable operation

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



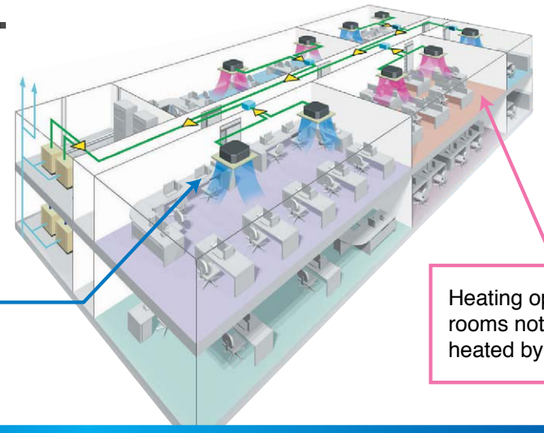
- High pressure protection: the system can also keep the compressor from being affected by instantaneous high pressure changes.

More efficient operation

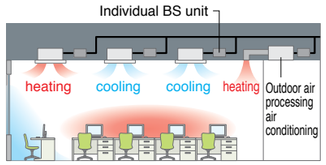
- A low pressure sensor, together with advanced supercooling technologies and high pressure protection control, helps to realize fast starting of the compressor, and can also quickly adjust rotational speed according to refrigerant status to adjust to indoor load fluctuations more rapidly.

Easily responds to simultaneous heating and cooling needs.

Offers simultaneous cooling and heating operation on the same floor!

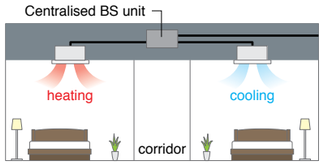


Increasing demand for simultaneous cooling and heating needs



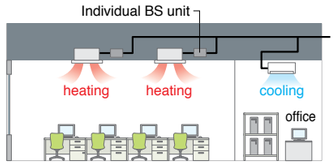
Winter season (Office Building)

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



Winter season (Hotel)

- Able to cater to individual heating and cooling requirement



Individual office

- Provides heating and annual cooling depending on space area

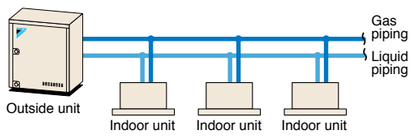
BS unit (Individual type/Centralised type)

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

Individual BS unit

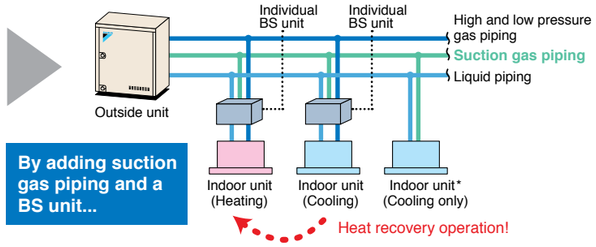
Centralised BS unit

Heat pump



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

Heat recovery



2-stage heat recovery operation improves energy efficiency

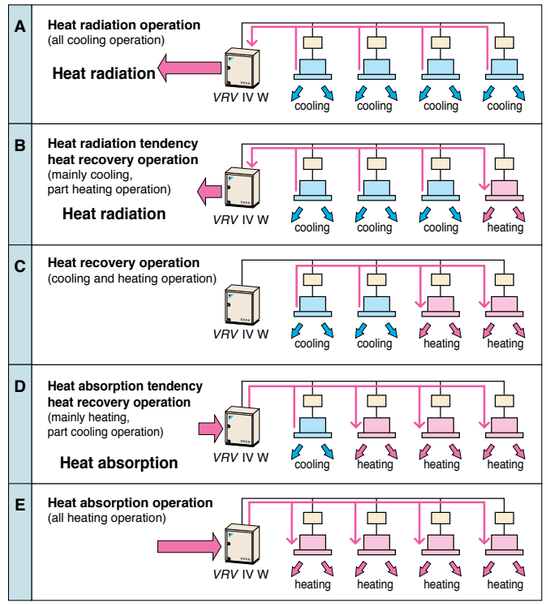
Daikin offers 2-stage heat recovery operation.
The first stage of heat recovery operation is within the refrigerant system.
By controlling the BS unit that switches cooling and heating, simultaneous cooling and heating operation is made possible, with heat recovery performed between indoor units.
The second stage of heat recovery operation is within the water loop, where heat recovery is performed between the *VRV* IV W systems.
This 2-stage heat recovery operation substantially improves energy efficiency and makes the system the ideal solution to the requirements of modern office buildings, where some areas may require cooling even in winter, depending on the amount of sunshine received and the number of people in the room.

Stage 1

Simultaneous heating and cooling operation within the refrigerant system.

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

The first stage: Between indoor units

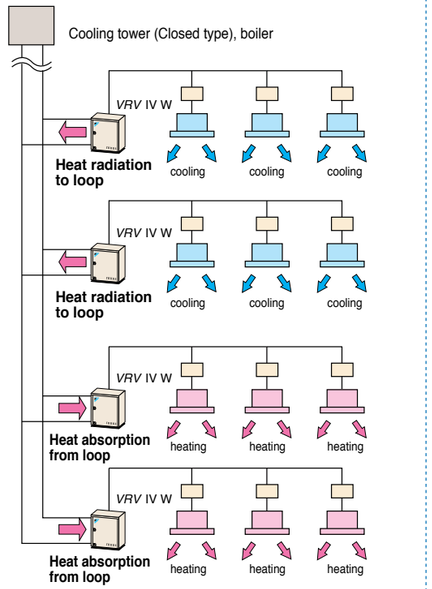


Stage 2

Heat recovery operation between the *VRV* IV W systems.

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

The second stage: Between *VRV* IV W systems



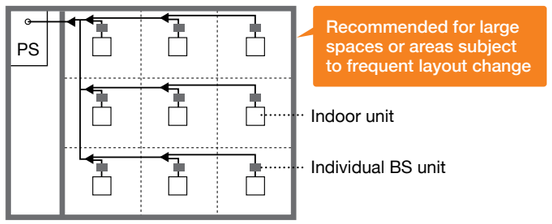
Note: • Above system configurations are for illustration purposes only.

Individual and centralised BS unit allow greater design flexibility.

Individual BS unit

BSQ100AV1
BSQ160AV1
BSQ250AV1

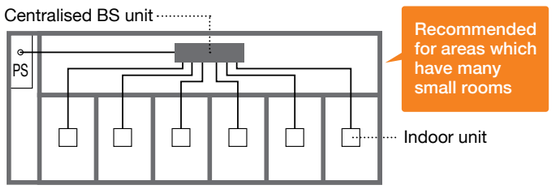
- Compact and flexible installation
- Flexible design
- Low noise



Recommended for large spaces or areas subject to frequent layout change

Centralised BS unit

BS4Q14AV1
BS6Q14AV1
BS8Q14AV1
BS10Q14AV1
BS12Q14AV1
BS16Q14AV1



Recommended for areas which have many small rooms

- Enhanced Line up

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

- Compact and lightweight design

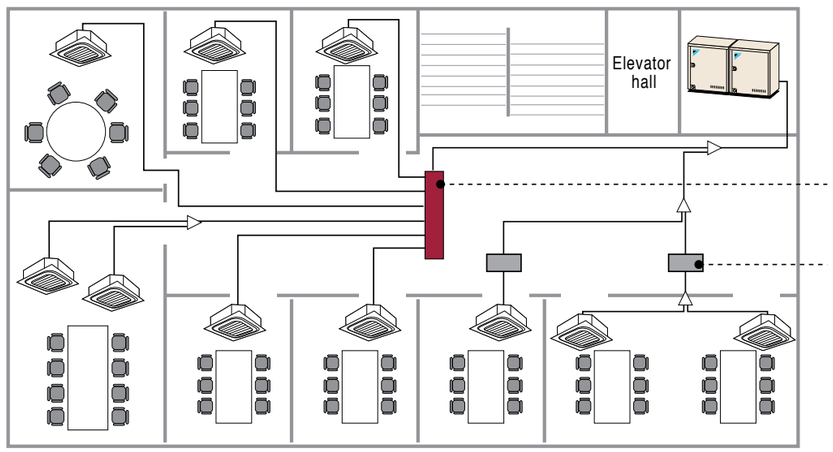
Compared to conventional BS unit (6 branch)

BS unit size **reduced by 65%**

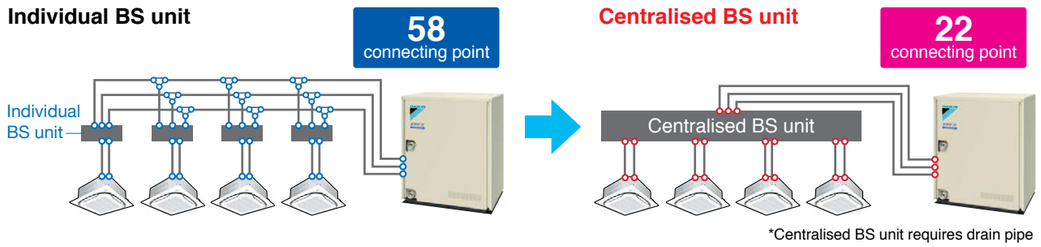
BS unit weight **reduced by 73%**

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

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

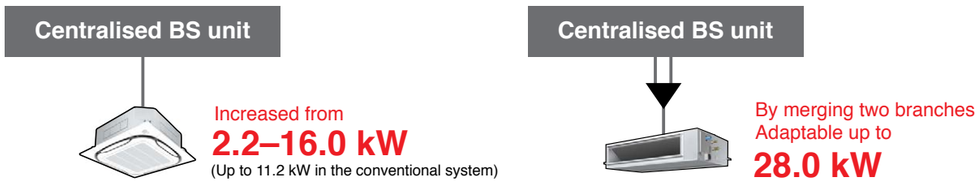


Installation and maintenance work have been made easier through the integration of multiple BS units.



*Centralised BS unit requires drain pipe

Greater design flexibility achieved by increasing the connection capacity range



Faster installation of centralised BS unit thanks to open connection

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

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

Lower transient sound

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

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

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

Easy installation

Compact and lightweight

Adoption of a water heat exchanger and optimisation of the refrigerant control circuit has resulted in a compact and lightweight equipment.
A weight of 146 kg and height of 1,000 mm make installation possible in buildings with limited space, or where no space is available for outdoor units. This makes the system ideal for places that have no area outside—such as underground malls.

* The unit is designed for indoor installation only.

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

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

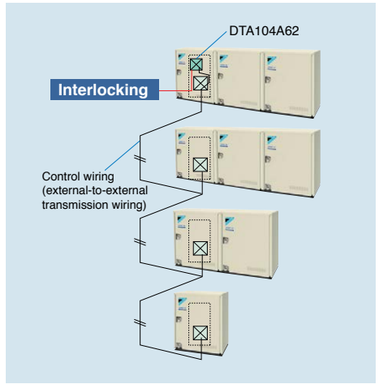
Footprint	1.29 m²	0.86 m²	33% Decrease
Product Weight	447 kg	294 kg	34% Decrease

Enhanced usability

Centralised interlocking function

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

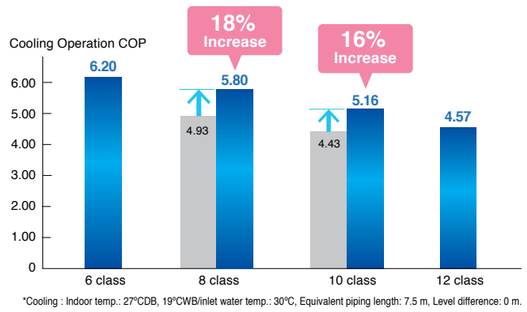
By using one external control adaptor circuit board, centralised interlocking input to multiple units within the same water system is possible.



Energy saving

Higher Coefficient of Performance (COP)

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



VRV III W series
VRV IV W SERIES

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

Outside units

VRV IV W SERIES

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

Mo/C New Lineup

Capacity Range	Class	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
	Kw	16.0	22.4	28.0	33.5	38.5	44.8	50.4	56.0	61.5	67.0	72.8	78.4	84.0	89.4	95.0	101
Heat Pump		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Heat Recovery		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Outside unit combinations

For connection of only *VRV* indoor units

Class	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 class 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	Class	Capacity index	Total capacity index of connectable indoor units*2 Combination (%)*2			Maximum number of connectable indoor units
				80%	100%	130%	
RWEYQ6T	16.0	6	150	120	150	195	9
RWEYQ8T	22.4	8	200	160	200	260	13
RWEYQ10T	28.0	10	250	200	250	325	16
RWEYQ12T	33.5	12	300	240	300	390	19

*1. Only single outdoor unit (RWEYQ6-12T) heat pump types can be connected.
*2. Total capacity index of connectable indoor units must be 80%–130% of the capacity index of the outside unit .

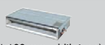
Enhanced range of choices

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.

VRV indoor units

Type	Model Name		Capacity Range(kW)	20 2.2	25 2.8	32 3.6	40 4.5	50 5.6	63 7.1	71 8.0	80 9.0	100 11.2	125 14	140 16	145 16.2	160 18.0	180 20	200 22.4	250 28
			Capacity Index	20	25	31.3	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFQ-SVM				●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE				●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB			●	●	●	●	●											
4-Way Flow Ceiling Suspended	FXUQ-AVEB									●		●							
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE			●	●	●	●	●	●		●		●						
Ceiling Mounted Cassette Corner	FXKQ-MAVE				●	●	●		●										
Slim Ceiling Mounted Duct (Standard Series)	FXDQ-PBVE	 (700mm width type)		●	●	●													
	FXDQ-NBVE	 (900/1,100 mm width type)					●	●	●										
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1			●	●	●	●	●	●										
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE			●	●	●	●	●	●		●	●	●	●					
Ceiling Concealed (Duct)	FXDYQ-MAV1										●	●	●		●				
Ceiling Mounted Duct	FXMQ-PVE			●	●	●	●	●	●		●	●	●	●					
	FXMQ-PV1A														●	●	●	●	
Outdoor-Air Processing Unit	FXMQ-MFV1												●				●	●	
Ceiling Suspended	FXHQ-MAVE					●			●			●							
Wall Mounted	FXAQ-PVE			●	●	●	●	●	●										
Floor Standing	FXLQ-MAVE			●	●	●	●	●	●										
Concealed Floor Standing	FXNQ-MAVE			●	●	●	●	●	●										
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	20 2.0 20	25 2.5 25	35 3.5 35	50 5.0 50	60 6.0 60	71 7.1 71
Ceiling Mounted Cassette (Compact Multi Flow)	FFQ-BV1B				●	●	●	●	
Slim Ceiling Mounted Duct	CDXS-EAVMA	 (700 mm width type)			●	●			
	FDXS-CVMA	 (900/1,100 mm width type)			●	●	●	●	
Wall Mounted	CTXG-PVMAW				●	●	●		
	CTXG-PVMAS				●	●	●		
	FTXS-KVMA			●	●	●			
	FTXS-KAVMA						●	●	●
Floor Standing	FVXS-KV1A				●	●	●		
Floor/Ceiling Suspended Dual	FLXS-BVMA				●				
	FLXS-GVMA					●	●	●	

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

***VRV* indoor units only**

Residential indoor units only

*Refer to page 105 for the maximum number of connectable indoor units.

VRV IV W series Outside Units Heat Pump/Heat Recovery RWEYQ-T

MODEL			RWEYQ6TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ14TYM	RWEYQ16TYM	RWEYQ18TYM	RWEYQ20TYM	RWEYQ22TYM	RWEYQ24TYM
Combination units			–	–	–	–	RWEYQ6TYM	RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM
			–	–	–	–	RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				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	33,000	38,500	43,300	48,200	52,900	57,600
		Btu/h	54,600	76,400	95,500	114,000	131,000	153,000	172,000	191,000	210,000	229,000
		kW	16.0	22.4	28.0	33.5	38.4	44.8	50.4	56.0	61.5	67.0
Heating capacity		kcal/h	15,500	21,500	27,100	32,300	37,000	43,000	48,600	54,200	59,300	64,500
		Btu/h	61,400	85,300	107,000	128,000	147,000	171,000	193,000	215,000	235,000	256,000
		kW	18.0	25.0	31.5	37.5	43.0	50.0	56.5	63.0	69.0	75.0
Power consumption	Cooling	kW	2.58	3.86	5.43	7.33	6.44	7.72	9.29	10.9	12.8	14.7
	Heating	kW	2.69	3.98	5.60	7.87	6.67	7.96	9.58	11.2	13.5	15.7
Casing colour			Ivory white (5Y7.5/1)				Ivory white (5Y7.5/1)					
Dimensions(H× W× D)		mm	1,000 × 780 × 550				(1,000 × 780 × 550) × 2					
Compressor	Type		Hermetically sealed scroll type				Hermetically sealed scroll type					
	Motor output	kW	1.9	2.8	3.7	4.7	1.9 + 2.8	2.8 × 2	2.8 + 3.7	3.7 × 2	3.7 + 4.7	4.7 × 2
Refrigerant piping connections	Liquid	mm	ϕ9.5 (Flare)			ϕ12.7 (Flare)	ϕ12.7 (Flare)		ϕ15.9 (Flare)		ϕ19.1 (Flare)	
	Suction gas *1		ϕ19.1 (Brazing)		ϕ22.2 (Brazing)		ϕ28.6 (Brazing)					
	High and low pressure gas		ϕ15.9*2, ϕ19.1*3 (Brazing)		ϕ19.1*2, ϕ22.2*3 (Brazing)		ϕ22.2*2, ϕ28.6*3 (Brazing)					
Water piping connections	Water inlet		PT1 1/4B intenal thread				(PT1 1/4B) × 2 intenal thread					
	Water outlet		PT1 1/4B intenal thread				(PT1 1/4B) × 2 intenal thread					
	Drain outlet		PS1/2B intenal thread				(PS1/2B) × 2 intenal thread					
Machine weight (Operating weight)		kg	146 (148)		147 (149)		146 × 2 (148 × 2)		146 + 147 (148 + 149)		147 × 2 (149 × 2)	
Sound level		dB(A)	49	50	51	53	53		54		55	56
Sound power			64	70	71	72	71	73	74		75	
Operation range (Inlet water temp.)		°C	10 to 45				10 to 45					
Capacity control		%	23-100		19-100		23-100		20-100		19-100	
Refrigerant	Type		R-410A				R-410A					
	Charge	kg	3.5		4.2		3.5 + 3.5		3.5 + 4.2		4.2 + 4.2	

MODEL			RWEYQ26TYM	RWEYQ28TYM	RWEYQ30TYM	RWEYQ32TYM	RWEYQ34TYM	RWEYQ36TYM
Combination units			RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM
			RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM
			RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM	RWEYQ12TYM
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz		
Cooling capacity		kcal/h	62,600	67,400	72,200	77,000	81,700	86,900
		Btu/h	248,000	268,000	287,000	305,000	324,000	345,000
		kW	72.8	78.4	84.0	89.5	95.0	101
Heating capacity		kcal/h	70,100	75,700	81,300	86,900	92,000	97,200
		Btu/h	278,000	300,000	322,000	345,000	365,000	386,000
		kW	81.5	88.0	94.5	101	107	113
Power consumption	Cooling	kW	13.2	14.7	16.3	18.2	20.1	22.0
	Heating	kW	13.6	15.2	16.8	19.1	21.3	23.6
Casing colour			Ivory white (5Y7.5/1)			Ivory white (5Y7.5/1)		
Dimensions(H× W× D)		mm	(1,000 × 780 × 550) × 3			(1,000 × 780 × 550) × 3		
Compressor	Type		Hermetically sealed scroll type			Hermetically sealed scroll type		
	Motor output	kW	2.8 × 2 + 3.7	2.8 + 3.7 × 2	3.7 × 3	3.7 × 2 + 4.7	3.7 + 4.7 × 2	4.7 × 3
Refrigerant piping connections	Liquid	mm	ϕ19.1 (Flare)			ϕ19.1 (Flare)		
	Suction gas *1		ϕ34.9 (Brazing)			ϕ34.9 (Brazing)		
	High and low pressure gas		ϕ28.6*2, ϕ34.9*3 (Brazing)			ϕ28.6*2, ϕ34.9*3 (Brazing)		
Water piping connections	Water inlet		(PT1 1/4B) × 3 intenal thread			(PT1 1/4B) × 3 intenal thread		
	Water outlet		(PT1 1/4B) × 3 intenal thread			(PT1 1/4B) × 3 intenal thread		
	Drain outlet		(PS1/2B) × 3 intenal thread			(PS1/2B) × 3 intenal thread		
Machine weight (Operating weight)		kg	146 × 2 + 147 (148 × 2 + 149)	146 + 147 × 2 (148 + 149 × 2)	147 × 3 (149 × 3)	147 × 3 (149 × 3)		
Sound level		dB(A)	55	56		57		58
Sound power			76			77		
Operation range (Inlet water temp.)		°C	10 to 45			10 to 45		
Capacity control		%	21-100	20-100	19-100	19-100		
Refrigerant	Type		R-410A			R-410A		
	Charge	kg	3.5 + 3.5 + 4.2	3.5 + 4.2 + 4.2	4.2 + 4.2 + 4.2	4.2 + 4.2 + 4.2		

Note :
1. Specifications are based on the following conditions ;
   · Cooling : Indoor temp. : 27ºCDB, 19ºCWB / inlet water temp. :30ºC, Equivalent piping length : 7.5 m, Level difference : 0 m.
   · Heating : Indoor temp. : 20ºCDB / inlet water temp. : 20ºC, 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 – 40ºC and humidity at 80%RH or less. Heat rejection from the casing : 0.51 kW / 6 - 8 class / hour, 0.58 kW / 10 - 12 class / hour.
4. Connectable to closed type cooling tower only.
   *1 : In the case of heat pump system, suction gas pipe is not used.
   *2 : In the case of heat recovery system.
   *3 : In the case of heat pump system.
· Be sure to refer to the Engineering Data Book for facility design.

Indoor Unit Lineup

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

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow) Type
FXFQ-P

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

Ceiling Mounted Cassette (Compact Multi Flow) Type
FXZQ-A2

Quiet, compact, and designed for user comfort

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

Ceiling Mounted Cassette (Double Flow) Type
FXCQ-M

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

Ceiling Mounted Cassette Corner Type
FXKQ-MA

Slim design for flexible installation

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

FXDQ-NB

Slim design, quietness and static pressure switching

Slim Ceiling Mounted Duct Type (Compact Series)
FXDQ-SP

Slim and compact design for easy and flexible installation

Middle Static Pressure Ceiling Mounted Duct Type
FXSQ-P

Middle external static pressure and slim design allow flexible installations

Ceiling Concealed (Duct) Type
FXDYQ-MA

High static pressure offers flexible duct design that blends in with any interior décor in stores and offices

Ceiling Mounted Duct Type
FXMQ-P

High external static pressure allows flexible installations

Outdoor-Air Processing Unit
FXMQ-MF

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

Ceiling Suspended Type
FXHQ-MA

Slim body with quiet and wide airflow

Wall Mounted Type
FXAQ-P

Stylish flat panel design harmonised with your interior décor

Floor Standing Type
FXLQ-MA

Concealed Floor Standing Type
FXNQ-MA

Suitable for perimeter zone air conditioning

Residential indoor units with connection to BP units

Ceiling Mounted Cassette (Compact Multi Flow) Type
FFQ-B

Quiet, compact, and designed for user comfort

Slim Ceiling Mounted Duct Type
Cooling Only
CDKS-EA
CDKS-C
Heat Pump
CDXS-EA **FDXS-C**

Slim and smooth design suits your shallow ceiling

Wall Mounted Type
Heat Pump
CTXG-P

Elegant appearance with European style

Wall Mounted Type
Cooling Only
FTKS-K
FTKS-KA
Heat Pump
FTXS-K
FTXS-KA

Stylish flat panel harmonises with your interior décor

Floor Standing Type
Heat Pump
FVXS-K

Dual discharges to evenly distribute air across the whole room

Floor/Ceiling Suspended Dual Type
Heat Pump
FLXS-B
FLXS-G

Floor/ceiling dual use maximises free space

Air Treatment Equipment

Heat Reclaim Ventilator with DX-Coil and Humidifier
VKM-GA(M)

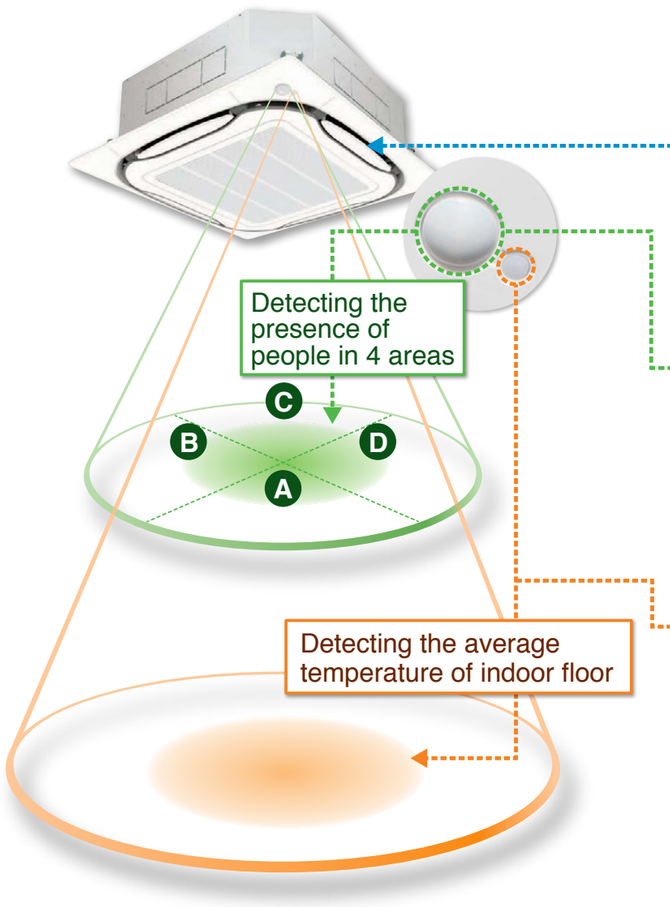
Heat Reclaim Ventilator
VAM-GJ

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



Individual airflow direction control

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

Infrared presence sensor

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

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

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

Infrared floor sensor

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

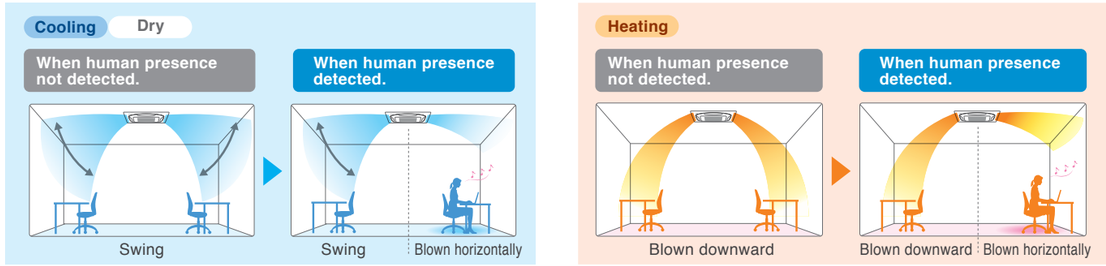
Ceiling height	2.7m	3.5m	4.0m
Detection range (diameter)*2	approx. 11m	approx. 14m	approx. 16m

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

Sensing function

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

Auto airflow direction mode



- With the Auto airflow direction mode, flaps are controlled to deliver optimal air distribution for both cooling and heating operations when there are no people.
- When a person is detected, drafts are prevented by making the flap horizontal.
- When a person is not detected for 5 minutes, the unit automatically returns to controlling the flaps for an unoccupied room.

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

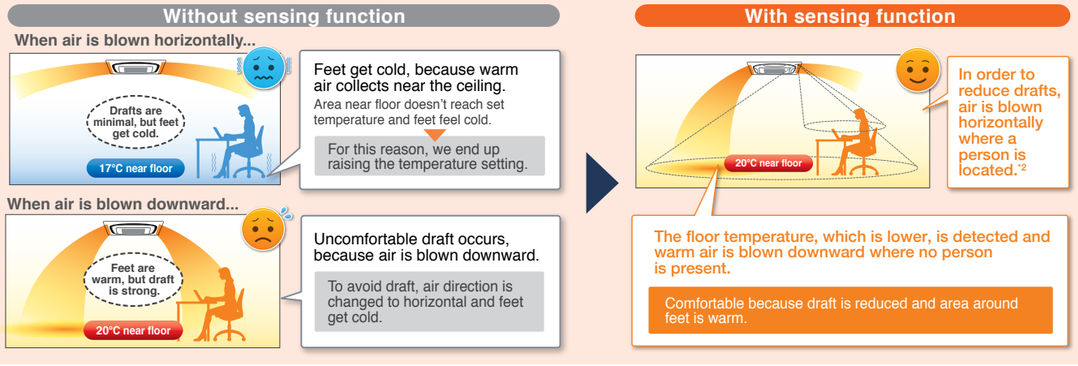
Comfort and Energy saving preventing over Cooling / Heating *1. 2

Auto airflow direction mode + Auto airflow rate mode

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

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

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



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

To increase comfort, Auto airflow rate mode controls the airflow in accordance with the difference between floor and ceiling temperatures.

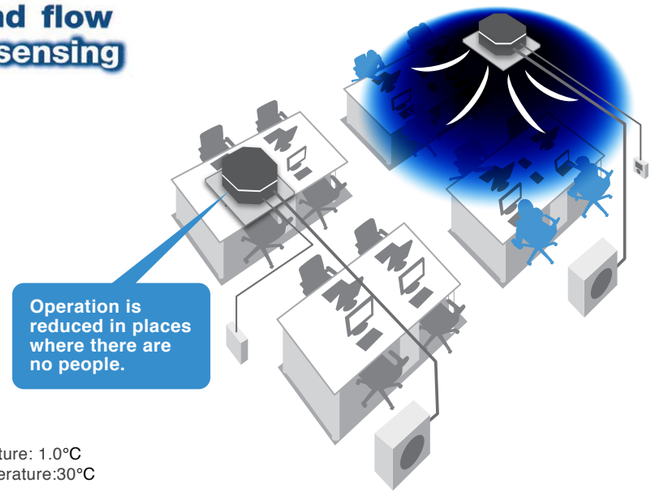
When there is a large difference between the ceiling and floor temperatures, the airflow rate is automatically increased. When the difference becomes small, the airflow rate is automatically reduced.

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

Ceiling Mounted Cassette (Round Flow with Sensing) Type

FXFQ-S

Round flow with sensing

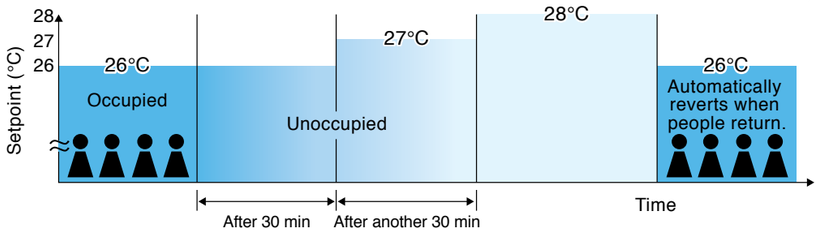


Sensing sensor mode*1.2

Sensing sensor low mode (default: OFF)

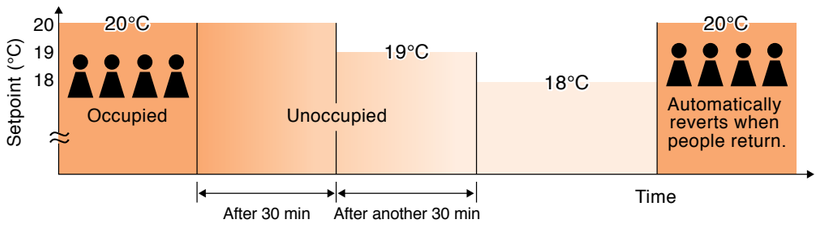
- When there are no people in a room, the set temperature is shifted automatically.
  - The system automatically saves energy by detecting whether or not the room is occupied. The set temperature is shifted automatically if the room is unoccupied.

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.

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



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

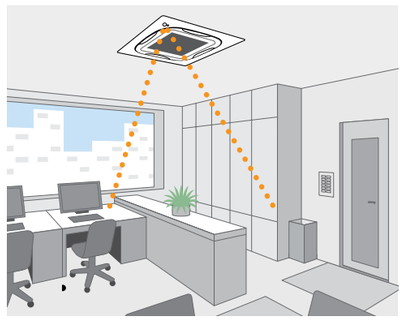
Shift temperature and time can be selected from 0.5 to 4°C in 0.5°C increments and 15, 30, 45, 60, 90 or 120 minutes respectively with remote controller.

Sensing sensor mode*1.2

Sensing sensor stop mode (default: OFF)

- When there are no people in a room, the system stops automatically.*3
  - The system automatically saves energy by detecting whether or not the room is occupied. Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

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

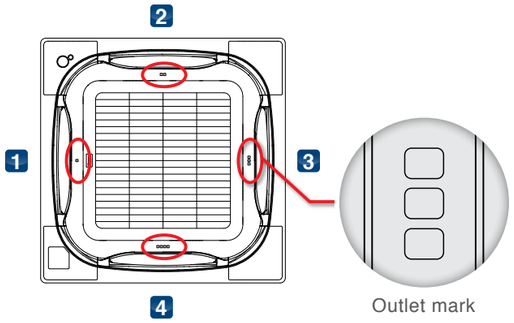


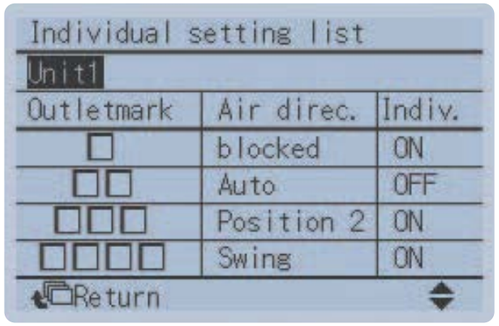
*1.These functions are not available when using the group control system.
*2.User can set these functions with remote controller.
*3.Please note that upon re-entering the room, air conditioner will not switch on automatically.

Individual airflow direction control

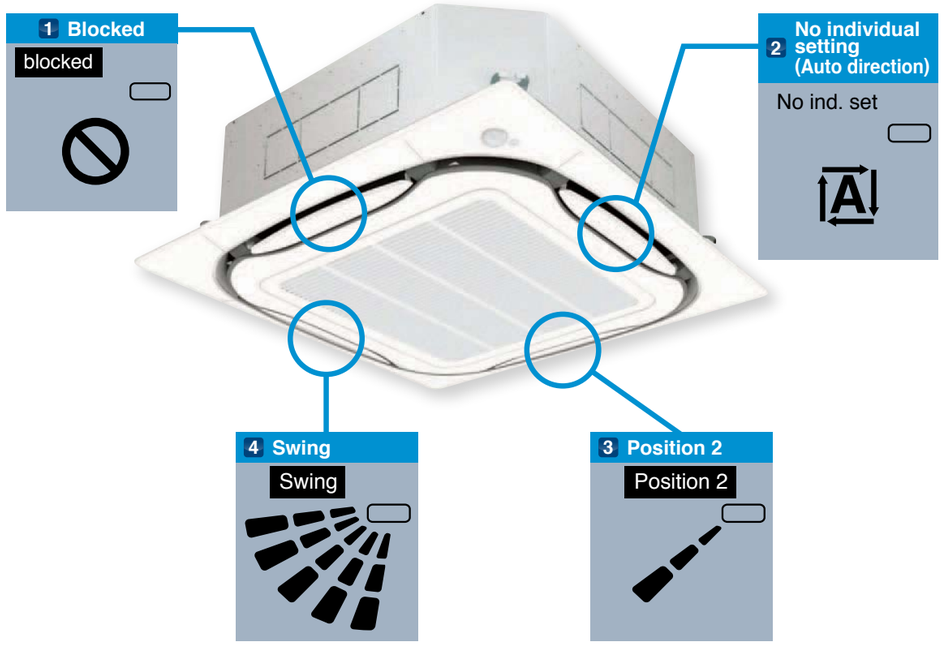
Individual airflow setting

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





Example



Ceiling Mounted Cassette (Round Flow with Sensing) Type

FXFQ-S

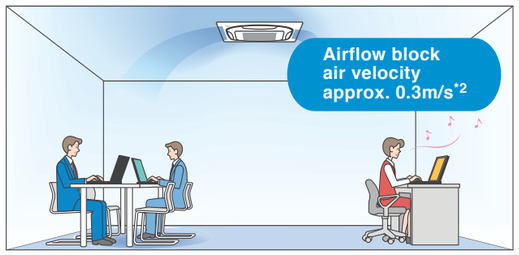
Round flow with sensing

Airflow block function*1

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

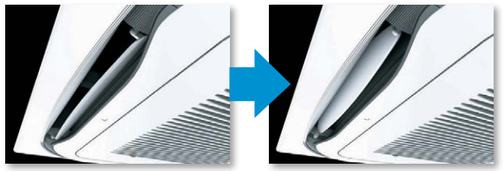
- Airflow block function prevents uncomfortable drafts by reducing air velocity.
  It can be set using the BRC1E62 remote controller. There is no need for sealing material of air discharge outlet (option).

- This function only works when all-round flow is used. It cannot be used when sealing material is used in the air discharge outlet (option).



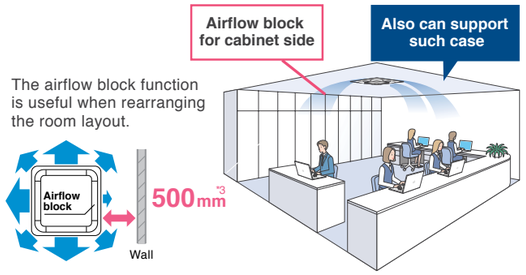
Airflow block function prevents uncomfortable drafts by reducing air velocity to approx. 0.3m/s.*2

Easy setup with remote controller



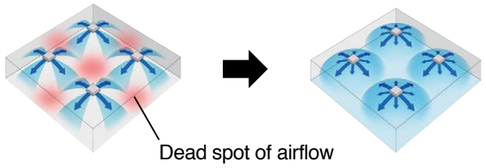
Horizontal flow — Airflow block

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



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

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

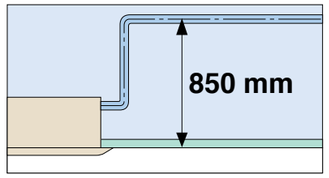


- Improved energy efficiency thanks to a new heat exchanger with smaller tubes, DC fan motor, and DC drain pump motor.

- Low operation sound level

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

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



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

- 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
Heating capacity		kcal/h	2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800
		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600
		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Power consumption	Cooling	kW	0.031		0.041	0.080	0.095		0.194	0.219
	Heating	kW	0.027		0.037	0.075	0.090		0.180	0.199
Casing			Galvanised steel plate							
Airflow rate (H/M/L)		ℓ/s	208/191/166		241/216/183	365/291/224	391/308/224	391/324/249	549/433/316	574/458/349
		m^3/min	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
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
Sound power (H/M/L)		dB(A)	47/45.5/44		48/46/44	53/49/45	55/50/45	55/52/48	60/54/48	61/56/51
Dimensions (H×W×D)		mm	246×840×840						288×840×840	
Machine weight		kg	19			23			26	
Piping connections	Liquid (Flare)	mm	φ6.4				φ9.5			
	Gas (Flare)		φ12.7				φ15.9			
	Drain		VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model		BYCQ125B-W1							
	Colour		Fresh white							
	Dimensions(H×W×D)	mm	50×950×950							
	Weight	kg	5.5							

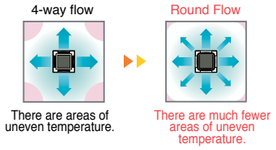
Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity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

Ceiling Mounted Cassette (Round Flow) Type FXFQ-P

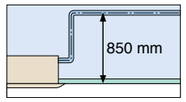
360° airflow improves temperature distribution and offers a comfortable living environment.

ROUND FLOW

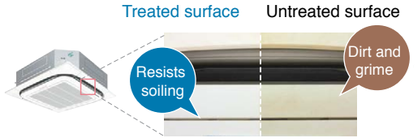
- The industry's first* Round Flow Ceiling Mounted Cassette type offers 360° airflow with improved temperature distribution.
  * As of April 2004, the release date for Japan.



- The light weight unit at 19.5 kg for FXFQ25-50P 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.

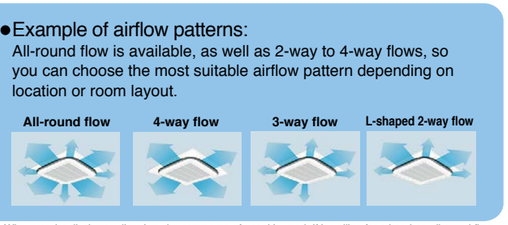


• Condition after exposure to the smoke of 600 cigarettes in 1 m^3 enclosed space.

- Control of the airflow rate can be selected from 3-step control.
- The horizontal louvres prevent dew condensation. Their non-flocking surfaces, which repel dirt, are easy to clean.
- An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.
  (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)

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

- Example of airflow patterns:
  All-round flow is available, as well as 2-way to 4-way flows, so you can choose the most suitable airflow pattern depending on location or room layout.



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

Specifications

MODEL			FXFQ25PVE	FXFQ32PVE	FXFQ40PVE	FXFQ50PVE	FXFQ63PVE	FXFQ80PVE	FXFQ100PVE	FXFQ125PVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling capacity		kcal/h	2,400	3,100	3,900	4,800	6,100	7,700	9,600	12,000
		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800
		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
Heating capacity		kcal/h	2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800
		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600
		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Power consumption	Cooling	kW	0.033		0.047	0.052	0.066	0.093	0.187	0.209
	Heating	kW	0.027		0.034	0.038	0.053	0.075	0.174	0.200
Casing			Galvanised steel plate							
Airflow rate (HH/H/L)		ℓ/s	216/191/166		250/216/183	266/225/183	316/275/225	350/300/250	533/433/333	550/466/375
		m^3/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
Sound level (HH/H/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
Sound power (HH/H/L)		dB(A)	48/46.5/45		49/47/45	50/47.5/45	52/49/46	53/51.5/49	60/54.5/50	61/56/52
Dimensions (H×W×D)		mm	246×840×840						288×840×840	
Machine weight		kg	19.5				22		25	
Piping connections	Liquid (Flare)	mm	ϕ6.4				ϕ9.5			
	Gas (Flare)		ϕ12.7				ϕ15.9			
	Drain		VP25 (External Dia, 32/Internal Dia, 25)							
Panel (Option)	Model		BYCP125K-W1							
	Colour		Fresh white							
	Dimensions(H×W×D)	mm	50X950X950							
	Weight	kg	5.5							

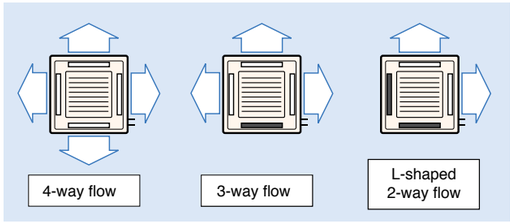
Note: Specifications are based on the following conditions;
- •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
-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

Ceiling Mounted Cassette (Compact Multi Flow) Type FXZQ-A2

Quiet, compact, and designed for user comfort

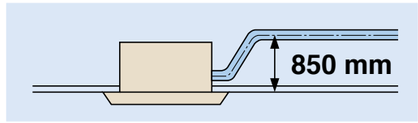
- The newly designed panel integrated fully within one ceiling tile enabling lights, speakers and sprinklers to be installed in the adjoining ceiling tiles.

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

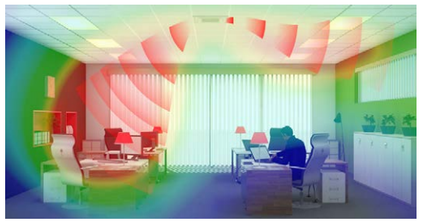


*For 3-way or 2-way flow installation, the **sealing material** for air discharge outlet (option) must be used to close each unused outlet.

- Dimensions correspond with 600 mm X 600 mm architectural module ceiling design specifications.
- Drain pump is equipped as standard accessory with 850 mm lift.



- An optional presence and floor sensor kit (BRYQ60A2W) can be fitted to the cassette for draught prevention, energy saving operation and to avoid temperature stratification during heating.



Specifications

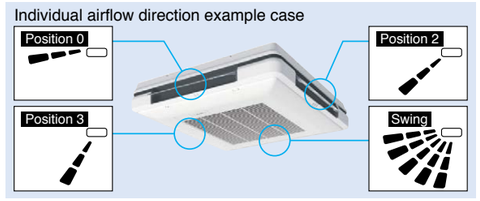
MODEL			FXZQ20A2VEB	FXZQ25A2VEB	FXZQ32A2VEB	FXZQ40A2VEB	FXZQ50A2VEB
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800
		Btu/h	7,500	9,600	12,300	15,400	19,100
		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400
		Btu/h	8,500	10,900	13,600	17,100	21,500
		kW	2.5	3.2	4.0	5.0	6.3
Power consumption	Cooling	kW	0.043		0.045	0.059	0.092
	Heating	kW	0.036		0.038	0.053	0.086
Casing			Galvanised steel plate				
Airflow rate (H/ML)		ℓ/s	145/125/108	150/133/108	167/142/117	192/158/133	242/208/167
		m^3/min	8.7/7.5/6.5	9/8/6.5	10/8.5/7	11.5/9.5/8	14.5/12.5/10
Sound level (H/L)	240 V	dB(A)	32/29.5/25.5	33/30/25.5	33.5/30/26	37/32/28	43/40/33
Sound power (H)	240 V	dB(A)	49	50	51	54	60
Dimensions (H×W×D)		mm	260×575×575 (For depth add 63mm for electrical box)				
Machine weight		kg	15.5	15.5	16.5	16.5	18.5
Piping connections	Liquid (Flare)	mm	ϕ6.4				
	Gas (Flare)		ϕ12.7				
	Drain		VP20 (External Dia, 26/Internal Dia, 20)				
Panel (Option)	Model		BYFQ60C2W1W				
	Colour		White (N9.5)				
	Dimensions(H×W×D)	mm	46x620x620				
	Weight	kg	2.8				

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

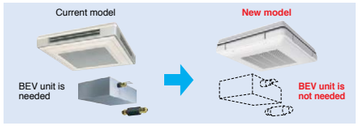
4-way Flow Ceiling Suspended Type FXUQ-A

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

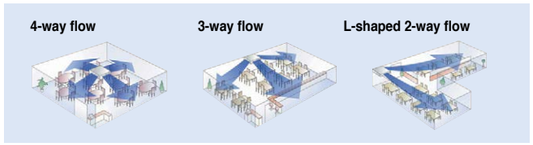
- Unit body and suction panel adopted round shapes and realised a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bare ceilings.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198 mm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



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



- 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

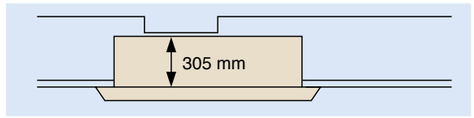
MODEL			FXUQ71AVEB	FXUQ100AVEB
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz	
Cooling capacity		kcal/h	6,900	9,600
		Btu/h	27,300	38,200
		kW	8.0	11.2
Heating capacity		kcal/h	7,700	10,800
		Btu/h	30,700	42,700
		kW	9.0	12.5
Power consumption	Cooling	kW	0.090	0.200
	Heating	kW	0.073	0.179
Casing			Fresh white	
Airflow rate (H/M/L)		ℓ/s	375/325/267	517/433/350
		m³/min	22.5/19.5/16	31/26/21
Sound level (H/M/L)		dB(A)	40/38/36	47/44/40
Sound power (H/M/L)		dB(A)	58/56/54	65/62/58
Dimensions (H×W×D)		mm	198×950×950	
Machine weight		kg	26	27
Piping connections	Liquid (Flare)	mm	ϕ9.5	
	Gas (Flare)		ϕ15.9	
	Drain		VP20 (External Dia, 26/Internal Dia, 20)	

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

Ceiling Mounted Cassette (Double Flow) Type FXCQ-M

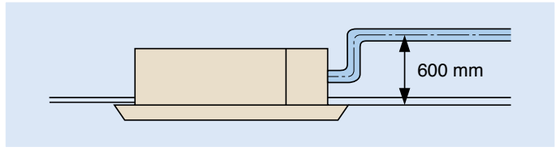
Thin, lightweight, and easy to install in narrow ceiling spaces

- 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.)

- 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

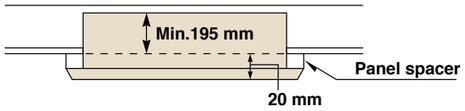
MODEL			FXCQ20MVE	FXCQ25MVE	FXCQ32MVE	FXCQ40MVE	FXCQ50MVE	FXCQ63MVE	FXCQ80MVE	FXCQ125MVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	7,700	12,000
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	47,800
		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400	6,900	8,600	13,800
		Btu/h	8,500	10,900	3,600	17,100	21,500	27,300	34,100	54,600
		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power consumption	Cooling	kW	0.077	0.092		0.130		0.106	0.209	0.256
	Heating	kW	0.044	0.059		0.097		0.126	0.176	0.223
Casing			Galvanised steel plate							
Airflow rate (H/L)		ℓ/s	116/83	150/108		200/150		275/216	433/350	550/416
		m³/min	7/5	9/6.5		12/9		16.5/13	26/21	33/25
Sound level (H/L)	240 V	dB(A)	34/29	36/30		37/32		39/34	41/36	46/40
Dimensions (H×W×D)		mm	305×775×600			305×990×600		305×1,175×600	305×1,665×600	
Machine weight		kg	26.0			31.0	32.0	35.0	47.0	48.0
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		BYBC32G-W1			BYBC50G-W1		BYBC63G-W1	BYBC125G-W1	
	Colour		White (10Y9/0.5)							
	Dimensions(H×W×D)	mm	53×1,030×680			53×1,245×680		53×1,430×680	53×1,920×680	
	Weight	kg	8.0			8.5		9.5	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.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Ceiling Mounted Cassette Corner Type FXKQ-MA

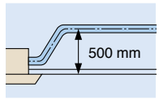
Slim design for flexible installation

●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.

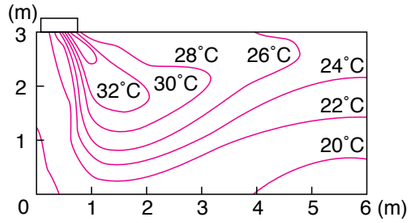
●Drain pump is equipped as standard accessory with 500 mm lift.



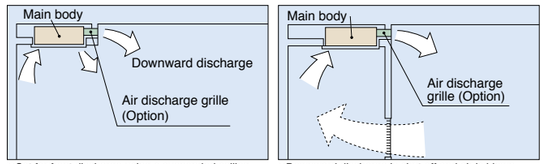
●A long-life filter (maintenance free up to one year*) is equipped as standard accessory.

* 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			FXKQ25MAVE	FXKQ32MAVE	FXKQ40MAVE	FXKQ63MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz			
Cooling capacity		kcal/h	2,400	3,100	3,900	6,100
		Btu/h	9,600	12,300	15,400	24,200
		kW	2.8	3.6	4.5	7.1
Heating capacity		kcal/h	2,800	3,400	4,300	6,900
		Btu/h	10,900	13,600	17,100	27,300
		kW	3.2	4.0	5.0	8.0
Power consumption	Cooling	kW	0.066		0.076	0.105
	Heating	kW	0.046		0.056	0.085
Casing			Galvanised steel plate			
Airflow rate (H/L)		ℓ/s	183/150		216/166	300/250
		m³/min	11/9		13/10	18/15
Sound level (H/L)	240 V	dB(A)	40/35		42/36	44/39
Dimensions (H×W×D)		mm	215X1,110X710			215X1,310X710
Machine weight		kg	31			34
Piping connections	Liquid (Flare)	mm	ϕ6.4			ϕ95
	Gas (Flare)		ϕ12.7			ϕ15.9
	Drain		VP25 (External Dia, 32/Internal Dia, 25)			
Panel (Option)	Model		BYK45FJW1			BYK71FJW1
	Colour		White (10Y9/0.5)			
	Dimensions(H×W×D)	mm	70X1,240X800			70X1,440X800
	Weight	kg	8.5			9.5

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

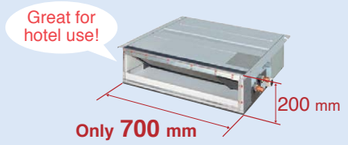
Slim Ceiling Mounted Duct Type (Standard Series) FXDQ-PB / NB

Slim design, quietness and static pressure switching

Suited to use in drop-ceilings!

FXDQ20PB / FXDQ25PB / FXDQ32PB (700 mm width type)

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

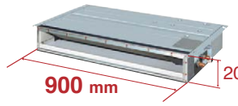


●Control of the airflow rate has been improved from 2-step to 3-step control.

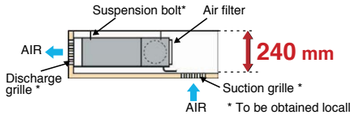
●External static pressure selectable by remote controller switching make this indoor unit a very comfortable and flexible model.
10 Pa-30 Pa/factory set: 10 Pa for FXDQ-PB models.
15 Pa-44 Pa/factory set: 15 Pa for FXDQ-NB models.

FXDQ40NB / FXDQ50NB / FXDQ63NB (900/1,100 mm width type)

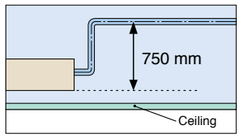
●Only 200 mm in height, this model can be installed in rooms with as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab.



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



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



Specifications

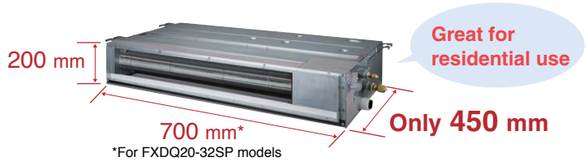
MODEL			FXDQ20PBVE	FXDQ25PBVE	FXDQ32PBVE	FXDQ40NBVE	FXDQ50NBVE	FXDQ63NBVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.086		0.089	0.160	0.165	0.181
	Heating	kW	0.067		0.070	0.147	0.152	0.168
Casing			Galvanised steel plate					
Airflow rate (HH/H/L)		ℓ/s	133/120/106			175/158/141	208/183/166	275/241/216
		m³/min	8.0/7.2/6.4			10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
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
Sound power (HH/H/L)		dB(A)	56/54/51		56/54/52	58/56/54	61/58/55	61/59/57
Dimensions (H×W×D)		mm	200×700×620			200×900×620		200×1,100×620
Machine weight		kg	23.0			27.0	28.0	31.0
Piping connections	Liquid (Flare)	mm	ϕ6.4					
	Gas (Flare)		ϕ12.7					
	Drain		VP20 (External Dia, 26/Internal Dia, 20)			VP20 (External Dia, 26/Internal Dia, 20)		

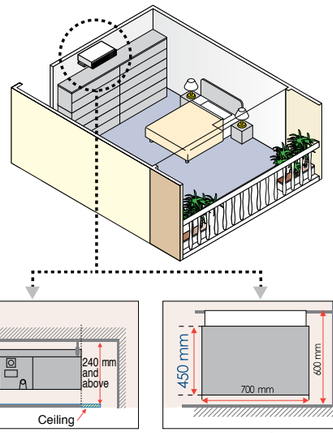
Note: Specifications are based on the following conditions;
•Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
•Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
•Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
•Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
During actual operation, these values are normally somewhat higher as a result of ambient conditions.
★1 : Values are based on the following conditions: FXDQ-PB: external static pressure of 10 Pa; FXDQ-NB: external static pressure of 15 Pa.
★2 : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard".(Factory setting is 10 Pa for FXDQ-PB models and 15 Pa for FXDQ-NB models.)
★3 : The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Slim Ceiling Mounted Duct Type (Compact Series) FXDQ-SP

Slim and compact design for easy and flexible installation

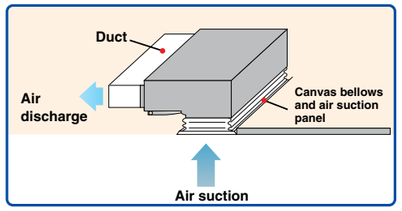
- It comes with a slim and compact design with a height of only 200 mm that requires as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab. The depth of the product is only 450 mm which is suitable to install in limited spaces.

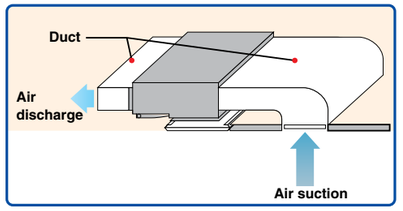




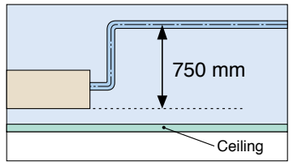
Standard Closet size

- 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.



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
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption ★1	Cooling	kW	0.072	0.075	0.078	0.180	0.180	0.196
	Heating	kW	0.056	0.059	0.062	0.152	0.152	0.168
Casing			Galvanised steel plate					
Airflow rate (HH/H/L)		ℓ/s	145/127/108	150/133/117	167/150/133	250/217/175		333/267/208
		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
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
Sound power (HH/H/L)		dB(A)	61/59/57		62/60/58	63/61/59		65/63/61
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	ϕ6.4					ϕ9.5
	Gas (Flare)		ϕ12.7					ϕ15.9
	Drain		VP20 (External Dia, 26/Internal Dia, 20)					

Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 5.0 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 5.0 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

1 : Values are based on the following conditions: FXDQ20-32SP: external static pressure of 10 Pa; FXDQ40-63SP: external static pressure of 20 Pa.
2 : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factorysetting is 10 Pa for FXDQ20-32SP models and 20 Pa for FXDQ40-63SP models.)
3 : The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Ceiling Concealed (Duct) Type FXDYQ-MA

High static pressure offers flexible duct design that blends in with any interior décor in stores and offices

- High efficiency Hi-X heat exchanger coils that provide even more energy savings.
- High external static pressure allows comprehensive duct layout for various applications.
  120 Pa for FXDYQ80MA–145MA
- Design of indoor units allows installation in limited roof spaces.
- Return air spigots included for ease of installation for FXDYQ80MA-145MA models.
- Two external static pressure settings for added flexibility.
- Quiet yet powerful supply air fan.
- High strength galvanised steel casing.

Specifications

MODEL			FXDYQ80MAV1	FXDYQ100MAV1	FXDYQ125MAV1	FXDYQ145MAV1
Power supply			1-phase, 220-240 V, 50 Hz			
Cooling capacity		kcal/h	7,600	9,600	12,000	13,800
		Btu/h	30,000	38,200	47,400	54,600
		kW	8.8	11.2	13.9	16.0
Heating capacity		kcal/h	8,480	10,800	13,800	15,800
		Btu/h	33,800	42,700	54,600	62,800
		kW	9.9	12.5	16.0	18.4
Power consumption	Cooling	kW	0.415	0.700	0.780	0.880
	Heating	kW	0.415	0.700	0.780	0.880
Casing			Galvanised steel plate			
Airflow rate (H)		ℓ/s	510	778	852	957
		m³/min	30.6	46.7	51.1	57.4
External static pressure		Pa	120 ★1			
Sound level (H/L)	240 V	dB(A)	45	46	48	51
Dimensions (H×W×D)		mm	360×1168×869		360×1478×899	
Machine weight		kg	50	60	65	66
Piping connections	Liquid (Flare)	mm	ϕ 9.5			
	Gas (Flare)		ϕ15.9			
	Drain		VP25 (External Dia, 32/Internal Dia, 25)			

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

★1: External static pressure can be adjusted from 'Standard' to 'High' static pressure operation by switching the jumper position in the electrical box. The data above is for high static pressure setting.

Middle Static Pressure Ceiling Mounted Duct Type

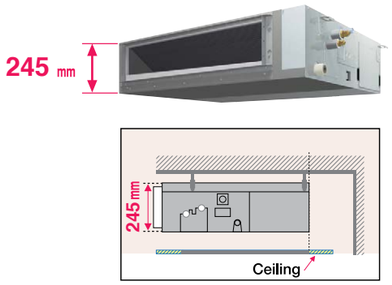
FXSQ-P

Middle external static pressure and slim design allow flexible installations

Installation flexibility

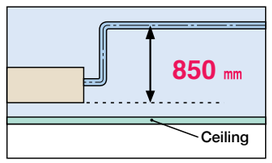
Slim design

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



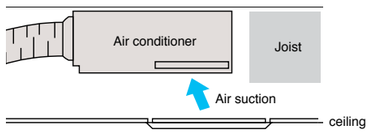
Standard DC drain pump

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



Bottom suction possible

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

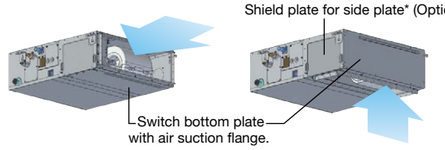


- Air suction direction can be altered from rear to bottom suction.

•Rear suction

•Bottom suction

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.

Adjustable external static pressure

30 Pa* — 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

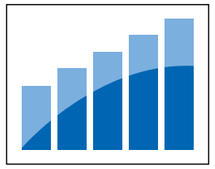
Comfort

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

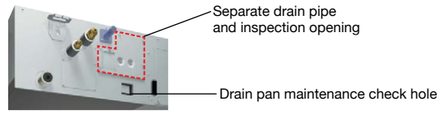
Airflow rate auto adjustment function

- 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.

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.

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

Specifications

MODEL			FXSQ20PVE	FXSQ25PVE	FXSQ32PVE	FXSQ40PVE	FXSQ50PVE	FXSQ63PVE	FXSQ80PVE	FXSQ100PVE	FXSQ125PVE	FXSQ140PVE
Power supply			1-phase, 220-240/220 V, 50/60 Hz									
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100	7,700	9,600	12,000	13,800
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800	15,500
		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600	61,400
		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	18.0
Capacity index			20	25	32	40	50	63	80	100	125	140
Power consumption	Cooling	kW	0.058 ★1		0.066 ★1	0.101 ★1	0.075 ★1	0.106 ★1	0.126 ★1	0.151 ★1	0.206 ★1	0.222 ★1
	Heating	kW	0.053 ★1		0.061 ★1	0.096 ★1	0.070 ★1	0.101 ★1	0.121 ★1	0.146 ★1	0.201 ★1	0.217 ★1
Casing			Galvanised steel plate									
Airflow rate (H/M/L)		ℓ/s	150/125/108		158/133/116	250/208/175	283/242/192	350/292/242	383/325/267	533/450/375	617/525/433	650/558/467
		m^3/min	9/7.5/6.5		9.5/8/7	15/12.5/10.5	17/14.5/11.5	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26	39/33.5/28
External static pressure		Pa	30-150 (50) ★2				50-150 (50) ★2					50-140 (50)
Sound level (H/M/L)		dB(A)	33/30/28		34/32/30	36/33/30	34/32/29	36/32/29	37.5/34/30	39/35/32	42/38.5/35	43/40/36
Sound power (H)		dB(A)	61		62	64	62	64	65.5	67	70	71
Dimensions (H×W×D)		mm	245×550×800			245x700x800	245×1,000×800			245×1,400×800		245x1,550x800
Weight		kg	25			27	35		37	46	47	52
Piping connections	Liquid (Flare)	mm	⌀6.4					⌀9.5				
	Gas (Flare)		⌀12.7					⌀15.9				
	Drain		VP25 (External Dia, 32/Internal Dia, 25)									

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

Middle and high static pressure allows for flexible duct design

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

FXMQ160P / FXMQ180P / FXMQ200P
FXMQ250P

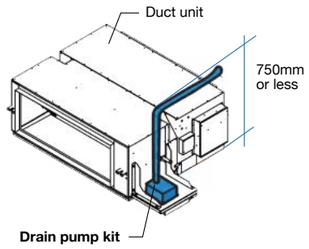
- Each model is fitted with a high efficiency DC fan motor with adjustable external static pressure to suit your duct design. The available ranges for each model are listed below:
  30 Pa – 100 Pa for FXMQ20-32P
  30 Pa – 160 Pa for FXMQ40P
  50 Pa – 200 Pa for FXMQ50-125P
  50 Pa – 140 Pa for FXMQ140P
  60 Pa – 217 Pa for FXMQ160P
  50 Pa – 210 Pa for FXMQ180P
  50 Pa – 250 Pa for FXMQ200-250P

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

- FXMQ20-140P models are only 300mm in height making it ideal for use in modern commercial and medium density apartment development where ceiling spaces are tight.

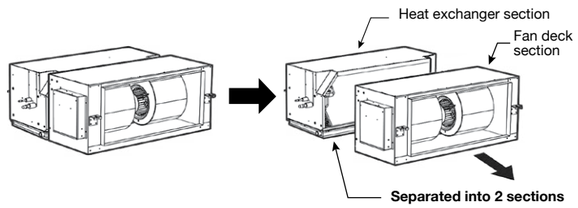
- Airflow rate control from the controller has been improved from 2 step to 3 step for greater user control.

- A built-in drain pump with 700mm lift is equipped as a standard accessory for FXMQ20-140P models. For FXMQ160-250P models, a 750mm drain pump kit is available as an optional accessory.



- Automatic Airflow Adjustment feature allows the fan speed to adjust automatically to suit your duct design during commissioning, simplifying the process and saving time. The airflow is adjusted to a range between ±10% of the model's rated airflow.

- To facilitate installation, the FXMQ160-250P models can be separated into 2 sections for convenient handling and easier installation through openings in the ceiling.



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
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400
		Btu/h	8,500	10,900	13,600	17,100	21,500
		kW	2.5	3.2	4.0	5.0	6.3
Power consumption *1	Cooling	kW	0.056		0.060	0.151	0.128
	Heating	kW	0.044		0.048	0.139	0.116
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)		ℓ/s	150/125/108		158/133/116	267/216/183	300/275/250
		m^3/min	9/7.5/6.5		9.5/8/7	16/13/11	18/16.5/15
External static pressure*2		Pa	30-100 (50)			30-160 (100)	50-200 (100)
Sound level (HH/H/L)		dB(A)	33/31/29		34/32/30	39/37/35	41/39/37
Sound power (H)		dB(A)	51		52	57	59
Dimensions (H×W×D)		mm	300x550x700			300x700x700	300x1,000x700
Machine weight		kg	25			28	36
Piping connections	Liquid (Flare)	mm	ϕ6.4				
	Gas (Flare)		ϕ12.7				
	Drain		VP25 (External Dia, 32/Internal Dia, 25)				

MODEL			FXMQ63PVE	FXMQ80PVE	FXMQ100PVE	FXMQ125PVE	FXMQ140PVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		kcal/h	6,100	7,700	9,600	12,000	13,800
		Btu/h	24,200	30,700	38,200	47,800	54,600
		kW	7.1	9.0	11.2	14.0	16.0
Heating capacity		kcal/h	6,900	8,600	10,800	13,800	15,500
		Btu/h	27,300	34,100	42,700	54,600	61,400
		kW	8.0	10.0	12.5	16.0	18.0
Power consumption *1	Cooling	kW	0.138	0.185	0.215	0.284	0.405
	Heating	kW	0.127	0.173	0.203	0.272	0.380
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)		ℓ/s	325/292/267	417/375/333	533/450/383	650/550/466	766/649/533
		m^3/min	19.5/17.5/16	25/22.5/20	**32/27/23**	39/33/28	46/39/32
External static pressure*2		Pa	50-200 (100)				50-140 (100)
Sound level (HH/H/L)		dB(A)	42/40/38	43/41/39		44/42/40	46/45/43
Sound power (H)		dB(A)	60	61		62	64
Dimensions (H×W×D)		mm	300x1,000x700		300x1,400x700		
Machine weight		kg	36		46		47
Piping connections	Liquid (Flare)	mm	ϕ9.5				
	Gas (Flare)		ϕ15.9				
	Drain		VP25 (External Dia, 32/Internal Dia, 25)				

MODEL			FXMQ160PV1A	FXMQ180PV1A	FXMQ200PV1A	FXMQ250PV1A
Power supply			1-phase, 220-240 V, 50 Hz			
Cooling capacity		kcal/h	15,500	17,200	19,300	24,100
		Btu/h	61,400	68,200	76,400	95,500
		kW	18.0	20.0	22.4	28.0
Heating capacity		kcal/h	17,200	19,300	21,500	27,100
		Btu/h	68,200	76,400	85,300	107,500
		kW	20.0	22.4	25.0	31.5
Power consumption*1	Cooling	kW	0.820	0.650	0.640	0.810
	Heating	kW	0.820	0.650	0.640	0.810
Casing			Galvanised steel plate			
Airflow rate (H/M/L)		l/s	1,120/955/790	1,160/995/820	1,200/1,025/850	1,400/1,200/1,000
		m^3/min	67.2/57.3/47.4	69.6/59.7/49.2	72/61.5/51	84/72/60
External static pressure*2		Pa	60-217 (138)	50-210 (130)	50-250 (150)	50-250 (150)
Sound level (H/M/L)		dB(A)	45/41.5/38	45/41.5/38	44/30.5/37	46/42.5/39
Dimensions (HxWxD)		mm	470x1,133x919			
Machine weight		kg	70		79	85
Piping connections	Liquid	mm	Ø9.5 (Flare)	Ø9.5 (Brazing)		
	Gas		Ø15.9 (Flare)	Ø19.1 (Brazing)		Ø22.2 (Brazing)
	Drain		BSP 3/4 Inch Internal Thread			

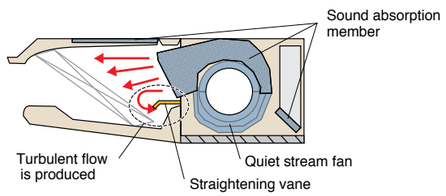
Note: Specifications are based on the following conditions;
- •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
  During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- ★1: Power consumption values are based on conditions of rated external static pressure.
- ★2: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32P), thirteen (FXMQ40P), fourteen (FXMQ50-125P), ten (FXMQ140P) or fifthteen (FXMQ160-250P) levels of control.
  These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa for FXMQ20-32P 100 Pa for FXMQ40-140P, 138 Pa for FXMQ160P, 130 Pa for FXMQ180P and 150 Pa for FXMQ200-250P.

Ceiling Suspended Type FXHQ-MA

Slim body with quiet and wide airflow

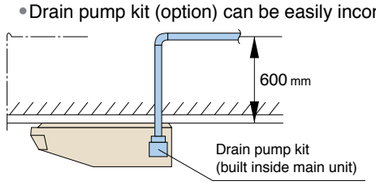
●Adoption of QUIET STREAM FAN

Uses the quiet stream fan and many more advanced technologies.

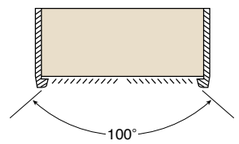


●Installation is easy

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



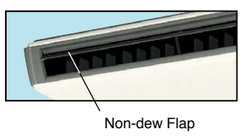
●Wide air discharge openings produce a spreading 100° airflow.



●Maintenance is easy

•Non-dew Flap with no implanted bristles

Bristle-free Flap minimises contamination and makes cleaning simpler.



•Easy-to-clean flat design

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

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

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

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
Heating capacity		kcal/h	3,400	6,900	10,800
		Btu/h	13,600	27,300	42,700
		kW	4.0	8.0	12.5
Power consumption	Cooling	kW	0.111	0.115	0.135
	Heating	kW	0.111	0.115	0.135
Casing			White (10Y9/0.5)		
Airflow rate (H/L)		ℓ/s	200/166	291/233	416/325
		m^3/min	12/10	17.5/14	25/19.5
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	
	Gas (Flare)		ϕ12.7	ϕ15.9	
	Drain		VP20 (External Dia, 26/Internal Dia, 20)		

Note: Specifications are based on the following conditions;
- •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°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

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.

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

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

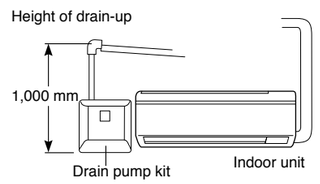
●5 steps of discharge angle can be set by remote controller.

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

●Flexible installation

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

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



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
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.019	0.028	0.030	0.020	0.033	0.050
	Heating	kW	0.029	0.034	0.035	0.020	0.039	0.060
Casing			White (3.0Y8.5/0.5)					
Airflow rate (H/L)		ℓ/s	125/75	133/83	142/91	200/150	250/200	316/233
		m^3/min	7.5/4.5	8/5	8.5/5.5	12/9	15/12	19/14
Sound level (H/L)		dB(A)	35/31	36/31	38/31	39/34	42/37	47/41
Dimensions (H×W×D)		mm	290×795×238			290×1,050×238		
Machine weight		kg	11.0			14.0		
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flare)		ϕ12.7					ϕ15.9
	Drain		VP13 (External Dia, 18/Internal Dia, 13)					

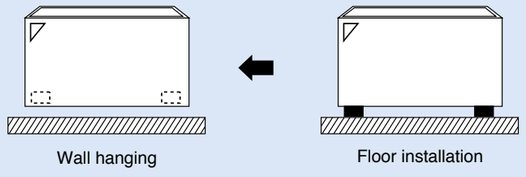
Note: Specifications are based on the following conditions;
- •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- •Sound level: Anechoic chamber conversion value, measured at a point 1 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

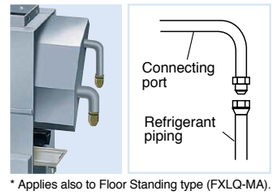
MODEL			FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.049		0.090		0.110	
	Heating	kW	0.049		0.090		0.110	
Casing			FXLQ: Ivory white (5Y7.5/1)					
Airflow rate (H/L)		ℓ/s	116/100		133/100	183/141	233/183	266/200
		m³/min	7/6		8/6	11/8.5	14/11	16/12
Sound level (H/L)	240 V	dB(A)	37/34			40/35	41/36	42/37
Dimensions (H×W×D)	FXLQ	mm	600×1,000×222		600×1,140×222		600×1,420×222	
Machine weight	FXLQ	kg	25.0		30.0		36.0	
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flare)		ϕ12.7					ϕ15.9
	Drain		21O.D.					

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

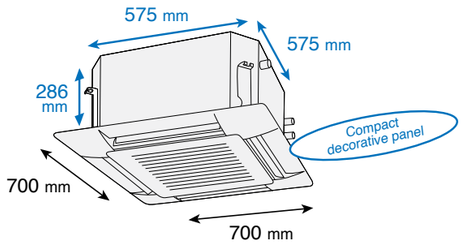
MODEL			FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		kcal/h	1,900	2,400	3,100	3,900	4,800	6,100
		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		kcal/h	2,200	2,800	3,400	4,300	5,400	6,900
		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.049		0.090		0.110	
	Heating	kW	0.049		0.090		0.110	
Casing			FXNQ: Galvanised steel plate					
Airflow rate (H/L)		ℓ/s	116/100		133/100	183/141	233/183	266/200
		m³/min	7/6		8/6	11/8.5	14/11	16/12
Sound level (H/L)	240 V	dB(A)	37/34			40/35	41/36	42/37
Dimensions (H×W×D)	FXNQ	mm	610×930×220		610×1,070×220		610×1,350×220	
Machine weight	FXNQ	kg	19.0		23.0		27.0	
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flare)		ϕ12.7					ϕ15.9
	Drain		21O.D.					

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

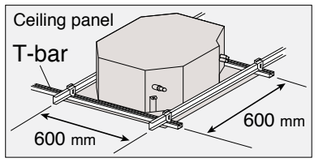
Ceiling Mounted Cassette (Compact Multi Flow) Type FFQ-B

Quiet, compact, and designed for user comfort

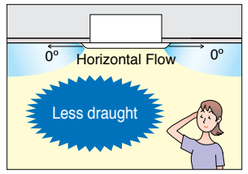
●Designed to fit 600 mm wide ceiling grids



●T-bar grid does not need to be cut.



●Low draft performance is designed for your comfort.



Option

Note: Remote controller cables not included. Cables should be obtained locally.

Option

Signal receiver unit

Note: Wireless remote controllers and signal receiver units are sold as a set.

●Comfortable across all areas

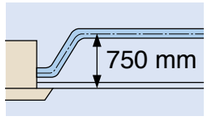
Conditioned air is distributed evenly by Auto-swing operation.

Adjustable airflow angle to suit all room conditions.

	AUTO-SWING	5 direction
Standard setting	0° 60° Auto-swing between 0°and 60°	0° 60° Settable to 5 different levels between 0°and 60°
Draft prevention setting (Set on site)	0° 35° Auto-swing between 0°and 35°	0° 35° Settable to 5 different levels between 0°and 35°
Setting to prevent soiling of ceiling (Set on site)	25° 60° Auto-swing between 25°and 60°	25° 60° Settable to 5 different levels between 25°and 60°

Note: Angles shown above are provided as a guide. They may differ depending on the installation site.

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



Specifications

MODEL			FFQ25BV1B	FFQ35BV1B	FFQ50BV1B	FFQ60BV1B
Power supply			1-phase, 220-240 V, 50 Hz			
Airflow rate (H)		m³/min(ℓ/s)	9.0 (150)	10.0 (167)	12.0 (200)	15.0 (250)
Sound level (H/L)*		dB(A)	29.5/24.5	32/25	36/27	41/32
Sound power level (H)		dB(A)	46.5	49	53	58
Fan speed			2 steps			
Temperature control			Microcomputer control			
Dimensions (H×W×D)		mm	286x575x575			
Machine weight		kg	17.5			
Piping connections	Liquid (Flare)	mm	ϕ6.4			
	Gas (Flare)		ϕ9.5		ϕ12.7	
	Drain		VP20 (External Dia. 26/Internal Dia. 20)			
Heat insulation			Both liquid and gas pipes			
Panel (Option)	Model		BYFQ60B3W1			
	Colour		White			
	Dimensions(H×W×D)	mm	55x700x700			
	Weight	kg	2.7			
Cooling capacity		kW	2.5	3.5	5.0	6.0
Heating capacity		kW	3.2	4.4	6.3	7.6

Note: *Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.
Capacities shown are indicative only, based on the conditions listed here.
Cooling: Indoor Temp: 27°CDB/19°CWB
Heating: Indoor Temp: 20°CDB
The actual capacity output of the indoor unit depends on factors such as the selected model of outdoor units, indoor air & outdoor air temperature and piping length.

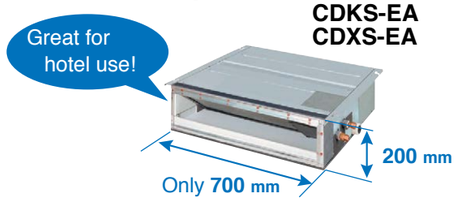
Slim Ceiling Mounted Duct Type CDKS-EA/C / C(F)DXS-EA/C

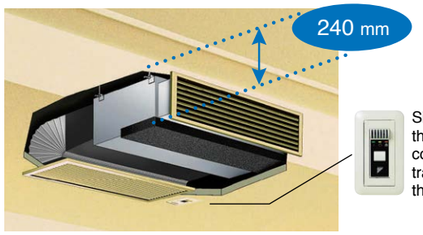
Slim and smooth design suits your shallow ceiling

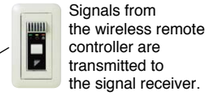
Standard accessory

Option

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



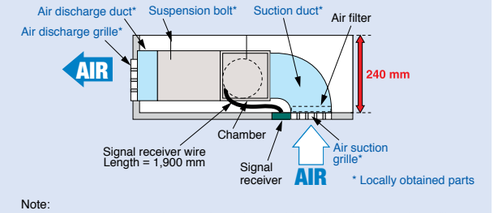




Signals from the wireless remote controller are transmitted to the signal receiver.

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

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



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

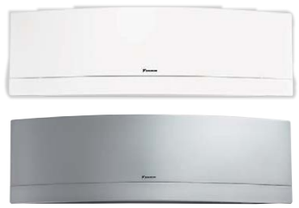
Specifications

MODEL		Cooling Only	CDKS25EAVMA	CDKS35EAVMA	CDKS25CVMA	CDKS35CVMA	CDKS50CVMA	CDKS60CVMA
		Heat Pump	CDXS25EAVMA	CDXS35EAVMA	FDXS25CVMA	FDXS35CVMA	FDXS50CVMA	FDXS60CVMA
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz					
Airflow rate (H)		m³/min(ℓ/s)	8.7 (145)		9.5 (158)	10.0 (167)	12.0 (200)	16.0 (267)
Sound level (H/L/SL)*		dB(A)	35/31/29				37/33/31	38/34/32
Sound power (H)		dB(A)	53				55	56
Fan speed			5 steps, quiet and automatic					
Temperature control			Microcomputer control					
Dimensions (H×W×D)		mm	200x700x620		200x900x620			200x1,100x620
Machine weight		kg	21		25		27	30
Piping connections	Liquid (Flare)	mm	ϕ6.4					
	Gas (Flare)		ϕ9.5				ϕ12.7	
	Drain		VP20 (External Dia. 26/Internal Dia. 20)					
Heat insulation			Both liquid and gas pipes					
External static pressure		Pa	30		40			
Cooling capacity		kW	2.5	3.5	2.5	3.5	5.0	6.0
Heating capacity		kW	3.2	4.4	3.2	4.4	6.3	7.6

Note: * The operation sound level values represent those for rear-suction operation and an external static pressure of 30 Pa for CDK(X)S-EA and 40 Pa for C(F)DK(X)S-C. Sound level values for bottom-suction operation can be obtained by adding 6 dB (A) for CDK(X)S-EA and 5 dB (A) for C(F)DK(X)S-C.
Capacities shown are indicative only, based on the conditions listed here.
Cooling: Indoor Temp: 27°CDB/19°CWB
Heating: Indoor Temp: 20°CDB
The actual capacity output of the indoor unit depends on factors such as the selected model of outdoor units, indoor air & outdoor air temperature and piping length.

Wall Mounted Type — CTXG-P

Elegant appearance with European style



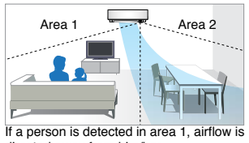
Standard accessory

reddot award 2014 winner

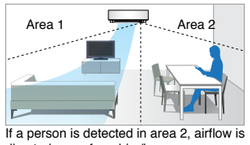
German Design Award SPECIAL MENTION 2015

●Elegant Appearance with Curved Panel
- The sleek design of the CTXG-P indoor unit features a uniquely European style. This elegant body houses state-of-the-art technology which delivers superior performance. The CTXG-P series offers a versatile choice for home-owners, designers and architects alike.

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

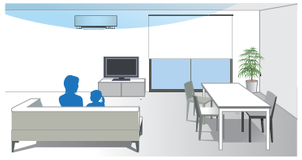


If a person is detected in area 1, airflow is directed away from him/her.

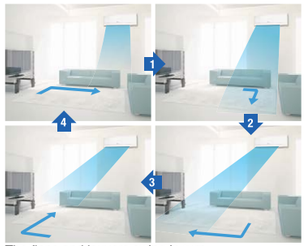


If a person is detected in area 2, airflow is directed away from him/her.

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



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



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

Specifications

MODEL			CTXG25PVMAW	CTXG25PVMAS	CTXG35PVMAW	CTXG35PVMAS	CTXG50PVMAW	CTXG50PVMAS
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel colour			White	Silver	White	Silver	White	Silver
Airflow rate (H)	Cooling	m³/min(ℓ/s)	8.3 (138)		10.6 (177)		10.8 (180)	
	Heating		10.4 (173)		11.9 (198)		12.4 (207)	
Sound level (H/L/SL)	Cooling	dB(A)	38/25/21		45/26/22		46/35/32	
	Heating		41/28/21		45/29/22		47/35/32	
Sound power (H)	Cooling	dB(A)	54		61		62	
	Heating		57		61		63	
Fan speed			5 steps, quiet and automatic					
Temperature control			Microcomputer control					
Dimensions (H×W×D)		mm	303x998x212					
Machine weight		kg	12					
Piping connections	Liquid (Flare)	mm	ϕ6.4					
	Gas (Flare)		ϕ9.5				ϕ12.7	
	Drain		ϕ18.0					
Heat insulation			Both liquid and gas pipes					
Cooling capacity		kW	2.5	2.5	3.5	3.5	5.0	5.0
Heating capacity		kW	3.2	3.2	4.4	4.4	6.3	6.3

Note: Capacities shown are indicative only, based on the conditions listed here.
Cooling: Indoor Temp: 27°CDB/19°CWB
Heating: Indoor Temp: 20°CDB
The actual capacity output of the indoor unit depends on factors such as the selected model of outdoor units, indoor air & outdoor air temperature and piping length.

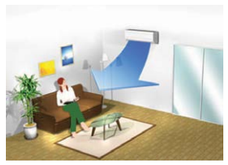
Wall Mounted Type — FTKS-K / FTXS-KA

Stylish flat panel harmonises with your interior décor

Standard accessory

Option

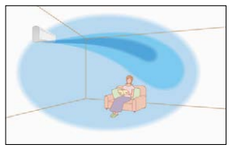
●Intelligent Eye with its infrared sensor automatically controls air conditioner operation according to human movement in a room. When there is no movement, it adjusts the temperature by 2˚C for energy savings.



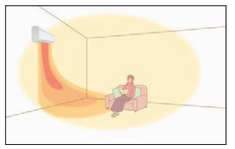
When you are in the room

When you go out

●Comfort Airflow Mode prevents uncomfortable drafts from blowing directly on to your body. With this function, when you press the COMFORT button during cooling operation, the flap moves upward to prevent direct cold drafts. During heating operation, it also moves downward to prevent direct drafts and deliver warm air to the floor.



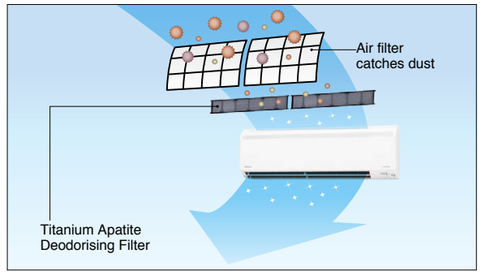
Cooling operation



Heating operation

Titanium Apatite Deodorising Filter

●While the filter's micron-level fibres trap dust, titanium apatite effectively adsorbs odours and allergens, as well as deodorises odours.



This filter is not a medical device. Benefits such as the adsorption of odours and allergens and deodorisation of odours are only effective for substances which are directly attached to the Titanium Apatite Deodorising Filter.

Specifications

MODEL			Cooling Only	FTKS20KVMA	FTKS25KVMA	FTKS35KVMA	FTKS50KAVMA	FTKS60KAVMA	FTKS71KAVMA
			Heat Pump	FTXS20KVMA	FTXS25KVMA	FTXS35KVMA	FTXS50KAVMA	FTXS60KAVMA	FTXS71KAVMA
Power supply				1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel colour				White					
Airflow rate (H)	Cooling	m³/min(ℓ/s)		9.7 (161)		11.3 (188)	14.7 (245)	16.2 (270)	17.4 (290)
	Heating*			10.5 (175)		11.5 (191)	16.2 (270)	17.4 (290)	21.5 (358)
Sound level (H/L/SL)	Cooling	dB(A)		38/25/22		42/26/23	44/35/32	45/36/33	46/37/34
	Heating*			39/28/25		42/29/26	42/33/30	44/35/32	46/37/34
Sound power (H)	Cooling	dB(A)		54		58	60	61	62
	Heating*			55		58		60	62
Fan speed				5 steps, quiet and automatic					
Temperature control				Microcomputer control					
Dimensions (H×W×D)		mm		295x800x215			290x1,050x250		
Machine weight		kg		9		10	12		
Piping connections	Liquid (Flare)	mm		ϕ6.4					
	Gas (Flare)			ϕ9.5			ϕ12.7		ϕ15.9
	Drain			I.Dϕ14.0xO.Dϕ18.0			ϕ18.0		
Heat insulation				Both liquid and gas pipes					
Cooling capacity		kW		2.0	2.5	3.5	5.0	6.0	7.1
Heating capacity		kW		2.5	3.2	4.4	6.3	7.6	8.9

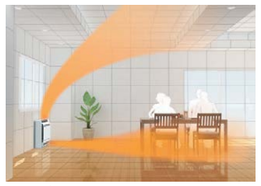
Note: * For Heat Pump type only.
Capacities shown are indicative only, based on the conditions listed here.
Cooling: Indoor Temp: 27°CDB/19°CWB
Heating: Indoor Temp: 20°CDB
The actual capacity output of the indoor unit depends on factors such as the selected model of outdoor units, indoor air & outdoor air temperature and piping length.

Floor Standing Type FVXS-K

Dual discharges to evenly distribute air across the whole room

Standard accessory

- A space-saving air-conditioner of simple and neat appearance. It distributes airflow to the furthest corners with efficient Vertical Auto-Swing and Wide-Angle Louvres.
- Dual air discharge for enhanced comfort
  - Daikin's inverter floor standing units are especially effective in heating. The unit features dual air outlets that diffuse warm air at floor level, and vertical auto swing louvers on the top air outlet, providing uniform distribution of heated air in the room. In warmer months, the lower air outlet can be shut off, leaving the top air diffuser to stream cool refreshing air upwards.



Double airflow keeps feet warm during heating operation.

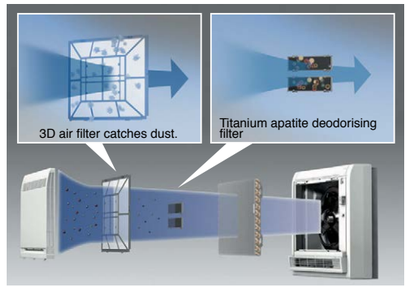
- Easy to clean
  - The flat panel design makes cleaning the front face of the unit a breeze. Surface dust can be simply wiped away with a soft cloth. Furthermore, the unit can be installed off the floor to allow for cleaning of the floor space under the unit.

Wiping clean the flat panel is a breeze.

Easily clean beneath the unit.

Titanium Apatite Deodorising Filter

- While the filter's micron-level fibres trap dust, titanium apatite effectively adsorbs odours and allergens, as well as deodorises odours.



This filter is not a medical device. Benefits such as the adsorption of odours and allergens and deodorisation of odours are only effective for substances which are directly attached to the Titanium Apatite Deodorising Filter.

- Stylish and compact flat panel
  - The clever construction of the elegant flat panel unit allows the flexibility of fully exposed installation against a wall or semi-recessed installation in spaces such as in a mantelpiece.

Specifications

MODEL	Heat Pump		FVXS25KV1A	FVXS35KV1A	FVXS50KV1A
Power supply			1 phase, 220-240 V, 50 Hz		
Front panel colour			White		
Airflow rate (H)	Cooling	m³/min(ℓ/s)	8.2 (137)	8.5 (142)	10.7 (178)
	Heating		8.8 (147)	9.4 (157)	11.8 (197)
Sound level (H/L/SL)	Cooling	dB(A)	38/26/23	39/27/24	44/36/32
	Heating		38/26/23	39/27/24	45/36/32
Sound power (H)	Cooling	dB(A)	47	48	53
	Heating		47	48	54
Fan speed			5 steps, quiet and automatic		
Temperature control			Microcomputer control		
Dimensions (H×W×D)		mm	600x700x210		
Machine weight		kg	14		
Piping connections	Liquid (Flare)	mm	ϕ6.4		
	Gas (Flare)		ϕ9.5		ϕ12.7
	Drain		ϕ20.0		
Heat insulation			Both liquid and gas pipes		
Cooling capacity		kW	2.5	3.5	5.0
Heating capacity		kW	3.2	4.4	6.3

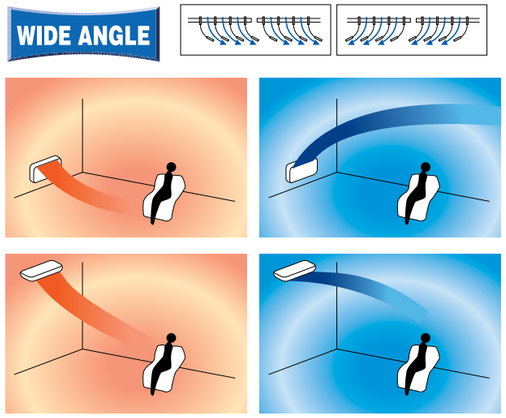
Note: Capacities shown are indicative only, based on the conditions listed here.
Cooling: Indoor Temp: 27°CDB/19°CWB / Heating: Indoor Temp: 20°CDB
The actual capacity output of the indoor unit depends on factors such as the selected model of outdoor units, indoor air & outdoor air temperature and piping length.

Floor/Ceiling Suspended Dual Type FLXS-B / G

Floor/ceiling dual use maximises free space

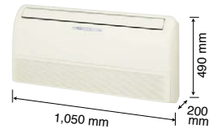
Standard accessory

- Two-way installation
  - The floor/ceiling-suspended dual type's slim, rounded design allows both ceiling-suspended and floor-level installation. Ceiling-suspended installation frees up wall and floor space, while floor-level installation is possible.
- Comfortable airflow
  - Vertical Auto-Swing and Wide-Angle Louvres realise that comfortable airflow spreads throughout a large room. With these functions, the whole room can be evenly air-conditioned from either a floor-level or ceiling-suspended installation. The louvres can be adjusted by hand.



The Vertical Auto-Swing and Wide-Angle Louvres direct warm/cool air to every corner of your room.

- The curved design of the indoor unit merges smoothly with the wall or floor to enhance the décor of any room.
- The indoor unit is only 490 mm in height and weighs a featherlight 16 kg, which means it can be quickly and efficiently installed by one person.



- The Deodorising Filter is able to decompose odours and even removes bacteria and viruses. This filter can be used indefinitely if regular maintenance is carried out.

Specifications

MODEL	Heat Pump		FLXS25BVMA	FLXS35GVMA	FLXS50GVMA	FLXS60GVMA
Power supply			1 phase, 220-240 V/220-230 V, 50/60 Hz			
Front panel colour			Almond white			
Airflow rate (H)	Cooling	m³/min(ℓ/s)	7.6 (126)	8.6 (143)	11.4 (190)	12.0 (200)
	Heating		9.2 (153)	9.8 (163)	12.1 (202)	12.8 (213)
Sound level (H/L/SL)	Cooling	dB(A)	37/31/28	38/32/29	47/39/36	48/41/39
	Heating		37/31/29	39/33/30	46/35/33	47/37/34
Sound power (H)	Cooling	dB(A)	53	54	63	64
	Heating		53	55	62	63
Fan speed			5 steps, quiet and automatic			
Temperature control			Microcomputer control			
Dimensions (H×W×D)		mm	490x1,050x200			
Machine weight		kg	16		17	
Piping connections	Liquid (Flare)	mm	ϕ6.4			
	Gas (Flare)		ϕ9.5		ϕ12.7	
	Drain		ϕ18.0			
Heat insulation			Both liquid and gas pipes			
Cooling capacity		kW	2.5	3.5	5.0	6.0
Heating capacity		kW	3.2	4.4	6.3	7.6

Note: Capacities shown are indicative only, based on the conditions listed here.
Cooling: Indoor Temp: 27°CDB/19°CWB / Heating: Indoor Temp: 20°CDB
The actual capacity output of the indoor unit depends on factors such as the selected model of outdoor units, indoor air & outdoor air temperature and piping length.

BS Units For Heat Recovery

Specifications —— Individual BS Unit

MODEL				BSQ100AV1	BSQ160AV1	BSQ250AV1
Power supply				1-phase, 220-240 V, 50 Hz		
No. of branches				1		
Total capacity index of connectable indoor units				20 to 100	More than 100 but 160 or less	More than 100 but 250 or less
No. of connectable indoor units				Max. 5	Max. 8	Max. 8
Casing				Galvanised steel plate		
Dimensions (H×W×D)			mm	207×388×326		
Piping connections	Indoor Unit	Liquid	mm	ϕ9.5 (Brazing) ★1	ϕ9.5 (Brazing)	ϕ9.5 (Brazing)
		Gas		ϕ15.9 (Brazing) ★1	ϕ15.9 (Brazing) ★2	ϕ22.2 (Brazing) ★3
	Outdoor Unit	Liquid	mm	ϕ9.5 (Brazing)	ϕ9.5 (Brazing)	ϕ9.5 (Brazing)
		Suction gas		ϕ15.9 (Brazing)	ϕ15.9 (Brazing) ★2	ϕ22.2 (Brazing) ★3
		High and low pressure gas		ϕ12.7 (Brazing)	ϕ12.7 (Brazing) ★2	ϕ19.1 (Brazing) ★3
Machine weight			kg	11	11	14
Sound level			dB(A)	35(40) ★4	41(45) ★4	41(45) ★4

Note: ★ 1. When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)
★ 2. When connecting with indoor units with total capacity indexes 150 or more and 160 or less, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)
★ 3. When connecting with indoor units with a capacity index of 200, or with total capacity indexes more than 160 and less than 200, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)
★ 4. Figures in brackets ( ) indicate maximum value of transient sound (the change of cooling and heating).
• Do not install at the place such as bed room. Small sound of refrigerant will be made, which may be disturbing.

4 branch

16 branch

Specifications —— Centralised BS Unit

MODEL				BS4Q14AV1	BS6Q14AV1	BS8Q14AV1	BS10Q14AV1	BS12Q14AV1	BS16Q14AV1
Power supply				1-phase, 220-240 V, 50 Hz					
No. of branches				4	6	8	10	12	16
Capacity index of connectable indoor units of branch				Max. 140					
Capacity index of connectable indoor units				Max. 400	Max. 600	Max. 750			
No. of connectable indoor units per branch				5					
Casing				Galvanised steel plate					
Dimensions (H×W×D)			mm	298×370×430	298×580×430		298×820×430		298×1060×430
Piping connections	Indoor Unit	Liquid	mm	ϕ9.5,ϕ6.4 Brazing ★1					
		Gas		ϕ15.9, ϕ12.7 Brazing ★1					
	Outdoor Unit	Liquid	mm	ϕ9.5 Brazing ★2	ϕ12.7 Brazing ★2	ϕ 12.7 Brazing (ϕ 15.9) ★2	ϕ15.9 Brazing ★2	ϕ15.9 Brazing (ϕ19.1) ★2	ϕ19.1 Brazing ★2
		Suction gas		ϕ22.2 Brazing (ϕ19.1) ★2	ϕ28.6 Brazing ★2		ϕ28.6 Brazing(ϕ34.9) ★2		ϕ34.9 Brazing ★2
		High and low pressure gas		ϕ19.1 Brazing (ϕ15.9) ★2	ϕ19.1 Brazing (ϕ22.2) ★2	ϕ19.1 Brazing (ϕ22.2,28.6) ★2	ϕ28.6 Brazing ★2		
Machine weight			kg	17	24	26	35	38	50
Sound level			dB(A)	38(45) ★3	39(47) ★3		40(48) ★3		41(49) ★3
Drain pipe size			mm	VP20 (External Dia, 26/Internal Dia, 20)					

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

BP Units For Connection To Residential Indoor Units

Specifications

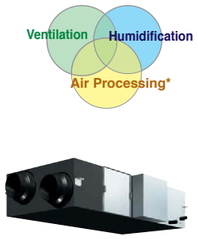
MODEL				BPMKS967A3	BPMKS967A2
Power supply				1-phase, 220-240 V/220-230 V, 50/60 Hz	
Power consumption			W	10	
Running current			A	0.05	
Dimensions (H×W×D)			mm	180×294 (+356*)×350	
Machine weight			kg	8	7.5
Number of wiring connections				3 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 4 for interunit wiring (BP-indoor unit)	
Piping connections (Brazing)	Liquid	Main	mm	ϕ9.5×1	
		Branch		ϕ6.4×3	ϕ6.4×2
	Gas	Main	mm	ϕ19.1×1	
		Branch		ϕ15.9×3	ϕ15.9×2
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.

Air Treatment Equipment Lineup

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

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

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

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

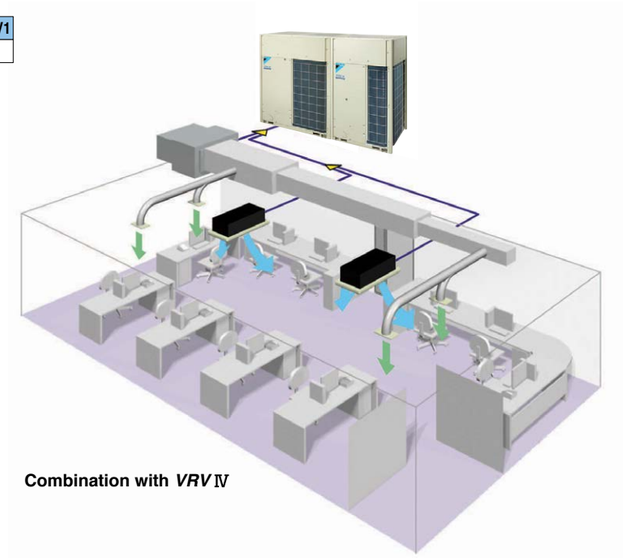
Outdoor-Air Processing Unit

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

Lineup

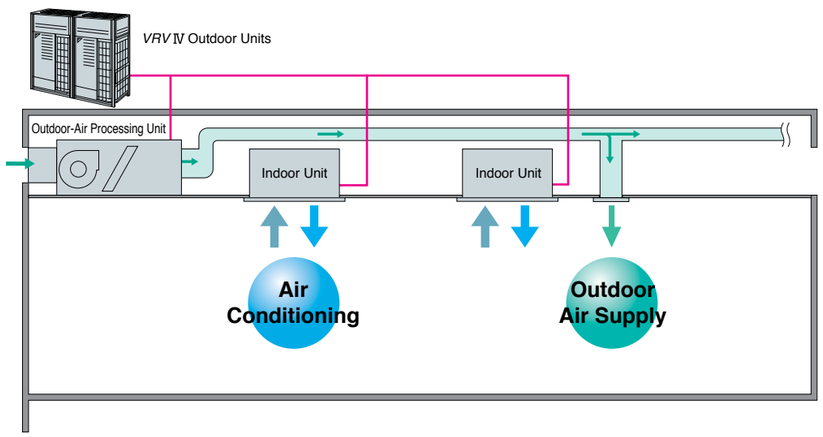
Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250

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



Combination with *VRV* Ⅳ

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



Connection Conditions

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

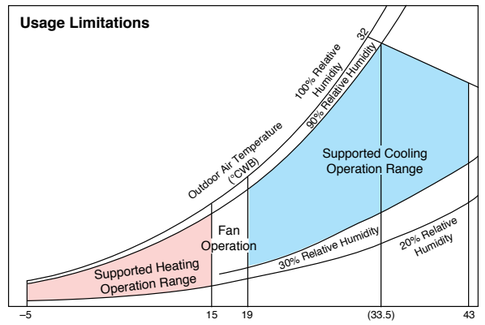
- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
- When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must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

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

Airflow rate

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

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



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

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

BRC1E62
"Nav Ease"
(Wired remote controller)
(option)

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

DCS302CA61
Central remote controller
(option)

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

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

STANDARD SPECIFICATIONS

Indoor unit

Type				Ceiling Mounted Duct Type		
Model				FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Power supply				1-phase 220-240 V (also required for indoor units), 50 Hz		
Cooling capacity *1			kcal/h	12,000	19,300	24,100
			Btu/h	47,800	76,400	95,500
			kW	14.0	22.4	28.0
Heating capacity *1			kcal/h	7,700	12,000	15,000
			Btu/h	30,400	47,400	59,400
			kW	8.9	13.9	17.4
Power consumption			kW	0.359	0.548	0.638
Casing				Galvanised steel plate		
Dimensions (HxWxD)			mm	470X744X1,100	470X1,380X1,100	
Fan	Motor output		kW	0.380		
	Airflow rate		ℓ/s	300	466	583
			m^3/min	18	28	35
	External static pressure	240 V	Pa	225	275	255
Air filter				*2		
Refrigerant piping	Liquid		mm	ϕ 9.5 (flare)		
	Gas		mm	ϕ 15.9 (flare)	ϕ 19.1 (brazing)	ϕ 22.2 (brazing)
	Drain		mm	PS1B female thread		
Machine weight			kg	86	123	
Sound level *3		240 V	dB(A)	43	48	
Connectable outdoor units *4				6 class and above	8 class and above	10 class and above
Operation range (Fan mode operation between 15 and 19°C)			Cooling	19 to 43°C		
			Heating	-5 to 15°C		
Range of the discharge temperature *5			Cooling	13 to 25°C		
			Heating	18 to 30°C		

Note: *1. Specifications are based on the following conditions;
- Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
- Heating: Outdoor temp. of 0°CDB, -2.9°CWB (50% RH), and discharge temp. of 25°CDB.
- Equivalent reference piping length: 7.5 m (0 m horizontal)

*2. An intake filter is not supplied, so be sure to install the optional long-life filter or high-efficiency filter. Please mount it in the duct system of the suction side. Select a dust collection efficiency (gravity method) of 50% or more.

*3. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. These values are normally somewhat higher during actual operation as a result of ambient conditions.

*4. It is possible to connect to the outdoor unit if the total capacity of the indoor units is 50% to 100% of the capacity index of the outdoor unit.

*5. Local setting mode. Not displayed on the remote controller.
- This equipment cannot be incorporated into the remote group control of the *VRV* Ⅳ system.

OPTIONS

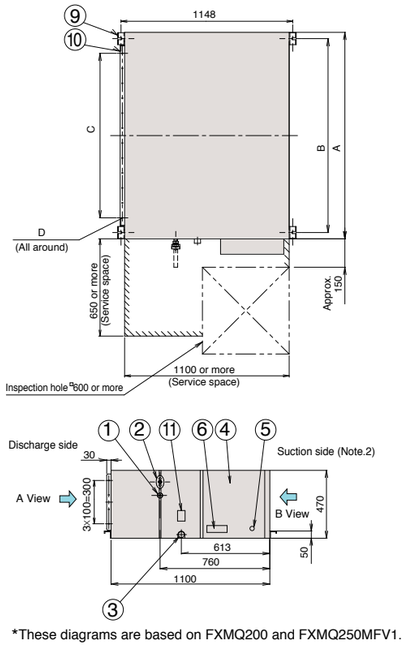
Indoor unit

Model			FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Operation/control	Operation remote controller		BRC1E62		
	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

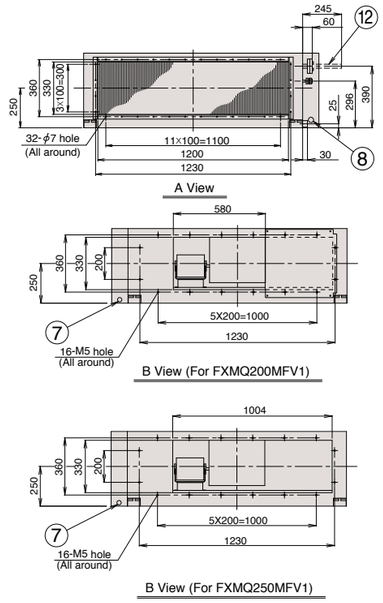
Table of dimensions

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

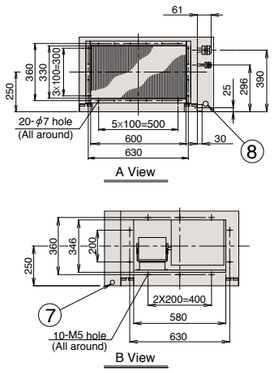
Note:
1. The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (② in the diagram) has a different bore form with FXMQ125MFV1.
2. An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side.[Use a filter with dust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

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

FXMQ200/250MFV1

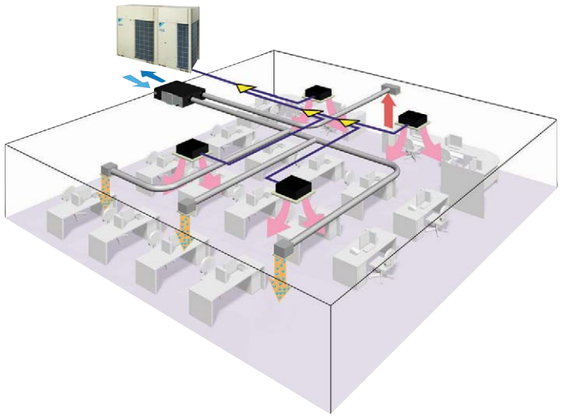


FXMQ125MFV1



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

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



Efficient outdoor air introduction is possible

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

Lineup

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

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

Humidifier

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

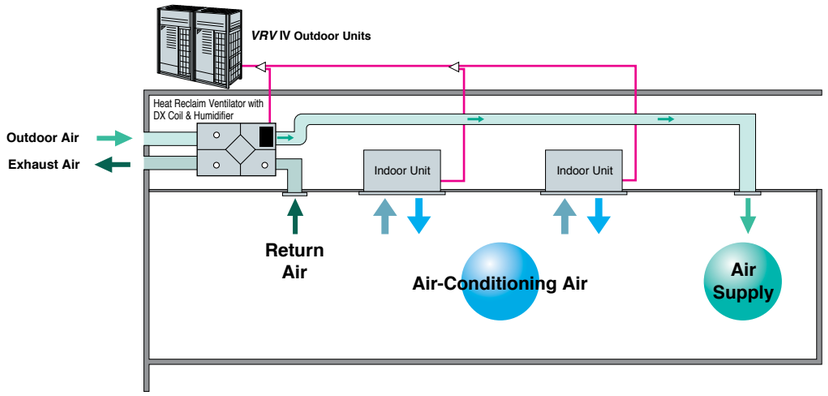
DX-coil

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

High static pressure

High external static pressure means enhanced design flexibility.

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



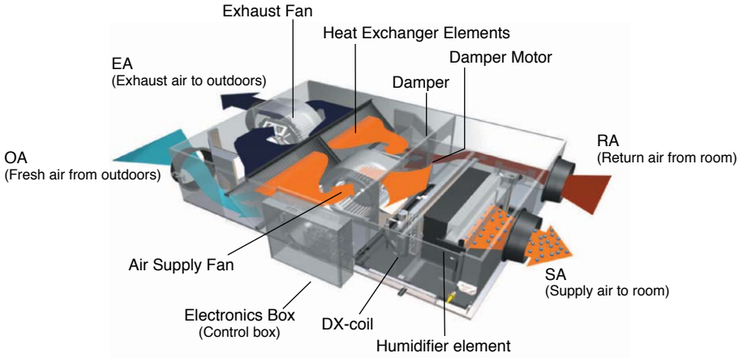
Connection Conditions

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

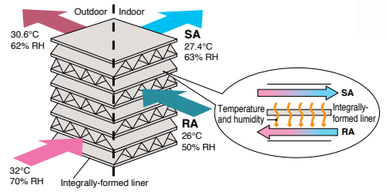
- When the Heat Reclaim Ventilator VKM series units are connected, the total connection capacity index must be 50% to 130% of the capacity index of the outdoor units.

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

HEP Element
(Anti-mould)



Operation of the heat exchanger element

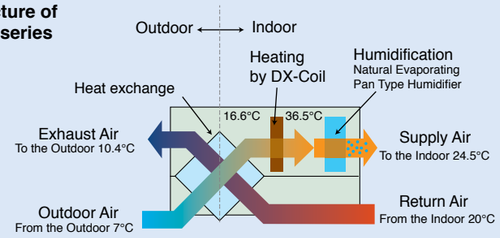


DX-coil (Direct expansion coil)

Humidifier element

Heating and humidification process

Structure of VKM series



Humidification:5.4kg/h (VKM100GAMV1)

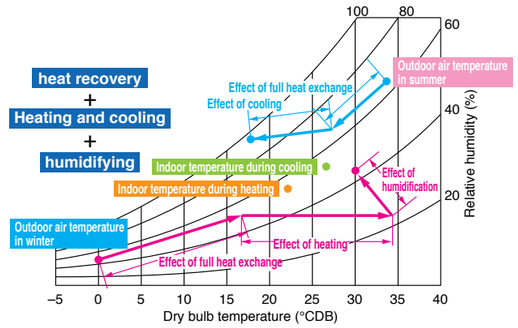
The Outdoor air is heated from 16.6°C to 36.5°C with DX-coil, Natural Evaporating Pan Type Humidifier is passed and humidification capacity is improved.

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

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

Indoor unit with outdoor air treatment

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



Other features

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

SPECIFICATIONS

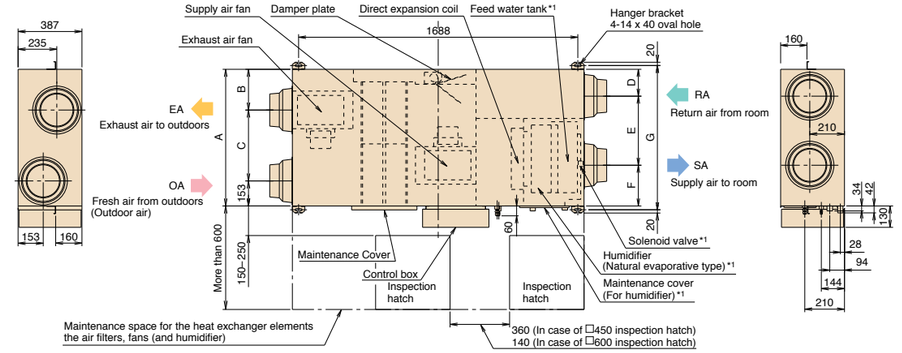
MODEL				VKM50GAMV1 *	VKM80GAMV1 *	VKM100GAMV1*	VKM50GAV1	VKM80GAV1	VKM100GAV1
Refrigerant				R-410A					
Power Supply				1-phase, 220–240 V, 50 Hz					
Airflow Rate & Static Pressure (Note 7)	Ultra-high	Airflow rate	(m³/h)/(ℓ/s)	500/138	750/208	950/263	500/138	750/208	950/263
		Static pressure	Pa	160	140	110	180	170	150
	High	Airflow rate	(m³/h)/(ℓ/s)	500/138	750/208	950/263	500/138	750/208	950/263
		Static pressure	Pa	120	90	70	150	120	100
	Low	Airflow rate	(m³/h)/(ℓ/s)	440/122	640/177	820/227	440/122	640/177	820/227
		Static pressure	Pa	100	70	60	110	80	70
Power Consumption	Heat exchange mode	Ultra-high	W	560	620	670	560	620	670
		High		490	560	570	490	560	570
		Low		420	470	480	420	470	480
	Bypass mode	Ultra-high	W	560	620	670	560	620	670
		High		490	560	570	490	560	570
		Low		420	470	480	420	470	480
Fan Type				Sirocco Fan					
Motor Output			kW	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2	0.280 x 2
Sound Level (Note 5) (220/230/240 V)	Heat exchange mode	Ultra-high	dB(A)	37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41
		High		35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39
		Low		32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5
	Bypass mode	Ultra-high	dB(A)	37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41
		High		35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39
		Low		32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5
Humidification Capacity (Note 4)			kg/h	2.7	4.0	5.4	—	—	—
Temp. Exchange Efficiency	Ultra-high		%	76	78	74	76	78	74
	High			76	78	74	76	78	74
	Low			77.5	79	76.5	77.5	79	76.5
Enthalpy Exchange Efficiency (Cooling)	Ultra-high		%	64	66	62	64	66	62
	High			64	66	62	64	66	62
	Low			67	68	66	67	68	66
Enthalpy Exchange Efficiency (Heating)	Ultra-high		%	67	71	65	67	71	65
	High			67	71	65	67	71	65
	Low			69	73	69	69	73	69
Casing				Galvan ised Steel Plate					
Insulating Material				Self-Extinguishable Urethane Foam					
Heat Exchanging System				Air to Air Cross Flow Total Heat (Sensible + Latent Heat) Exchange					
Heat Exchanger Element				Specially Processed Nonflammable Paper					
Air Filter				Multidirectional Fibrous Fleeces					
DX-coil Capacity	Cooling (Note 2)		kW	2.8	4.5	5.6	2.8	4.5	5.6
	Heating (Note 3)			3.2	5.0	6.4	3.2	5.0	6.4
Dimensions	Height		mm	387	387	387	387	387	387
	Width			1,764	1,764	1,764	1,764	1,764	1,764
	Depth			832	1,214	1,214	832	1,214	1,214
Connection Duct Diameter			mm	ϕ200	ϕ250		ϕ200	ϕ250	
Machine Weight		Net	kg	102	120	125	96	109	114
		Gross (Note 8)		107	129	134	—		
Unit Ambient Condition		Around Unit		0°C–40°CB, 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					

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

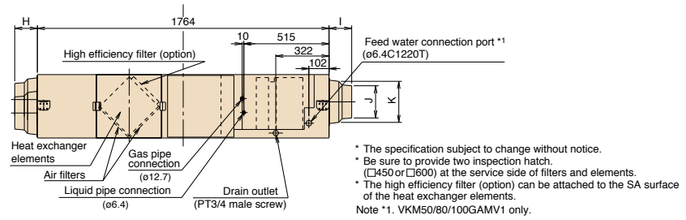
★ Feed clean water (city water, tap water or equivalent). Dirty water may clog the valve or cause dirt deposits in the water container, resulting in poor humidifier performance. (Never use any cooling tower water and heating-purpose water.)
Also, if the supply water is hard water, use a water softener because of short life.
* Life of humidifying element is about 3 years (4,000 hours) under the supply water conditions of hardness: 150 mg/l. (Life of humidifying element is about 1 year (1,500 hours) under the supply water conditions of hardness: 400 mg/l.)
Annual operating hours: 10 hours/day x 26 days/month x 5 months = 1,300 hours

DIMENSIONS

VKM50/80/100GA(M)V1



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



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

OPTIONS

Item \ Type			VKM50/80/100GA(M)V1											
Controlling device	Remote controller		BRC1E62 *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-P	FXZQ-A2	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB	FXSQ-P	FXDYQ-MA	FXMQ-P	FXMQ-M	FXUQ-A	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA
			KRP1C63★	KRP1BA57★	KRP1B61★	KRP1B61	KRP1B56★	KRP1C64★	KRP1B61	KRP1C64★	KRP1B61	KRP1C67	KRP1BA54	—	KRP1B61
		Installation box for adaptor PCB☆	Note 2, 3 KRP1H98A	Note 4, 6 KRP1BA101	Note 2, 3 KRP1B96	—	Note 4, 6 KRP1BA101	Note 2, 3 KRP4A98	—	Note 2, 3 KRP4A96	—	—	Note 3 KRP1CA93	Note 2, 3 KRP4AA93	—

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

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

Heat Reclaim Ventilator — VAM series

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

Model Names

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

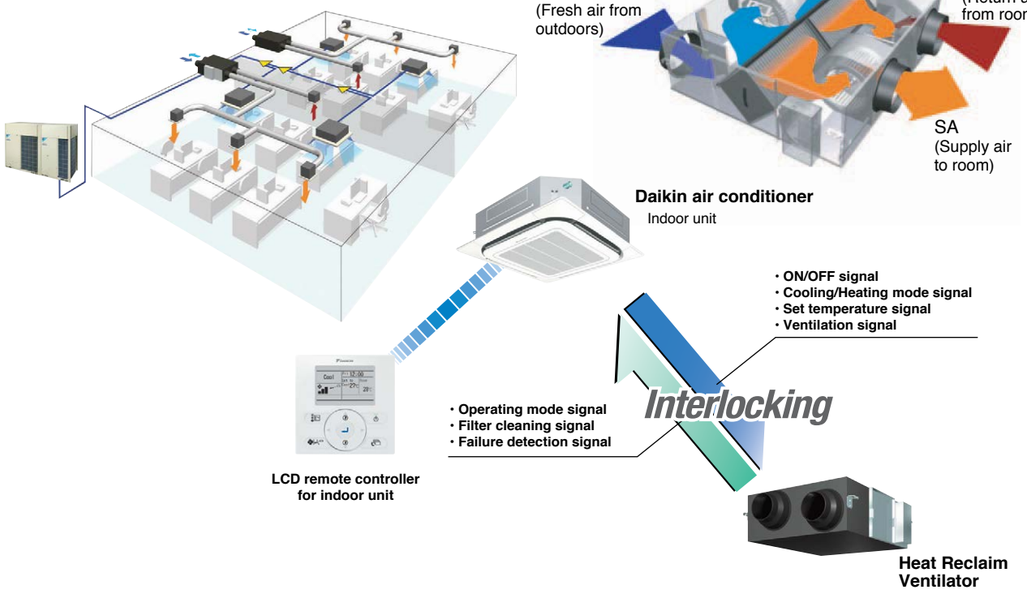
Heat Reclaim Ventilator remote controller*
BRC301B61 (Option)

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

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

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

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



Compact Equipment

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

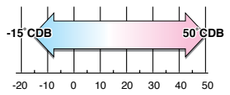
* For VAM500GJVE

Energy Conservation

Air conditioning load reduced by approximately 31%!

Cold Climate Compatible

Standard operation at temperatures down to -15°C.



Air conditioning load reduced by approximately 31%!

Total heat exchange ventilation — 23%

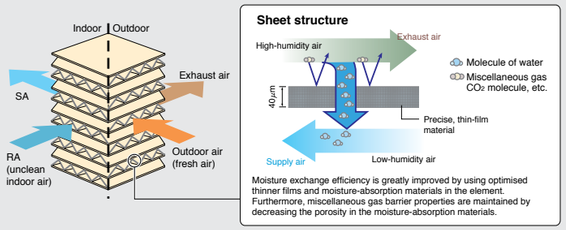
This unit recovers heat energy lost through ventilation and curbs room temperature changes caused by ventilation, thereby conserving energy and reducing the load on the air conditioning system.

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

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

Moisture absorption increased by approx. 10%!

Thickness of the partition sheet **40 μm**



+

Auto-ventilation Mode Changeover Switching — 6%

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

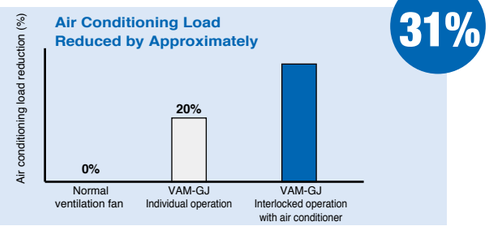
+

Pre-cool, Pre-heat Control — 2%

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

=

31%



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

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

Nighttime free cooling operation*1

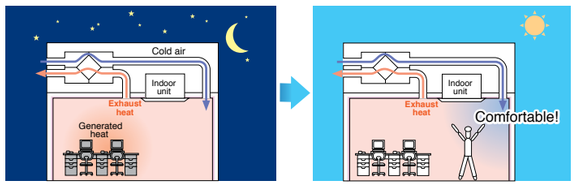
Air conditioning sensible heat load reduced by **approx. 5%*2!**

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

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

*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).

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



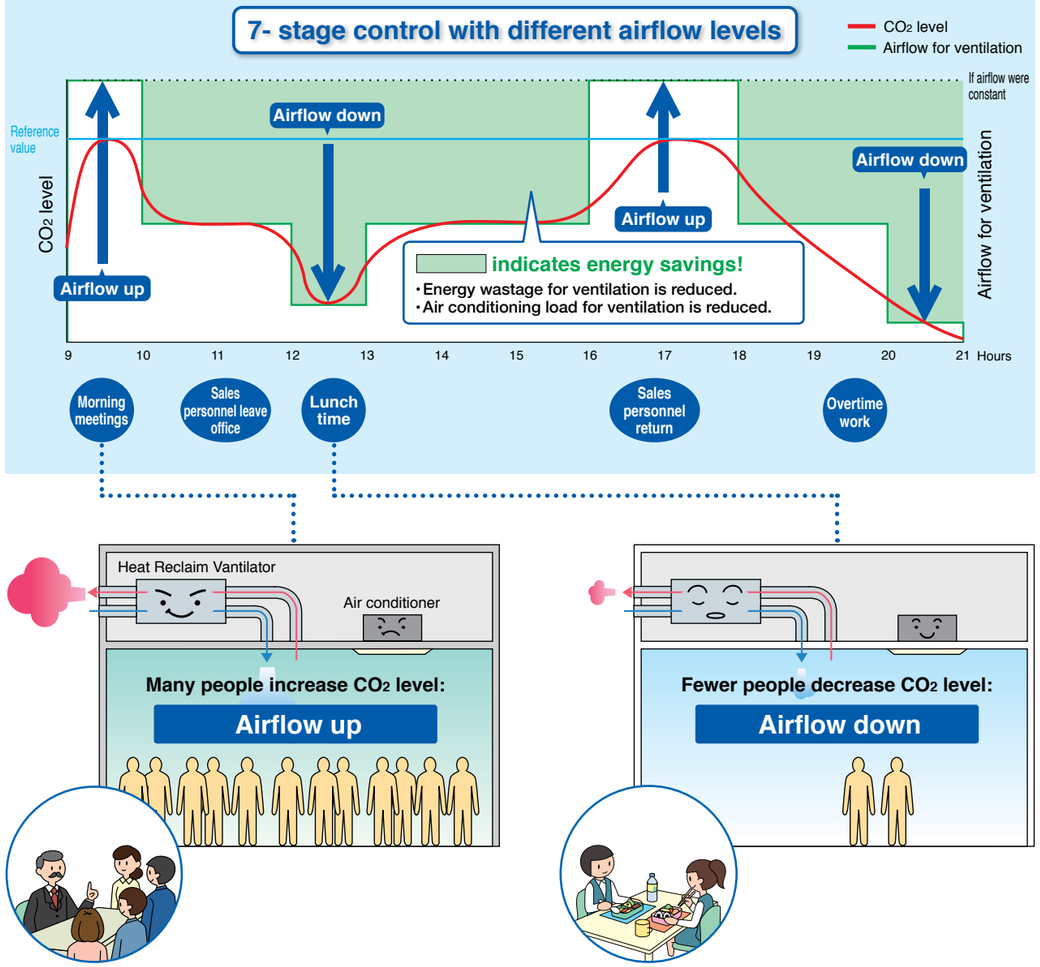
*Interlocked operation with an air conditioner

Heat Reclaim Ventilator — VAM series

CO_2 Sensor Optional Kit Connection

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

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

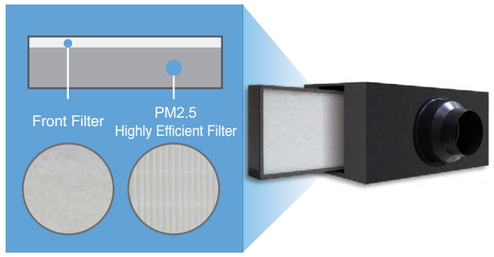


Heat Reclaim Ventilator — PM2.5 filtration unit (Option)

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

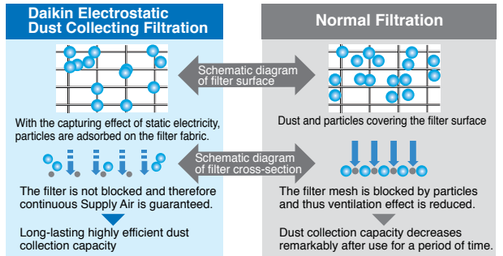
Double-layered efficient filtration

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



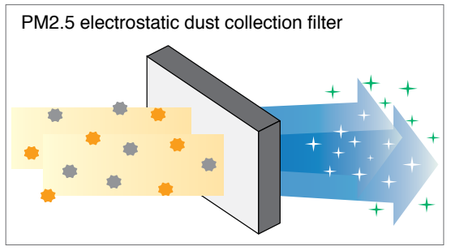
Electrostatic dust collection filter: more efficient and longer lasting effect

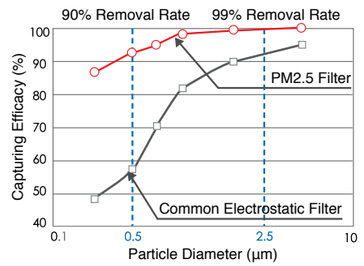
The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently, including those smaller than the grid mesh.
The filter is difficult to be blocked by particles and has good ventilation and long life span.



Filtering PM2.5 efficiently for healthier and more comfortable environments

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



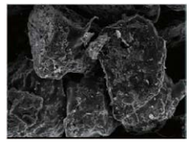


*Test results by the Heating, Ventilation and Air Conditioning Lab at Tongji University
Test environment: temperature 25-26°CDB, humidity 58-60%RH

Extra-High Performance Filter Against Sulfur Oxides and Nitrogen Oxides

Effective Use of Active Carbon Material to Enlarge the Adsorption Area

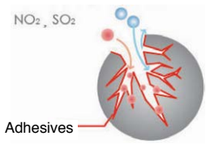
As an expert in the research and development of filters, DAIKIN has specifically selected active carbon material as the main substance to constitute the filter against sulfur oxides and nitrogen oxides. The material's usable pore surface is fully exploited, thus extending the filter's durability.



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

Intelligent Identification, Super-effective Adhesion

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



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

SPECIFICATIONS

MODEL				VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Power Supply				1-phase, 220-240 V/220 V, 50 Hz/60 Hz								
Temp. Exchange Efficiency		Ultra-High	%	79	75	79	74	75	72	78	72	77
		High		79	75	79	74	75	72	78	72	77
		Low		84	79	82	80	77	74	80.5	75.5	79
Enthalpy Exchange Efficiency	For Heating	Ultra-High	%	72	71	70	67	67.5	65	70	65	72
		High		72	71	70	67	67.5	65	70	65	72
		Low		76	74	77	74	71.5	67.5	72.5	67	75
	For Cooling	Ultra-High	%	66	63	66	55	61	61	64	61	62
		High		66	63	66	55	61	61	64	61	62
		Low		70	66	70	59	64	64	68.5	64	66
Power Consumption	Heat Exchange Mode	Ultra-High	W	125	137	200	248	342	599	635	1,145	1,289
		High		111	120	182	225	300	517	567	991	1,151
		Low		57	60	122	128	196	435	476	835	966
	Bypass Mode	Ultra-High	W	125	137	200	248	342	599	635	1,145	1,289
		High		111	120	182	225	300	517	567	991	1,151
		Low		57	60	122	128	196	435	476	835	966
Sound Level	Heat Exchange Mode	Ultra-High	dB(A)	27-28.5	27-29	31.5-33	33-35.5	34-36	39-40.5	39.5-41.5	39.5-41.5	41.5-43.5
		High		26-27.5	26-27.5	30-31.5	31.5-34	33-34.5	37-39.5	37.5-39.5	37.5-39.5	39-43
		Low		20.5-21.5	21-22	23-25	25-28.5	27.5-29.5	35-37.5	35-37.5	35-37.5	36-39
	Bypass Mode	Ultra-High	dB(A)	28.5-29.5	28.5-30.5	33-34.5	34.5-36	35-37.5	40.5-42	40.5-42.5	41-43	43-45.5
		High		27.5-28.5	27.5-29	31.5-33	33-34.5	33-35.5	38.5-40	38.5-40.5	39.5-41	40.5-45
		Low		22.5-23.5	22.5-23	24.5-26.5	25.5-28.5	27.5-30.5	36-38.5	36-38.5	36.5-38	37.5-39.5
Casing				Galvanised steel plate								
Insulation Material				Self-extinguishable polyurethane foam								
Dimensions (HXWXD)			mm	278×810×551		306×879×800		338×973×832	387×1,111×832	387×1,111×1,214	785×1,619×832	785×1,619×1,214
Machine Weigh			kg	24		32		45	55	67	129	157
Heat Exchange System				Air to air cross flow total heat (Sensible heat + latent heat) exchange								
Heat Exchange Element Material				Specially processed nonflammable paper								
Air Filter				Multidirectional fibrous fleeces								
Fan	Type			Sirocco fan								
	Airflow Rate	Ultra-High	m^3/h	150	250	350	500	650	800	1,000	1,500	2,000
		High		150	250	350	500	650	800	1,000	1,500	2,000
		Low		100	155	230	320	500	700	860	1,320	1,720
		Ultra-High	ℓ/s	41	69	97	138	180	222	277	416	555
		High		41	69	97	138	180	222	277	416	555
		Low		27	43	63	88	138	194	238	366	477
	External Static Pressure	Ultra-High	Pa	120	70	169	105	85	133	168	112	116
		High		106	54	141	66	53	92	110	73	58
		Low		56	24	67	32	35	72	85	56	45
	Motor Output		kW	0.030×2		0.090×2		0.140×2	0.280×2		0.280×4	
Connection Duct Diameter			mm	ϕ100	ϕ150		ϕ200		ϕ250		ϕ350	
Unit Ambient Condition				-15°C–50°CDB, 80%RH or less								

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

PM2.5 Filtration Unit

Models			BAF249A150	BAF249A300	BAF249A350	BAF249A500
Heat Reclaim Ventilator Models			VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE
Dimensions (H × W × D)		mm	220 x 603 x 366	220 x 603 x 366	300 x 623 x 366	300 x 623 x 366
Connection Duct Diameter		mm	Ø100	Ø150	Ø150	Ø200
Airflow Rate		m^3/h	150	250	350	500
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42
	Filter Lifetime [1]		1 year			
	Filtration Efficiency [2]		99% or higher			
	Filter Material No. [3]		BAF244A300		BAF244A500	

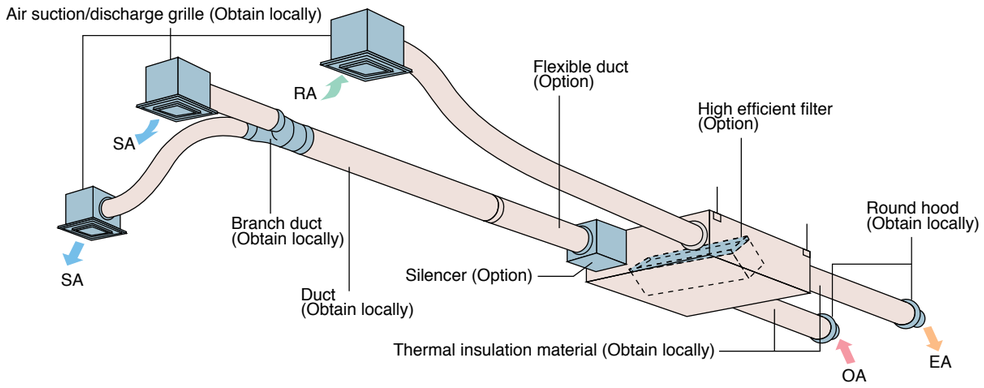
Note: 1. Annual usage: 400 hrs/month x 12 months = 4,800 hrs
2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more; 90% or higher removal rate of ultra-fine particles with diameters of 0.5 μm.
3. Filters come with applicable filtration units with a one-year life. They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

PM2.5 with Activated Carbon Filtration Unit

Models			BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C
Heat Reclaim Ventilator Models			VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE
Dimensions (H × W × D)		mm	220×603×366	220×603×366	300×623×366	300×623×366
Connection Duct Diameter		mm	Ø100	Ø150	Ø150	Ø200
Airflow Rate		m^3/h	150	250	350	500
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42
	Filter Lifetime [1]		1 year			
	Filtration Efficiency [2]		99% or higher			
	Filter Material No. [3]		BAF244A300		BAF244A500	
Activated Carbon Filter	Initial Pressure Drop	Pa	3	5	5	9
	Filter Lifetime		1 year			
	Filter Material No. [3]		BAF244A300C		BAF244A500C	
Total Initial Pressure Drop for PM2.5 with Activated Carbon Filtration Unit		Pa	37	35	36	51

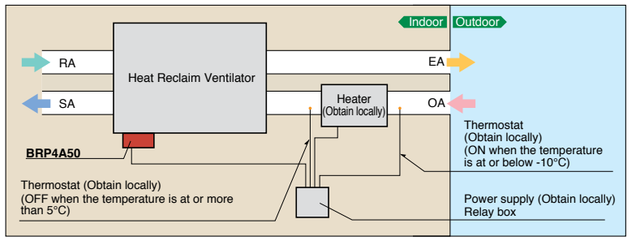
Note: 1. Annual usage: 400 hrs / month × 12 months = 4,800 hrs.
2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more; 90% or higher removal rate of ultra-fine particles with diameters of 0.5 μm.
3. Filters come with applicable filtration units with a one-year life. They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

OPTIONS



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.



Note when installing

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

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 Note 1
			Central remote controller	DCS302CA61
			Unified ON/OFF controller	DCS301BA61
			Schedule timer	DST301BA61
	PC Board Adaptor		Wiring adaptor for electrical appendices	KRP2A61
			For humidifier	KRP50-2
			Installation box for adaptor PCB	KRP50-2A90 (Mounted electric component assy of Heat Reclaim Ventilator)
			For heater control kit	BRP4A50
		For wiring	Type (indoor unit of *VRV*)	FXFQ-S FXFQ-P / FXZQ-A2 / FXCQ-M / FXKQ-MA / FXDQ-PB FXDQ-NB / FXSQ-P / FXDYQ-MA / FXMQ-P / FXMQ-M / FXUQ-A / FXHQ-MA / FXAQ-P / FXLQ-MA FXNQ-MA
				KRP1C63★ / KRP1BA57★ / KRP1B61★ / KRP1B61 / KRP1B56★ / KRP1C64★ / KRP1B61 / KRP1C64★ / KRP1B61 / KRP1C67 / KRP1BA54 / — / KRP1B61
		Installation box for adaptor PCB★		Note 2, 3 KRP1H98A / Note 4, 6 KRP1BA101 / Note 2, 3 KRP1B96 / — / Note 4, 6 KRP1BA101 / Note 2, 3 KRP4A98 / — / Note 2, 3 KRP4A96 / — / — / Note 3 KRP1CA93 / Note 2, 3 KRP4AA93 / —

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

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

GAS HEAT PUMP AIR CONDITIONING SYSTEM

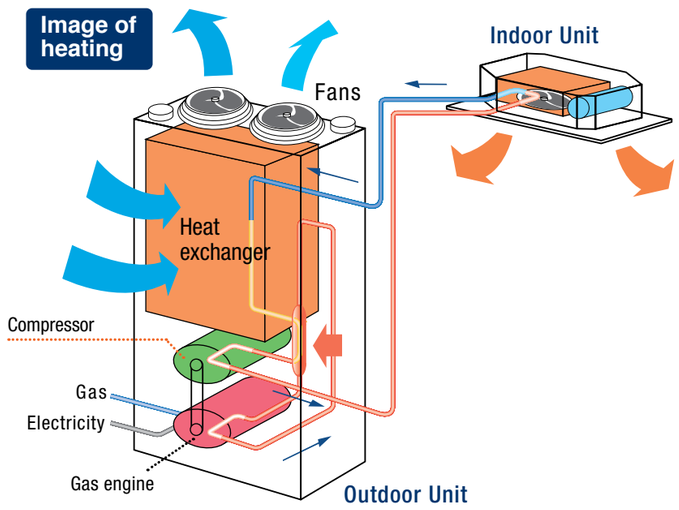
Air Conditioned Comfort, Powered by Natural Gas.

Daikin's Gas Heat Pump (GHP) air conditioning system is designed to operate primarily on natural gas.
GHP systems consume less electrical power than conventional Electrical Heat Pump systems, whilst delivering air conditioned comfort to the modern building.

This unique gas powered air conditioning system is available both as a Heat Pump and Heat Recovery system to suit a broad range of applications, and when combined with an Electrical Heat Pump system can provide an enhanced value proposition.

What is GHP ?

The compressor is the heart of an air conditioner and consumes the most energy. In a Gas Heat Pump (GHP) air conditioner, the compressor is driven by a gas engine using natural gas, whereas an Electric Heat Pump (EHP) uses an electric motor.



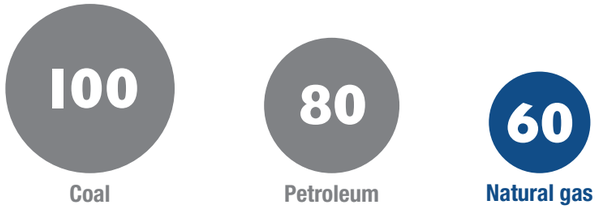
How is capacity controlled?

As the load changes during the day, GHP systems are able to match the varying load by adjusting compressor capacity output through engine speed control.

Benefits of Gas Heat Pump (GHP)

Lower CO_2 Emission

CO_2 emissions

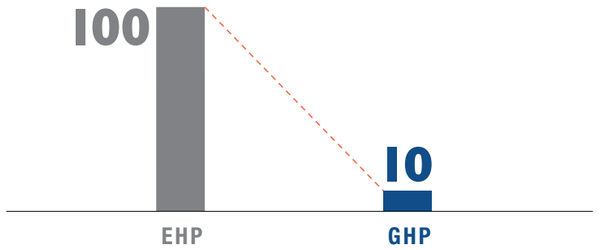


Natural gas is used as the main energy source. Natural gas emissions are comparatively lower than other fossil fuels.

* CO_2 emissions from coal = 100.
* Source: Natural Gas Prospects 2010, 1986/ EA Report on Thermal Power Plant Atmospheric Impact Assessment Technology Demonstration Surveys, March 1990/Institute of Applied Energy

Reduced Power Consumption

Power consumption

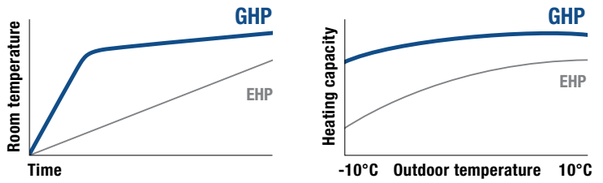


In GHP system, only the condenser fans and the indoor units consume electricity. In comparison to EHP, the electrical power required to operate GHP is significantly less, thereby enabling the electrical substation and switch gear equipment to be downsized compared to EHP.

* Power consumption of the EHP = 100.

Rapid and Powerful Heating

Comparison of heating start speed and heating capacity (image)



The ability to harness the waste heat from the coolant circuit enables rapid and powerful heating performance.
This feature also results in less frequent defrost operation for GHP systems.

Outdoor Unit Lineup

3 Types available to various application

Daikin offers a range of Heat Pump and Heat Recovery systems that are ideally suited for wide range of applications.

Heat Pump Standard Series

Compact and Light Weight

8-13 class

Footprint 1.23 m²

Weight : 565 kg
13 class series

16-25 class

Footprint 1.46 m²

Weight : 745 kg
20 class series

Heat Pump Large-capacity Series

Space Saving Design

30 class

Footprint 1.68 m²

Heat Recovery Series

Space Saving Design
Simultaneous Heating and Cooling Operation

20 class

Footprint 1.35 m²

30 class

Footprint 1.68 m²

DAIKIN GAS HEAT PUMP AIR CONDITIONING SYSTEM LINEUP

Capacity range	22.4 kW	28.0 kW	35.5 kW	45.0 kW	56.0 kW	71.0 kW	85.0 kW
	8 class	10 class	13 class	16 class	20 class	25 class	30 class
Heat pump standard series	●	●	●	●	●	●	
Heat pump large-capacity series							●
Heat recovery series					●		●

Combine with *VRV* system

By controlling both EHP and GHP systems off a common centralised control system, the designer can capitalize on the unique characteristic and features of both systems to deliver an engineered solution that meets the demands of the modern building.

touch intelligent Manager
Centralised control

Control is centralised by one controller.

Both systems can be controlled by the centralised controller, which makes it simple to operate.

D Ⅲ-NET communication

D Ⅲ-NET communication

GHP System

VRV System

VRV SYSTEM
(Electric Heat Pump)

For Replacement Use

For Small-sized Building

Water Cooled Model

Indoor units with constant comfort and unified design

Since both systems are connected to the same indoor units, both the comfort level and operation procedures are the same. The designs of front panels, etc. can also be consistent.

Common models of indoor units

Common models of indoor units

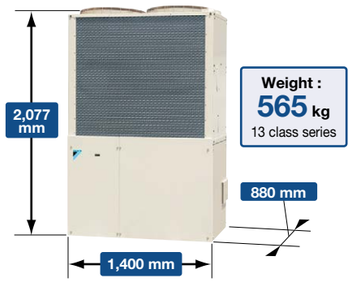
Common indoor models for both GHP and EHP systems ensure a consistent look for exposed units whilst maintaining similar comfort levels and keeping operational control.

Heat Pump – Standard Series 8/10/13/16/20/25 class

Compact Design

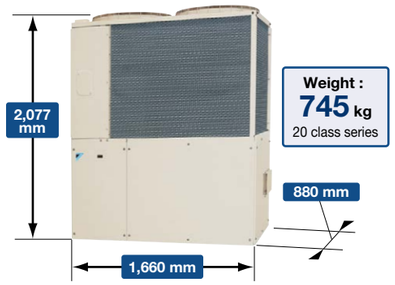
Compact, lightweight outdoor units increase installation flexibility.

8 / 10 / 13 class series



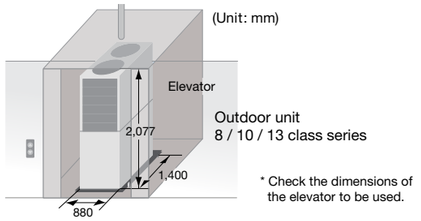
Footprint 1.23 m²

16 / 20 / 25 class series



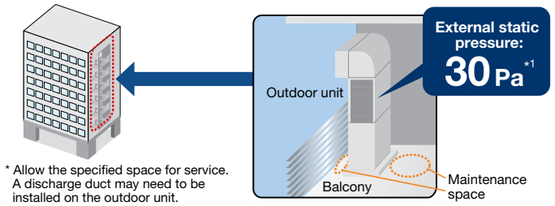
Footprint 1.46 m²

Compact size allows the outdoor unit to be transported in an elevator.



* Check the dimensions of the elevator to be used.

The compact outdoor unit can be installed on the service balcony of each floor.



* Allow the specified space for service. A discharge duct may need to be installed on the outdoor unit.

*1. Field setting is necessary.

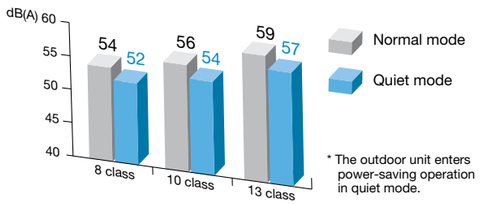
Wide Operating Range

System can operate under a wide range of outdoor temperature.

Heating	–10°C ⟷ 18°C
Cooling	–10°C ⟷ 43°C

Quiet Operation

Use of edge technology delivers quiet operations. Enabling the quiet mode further lowers operating noise levels.



* The outdoor unit enters power-saving operation in quiet mode.

Easy Maintenance

Frequent oil change is not required.

Engine oil needs to be topped up periodically to recommended operational uses. Oil change only required after 30,000hrs of operation.

* Use the engine oil specified by Daikin.

Long piping length

The long piping length provides more design flexibility, to meet the needs of large commercial buildings.

Max. actual piping length
165 m

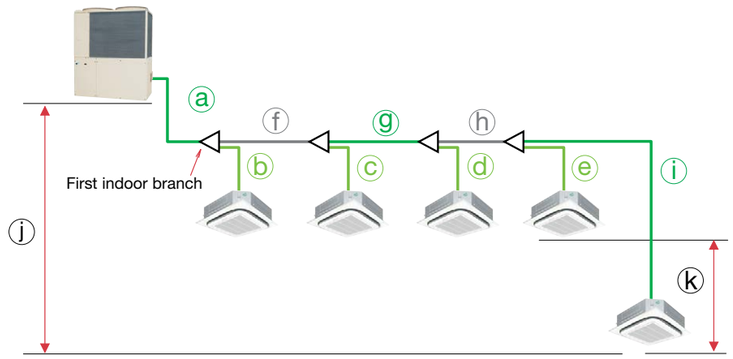
Max. equivalent piping length
190 m *1

Max. total piping length
520 m

Max. level difference between the outdoor units and the indoor units

Outdoor unit above indoor unit:
50 m

Outdoor unit below indoor unit:
40 m



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

		Actual piping length	Example	Equivalent piping length
Maximum allowable piping length	Refrigerant piping length	**165** m	a+f+g+h+i	**190** m *1
	Total piping length	**520** m	a+b+c+d+e+f+g+h+i	—
	Between the first indoor branch and the farthest indoor unit	**60** m	f+g+h+i	—

			Level Difference	Example
Maximum allowable level difference	Between the indoor units		**15** m	k
	Between the outdoor units and the indoor units	If the outdoor unit is above.	**50** m	j
		If the outdoor unit is below.	**40** m	j

*1. When the equivalent piping length between outdoor and indoor units is 100 m or more, the size of main pipes (both gas-side and liquid-side) must be increased.Refer to the Engineering Data Book.

Connection ratio

Maximum connection ratio is 130%.

Connection ratio
50%–130%

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

Outdoor unit combination

Model name *1	kW	Class	Capacity index	Total capacity index of connectable indoor units *2			Maximum number of connectable indoor units
				Combination (%) *2			
				50%	100%	130%	
GYAQ8ANV1	22.4	8	200	100	200	260	13
GYAQ10ANV1	28.0	10	250	125	250	325	16
GYAQ13ANV1	35.5	13	320	160	320	416	20
GYAQ16ANV1	45.0	16	400	200	400	520	26
GYAQ20ANV1	56.0	20	500	250	500	650	33
GYAQ25ANV1	71.0	25	630	315	630	819	41

*1.Only single outdoor unit can be connected.
*2.Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outdoor unit.

Heat Pump – Standard Series 8/10/13/16/20/25 class

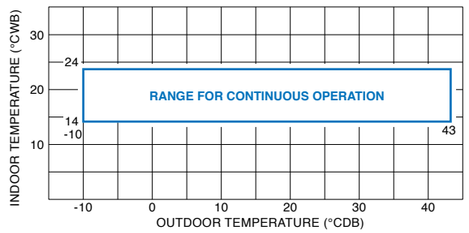
Specifications

Model				GYAQ8ANV1	GYAQ10ANV1	GYAQ13ANV1	GYAQ16ANV1	GYAQ20ANV1	GYAQ25ANV1
Power supply				1- phase , 230 V , 50 Hz					
Gas	Type			Natural gas					
Capacity	Cooling ★1		kW	22.4	28.0	35.5	45.0	56.0	71.0
			Btu/h	76,400	95,500	121,000	154,000	191,000	242,000
			kcal/h	19,300	24,100	30,500	38,700	48,200	61,100
	Heating ★2		kW	25.0	31.5	40.0	50.0	63.0	80.0
			Btu/h	85,300	107,000	136,000	171,000	215,000	273,000
			kcal/h	21,500	27,100	34,400	43,000	54,200	68,800
Casing colour (Munsell no.)				Ivory white (9.9Y8.4/1.2)					
Dimensions	Height		mm	2,077	2,077	2,077	2,077	2,077	2,077
	Width		mm	1,400	1,400	1,400	1,660	1,660	1,660
	Depth		mm	880	880	880	880	880	880
Power consumption	Cooling		kW	0.34	0.44	0.57	1.26	1.26	1.53
	Heating		kW	0.42	0.58	0.74	1.11	1.11	1.34
Fuel gas consumption	Cooling		kW	15.0	19.2	26.4	31.0	41.7	58.5
	Heating		kW	15.9	20.3	27.0	32.7	42.0	57.2
Compressor	Type			Scrollx1	Scrollx1	Scrollx1	Scrollx2	Scrollx2	Scrollx2
Fans	Type			Propeller fan					
	Number of units			2	2	2	2	2	2
	Motor output		W	275x2	275x2	275x2	350+600	350+600	600x2
	Airflow rate		m^3/min	167	194	213	346	346	388
	Drive			Direct drive					
Piping	Refrigerant	Liquid	mm	9.5	9.5	12.7	15.9	15.9	15.9
		Gas	mm	19.1	22.2	25.4	28.6	28.6	31.8
	Fuel gas pipe		inch	R3/4	R3/4	R3/4	R3/4	R3/4	R3/4
	Exhaust vent outside dia.		mm	80	80	80	100	100	100
	Drain pipe for exhaust inside dia.		mm	30	30	30	30	30	30
Weight			kg	565	565	565	745	745	755
Refrigerant	Type			R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
	Charge		kg	11.0	11.0	11.0	11.5	11.5	11.5
Engine Lubricant	Type			Aisin Gas Engine Oil L-10000G					
Engine coolant	Type			Aisin Coolant S					
	Freezing temperature		℃	-35					
Sound pressure level	Normal mode		dB(A)	54	56	59	56	59	62
	Quiet mode		dB(A)	52	54	57	54	57	60
Piping length;equivalent/actual			m	190/165	190/165	190/165	190/165	190/165	190/165
Height difference between indoor and out door units	O/U is above		m	50	50	50	50	50	50
	O/U is below		m	40	40	40	40	40	40
Height difference between indoor units			m	15	15	15	15	15	15
Connectable indoor units	number			13	16	20	26	33	41
	capacity		%	50-130	50-130	50-130	50-130	50-130	50-130

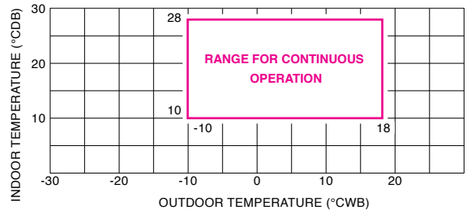
Note: ★1 Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m
★2 Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB/ Equivalent piping length: 7.5 m, level difference: 0 m

Operation range

Cooling operation



Heating operation



* If the unit is used out of the operation temperature range (especially at high outdoor temperature), it may malfunction, or the protection circuit may trip and deactivate the unit.

Options

Option name \ Model		GYAQ8ANV1	GYAQ10ANV1	GYAQ13ANV1	GYAQ16ANV1	GYAQ20ANV1	GYAQ25ANV1
Cool/Heat selector *1		KRC19-26A					
Fixing box		KJB111A					
Harness kit for Cool/Heat Selector *2		AGKRC19E1					
Distributive piping	REFNET header	KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch)		KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch) KHRP26M72H (Max. 8 branch)			KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch) KHRP26M72H (Max. 8 branch) KHRP26M73H (Max. 8 branch)
	REFNET joint	KHRP26A22T KHRP26A33T		KHRP26A22T KHRP26A33T KHRP26A72T			KHRP26A22T KHRP26A33T KHRP26A72T KHRP26A73T
Pipe size reducer		——					KHRP26M73TP KHRP26M73HP
Antivibration mount *3		K-GBM355A			K-GBM710B		
Air direction adjuster *4		AGFJ280E1			AGFJ560E2		
Deodorizer kit		AGBJ280E1			AGBJ560E1		

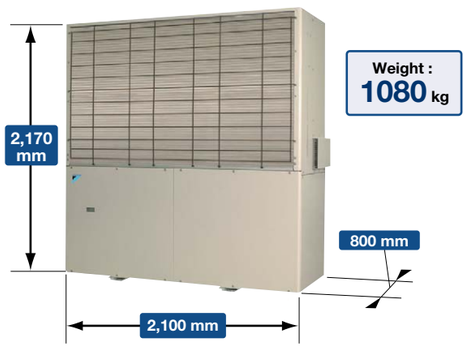
*1. The Cool/Heat Selector is required when selecting cool/heat mode from the outdoor unit.
*2. The harness kit is required when using the Cooling/Heating Selector.
*3. Use an antivibration mount when operating noise or vibration could cause problems in lower floors or nearby rooms as a result of installing the outdoor unit on the roof. The specified antivibration mount must be used. Otherwise abnormal vibration may occur.
*4. The Air direction adjuster is designed to prevent snow from accumulating on the air outlet of the outdoor unit and to change the air direction to the front or back if the air outlet is blocked by an obstacle. If The Air direction adjuster is installed, the operation sound may increase slightly depending on ambient conditions.

Heat Pump – Large Capacity Series 30 class

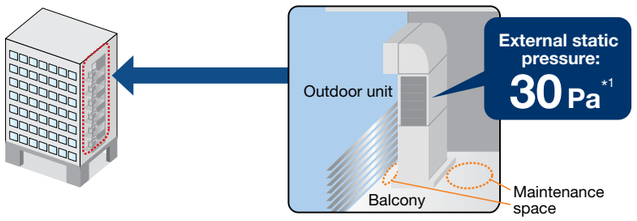
Space Saving Design

Space saving design allows for flexible installation.

Footprint 1.68 m²



The compact outdoor unit can be installed on the service balcony of each floor.



* Allow the specified space for service. A discharge duct may need to be installed on the outdoor unit.

*1. Field setting is necessary.

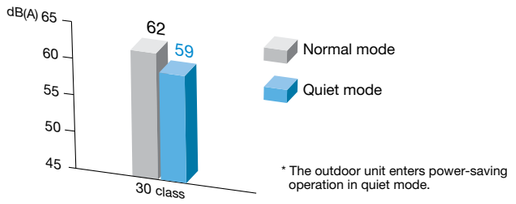
Wider Operating Range

System can operate under a wider range of outdoor temperature.

Heating	–21°C ⟷ 18°C
Cooling	–10°C ⟷ 46°C

Quiet Operation

Use of edge technology delivers quiet operations. Enabling the quiet mode further lowers operating noise levels.



* The outdoor unit enters power-saving operation in quiet mode.

Easy Maintenance

Frequent oil change is not required.

Engine oil needs to be topped up periodically to recommended operational uses. Oil change only required after 20,000hrs of operation.

* Use the engine oil specified by Daikin.

Installation flexibility

Long piping length

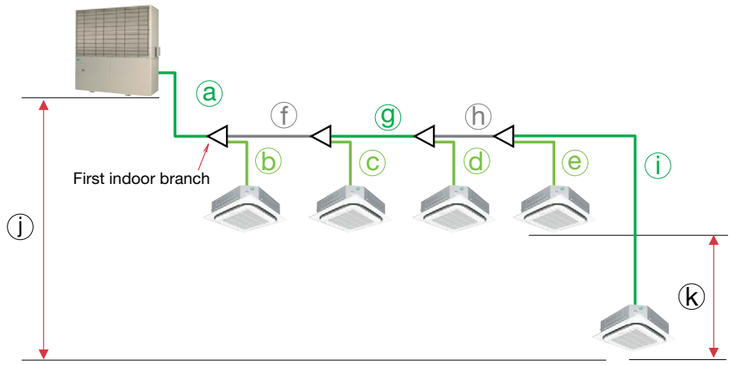
The long piping length provides more design flexibility, which can match even large-sized buildings.

Max. actual piping length
170 m

Max. equivalent piping length
200 m

Max. total piping length
640 m

Max. level difference between the outdoor units and the indoor units
50 m



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

		Actual piping length	Example	Equivalent piping length
Maximum allowable piping length	Refrigerant piping length	**170** m	a+f+g+h+i	**200** m
	Total piping length	**640** 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	—

		Level Difference	Example
Maximum allowable level difference	Between the indoor units	**15** m *1	k
	Between the outdoor units and the indoor units	**50** m	j

*1.When the piping length between the indoor branch and the farthest indoor unit is 40 m or more, the maximum allowable level difference between the indoor units is decreased.Refer to the Engineering Data Book.

Connection ratio

Maximum connection ratio is 130%.

Connection ratio
50%–130%

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

Outdoor unit combination

Model name *1	kW	Class	Capacity index	Total capacity index of connectable indoor units *2 Combination (%) *2			Maximum number of connectable indoor units
				50%	100%	130%	
GYAQ30ANV1	85.0	30	750	375	750	975	48

*1.Only single outdoor unit can be connected.
*2.Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outdoor unit.

Heat Pump – Large Capacity Series 30 class

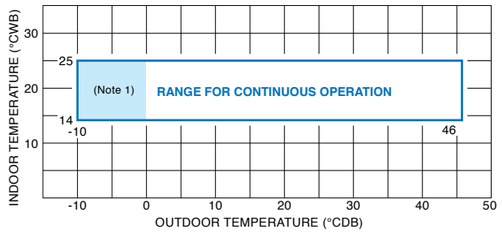
Specifications

Model			GYAQ30ANV1
Power supply			1- phase , 230 V , 50 Hz
Gas	Type		Natural gas
Capacity	Cooling ★1	kW	85.0
		Btu/h	290,000
		kcal/h	73,100
	Heating ★2	kW	95.0
		Btu/h	324,000
		kcal/h	81,700
Casing colour (Munsell no.)			Ivory white(5Y7.5/1)
Dimensions	Height	mm	2,170
	Width	mm	2,100
	Depth	mm	800
Power consumption	Cooling	kW	1.66
	Heating	kW	1.51
Fuel gas consumption	Cooling	kW	67.7
	Heating	kW	66.3
Compressor	Type		Scrollx2
Fans	Type		Propeller fan
	Number of units		3
	Motor output	W	370x3
	Airflow rate	m^3/min	570
	Drive		Direct drive
Piping	Refrigerant	Liquid mm	19.1
		Gas mm	31.8
	Fuel gas pipe	inch	R3/4
	Exhaust vent outside dia.	mm	60.5
	Drain pipe for exhaust inside dia.	mm	15
Weight		kg	1080
Refrigerant	Type		R-410A
	Charge	kg	11.8
Engine Lubricant	Type		Yanmar genuine GHP oil
Engine coolant	Type		Yanmar genuine LLC (for GHP)
	Freezing temperature	℃	-35
Sound pressure level	Normal mode	dB(A)	62
	Quiet mode	dB(A)	59
Piping length;equivalent/actual		m	200/170
Height difference between indoor and out door units	O/U is above	m	50
	O/U is below	m	50
Height difference between indoor units		m	15
Connectable indoor units	number		48
	capacity	%	50-130

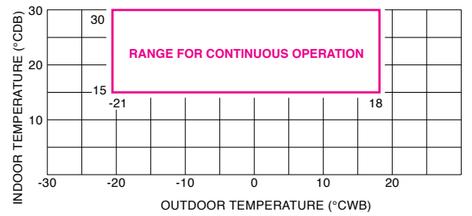
Note:
★1 Indoor temp.: 27℃CDB, 19℃CWB / outdoor temp.: 35℃CDB / Equivalent piping length: 7.5 m, level difference: 0 m
★2 Indoor temp.: 20℃CDB / outdoor temp.: 7℃CDB, 6℃CWB/ Equivalent piping length: 7.5 m, level difference: 0 m

Operation range

Cooling operation



Heating operation



Note 1: An optional air guard is required.
* If the unit is used out of the operation temperature range (especially at high outdoor temperature), it may malfunction, or the protection circuit may trip and deactivate the unit.

Options

Option name \ Model		GYAQ30ANV1
Cool/Heat selector		KRC19-26A
Fixing box		KJB111A
Distributive piping	REFNET header	KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch) KHRP26M72H (Max. 8 branch) KHRP26M73H (Max. 8 branch)
	REFNET joint	KHRP26A22T KHRP26A33T KHRP26A72T KHRP26A73T
Pipe size reducer		KHRP26M73TP , KHRP26M73HP
Antivibration mount *1		YGAS850J1
Air direction adjuster		FKA850H
Air guard		ARD850H
Exhaust extension adaptor		HA850H
Exhaust extension external drain filter		DFB19E
Water discharge kit		RGA850H1
External contact output harness *2		OSH850J

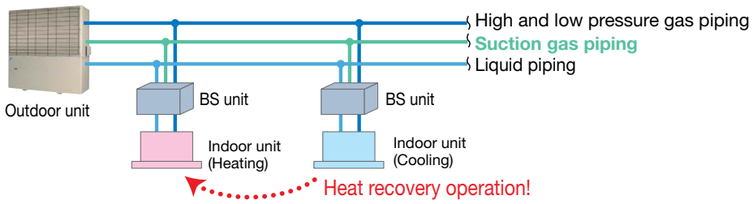
*1. Use an antivibration mount when operating noise or vibration could cause problems in lower floors or nearby rooms as a result of installing the outdoor unit on the roof. The specified antivibration mount must be used. Otherwise abnormal vibration may occur.
*2. Only use of input contact point is possible. Use of output contact point is not possible. (only for 30 class heat pump)

Heat Recovery Series 20/30 class

Heat Recovery Operation

Simultaneous heating and cooling operation within refrigerant system

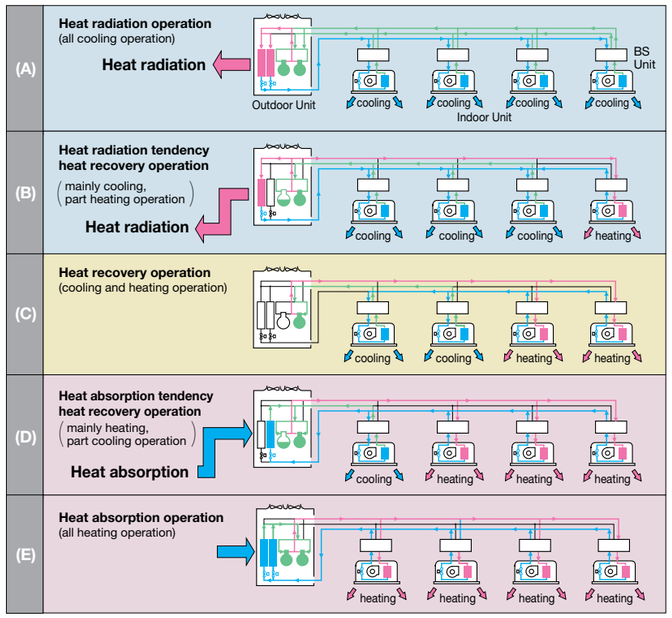
In mainly cooling, partly heating mode, the system recycles heat exhausted from the cooling operation to use for heating. In mainly heating, partly cooling mode, the system uses cooled post-heating operation refrigerant for cooling. Efficiency improves when simultaneous operation is performed.



BS unit

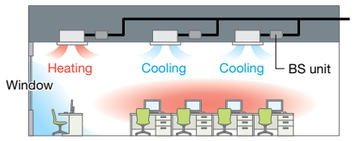
By adding suction gas piping and a BS unit (sold separately), simultaneous heating and cooling operation can be provided by a single system.

Heat recovery operation mode



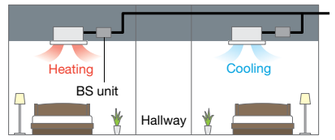
Note: Operation modes (A) and (E) are applicable when the outdoor temperature is 35°C and 7°C respectively; The other modes are applicable under typical outdoor conditions.

For example, the heat recovery system can meet the following needs:



Office building in transition period to winter

◎ The difference between heat generated from the interior zone and the cool air load in the perimeter zone is large.



Hotel in transition period

◎ Indoor units can independently meet the need for cooling and heating.

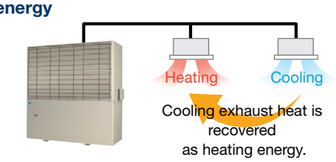
Thanks to the heat recovery system.

Automatic cooling-heating switching

The system automatically switches the operation mode to cooling or heating based on the difference between the set temperature and the indoor temperature. It is not necessary to use the remote controller to switch the operation mode to cooling or heating.

Heat recovery saves energy

Operation efficiency can be further increased by recovering cooling exhaust heat within the same system and using it effectively as heating energy.



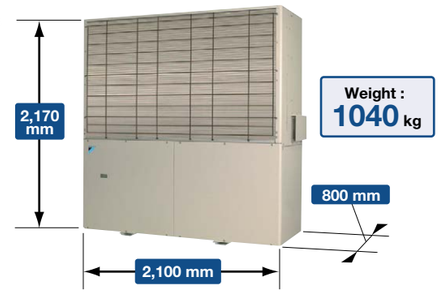
Large Capacity & Space Saving Design

Space –saving outdoor units allow flexible installation.

20 class series

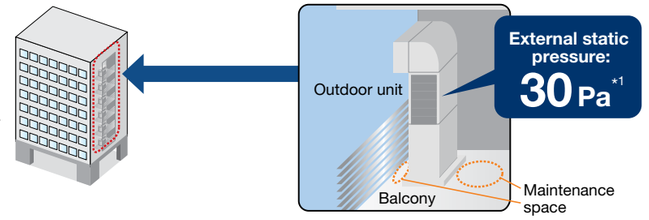
Footprint 1.35 m²

30 class series



Footprint 1.68 m²

The compact outdoor unit can be installed on the balcony of each floor.



* Allow the specified space for service. A discharge duct may need to be installed on the outdoor unit.

*1. Field setting is necessary.

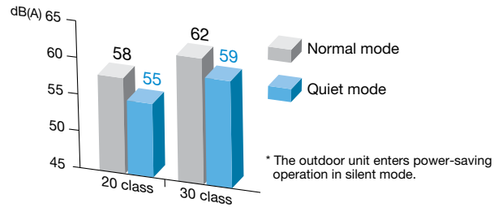
Wide Operating Range

System can operate under a wide range of outdoor temperature.

Heating	–11°C	18°C
Cooling	–10°C	43°C

Quiet Operation

Use of edge technology delivers quiet operations. Enabling the quiet mode further lowers operating noise levels.



* The outdoor unit enters power-saving operation in silent mode.

Easy Maintenance

Frequent oil change is not required.

Engine oil needs to be topped up periodically to recommended operational uses. Oil change only required after 20,000hrs of operation.

* Use the engine oil specified by Daikin.

Heat Recovery Series 20/30 class

Installation Flexibility

Long piping length

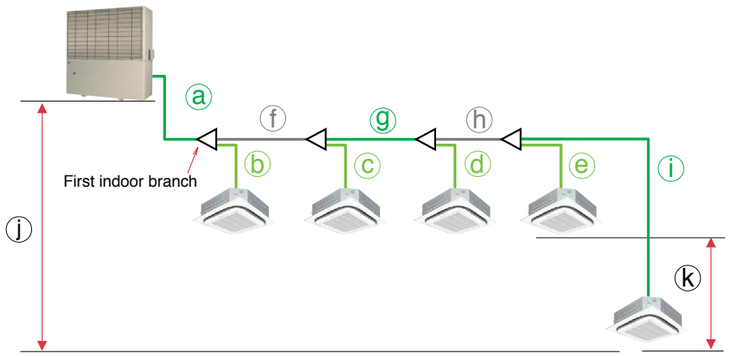
The long piping length provides more design flexibility, which can match even large-sized buildings.

Max. actual piping length
170 m

Max. equivalent piping length
200 m

Max. total piping length
640 m

Max. level difference
between the outdoor units and the indoor units
50 m



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

		Actual piping length	Example	Equivalent piping length
Maximum allowable piping length	Refrigerant piping length	**170** m	a+f+g+h+i	**200** m
	Total piping length	**640** 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	—

		Level Difference	Example
Maximum allowable level difference	Between the indoor units	**15** m*1	k
	Between the outdoor units and the indoor units	**50** m	j

★1. When the piping length between the indoor branch and the farthest indoor unit is 40 m or more, the maximum allowable level difference between the indoor units is decreased.Refer to the Engineering Data Book.

Connection ratio

Maximum connection ratio is 130%.

Connection ratio
50%–130%

Connection ratio = Total capacity index of the indoor units / Capacity index of the outdoor units

outdoor unit combination

Model name *1	kW	Class	Capacity index	Total capacity index of connectable indoor units *2 Combination (%) *2			Maximum number of connectable indoor units
				50%	100%	130%	
GYEQ20AN	56.0	20	500	250	500	650	32
GYEQ30AN	85.0	30	750	375	750	975	48

*1.Only single outdoor unit can be connected.
*2.Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outdoor unit.

Specifications

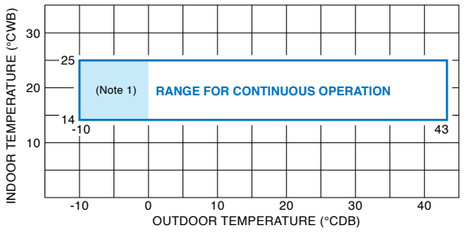

Model			GYEQ20AN	GYEQ30AN
Power supply			1- phase , 200 V , 50 Hz	
Gas	Type		Natural gas	
Capacity	Cooling ★1	kW	56.0	85.0
		Btu/h	191,000	290,000
		kcal/h	48,200	73,100
	Heating ★2	kW	63.0	95.0
		Btu/h	215,000	324,000
		kcal/h	54,200	81,700
Casing colour (Munsell no.)			Ivory white(5Y7.5/1)	
Dimensions	Height	mm	2,170	2,170
	Width	mm	1,690	2,100
	Depth	mm	800	800
Power consumption	Cooling	kW	1.17	1.77
	Heating	kW	1.10	1.57
Fuel gas consumption	Cooling	kW	47.4	67.7
	Heating	kW	46.6	66.3
Compressor	Type		Scrollx2	Scrollx2
Fans	Type		Propeller fan	
	Number of units		2	3
	Motor output	W	370x2	370x3
	Airflow rate	m³/min	380	570
	Drive		Direct drive	
Piping	Refrigerant Liquid	mm	15.9	19.1
	Refrigerant Suction	mm	28.6	31.8
	Refrigerant Discharge	mm	22.2	28.6
	Fuel gas pipe	inch	R3/4	R3/4
	Exhaust vent outside dia.	mm	60.5	60.5
	Drain pipe for exhaust inside dia.	mm	15	15
Weight		kg	860	1040
Refrigerant	Type		R-410A	R-410A
	Charge	kg	11.8	11.8
Engine Lubricant	Type		Yanmar genuine GHP oil	
Engine coolant	Type		Yanmar genuine LLC (for GHP)	
	Freezing temperature	℃	-35	
Sound pressure level	Normal mode	dB(A)	58	62
	Quiet mode	dB(A)	55	59
Piping length;equivalent/actual		m	200/170	200/170
Height difference between indoor and out door units	O/U is above	m	50	50
	O/U is below	m	50	50
Height difference between indoor units		m	15	15
Connectable indoor units	number		32	48
	capacity	%	50-130	50-130

Note: ★1 Indoor temp.: 27℃DB, 19℃WB / outdoor temp.: 35℃DB / Equivalent piping length: 7.5 m, level difference: 0 m
★2 Indoor temp.: 20℃DB / outdoor temp.: 7℃DB, 6℃WB/ Equivalent piping length: 7.5 m, level difference: 0 m

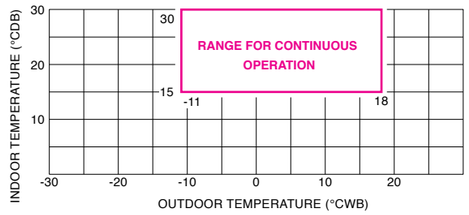
Heat Recovery Series 20/30 class

Operation range

Cooling operation



Heating operation



Note 1: An optional air guard is required.
* If the unit is used out of the operation temperature range (especially at high outdoor temperature), it may malfunction, or the protection circuit may trip and deactivate the unit.

Outdoor Unit: Options

Option name \ Model			GYEQ20AN	GYEQ30AN
Cool/Heat selector			KRC19-26A	
Fixing box			KJB111A	
Distributive piping	REFNET header		KHRP25M33H (Max. 8 branch) KHRP25M72H (Max. 8 branch) KHRP25M73H (Max. 8 branch)	
	REFNET joint		KHRP25A22T,KHRP25A33T (KHRP25A72T+KHRP25M72TP) (KHRP25A73T+KHRP25M73TP)	
Antivibration mount *1			YGAS560J1	YGAS850J1
Air direction adjuster			FKA560H	FKA850H
Air guard			ARD560H	ARD850H
Exhaust extension adaptor			HA850H	
Exhaust extension external drain filter			DFB19E	
Water discharge kit			RGA850H1	
External contact output harness			OSH850J	

*1. Use an antivibration mount when operating noise or vibration could cause problems in lower floors or nearby rooms as a result of installing the outdoor unit on the roof. The specified antivibration mount must be used. Otherwise abnormal vibration may occur.

BS Unit: Specifications

MODEL				BSGQ100PV1	BSGQ160PV1	BSGQ250PV1
Power supply				1-phase, 220-240 V, 50 Hz		
No. of branches				1		
Total capacity index of connectable indoor units				20 to 100	More than 100 but 160 or less	More than 160 but 250 or less
No. of connectable indoor units				Max. 5	Max. 8	Max. 8
Casing				Galvanised steel plate		
Dimensions (HxWxD)			mm	207x388x326		
Piping connections	Indoor Unit	Liquid	mm	ϕ 9.5 (Brazing)★1	ϕ9.5 (Brazing)	ϕ9.5 (Brazing)
		Gas		ϕ15.9 (Brazing)★1	ϕ15.9 (Brazing)★2	ϕ 22.2 (Brazing)★3
	Outdoor Unit	Liquid	mm	ϕ9.5 (Brazing)	ϕ 9.5 (Brazing)	ϕ 9.5 (Brazing)
		Suction gas		ϕ15.9 (Brazing)	ϕ 15.9 (Brazing)★2	ϕ22.2 (Brazing)★3
		High and low pressure gas		ϕ 12.7 (Brazing)	ϕ 12.7 (Brazing)★2	ϕ19.1 (Brazing)★3
Machine weight			kg	12.0	12.0	15.0
Sound level			dB(A)	42 (32)★4	43 (32)★4	44 (34)★4

Note: ★ 1 When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)
★ 2 When connecting with indoor units with total capacity indexes between 150 and 160, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)
★ 3 When connecting with indoor units with a capacity index of 200, or with total capacity indexes between 160 and 200, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)
★ 4 Figures in brackets ( ) indicate sound levels when the all indoor units connected to the BS unit are not operating but other indoor units within the same system are operating.

Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
		Capacity Range(kW)	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14	16	16.2	18.0	20	22.4	28
		Capacity Index	20	25	31.3	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFQ-SVM			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			●	●	●	●	●		●	●	●						
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		●	●	●	●	●											
4-Way Flow Ceiling Suspended	FXUQ-AVEB★								●		●							
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		●	●	●	●	●	●		●		●						
Ceiling Mounted Cassette Corner	FXKQ-MAVE			●	●	●		●										
Slim Ceiling Mounted Duct (Standard Series)	FXDQ-PBVE	 (700mm width type)	●	●	●													
	FXDQ-NBVE	 (900/1,100 mm width type)				●	●	●										
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1		●	●	●	●	●	●										
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PVE		●	●	●	●	●	●		●	●	●	●					
Ceiling Concealed (Duct)	FXDYQ-MAV1		●							●	●	●		●				
Ceiling Mounted Duct	FXMQ-PVE		●	●	●	●	●	●		●	●	●	●					
	FXMQ-PV1A														●	●	●	●
Outdoor-Air Processing Unit	FXMQ-MFV1											●					●	●
Ceiling Suspended	FXHQ-MAVE		●		●			●			●							
Wall Mounted	FXAQ-PVE		●	●	●	●	●	●										
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
Concealed Floor Standing	FXNQ-MAVE			●	●	●	●	●										

★ This FXUQ model is not compatible both Heat Pump 30 class and Heat Recovery systems.

Individual Control Systems for *VRV* Indoor System

"Nav Ease" (Wired remote controller) (Option)

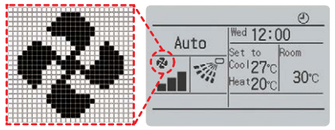
BRC1E62

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

Clear display

•Dot matrix display

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



•Backlight display

· Backlight display helps operating in dark rooms.

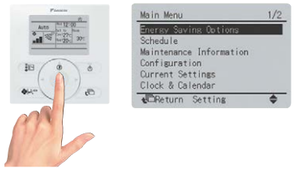
Simple operation

•Large buttons and arrow keys

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

•Guide on display

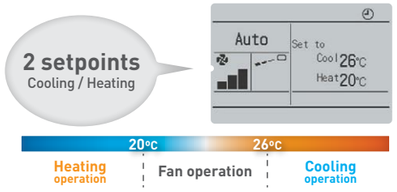
· The display gives an explanation of each setting for easy operation.



Energy saving

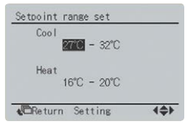
•Auto operation mode

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



•Setpoint range set

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

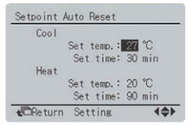


•Off timer

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

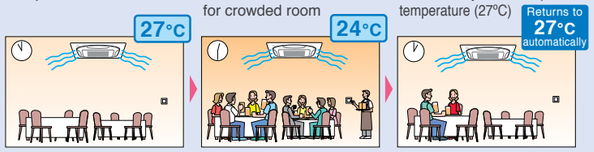
•Setpoint auto reset

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



Restaurant sample

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



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

Convenience

•Setback (default:OFF)

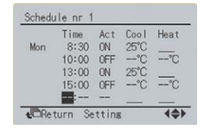
Maintains the room temperature in a specific range during unoccupied period by temporarily starting air conditioner that was turned OFF.

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

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

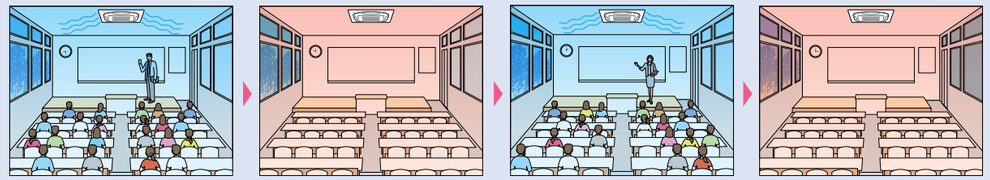
•Weekly schedule

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



College classroom sample (a summer Monday case)

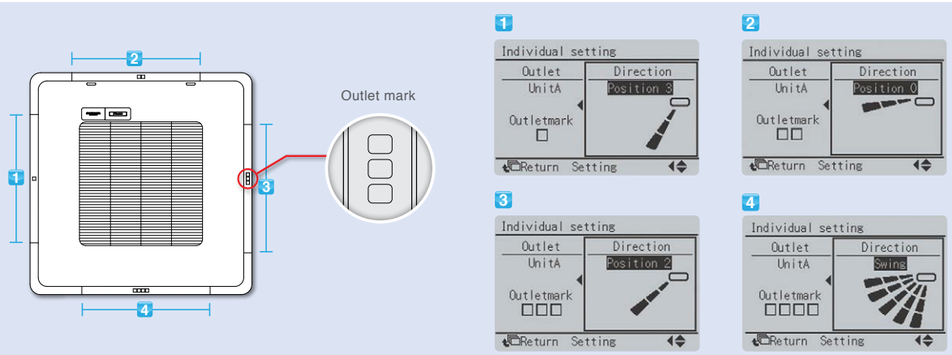
1) 8:30 ON	2) 10:00 OFF	3) 13:00 ON	4) 15:00 OFF
The first period starts and the air conditioner starts the cooling operation.	In the second period, the classroom is unoccupied and the air conditioner stops.	When the third period starts, operation starts again.	After the third period, the classroom becomes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



Comfort

•Individual airflow direction (*1)

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



•Auto airflow rate (*2)

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

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

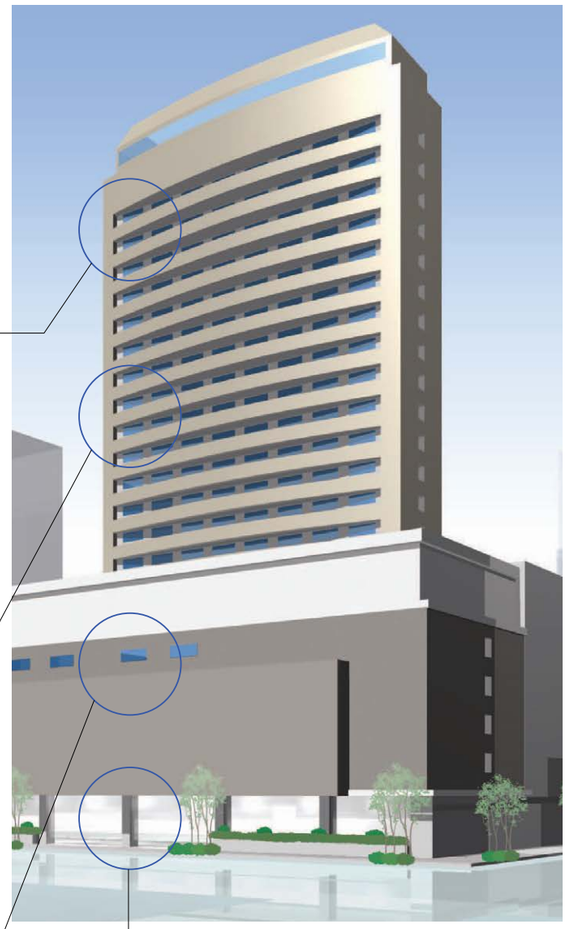
Advanced Control Systems for *VRV* System

intelligent touch Manager

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

DCM009A51

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

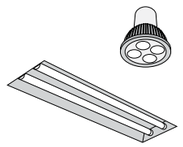


Individual air-conditioning control

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

Lighting control DALI-compatible

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



Air-conditioning control for large spaces

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

Building equipment control

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

Pump

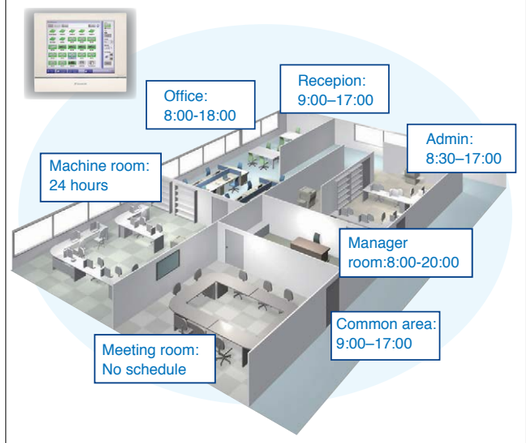
Fan

For Energy Saving & Comfort

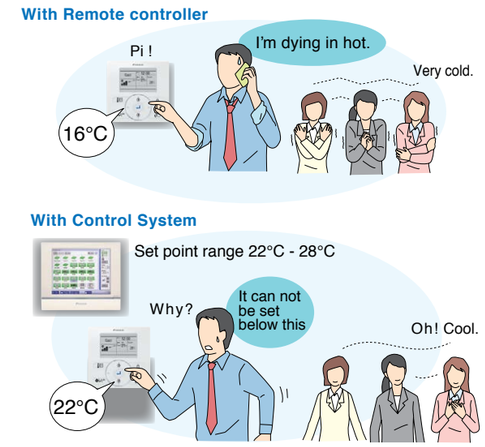
intelligent Touch Manager maximises the advantages of *VRV* features

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

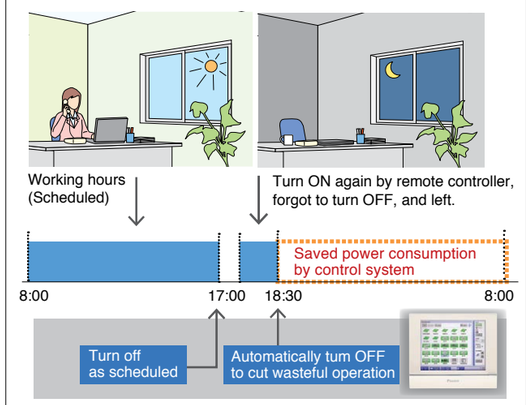
Schedule the operation time for each application.



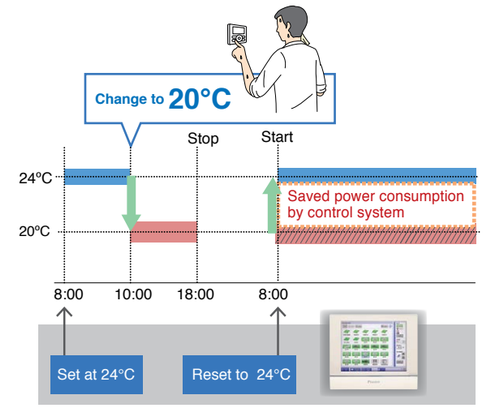
Define the setpoint range that users can change.



Turn the unit OFF if a user didn't.



Reset setpoint regularly.



Advanced Control Systems for *VRV* System

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

Lighting control (Option)

Connection to DALI - compatible lighting control system

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

DALI-compatible

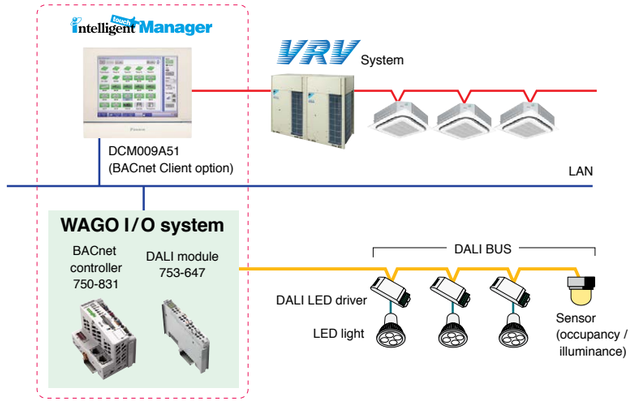
Please contact your local sales office for details.

Lighting control achieved by the *intelligent Touch Manager*

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

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

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



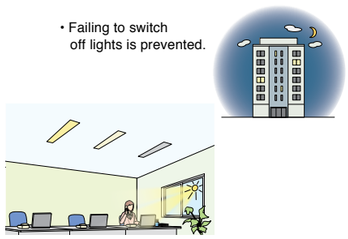
[Overview of control]

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

Easy maintenance and energy saving by lighting control

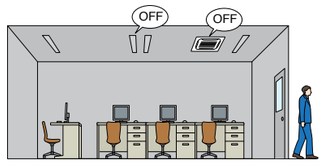
Case1

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



Case2

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



Case3

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

Lighting maintenance becomes easier and quicker.

The layout screen enables quick identification of specific locations.

Tenant Management (PPD* Option)

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

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

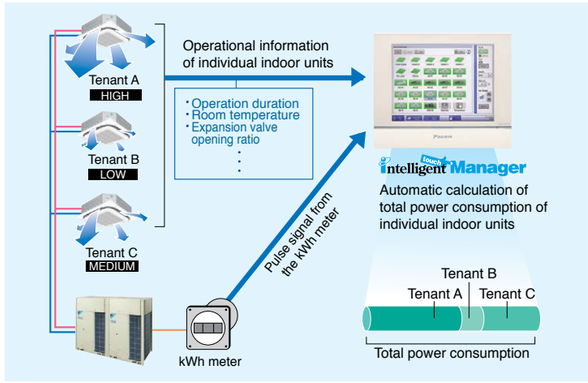
The energy consumption is proportionally calculated for each indoor unit. The data can be used for energy management and calculation of air conditioning usage fees for respective tenants.

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

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

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

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

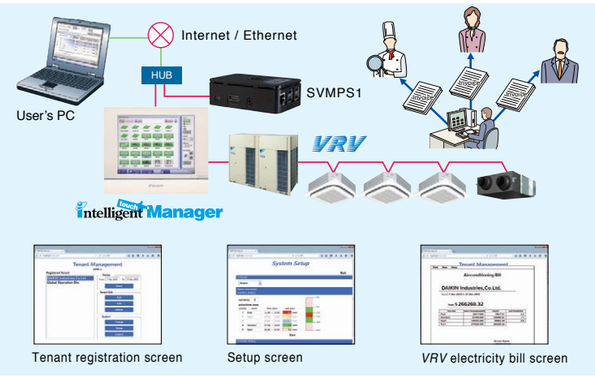


Air conditioning bills can be issued by one click

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

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

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

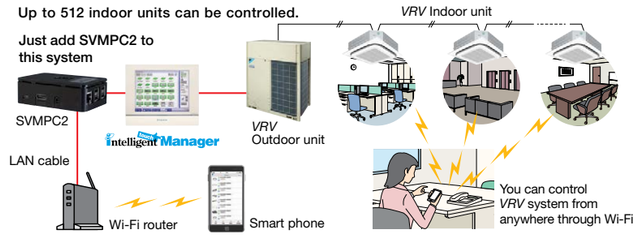


Effective service functions offered to tenants

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.

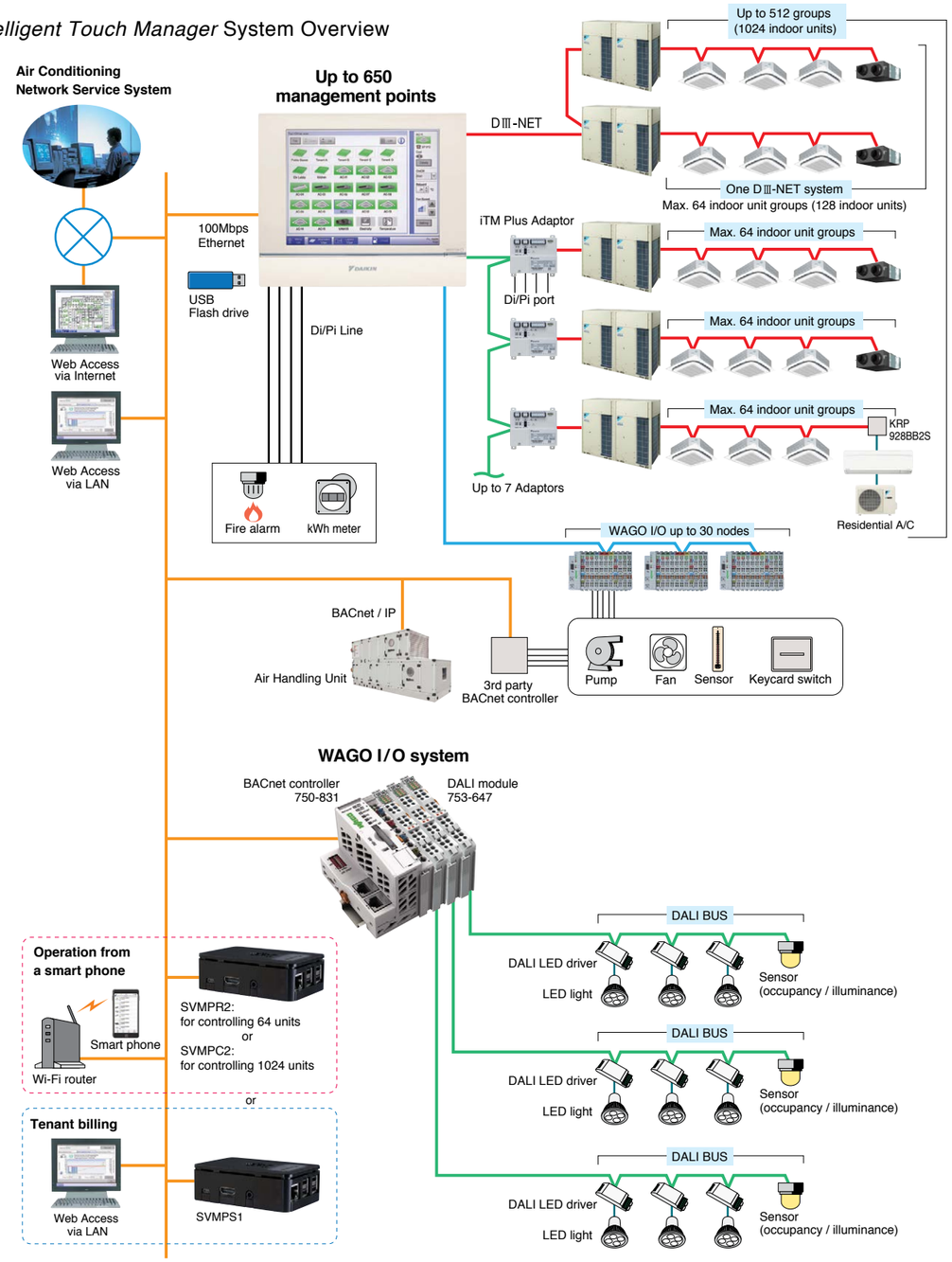
For buildings *VRV* Smart Phone Remote Controller



Advanced Control Systems for *VRV* System

System structure

intelligent Touch Manager System Overview



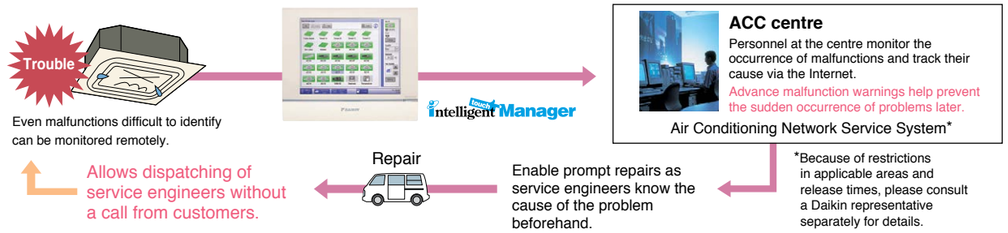
Air Conditioning Network Service System

Preventive Maintenance

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

Enhanced convenience with link to the Air Conditioning Network Service System

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



Daikin Offers a Variety of Control Systems

Convenient controllers that offer more freedom to administrators

DCS601C51

intelligent touch Controller

Ease of use and expanded control functions

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

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

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

Dedicated interfaces make Daikin air conditioners freely compatible with open networks

DMS502B51
(Interface for use in BACnet®)

BACnet®

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

DMS504B51
(Interface for use in LONWORKS®)

LONWORKS®

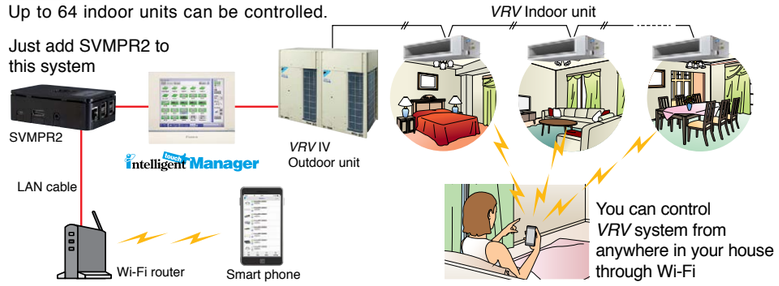
Facilitating the network integration of *VRV* system and LONWORKS®

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

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

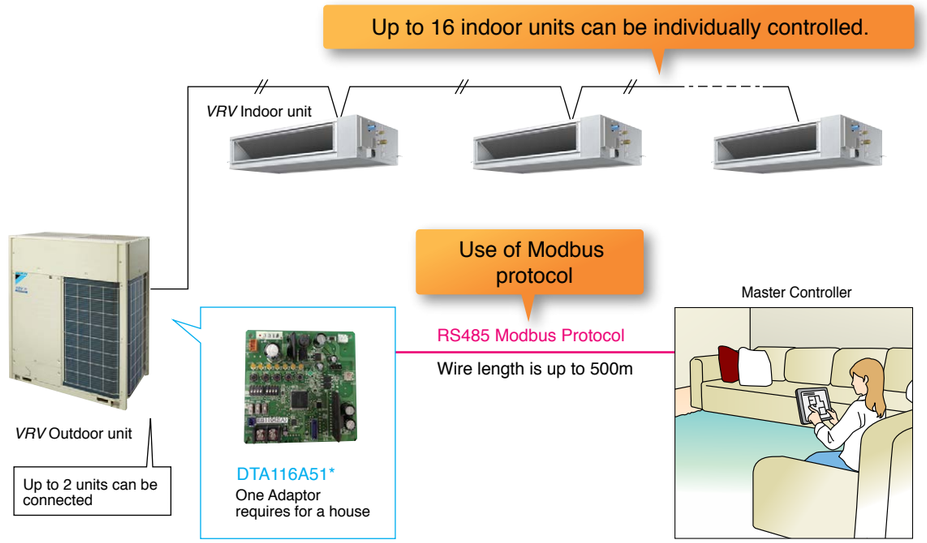
For house *VRV* Smart Phone Control System

Up to 64 indoor units can be controlled.



Advanced Control Systems for *VRV* System

Modbus Communication Adaptor



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

Functions

Monitor

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

Control

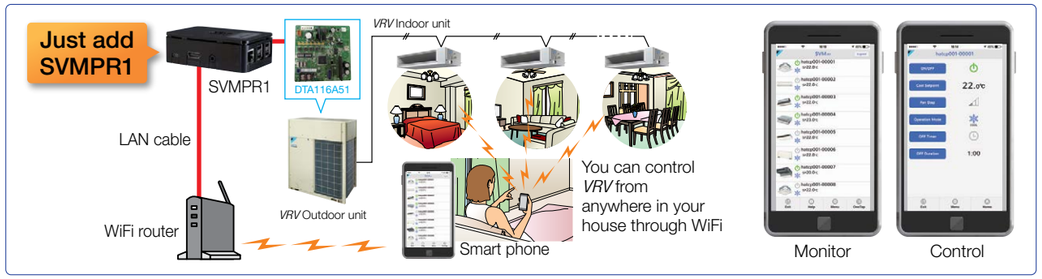
On/Off	On/Off control of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Cooling/Heating setpoint
Fan direction	Swing, Stop, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Filter sign reset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

Retrieve system information

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

VRV Smart Phone Control System

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



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

VRV Tablet Controller : SVMPC1

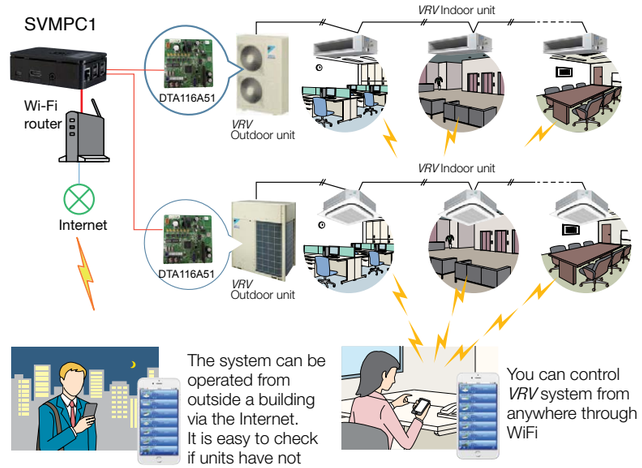
The SVMPC1 is easy to install, and enables monitoring and operation of *VRV* systems via tablets and smartphones. It is optimal for centralized management of *VRV* systems in small buildings or on individual floors of a building.

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: 24-35°C, Heat: 10-20°C)
	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

Outdoor Units

VRV IV Heat Recovery High-COP Type

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

VRV IV Heat Recovery Standard Type

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

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

VRV IV Cooling Only / Heat Pump High-COP Type

No.	Item		Type: RX(Y)Q12THY1A(E) RX(Y)Q14THY1A(E) RX(Y)Q16THY1A(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T
2	Outdoor unit multi connection piping kit		BHFP22P100
3	Cool / Heat selector		KRC19-26A (Applies to RXYQ only)

No.	Item		Type: RX(Y)Q18THY1A(E) RX(Y)Q20THY1A(E) RX(Y)Q22THY1A(E)	Type: RX(Y)Q24THY1A(E) RX(Y)Q26THY1A(E) RX(Y)Q28THY1A(E) RX(Y)Q30THY1A(E) RX(Y)Q32THY1A(E) RX(Y)Q34THY1A(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H,KHRP26M72H (Max. 4 branch) (Max. 8 branch) (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
2	Pipe size reducer		–	KHRP26M73TP, KHPR26M73HP
3	Outdoor unit multi connection piping kit		BHFP22P151	
4	Cool / Heat selector		KRC19-26A (Applies to RXYQ only)	

No.	Item		Type: RX(Y)Q36THY1A(E) RX(Y)Q38THY1A(E) RX(Y)Q40THY1A(E) RX(Y)Q42THY1A(E) RX(Y)Q44THY1A(E) RX(Y)Q46THY1A(E) RX(Y)Q48THY1A(E) RX(Y)Q50THY1A(E)
1	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
2	Pipe size reducer		KHRP26M73TP, KHPR26M73HP
3	Outdoor unit multi connection piping kit		BHFP22P151
4	Cool / Heat selector		KRC19-26A (Applies to RXYQ only)

VRV IV Cooling Only / Heat Pump Standard Type

No.	Item		Type: RX(Y)Q6TY1A(E) RX(Y)Q8TY1A(E) RX(Y)Q10TY1A(E)	Type: RX(Y)Q12TY1A(E) RX(Y)Q14TY1A(E) RX(Y)Q16TY1A(E)
1	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
2	Cool/Heat selector		KRC19-26A (Applies to RXYQ only)	

No.	Item		Type: RX(Y)Q18TNY1A(E) RX(Y)Q20TNY1A(E) RX(Y)Q22TNY1A(E)	Type: RX(Y)Q24TNY1A(E) RX(Y)Q26TNY1A(E) RX(Y)Q28TNY1A(E) RX(Y)Q30TNY1A(E) RX(Y)Q32TNY1A(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (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
2	Pipe size reducer		–	KHRP26M73TP, KHPR26M73HP
3	Outdoor unit multi connection piping kit		BHFP22P100	
4	Cool/Heat selector		KRC19-26A (Applies to RXYQ only)	

No.	Item		Type: RX(Y)Q34TNY1A(E) RX(Y)Q36TNY1A(E) RX(Y)Q38TNY1A(E) RX(Y)Q40TNY1A(E) RX(Y)Q42TNY1A(E) RX(Y)Q44TNY1A(E) RX(Y)Q46TNY1A(E) RX(Y)Q48TNY1A(E) RX(Y)Q50TNY1A(E) RX(Y)Q52TNY1A(E) RX(Y)Q54TNY1A(E) RX(Y)Q56TNY1A(E) RX(Y)Q58TNY1A(E) RX(Y)Q60TNY1A(E)
1	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
2	Pipe size reducer		KHRP26M73TP, KHPR26M73HP
3	Outdoor unit multi connection piping kit		BHFP22P151
4	Cool/Heat selector		KRC19-26A (Applies to RXYQ only)

VRV IV Cooling Only / Heat Pump Space Saving Type

No.	Item		Type: RX(Y)Q18TY1A(E) RX(Y)Q20TY1A(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T
2	Cool / Heat selector		KRC19-26A (Applies to RXYQ only)

No.	Item		Type: RX(Y)Q22TSY1A(E)	Type: RX(Y)Q24TSY1A(E) RX(Y)Q26TSY1A(E) RX(Y)Q28TSY1A(E) RX(Y)Q30TSY1A(E) RX(Y)Q32TSY1A(E) RX(Y)Q34TSY1A(E) RX(Y)Q36TSY1A(E) RX(Y)Q38TSY1A(E) RX(Y)Q40TSY1A(E)
1	Disinbutive 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, KHRP26M33T, KHRP26M72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T
2	Pipe size reducer		—	KHRP26M73TP, KHRP26M73HP
3	Outdoor unit connection piping kit		BHFP22P100	
4	Cool / Heat selector		KRC19-26A (Applies to RXYQ only)	

No.	Item		Type: RX(Y)Q42TSY1A(E) RX(Y)Q44TSY1A(E) RX(Y)Q46TSY1A(E) RX(Y)Q48TSY1A(E) RX(Y)Q50TSY1A(E)
1	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
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP
3	Outdoor unit connection piping kit		BHFP22P151
4	Cool / Heat selector		KRC19-26A (Applies to RXYQ only)

Option List

Outdoor Units

VRV IV S SERIES Heat Pump

No.	Item \ Type	RXYMQ3AV4A	RXYMQ4AV4A	RXYMQ5AV4A	RXYMQ6AV4A	RXYMQ8AY1	RXYMQ9AY1
1	Cool/Heat selector	KRC19-26A				—	
1-1	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		

VRV IIIQ Heat Pump

No.	Item \ Type		RQYQ140PY1	RQYQ8PY1B RQYQ10PY1B RQYQ12PY1B	RQYQ14PY1B RQYQ16PY1B	RQYQ18PY1B RQYQ20PY1B RQYQ22PY1B
1	Cool/Heat Selector		KRC19–26A			
1-1	Fixing box		KJB111A			
2	Distributive piping	REFNET header	KHRP26M22H (Max. 4 branch)	KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch)	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch) KHRP26M72H (Max. 8 branch)	
		REFNET joint	KHRP26A22T	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T	
3	Outdoor unit multi connection piping kit		—		—	BHFP22P100
4	Central drain pan kit		KWC26C160	KWC26C280	KWC26C450	KWC26C280×2
5	Digital pressure gauge kit		BHGP26A1			BHGP26A1×2

No.	Item \ Type		RQYQ24PY1B	RQYQ26PY1B RQYQ28PY1B	RQYQ30PY1B RQYQ32PY1B	RQYQ34PY1B RQYQ36PY1B RQYQ38PY1B RQYQ40PY1B	RQYQ42PY1B RQYQ44PY1B	RQYQ46PY1B RQYQ48PY1B
1	Cool/Heat Selector		KRC19–26A					
1-1	Fixing box		KJB111A					
2	Distributive piping	REFNET header	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch) KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch)					
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T					
3	Pipe size reducer		KHRP26M73TP, KHRP26M73HP					
4	Outdoor unit multi connection piping kit		BHFP22P100			BHFP22P151		
5	Central drain pan kit		KWC26C280×2	KWC26C280 KWC26C450	KWC26C450×2	KWC26C280×2 KWC26C450	KWC26C280 KWC26C450×2	KWC26C450×3
6	Digital pressure gauge kit		BHGP26A1×2			BHGP26A1×3		

VRV IIIQ Heat Recovery

No.	Item \ Type		RQCEQ280PY1 RQCEQ360PY1	RQCEQ460PY1 RQCEQ500PY1	RQCEQ540PY1 RQCEQ636PY1	RQCEQ712PY1 RQCEQ744PY1 RQCEQ816PY1 RQCEQ848PY1
1	Distributive piping	REFNET header	KHRP25M33H (Max. 8 branch) KHRP25M72H (Max. 8 branch) KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch)		KHRP25M33H (Max. 8 branch) KHRP25M72H (Max. 8 branch) KHRP25M73H (Max. 8 branch) KHRP26M22H (Max. 4 branch) KHRP26M33H (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)
		REFNET joint	KHRP25A22T (Max. 4 branch) KHRP25A33T (Max. 8 branch) KHRP25A72T (Max. 8 branch) KHRP26A22T (Max. 4 branch) KHRP26A33T (Max. 8 branch)		KHRP25A22T (Max. 4 branch) KHRP25A33T (Max. 8 branch) KHRP25A72T (Max. 8 branch) KHRP25A73T (Max. 8 branch) KHRP26A22T (Max. 4 branch) KHRP26A33T (Max. 8 branch)	KHRP25A22T (Max. 4 branch) KHRP25A33T (Max. 8 branch) KHRP25A72T (Max. 8 branch) KHRP25A73T (Max. 8 branch) KHRP26A22T (Max. 4 branch) KHRP26A33T (Max. 8 branch) KHRP26A72T (Max. 8 branch)
2	Outdoor unit multi connection piping kit		BHFP26P36C	BHFP26P63C		BHFP26P84C
3	Digital pressure gauge kit		BHGP26A1×2	BHGP26A1×3		BHGP26A1×4

VRV IV W SERIES Heat Pump / Heat Recovery

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

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

VRV IV W SERIES Strainer kit specifications

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

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type

No.	Item			Type	FXFQ25S	FXFQ32S	FXFQ40S	FXFQ50S	FXFQ63S	FXFQ80S	FXFQ100S	FXFQ125S
1	Decoration panel				BYCQ125B-W1							
2	Sealing material of air discharge outlet				KDBHQ55B140							
3	Panel spacer				KDBP55H160FA							
4	Filter related	High efficiency filter unit 65%			KAFP556C80						KAFP556C160	
		High efficiency filter unit 90%			KAFP557C80						KAFP557C160	
		Replacement high efficiency filter 65%			KAFP552B80						KAFP552B160	
		Replacement high efficiency filter 90%			KAFP553B80						KAFP553B160	
		Filter chamber			KDDFP55C160							
		Long life replacement filter			KAFP551K160							
		Ultra long-life filter unit			KAFP55C160							
		Replacement ultra long-life filter			KAFP55H160H							
5	Fresh air intake kit	Chamber type	Without T-duct joint		KDDQ55B140 (Components: KDDP55C160-1, KDDQ55B140-2) *1							
			With T-duct joint		KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) *1							
		Direct installation type			KDDP55X160A							
6	Branch duct chamber				KDJP55B80						KDJP55B160	
7	Insulation kit for high humidity				KDTP55K80						KDTP55K160	

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

Ceiling Mounted Cassette (Round Flow) Type

No.	Item			Type	FXFQ25P	FXFQ32P	FXFQ40P	FXFQ50P	FXFQ63P	FXFQ80P	FXFQ100P	FXFQ125P
1	Decoration panel				BYCP125K-W1							
2	Sealing material of air discharge outlet				KDBH55K160F							
3	Panel spacer				KDBP55H160FA							
4	Filter related	High efficiency filter unit 65%			KAFP556C80						KAFP556C160	
		High efficiency filter unit 90%			KAFP557C80						KAFP557C160	
		Replacement high efficiency filter 65%			KAFP552B80						KAFP552B160	
		Replacement high efficiency filter 90%			KAFP553B80						KAFP553B160	
		Filter chamber			KDDFP55C160							
		Long life replacement filter			KAFP551K160							
		Ultra long-life filter unit			KAFP55C160							
		Replacement ultra long-life filter			KAFP55H160H							
5	Fresh air intake kit	Chamber type	Without T-duct joint		KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) *1							
			With T-duct joint		KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) *1							
		Direct installation type			KDDP55X160A							
6	Branch duct chamber				KDJP55B80						KDJP55B160	
7	Chamber connection kit				KKSJ55KA160							
8	Insulation kit for high humidity				KDTP55K80						KDTP55K160	

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

Ceiling Mounted Cassette (Compact Multi Flow) Type

No.	Item		Type	FXZQ20A2	FXZQ25A2	FXZQ32A2	FXZQ40A2	FXZQ50A2
1	Decoration panel			BYFQ60C2W1W				
2	Sealing material of air discharge outlet			BDBHQ44C60				
3	Sensor Kit (White)			BRYQ60A2W				
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.

Slim Ceiling Mounted Duct Type (Compact Series)

No.	Item	Type	FXDQ20SP	FXDQ25SP	FXDQ32SP	FXDQ40SP	FXDQ50SP	FXDQ63SP
1	Air filter kit		BDDF25A32			BDDF25A50		BDDF25A63

Ceiling Mounted Cassette Corner Type

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

Slim Ceiling Mounted Duct Type (Standard Series)

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

Middle Static Pressure Ceiling Mounted Duct Type

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

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

Ceiling Concealed (Duct) Type

No.	Item	Type	FXDYQ80MA	FXDYQ100MA	FXDYQ125MA	FXDYQ145MA
1	Run/fault status PCB		KRP1B5X			

Ceiling Mounted Duct Type

No.	Item		Type	FXMQ20P FXMQ25P FXMQ32P	FXMQ40P	FXMQ50P FXMQ63P FXMQ80P	FXMQ100P FXMQ125P FXMQ140P	FXMQ160P FXMQ180P FXMQ200P FXMQ250P
1	Drain pump kit			—				
2	High efficiency filter	65%		KAF372AA36	KAF372AA56	KAF372AA80	KAF372AA160	
		90%		KAF373AA36	KAF373AA56	KAF373AA80	KAF373AA160	
3	Filter chamber			KDDF37AA36	KDDF37AA56	KDDF37AA80	KDDF37AA160	
4	Long life replacement filter			KAF371AA36	KAF371AA56	KAF371AA80	KAF371AA160	
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	
8	Drain pump kit			—	—	—	—	BDU37A250

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	

Option List

VRV Indoor Units

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	

Residential Indoor Units with connection to BP units

Ceiling Mounted Cassette (Compact Multi Flow) Type

No.	Item \ Type	FFQ25BV1B	FFQ35BV1B	FFQ50BV1B	FFQ60BV1B
1	Decoration panel	BYFQ60B3W1			
2	Replacement long-life filter	KAFQ441BA60			
3	Fresh air intake kit (Direct installation type)	KDDQ44XA60			
4	Sealing material for air discharge outlet	KDBH44BA60			
5	Panel spacer	KDBQ44BA60A			

Slim Ceiling Mounted Duct Type

No.	Item \ Type	CDXS25EAVMA	CDXS35EAVMA	FDXS25CVMA	FDXS35CVMA	FDXS50CVMA	FDXS60CVMA
1	Insulation kit for high humidity	KDT25N32		KDT25N50			KDT25N63

Wall Mounted Type

No.	Item \ Type	CTXG25-50PVMAW CTXG25-50PVMAS	FTKS20-35KVMA FTXS20-35KVMA	FTKS50-71KAVMA FTXS50-71KAVMA
1	Titanium apatite deodorising filter	KAF970A46		

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

Floor Standing Type

No.	Item \ Type	FVXS25KV1A	FVXS35KV1A	FVXS50KV1A
1	Titanium apatite deodorising filter	KAF968A42		

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

Floor/Ceiling Suspended Dual Type

No.	Item \ Type	FLXS25BVMA	FLXS35GVMA	FLXS50GVMA	FLXS60GVMA
1	Deodorising filter with frame*1	KAZ917B41			
2	Deodorising filter without frame*1	KAZ917B42			
3	Air-purifying filter with frame*2	KAF925B41			
4	Air-purifying filter without frame*2	KAF925B42			

Note: *1. The deodorising filter is a standard accessory. It can be reused indefinitely if it is exposed to direct sunlight once every 6 months. This accessory is only required if the original filter is damaged or lost, etc.
*2. The air-purifying filter is a standard accessory. It should be replaced approximately once every 3 months. This accessory is required for the replacement of filters.

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.

BS Units for Heat Recovery

Individual BS Unit

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

Centralised BS Unit

No.	Item \ Type	BS4Q14AV1	BS6Q14AV1	BS8Q14AV1	BS10Q14AV1	BS12Q14AV1	BS16Q14AV1
1	Closed pipe kit	KHFP26A100C					
2	Joint kit	KHRP26A250T					
3	Quiet kit	KDDN26A4	KDDN26A8		KDDN26A12		KDDN26A16

Control Systems

Operation Control System Optional Accessories

For *VRV* indoor unit use

No.	Item		Type	FXFQ-S	FXFQ-P	FXZQ-A2	FXCQ-M	FXKQ-MA	FXDQ-PB FXDQ-NB	FXSQ-P
1	Remote controller	Wireless	C/O	BRC7F635F		BRC7F530W	BRC7C67	BRC4C63	BRC4C66	BRC4C66
			H/P	BRC7F634F		BRC7F530W	BRC7C62	BRC4C61	BRC4C65	BRC4C65
2	"Nav Ease" (Wired remote controller)			BRC1E62 Note 7						
3	Simplified remote controller (Exposed type)			—					BRC2C51	
4	Remote controller for hotel use (Concealed type)			—					BRC3A61	
5	Adaptor for wiring			★KRP1C63		★KRP1BA57	★KRP1B61	KRP1B61	★KRP1B56	★KRP1C64
6-1	Wiring adaptor for electrical appendices (1)			★KRP2A62		★KRP2A62	★KRP2A61	KRP2A61	★KRP2A53	★KRP2A61
6-2	Wiring adaptor for electrical appendices (2)			★KRP4AA53		★KRP4AA53	★KRP4AA51	KRP4AA51	★KRP4A54	★KRP4AA51
7	Remote sensor (for indoor temperature)			KRCS01-4B		KRCS01-1B			KRCS01-1B	KRCS01-4B
8	Installation box for adaptor PCB☆			Note 2, 3 KRP1H98		Note 4, 6 KRP1BA101	Note 2, 3 KRP1B96	—	Note 4, 6 KRP1BA101	Note 2,3 KRP4A98
9	External control adaptor for outdoor unit			★DTA104A62		★DTA104A62	★DTA104A61	DTA104A61	★DTA104A53	★DTA104A61
10	Adaptor for multi tenant			★DTA114A61		—				★DTA114A61

No.	Item		Type	FXDYQ-MA	FXMQ-P	FXUQ-A	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA
1	Remote controller	Wireless	C/O	BRC4C64	BRC4C66	BRC7CB59	BRC7EA66	BRC7EA619	BRC4C64
			H/P	BRC4C62	BRC4C65	BRC7CB58	BRC7EA63W	BRC7EA618	BRC4C62
2	"Nav Ease" (Wired remote controller)			BRC1E62 Note 7					
3	Simplified remote controller (Exposed type)			BRC2C51		—			BRC2C51
4	Remote controller for hotel use (Concealed type)			BRC3A61			—		BRC3A61
5	Adaptor for wiring			KRP1B61	★KRP1C64/67*	—	KRP1BA54	—	KRP1B61
6-1	Wiring adaptor for electrical appendices (1)			KRP2A61	★KRP2A61/62*	—	★KRP2A61	★KRP2A61	KRP2A61
6-2	Wiring adaptor for electrical appendices (2)			KRP4AA51	★KRP4AA51/52*	★KRP4AA53	★KRP4AA52	★KRP4AA52	KRP4AA51
7	Remote sensor (for indoor temperature)			KRCS01-1B	KRCS01-4B	KRCS01-1B			
8	Installation box for adaptor PCB☆			—	Note 2, 3 KRP4A96* Note 3 BRP9A90*	KRP1BA97	Note 3 KRP1CA93	Note 2, 3 KRP4AA93	—
9	External control adaptor for outdoor unit			DTA104A61	★DTA104A61	—	★DTA104A62	★DTA104A61	DTA104A61
10	Adaptor for multi tenant			—	★DTA114A61	—		★DTA114A61	—

Note: 1. Installation box ☆ is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box ☆ is necessary for second adaptor.
6. Installation box ☆ is necessary for each adaptor.
7. Individual airflow direction, auto airflow rate and sensing sensor control can be set only via wired remote controller BRC1E62. Cannot be set via other remote controllers.
*KRP1C64, KRP2A61, KRP4AA51 & KRP4A96 are only suitable for FXMQ20-140P. While KRP1C67, KRP2A62, KRP4AA52 & BRP9A90 are only suitable for FXMQ160-250P

For residential indoor unit use

No.	Item		Type	FFQ-B	CDK(X)S-EA C(F)DK(X)S-C	CTXG-P FTK(X)S-K(A)	FVXS-K	FLXS-B FLXS-G
1	Remote controller	Wired Note 1		BRC1E62	BRC944B2 Note 2		—	
		Wireless	C/O	BRC7E531W	— Note 3			
			H/P	BRC7E530W				
2	Wired remote controller cord	Length 3 m (shielded wire)		—	BRCW901A03		—	
		Length 8 m (shielded wire)		—	BRCW901A08		—	
3	Adaptor for wiring			Note 4 KRP1BA57	—			
4	Wiring adaptor for electrical appendices			Note 4 KRP4AA53	—			
5	Installation box for adaptor PCB			KRP1BA101	—			
6	Remote sensor (for indoor temperature)			KRCS01-1B	—			
7	Wiring adaptor for time clock/remote controller Note 5 (Normal open pulse contact/normal open contact)			—	KRP413AB1S			
8	Remote controller loss prevention chain			—	KKF917A4	KKF910A4		KKF917A4
9	Interface adaptor for DIII-NET use			DTA112BA51	KRP928BB2S			

Note: 1. Wiring for wired remote controller should be obtained locally.
2. 3 m (BRCW901A03) or 8 m (BRCW901A08) length wired remote controller cord is necessary.
3. A wireless remote controller is a standard accessory for C(F)DK(X)S, CTXG, FTK(X)S, FVXS and FLXS models.
4. Installation box for adaptor PCB (KRP1BA101) is necessary.
5. 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 C(F)DK(X)S, CTXG, FTK(X)S, FVXS, FLXS		Note 3 KRC72A	• Up to 5 indoor units can be controlled. This is a low cost system which can only control ON/OFF.
3	Interface adaptor for residential indoor units			KRP928BB2S	• Adaptors required to connect products other than those of the *VRV* System to the high-speed DIII-NET communication system adopted for the *VRV* System. * To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
4	Interface adaptor for SkyAir-series			Note 4 ★DTA112BA51	
5	Central control adaptor kit	For UAT(Y)-K(A),FD-K		★DTA107A55	
6	Wiring adaptor for other air-conditioner			★DTA103A51	
7	DIII-NET Expander Adaptor			DTA109A51	• Up to 1024 units can be centrally controlled in 64 different groups. • Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor.
7-1	Mounting plate			KRP4A92	• Fixing plate for DTA109A51

Note: 1. Installation box for ★ adaptor must be obtained locally.
2. For residential use only. Cannot be used with other centralised control equipment.
3. A wiring adaptor (KRP413AB1S) is also required for each indoor unit.
4. No adaptor is required for some indoor units.

Building Management System

No.	Item				Model No.	Function
1	intelligent Touch Controller	Basic	Hardware	intelligent Touch Controller	DCS601C51	• Air-Conditioning management system that can be controlled by a compact all-in-one unit.
1-1		Option	Hardware	DIII-NET plus adaptor	DCS601A52	• Additional 64 groups (10 outdoor units) is possible.
1-2	Electrical box with earth terminal (4 blocks)				KJB411A	• Wall embedded switch box.
2	intelligent Touch Manager	Basic	Hardware	intelligent Touch Manager	DCM601A51	• Air-conditioning management system that can be controlled by touch screen.
2-1		Option	Hardware	iTM plus adaptor	DCM601A52	• Additional 64 groups (10 outdoor units) is possible. Max. 7 iTM plus adaptors can be connected to intelligent Touch Manager.
2-2			Software	iTM power proportional distribution	DCM002A51	• Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh metre.
2-3				iTM energy navigator	DCM008A51	• Building energy consumption is visualised. Wasted air-conditioning energy can be found out.
2-4				BACnet client	DCM009A51	• BACnet equipment can be managed by intelligent Touch Manager.
2-5				HTTP Interface	DCM007A51	• Interface for intelligent Touch Manager by HTTP
2-6			Hardware	*1 SVM series	SVMPR2	• *VRV* Smart Phone Control System for residence
2-7					SVMPC2	• *VRV* Smart Phone Remote Controller for building
2-8					SVMPS1	• Tenant Billing System with PPD
2-9	*VRV* Smart Phone Control System				SVMPR1	• *VRV* Smart Phone Control System for residence with DTA116A51.
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		Modbus communication Adaptor			DTA116A51	• Use of the Modbus protocol enables the connection of the *VRV* system with a variety of Modbus communication systems from other manufacturers.
6	Contact/ analogue signal	Unification adaptor for computerised control			★DCS302A52	• Interface between the central monitoring board and central control units.

Note: *1. HTTP interface (DCM007A51) is also required.
*2. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
*3. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.
*4. Installation box for ★ adaptor must be obtained locally.

Warning

- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

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

Cautions on product corrosion

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

● Specifications, designs and other content appearing in this brochure are current as of December 2017 but subject to change without notice.

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