



Next generation **VRV** system featuring VRT now with Airside Control



New Products Information



The 1st Generation

VRV series released in 1982

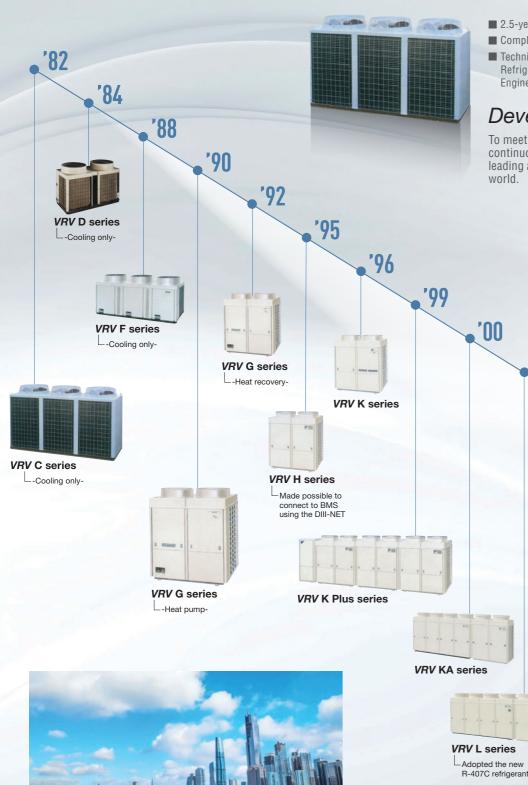
<The birth of innovative products that changed the history of air conditioning technology>

'00

'02

VRV II M series

_Adopted the new R-410A refrigerant



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

Development history

To meet the needs of the times, we've been continuously developing technologies as the leading air conditioning manufacturer in the world.

'04

VRV II-S

'05

VRV-WII

VRV III series

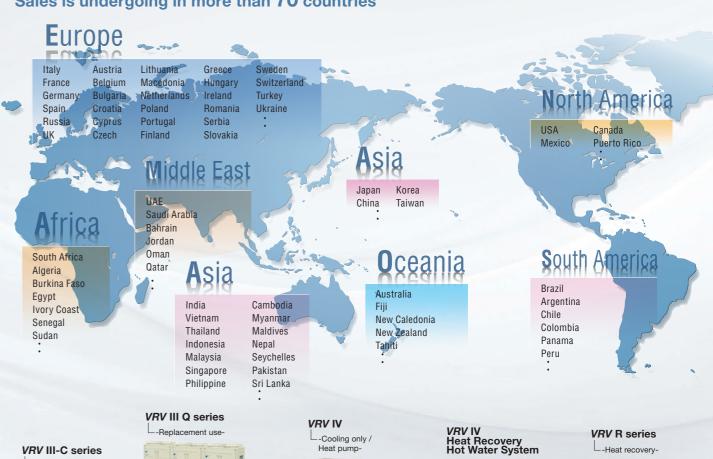
VRV II MA series

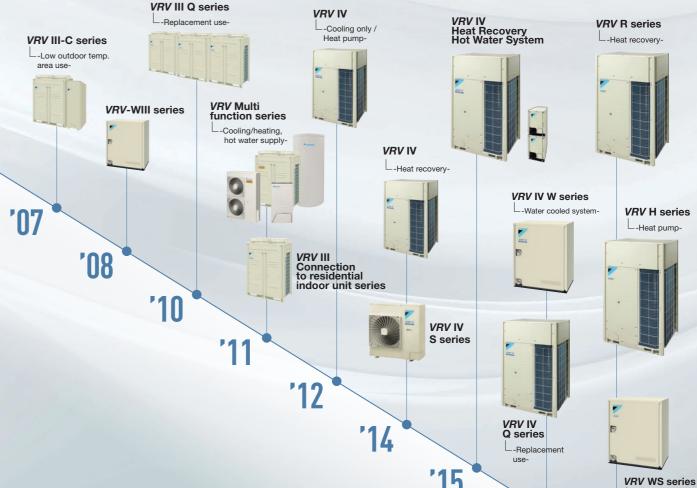
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VRV III-S

Expansion of the country of sale

Sales is undergoing in more than 70 countries





* VRV is a trademark of Daikin Industries, Ltd.

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VRV User Benefits



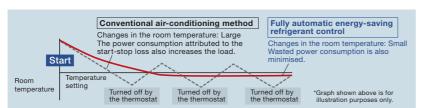
First launched in 1982, the Daikin *VRV* system has been providing comfort and reliability to building owners and their tenants for over 35 years. Leveraging the latest in energy-saving technology, Daikin has further improved energy savings while reducing space requirements. This added value is one reason why Daikin is the right choice for building owners.

Energy saving &comfortable environment

Based on the idea of using only as much space as absolutely required, Daikin first launched its commercial multi-split air conditioning systems in 1982. Since then, customers have benefitted from much increased energy efficiency. Now, our revolutionary new systems dramatically reduce energy with VRT Smart Control. During operating periods, control programs ensure thermal loading is generally low, thus boosting energy efficiency. This greatly reduces the amount of energy required for building air conditioning.

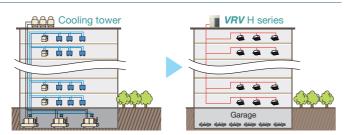
While optimally operating at low load, it maintains a comfortable indoor environment.





Efficient space utilisation

Daikin **VRV** system can be used to develop a large-scale air conditioning system on a single refrigerant system, thus reducing the space required for air conditioning equipment. Because the difference in height between the indoor and the outdoor unit can be as large as 90 m, even with a 20-storey building all of the outdoor units can be placed on the rooftop for more efficient utilisation of space.



High reliability

Double backup operation

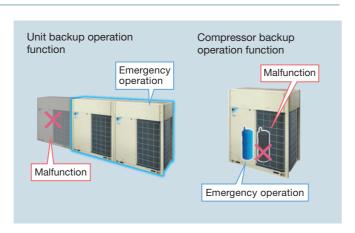
Daikin **VRV** outdoor unit goes beyond just highly reliable compressors with a backup system that ensures continued operation.

Unit backup

Should one outdoor unit in a multiple unit system fail, the other outdoor units switch to emergency operation. If for some reason a failure occurs, the system for that unit does not completely stop, and air conditioning is maintained.

Compressor backup

Since units are equipped with two compressors, even if one compressor fails, the other compressor carries on in emergency mode.





Comfortable environment

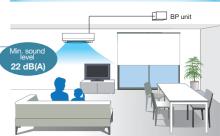
While operating optimally at low load, VRT smart operation maintains the indoor temperature and ensures a comfortable environment.



Residential indoor units

Because indoor units developed for residential use can be connected, it is possible to realise quiet operation.

You can include indoor units that operate at min. 22 dB(A), and to reduce the noise of refrigerant passing through the piping by remotely installing an BP unit.



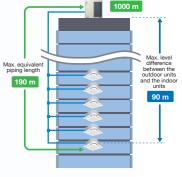


Varied lineup of models

System applications range from family residences to large commercial buildings. With various types of indoor units available, comfortable airflow is ensured in every space.

Long piping provides more flexible system design

Greater design freedom is provided because equivalent piping between indoor and outdoor unit can run as large as 190 m and reach a maximum height difference of 90 m.



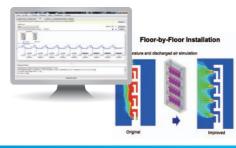
Compatible with engineering software

We at Daikin provide the software, the simulation results, and drawing materials to support the business-information modeling (BIM) currently entering the mainstream in construction industries.

Energy efficient

Daikin's innovative energy-saving technology helps you to achieve your green building solution.







Lightweight and compact large-capacity single units

Systems can be configured with single modules providing up to 20 class. The lightweight and compact bodies are both easy to install and can be transported in elevators.



Simple piping, easy wiring

The REFNET piping system and DIII-NET system simplify refrigerant piping and control wiring installation.

Wide variety of series models to supply total air solutions

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

IRI H SERIES

P.13

Heat Pump



RXYQ-A

Lineun

3-phase 4-wire system,
390-415 V/390 V 50/60 Hz

шисар																												
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																		•										

URVIR SERIES

Heat Recovery



REYQ-TA

Lineup

-	
ise 4-wire system,	

-1110ap																												
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			•							•						•			•									

URV IV S SERIES

Heat Pump



3-phase, 380-415 V, 50 Hz

RXYMQ-A

Lineup Heat Pump

Saves space and delivers excellent performance

The VRV H series achieves high efficiency in a design that is more compact and lightweight. It also offers comfort, easy installation, and high reliability to meet the needs in various buildings.

P.31

Maximum comfort via simultaneous cooling and heating

The VRV R 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.

P.53

Especially designed for residential houses, 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 houses, 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.

VRV IV Q SERIES

Heat Pump



VRV IV Q series Heat Pump **RQYQ-T**



380-415 V. 50 Hz

For quick & high quality replacement use

VRV IV Q series/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.

3-phase 4-wire system 380-415 V, 50 Hz Lineup

-																									
class				8	10	12	13	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
VRV IV Q series	Heat	Standard Type											•	•	•								•		
	Pump	Space Saving Type																•					•		
VRV III Q series	Heat Rec	overy			•				•	•	•		•	•	•										

URU W SERIES

Heat Pump / Heat Recovery



RWEYQ-T

3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz

Water cooled system suitable for tall multi-storey buildings

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

URY WS SERIES

P.105

P.81

Heat Pump



RWXYQ-A

Water cooled system suitable for residential houses

Water cooled VRV WS series outside units are designed to be compact and lightweight, and single phase power supply enables simplified installation in residential applications.

Lineup

class	3	4	5	6
Heat Pump				•

Wide range indoor unit lineup creating

various comfortable airflow

■ VRV indoor units

																1	lew I	ineup
Type	Model Name	Capacity Range(kW)	20	25 2.8	32	40	50 5.6	63 7.1	71 8	80 9	100 11.2		140	145 16.2			200 22.4	
туре	Wiodel Name	Capacity Index	20		31.25			62.5		80			140				200	
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVM			•	•	•	•	•		•	•	•	•		1	1		
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE				•		•	•		•		•			1	1		
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		•		•	•	•		1			 			 	1 1 1 1 1		
4-Way Flow Ceiling Suspended	FXUQ-AVEB			 		1						 			 	 		1
Ceiling Mounted Cassette (Double Flow)	FXCQ-AVM								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		 		 	 		
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36						•								 	 		1
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-TV1B(A)		•				•	•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			 			 	 		
Slim Ceiling Mounted Duct	FXDQ-PDVE	(700mm width type)				 			1		1		 		1	1		
(Standard Series)	FXDQ-NDVE	(900 / 1,100mm width type)		 	 				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							 		1
Ceiling Concealed Duct	FXDYQ-MAV1			 	 	 				•		•		•				
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVE		•		•				1	•		•	•		 	 		1
Ceiling Mounted	FXMQ-PAVE		•	•	•	•	•	•	1	•	•	•	•					
Duct	FXMQ-PV1A			 	1 1 1 1 1 1	1 1 1 1 1 1	 		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 	1 1 1 1 1 1			•	•	•	•
Outdoor-Air Processing Unit	FXMQ-MFV1			! ! ! !		 	1				1	•						
Ceiling Suspended	FXHQ-MAVE			 	•	 	 	•	1		•	1 1 1 1 1	! ! ! !		 	 		
	FXHQ-AVM			 	 	 												
Wall Mounted	FXAQ-AVM											 			 	 		
Floor Standing	FXLQ-MAVE				•		•	•	1 1 1 1 1 1 1			 						
Concealed Floor Standing	FXNQ-MAVE		•		•		•	•										
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Ai	rflow	rate	e 500	0-10	00 m	n³/h									
Heat Reclaim Ventilator	VAM-GJVE	00	Ai	rflow	rate	e 150	0-20	00 m	n³/h									
air Handling Unit AHUR 6-60 class																		

■ Residential indoor units with connection to BP units

			20	25	35	50	60	71
Type	Model Name	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	FDXS-CVMA	(900/1,100 mm width type)						
Wall	FTXS-KVMA							
Mounted	FTXS-KAVMA							

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











Greater energy savings during low-load operation

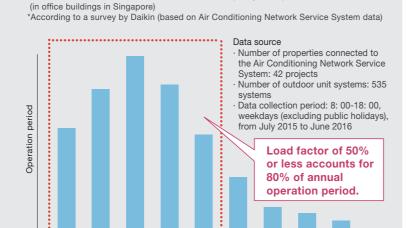
The key to innovative energy savings is to increase efficiency during low-load operation.

Using data gathered from actual operation, Daikin discovered that air conditioning systems operate at a load factor of 50% or less for 80% of their annual operation period.*

This inspired us to develop new technologies to enhance energy efficiency during low-load operation.

Utilising these technologies, Daikin's new VRV H series raises the standard of energy efficiency.

- * Main factors for frequent operation at low load of 50% or lower
- Because individual control is possible for VRV system, air conditioning is turned OFF to unoccupied rooms such as conference rooms, private rooms, and storage rooms.
- Maximum number of people assumed at the time of design has
- There are zones without tenants such as the tenants' office

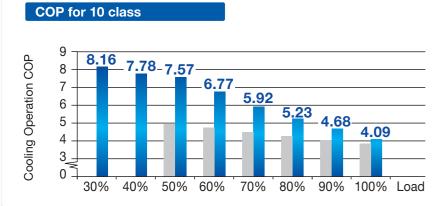


Correlation between the load factor for the rated capacity and operation time

20% 30%

40%

Higher Coefficient of Performance (COP)



Annual power consumption 14%* lower

70%

80%

* Simulation conditions:

50% 60%

Load factor for the rated capacity

- · Location : Bangkok, Thailand
- System: Outdoor unit (10 class) x 1
- Indoor unit (2 class, Round Flow with Sensing type) x 5
- Operation time: 8:00-20:00 5 days/week

New model: RXYQ10A (VRV H series) Conventional model: RXYQ10T (VRV IV)

VRV IV (RXYQ10T)

VRV H SERIES

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

Advanced technologies for greater energy savings

By uniting advanced software and hardware technologies, VRV H Series is able to attain greater heights in energy savings and comfort.

VRT Smart Control (Fully Automatic Energy-saving Refrigerant Control)

Software technology

Daikin's VRT Smart technology takes comfort and energy performance to the next level. Building on our variable refrigerant temperature technology which enables the evaporating temperature to adjust to meet the varying load. VRT Smart is now also able to automatically adjust the indoor unit airflow rate (Airside Control) to ensure optimal comfort and energy performance is delivered at all times.

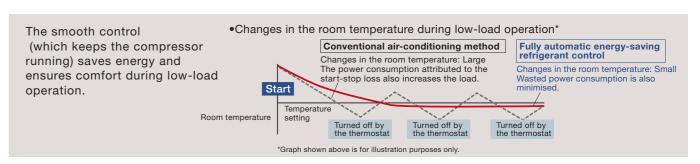


Control Function

Overview of the control (system control flow)

Different automatic energy-saving refrigerant control applies depending on the indoor units connected.

Target indoor units Temperature data received Subject to VRT smart control Subject to VRT control from indoor units **Coordinated control** he following items are calculated The VRT smart control also controls based on the required capacity: the airflow rate of indoor units automatically*, to achieve Indoor fan air volume energy-saving control. Target value of refrigerant Select the target 3 Compressor speed control * Airflow rate should be set to "Auto" refrigerant speed control temperature



- •For the classification of indoor units (VRT smart control and VRT control), refer to pages 25–26.
- •If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
 •If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled

Optimum utilisation of VRT Smart Control and VRT Control

VRT Smart and VRT control is most effective when all the indoor units operate under low load conditions in a similar manner. Low load conditions is the time when room temperature approaches set temperature.

For this reason, please note the following to maximise efficacy.

•When selecting indoor units

Indoor units are installed in a system so that they operate largely under the same conditions.

Energy efficiency decreases for the installation patterns indicated below. Example:

- 1) A load imbalance occurs because an indoor unit on the same system is installed near the perimeter of the room or in the vicinity of a room entrance.
- 2) Different operating hours for indoor units.
- 3) Energy efficiency decreases when the set temperature of a specified indoor unit is set to an extreme during cooling operation. E.g. 18°C

New Scroll Compressor*

Hardware

New Scroll

Compressor

Refrigerant leakage is minimised during low-load operation.

Operational loss due to refrigerant leakage is reduced with the inclusion of a proprietary back pressure control mechanism to ensure stable low-load operation.

 Compressor efficiency* New compressor Conventional compressor The back pressure control mechanism increases the efficiency during low-load operation.

*Graph shown above is for illustration purposes only.

Back pressure control mechanism

Conventional mechanism

The orbiting scroll is engaged by the pressure difference between high and low pressures

The force engaging the orbiting scroll decreases during low-load operation, resulting in compression leakage from movable parts.

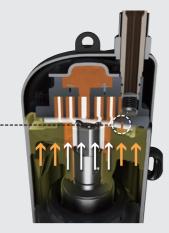


The force pressing the orbiting scroll decreases during low-load operation.

scroll is optimised

New intermediate pressure mechanism

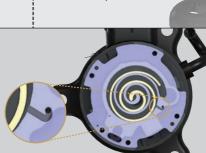
The pressure on the orbiting according to operating conditions. As a result, the orbiting scroll has been stabilised to increase efficiency during low-load operation.



The intermediate pressure maintains pressure on the orbiting scroll during low-load operation.

Intermediate pressure adjustment port

The intermediate pressure (back pressure) optimises the pressure on the orbiting scroll depending on the operating condition.



* The new mechanism is only applicable to RXYQ10, 12 and 20A models.

Advanced oil temperature control

Standby power consumption is reduced

The advanced oil temperature control reduces standby power consumption by up to 82.7%* annually compared to conventional models. Standby power needed for preheating refrigerator oil, which consumed substantial standby power, was reduced to save energy when the air conditioner is stopped.

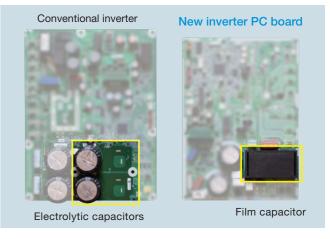
* Operation calculation conditions: VRV H series 14 class

High reliability

New inverter PC board

The control functions of inverter technology have been integrated on printed circuit boards. As well as improving reliability, this has reduced the number of parts and enabled

- New waveform control improves tolerance of variations in power supply voltage. Even if the power supply has irregularities, rises in current are suppressed and operation
- Durability of the inverter printed circuit board improved by changing the electrolytic capacitors for the compressor to film capacitors.



Location: Singapore
Operation time: 08:00–18:00 on weekdays.

VRV H SERIES Heat Pump

Comfort

Low operation sound

High efficiency heat exchanger helps to achieve low operation sound.

Sound level(dB(A))

	6/8 class	10 class	12 class	14/16 class
URV H SERIES	56	57	59	60

Large airflow, high static pressure and quiet technology

Advanced analytic technologies are utilised to optimise fan design and increase airflow rate and high external static pressure.





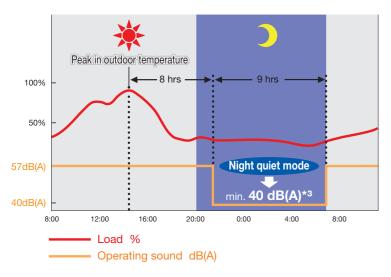


Nighttime quiet operation function

For areas with stringent restrictions placed on outdoor sound levels, the outdoor unit can be set for low operation sound during the nighttime to meet sound restrictions.

The automatic night quiet mode will initiate 8 hours*1 after the peak temperature is reached in the daytime, and normal operation will resume 9 hours*2 after that.

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



Note:

- · The night quiet mode lowers operating sound by reducing capacity. This function is available in setting at site.
- The operating sound in quiet operation mode is the actual value measured by our company. Because priority is given to protection mode, such as for oil recovery, the operating sound may become higher temporarily.
- The relationship of outdoor temperature (load) and time shown above is just an example.

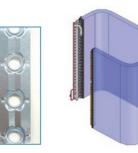
Compact design with high performance

Highly integrated heat exchanger

The unique 4-sided all round heat exchanger ensures sufficient surface area for the heat exchanger. This improves the heat exchanger performance without increasing the footprint.

Waffle Fin

A waffled-shaped fin with fin pitch of 1.4 mm was adopted to realise sufficient heat exchanger area for optimum unit efficiency.

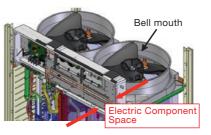


4-sided heat exchanger

r High efficiency heat exchanger is realised by reducing airflow resistance with adoption of small cooling tubes with a diameter of Φ7.

Optimised inner design to ensure smooth airflow

Electric components were downsized and positioned in the dead space of the bell mouth side to decrease airflow resistance.



Easy maintenance Electrical components

The electrical components are strategically located on the top which eases the maintenance process.

Moreover, the heat exchanger on the front side can be used effectively to improve its performance.



Sufficient cooling for electrical components

The **VRV** H series is designed with the electrical box strategically positioned between a region of positive and negative pressure. This design allows large airflow from negative pressure to positive pressure due to the high pressure difference.

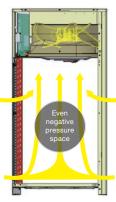
 High pressure since air enters near the fan blower inlet

High pressure difference

res Witho volum comp be at dead the pre-

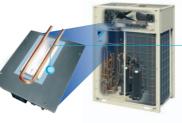
Eliminate suction resistance issue

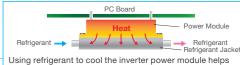
Without affecting the fan volume, the electric components are designed to be at the top and this ulitises dead space. This eliminates the problem of suction resistance.



High reliability at high ambient temperatures

It is possible to keep operation stable even at high ambient temperatures by cooling the inverter power module. This helps maintain air-conditioning capacity and reduces failure ratio.





using reinigerant to cool me inverter power module risips minimise the size of the electronic components, and this results in reduction of airflow resistance and high efficiency of the heat exchanger.

Control board failure ratio at stable operation is reduced.

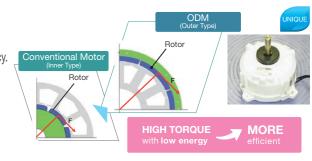
Outer Rotor DC Motor (ODM)

Only Daikin has adapted an ODM with the feature of stable rotation and volumetric efficiency.

Advantages of ODM

Thanks to the large diameter of the rotor,

- (1) Large torque with same electromagnetic force
- ② Stable rotation in all ranges and can be operated with small number of rotations



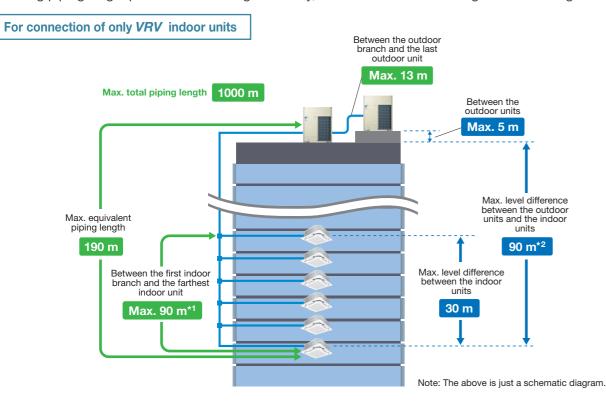
Flexible System Design

IRI H SERIES Heat Pump

■ More options for installation location

Long piping length

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



	Actual piping length (Equivalent)	165 m (190 m)
	Total piping length	1000 m
Maximum allowable piping length	Between the first indoor branch and the farthest indoor unit	90 m*1
	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)
	Between the outdoor units (Multiple use)	5 m
Maximum allowable level difference	Between the indoor units	30 m
	Between the outdoor units and the indoor units	90 m*2

- *1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. The VRV H series is easy to extend to 90 m by lessening the conditions from conventional VRV IV models. 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 =

Total capacity index of the indoor units

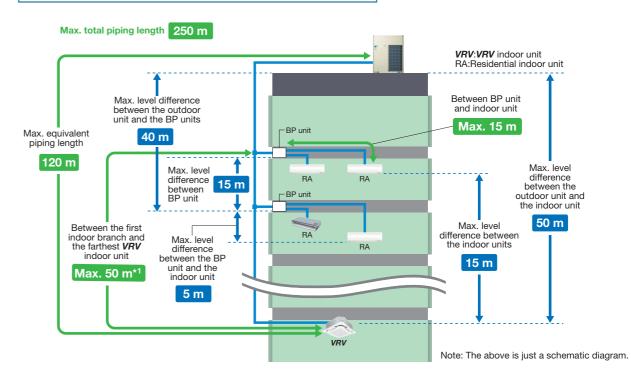
Capacity index of the outdoor units

Conditions of VRV indoor unit connection capacity

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

- *1 For the FXF(S)Q25 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 24 for outdoor unit combination details.

For mixed combination of *VRV* and residential indoor units



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

	Actual piping length (Equiv	valent)	100 m (120 m)
	Total piping length		250 m
		If indoor unit capacity index < 60.	2 m-15 m
Maximum allowable	Between BP unit and indoor unit	If indoor unit capacity index is 60.	2 m-12 m
piping length		If indoor unit capacity index is 71.	2 m-8 m
	2011100111110111101111100112	ranch and the farthest BP unit or ranch and the farthest VRV indoor unit	50 m*¹
	Between outdoor unit and	the first indoor branch	5 m
	Between the indoor units		15 m
	Between BP units		15 m
Maximum allowable	Between the outdoor unit	If the outdoor unit is above.	50 m
level difference	and the indoor unit	If the outdoor unit is below.	40 m
	Between the outdoor unit	and the BP unit	40 m
	Between the BP unit and t	he indoor unit	5 m

- ★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 80% to 130%. Refer to page 24 for outdoor unit combination details

High external static pressure

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

78.4 Pa

• More options in the opening/angle of louvre

• Outstanding heat dissipation effect in both hierarchical and intensive arrangement



 $^{-19}$

Reliable and Stable System

IRI H SERIES Heat Pump

More accurate test operation and stable system

Efficient automatic test operation

Daikin **VRV** H series incorporates a simplified and efficient test operation function, that not only greatly accelerates the installation process, but also effectively improves the field setting quality.

- Automatically checks the wiring between outdoor units and indoor units to confirm whether there is defective wiring.
- Confirms piping length to optimise operation.
- Automatically checks whether the stop valve in each outdoor unit is functioning normally to ensure the smooth operation of air conditioning system.



Simplified commissioning and after-sales service

Function of information display by luminous digital tube

VRV H 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.





Advanced control main PC board

SMT* packaging technology

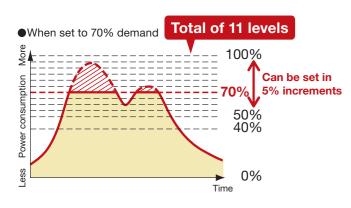
- SMT packaging technology adopted by the computer control panel improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.

Computer control board surface adopting SMT packaging material packaging technology Computer control board SMT: Surface mounted technology

I-demand function

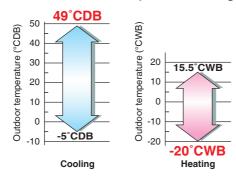
Limit to power consumption can be set precisely to one of 11 levels. Peak power cut-off can be accomplished according to each user situation.

*Set on the circuit board of the outdoor unit.



Wide operation temperature range

The versatile operation range of the **VRV** H series 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.



Automatic sequencing operation

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

Stage 1 Stage 3

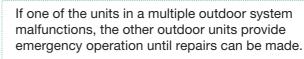


Double backup operation functions

Daikin **VRV** H series outdoor unit boasts double backup operation functions, which can secure the use of air conditioners in this area to the greatest extent in an emergency by 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



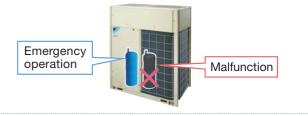
* For systems composed of two or more outdoor units.



Compressor backup operation function

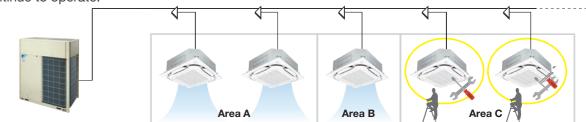
The outdoor unit is equipped with two compressors. Even if one compressor malfunctions, the other compressor provides emergency operation, reducing the risk of air conditioning shutdown due to compressor failure. (Capacity is saved during backup operation.)

* For single outdoor unit system RXYQ14-20AYM models. On-site settings are



Ease of maintenance

VRV H series provides a maintenance feature* which allows the shutdown of indoor unit 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 residential indoor unit connection For more information, please contact Daikin sales office.

IRI H SERIES Heat Pump

■ VRV H Series Outdoor Units Heat Pump

The outdoor unit capacity is up to 60 class (168 kW) in increment of 2 class.

- VRV H series outdoor unit offers a high capacity of up to 60 class, responding to the needs of large-sized building.
- The single outdoor unit has only 2 different shapes and dimensions, not only simplifying the design process, but also bringing the system flexibility to a new level.
- With the outdoor unit capacity increased in increment of 2 class, customers' needs can be precisely met.

Lineup

cla	ISS	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
VRV H SERIES	High-COP Type				•	•	•	•	•	•	•	•	•	•	•	•	•												
VAV II SERIES	Standard Type	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

High-COP Type

• Double Outdoor Units 12, 14, 16, 18, 20 class



RXYQ12AHYMA RXYQ14AHYMA RXYQ16AHYMA RXYQ16AHYMA

•Triple Outdoor Units

22, 24, 26, 28, 30, 32, 34, 36 class



RXYQ22AHYMA RXYQ24AHYMA RXYQ26AHYMA RXYQ28AHYMA

RXYQ30AHYMA RXYQ32AHYMA RXYQ34AHYMA RXYQ36AHYMA

Standard Type

•Single Outdoor Units 6, 8, 10, 12 class 14, 16, 18, 20 class



RXYQ6AYM RXYQ8AYM RXYQ10AYM RXYQ12AYM

RXYQ14AYM RXYQ16AYM RXYQ18AYM RXYQ20AYM

• Double Outdoor Units

22, 24 class



RXYQ22AYMA RXYQ24AYMA



26, 28, 30 class

RXYQ26AYMA RXYQ28AYMA RXYQ30AYMA



RXYQ32AYMA RXYQ34AYMA RXYQ36AYMA

•Triple Outdoor Units 38, 40 class

RXYQ40AYMA

RXYQ38AYMA

42, 44 class



RXYQ42AYMA RXYQ44AYMA

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



RXYQ46AYMA RXYQ54AYMA RXYQ48AYMA RXYQ56AYMA RXYQ50AYMA RXYQ58AYMA RXYQ52AYMA RXYQ60AYMA

Outdoor Unit Combinations

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	RXYQ12AH	RXYQ6A × 2		150 to 390 (480)	19 (24)
14	38.4	350	RXYQ14AH	RXYQ6A + RXYQ8A		175 to 455 (560)	22 (28)
16	44.8	400	RXYQ16AH	RXYQ8A × 2	BHFP22P100	200 to 520 (640)	26 (32)
18	50.4	450	RXYQ18AH	RXYQ8A + RXYQ10A]	225 to 585 (720)	29 (36)
20	55.9	500	RXYQ20AH	RXYQ8A + RXYQ12A]	250 to 650 (800)	32 (40)
22	60.8	550	RXYQ22AH	RXYQ6A + RXYQ8A × 2		275 to 715 (715)	35 (35)
24	67.2	600	RXYQ24AH	RXYQ8A × 3]	300 to 780 (780)	39 (39)
26	72.8	650	RXYQ26AH	RXYQ8A × 2 + RXYQ10A]	325 to 845 (845)	42 (42)
28	78.3	700	RXYQ28AH	RXYQ8A × 2 + RXYQ12A	BHFP22P151	350 to 910 (910)	45 (45)
30	83.9	750	RXYQ30AH	RXYQ8A + RXYQ10A + RXYQ12A	BHFP22P131	375 to 975 (975)	48 (48)
32	89.4	800	RXYQ32AH	RXYQ8A + RXYQ12A × 2	1	400 to 1,040 (1,040)	52 (52)
34	95.0	850	RXYQ34AH	RXYQ10A + RXYQ12A × 2	1	425 to 1,105 (1,105)	55 (55)
36	101	900	RXYQ36AH	RXYQ12A × 3		450 to 1,170 (1,170)	58 (58)

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
6	16.0	150	RXYQ6A	RXYQ6A	-	75 to 195 (300)	9 (15)
8	22.4	200	RXYQ8A	RXYQ8A	-	100 to 260 (400)	13 (20)
10	28.0	250	RXYQ10A	RXYQ10A	-	125 to 325 (500)	16 (25)
12	33.5	300	RXYQ12A	RXYQ12A	-	150 to 390 (600)	19 (30)
14	40.0	350	RXYQ14A	RXYQ14A	_	175 to 455 (700)	22 (35)
16	45.0	400	RXYQ16A	RXYQ16A	_	200 to 520 (800)	26 (40)
18	50.0	450	RXYQ18A	RXYQ18A	_	225 to 585 (900)	29 (45)
20	56.0	500	RXYQ20A	RXYQ20A	_	250 to 650 (1,000)	32 (50)
22	61.5	550	RXYQ22A	RXYQ10A + RXYQ12A		275 to 715 (880)	35 (44)
24	67.0	600	RXYQ24A	RXYQ12A × 2		300 to 780 (960)	39 (48)
26	73.5	650	RXYQ26A	RXYQ12A + RXYQ14A		325 to 845 (1,040)	42 (52)
28	78.5	700	RXYQ28A	RXYQ12A + RXYQ16A	BHFP22P100	350 to 910 (1,120)	45 (56)
30	83.5	750	RXYQ30A	RXYQ12A + RXYQ18A	BHFP22P100	375 to 975 (1,200)	48 (60)
32	90.0	800	RXYQ32A	RXYQ16A × 2		400 to 1,040 (1,280)	52 (64)
34	95.0	850	RXYQ34A	RXYQ16A + RXYQ18A		425 to 1,105 (1,360)	55 (64)
36	101	900	RXYQ36A	RXYQ16A + RXYQ20A		450 to 1,170 (1,440)	58 (64)
38	107	950	RXYQ38A	RXYQ12A × 2 + RXYQ14A		475 to 1,235 (1,235)	61 (61)
40	112	1,000	RXYQ40A	RXYQ12A × 2 + RXYQ16A		500 to 1,300 (1,300)	
42	118	1,050	RXYQ42A	RXYQ10A + RXYQ16A × 2		525 to 1,365 (1,365)	
44	124	1,100	RXYQ44A	RXYQ12A + RXYQ16A × 2		550 to 1,430 (1,430)	
46	130	1,150	RXYQ46A	RXYQ14A + RXYQ16A × 2		575 to 1,495 (1,495)	
48	135	1,200	RXYQ48A	RXYQ16A × 3	BHFP22P151	600 to 1,560 (1,560)	
50	140	1,250	RXYQ50A	RXYQ16A × 2 + RXYQ18A	DHFF22F131	625 to 1,625 (1,625)	64 (64)
52	145	1,300	RXYQ52A	RXYQ16A + RXYQ18A × 2		650 to 1,690 (1,690)	
54	150	1,350	RXYQ54A	RXYQ18A × 3		675 to 1,755 (1,755)	
56	156	1,400	RXYQ56A	RXYQ18A × 2 + RXYQ20A		700 to 1,820 (1,820)	
58	162	1,450	RXYQ58A	RXYQ18A + RXYQ20A × 2		725 to 1,885 (1,885)	
60	168	1,500	RXYQ60A	RXYQ20A × 3		750 to 1,950 (1,950)	

Note: *1. For multiple connection, the outdoor unit multi connection piping kit (separately sold) is required

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

			Capacity	Total capacity	index of connectable	e indoor units*2	Maximum number of
Model name*1	kW	class	index		Combination (%)		connectable indoor units
			IIIdex	80%	100%	130%	connectable indoor units
RXYQ6AYM	16.0	6	150	120	150	195	9
RXYQ8AYM	22.4	8	200	160	200	260	13
RXYQ10AYM	28.0	10	250	200	250	325	16
RXYQ12AYM	33.5	12	300	240	300	390	19
RXYQ14AYM	40.0	14	350	280	350	455	22
RXYQ16AYM	45.0	16	400	320	400	520	26
RXYQ18AYM	50.0	18	450	360	450	585	29
RXYQ20AYM	56.0	20	500	400	500	650	32

Note: *1. Only single outdoor unit (RXYQ6-20AYM) can be connected.

^{*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 19 for notes on connection capacity of indoor units.

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

URV H SERIES

■ Enhanced range of choices

A mixed combination of **VRV** indoor units and residential indoor units is enabled all in one

/RV indoor units										New	lineu	р				its su rt con		to
			20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	25
Туре	Model Name	Capacity Range(kW) Capacity Index	2.2	2.8 25	3.6 31.25	4.5 40	5.6 50	7.1 62.5	8 71	9 80	11.2 100	14 125	16 140	16.2 145	18 160	20 180	22.4 200	
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVM			•		•	•			•	•	•	•	1	1	1		
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			•										1	1	 		
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		•	•		•	•			1		 	 	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1		
4-Way Flow Ceiling Suspended	FXUQ-AVEB			1	1	 	 		•				1	 	 	 		
Ceiling Mounted Cassette (Double Flow)	FXCQ-AVM												1	 	 	 		
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36		•	•		•	•					1	1	1	1	1		
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-TV1B(A)		•	•	•	•	•									 		
Slim Ceiling Mounted Duct	FXDQ-PDVE	(700mm width type)		•									 		 	 		
(Standard Series)	FXDQ-NDVE	(900 / 1,100mm width type)		1	1 1 1 1 1 1										 	 		
Ceiling Concealed Duct	FXDYQ-MAV1				 	 	 			•	•	•		•				
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVE			•		•	•			•		•	•	 	 	 		
Ceiling Mounted	FXMQ-PAVE		•	•		•	•			•		•	•					
Duct	FXMQ-PV1A			! ! ! !	 	1 1 1 1 1 1	 					1 1 1 1 1 1		 	•	•	•	
Outdoor-Air Processing Unit	FXMQ-MFV1			1	 	1 1 1 1 1	1 1 1 1 1										•	
Ceiling Suspended	FXHQ-MAVE					 	 					1 1 1 1 1 1		 	 	 		
	FXHQ-AVM				 								•					
Wall Mounted	FXAQ-AVM												1					
Floor Standing	FXLQ-MAVE		•	•		•	•											
Concealed Floor Standing	FXNQ-MAVE	F	•	•		•	•									1		
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Ai	rflow	/ rate	e 500)-10	00 m	³/h									
Heat Reclaim Ventilator	VAM-GJVE	00	Ai	rflow	/ rate	e 150)-20	00 m	³/h									
Air Handling Unit	AHUR	1													6	–60 c	lass	

Note: For indoor units without 'VRT Smart', the standard 'VRT' control is available (excludes Heat Reclaim Ventilators & Outdoor-Air Processing Unit).

Residential indoor units with connection to BP units

		an oonmoodion to						
			20	25	35	50	60	71
Туре	Model Name	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	FDXS-CVMA	(900/1,100 mm width type)						
Wall	FTXS-KVMA		•					
Mounted	FTXS-KAVMA							

Note: BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ6-20AYM) can be connected.

VRV indoor unit type combinations

VRV indoor unit system





• If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control. • If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

Mixed residential and VRV indoor unit system



- BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ6-20AYM) can be connected.
 If a system has both residential indoor units and *VRV* indoor units, the system is operated under VRT control.

Residential indoor unit only system



- BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ6-20AYM) can be connected.
 If a system has only residential indoor units, the system is operated under VRT control.

Specifications

IRI H SERIES Heat Pump

■ VRV H Series Outdoor Units Heat Pump **RXYQ-A**

High-COP Type

Model			RXYQ12AHYMA	RXYQ14AHYMA	RXYQ16AHYMA	RXYQ18AHYMA	RXYQ20AHYMA	RXYQ22AHYMA
			RXYQ6AYM	RXYQ6AYM	RXYQ8AYM	RXYQ8AYM	RXYQ8AYM	RXYQ6AYM
Combination units			RXYQ6AYM	RXYQ8AYM	RXYQ8AYM	RXYQ10AYM	RXYQ12AYM	RXYQ8AYM
			-	_	-	-	_	RXYQ8AYM
Power supply			3-ph	ase 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 consoits		Btu/h	109,000	131,000	153,000	172,000	191,000	207,000
Cooling capacity	Ī	kW	32.0	38.4	44.8	50.4	55.9	60.8
Heating assessite.		Btu/h	123,000	147,000	171,000	193,000	213,000	232,000
Heating capacity	Ī	kW	36.0	43.0	50.0	56.5	62.5	68.0
Power	Cooling	kW	6.76	8.55	10.3	12.0	13.9	13.7
consumption	Heating	kW	7.46	9.40	11.3	12.9	14.6	15.1
Capacity control		%	12-100	11-100	10-100	·	7-100	
Casing colour				Ivory white (5Y7.5/1)			Ivory white (5Y7.5/1)	
Туре)			Hermetically sealed scroll type			Hermetically sealed scroll type	
Compressor Mot	or output	kW	(2.4×1)+(2.4×1)	(2.4×1)+(3.4×1)	(3.4×1)+(3.4×1)	(3.4×1)+(4.5×1)	(3.4×1)+(5.5×1)	(2.4×1)+(3.4×1)+(3.4×1)
Airflow rate		ℓ/s	1,983+1,983	1,983+2,967	2,967+2,967	2,967+2,967	2,967+3,183	1,983+2,967+2,967
Alfilow fale	Ī	m³/min	119+119	119+178	178+178	178+178	178+191	119+178+178
Dimensions (H×W×I	D)	mm		(1,657×930×765)+(1,657×930×765)		(1,657×930×765)+	-(1,657×930×765)	(1,657×930×765)+(1,657×930×765)+(1,657×930×765)
Machine weight		kg		185+185		185+	200	185+185+185
Sound level		dB(A)		59		60		61
Sound power		dB(A)		80		81		82
0	Cooling	°CDB		-5 to 49		'	-5 to 49	
Operation range	Heating	°CWB		-20 to 15.5			-20 to 15.5	
Defilerent	Туре			R-410A			R-410A	
Refrigerant	Charge	kg	6.9+6.9	6.9+7.0	7.0+7.0	7.0+7.4	7.0+7.6	6.9+7.0+7.0
Piping	Liquid	mm	<u>'</u>	φ12.7 (Brazing)	,	'	φ15.9 (Brazing)	
connections	Gas	mm		φ28.6 (Brazing)			φ28.6 (Brazing)	

				THE					
Model			RXYQ24AHYMA	RXYQ26AHYMA	RXYQ28AHYMA	RXYQ30AHYMA	RXYQ32AHYMA	RXYQ34AHYMA	RXYQ36AHYMA
			RXYQ8AYM	RXYQ8AYM	RXYQ8AYM	RXYQ8AYM	RXYQ8AYM	RXYQ10AYM	RXYQ12AYM
Combination u	nits		RXYQ8AYM	RXYQ8AYM	RXYQ8AYM	RXYQ10AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM
			RXYQ8AYM	RXYQ10AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM
Power supply			3-ph	ase 4-wire system, 380-415 V/380 V, 50/60	Hz		3-phase 4-wire system, 3	80-415 V/380 V, 50/60 Hz	
Cooling capacit		Btu/h	229,000	248,000	267,000	286,000	305,000	324,000	345,000
Cooling Capacit	у	kW	67.2	72.8	78.3	83.9	89.4	95.0	101
Hosting consoit		Btu/h	256,000	278,000	299,000	321,000	341,000	365,000	386,000
Heating capacit	У	kW	75.0	81.5	87.5	94.0	100	107	113
Power	Cooling	kW	15.5	17.2	19.0	20.7	22.6	24.2	26.1
consumption	Heating	kW	17.0	18.6	20.3	21.8	23.5	25.1	26.7
Capacity contro	ol	%	7-100	5-1	00	5-	100	4-1	00
Casing colour				Ivory white (5Y7.5/1)			Ivory white	e (5Y7.5/1)	
Compressor	Туре			Hermetically sealed scroll type			Hermetically se	aled scroll type	
Compressor	Motor output	kW	(3.4×1)+(3.4×1)+(3.4×1)	(3.4×1)+(3.4×1)+(4.5×1)	$(3.4\times1)+(3.4\times1)+(5.5\times1)$	(3.4×1)+(4.5×1)+(5.5×1)	(3.4×1)+(5.5×1)+(5.5×1)	(4.5×1)+(5.5×1)+(5.5×1)	(5.5×1)+(5.5×1)+(5.5×1)
Airflow rate		ℓ/s	2,967+2,96	7+2,967	2,967+2,967+3,183	2,967+2,967+3,183	2,967+3,1	83+3,183	3,183+3,183+3,183
Alliowiate		m³/min	178+178	3+178	178+178+191	178+178+191	178+1	91+191	191+191+191
Dimensions (H>	:W×D)	mm	(1,657	7×930×765)+(1,657×930×765)+(1,657×930×	765)		(1,657×930×765)+(1,657×9	30×765)+(1,657×930×765)	
Machine weight		kg	185+185+185	185+18	35+200	185+2	00+200	200+20	00+200
Sound level		dB(A)	61		62	62	6	3	64
Sound power		dB(A)	82		83	83	8	4	85
Operation range	Cooling	°CDB		-5 to 49			-5 to	9 49	
Operation range	Heating	°CWB		-20 to 15.5			-20 to	15.5	
Refrigerant	Type			R-410A			R-4	10A	
nemgerant	Charge	kg	7.0+7.0+7.0	7.0+7.0+7.4	7.0+7.0+7.6	7.0+7.4+7.6	7.0+7.6+7.6	7.4+7.6+7.6	7.6+7.6+7.6
Piping	Liquid	mm	φ15.9 (Brazing)	φ19.1 (E	Brazing)		φ19.1 (E	Brazing)	
connections	Gas	mm		φ34.9 (Brazing)			φ34.9 (Brazing)		φ41.3 (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 and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

Specifications

YRY H SERIES

■ VRV H Series Outdoor Units Heat Pump **RXYQ-A**

Standar	d Type																
Model			RXYQ6AYM	RXYQ8AYM	RXYQ10AYM	RXYQ12AYM	RXYQ14AYM	RXYQ16AYM		RXYQ18AYM	RXYQ20AYM	RXYQ22AYMA	RXYQ24AYMA	RXYQ26AYMA	RXYQ28AYMA	RXYQ30AYMA	RXYQ32AYMA
Combination	····ito		_	_	_	_	_	_		_	_	RXYQ10AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ16AYM
Combination	units		_	_	_	_	_	_		_	_	RXYQ12AYM	RXYQ12AYM	RXYQ14AYM	RXYQ16AYM	RXYQ18AYM	RXYQ16AYM
Power supply				3-	phase 4-wire system, 3	80-415 V/380 V, 50/6	60 Hz					3-p	hase 4-wire system, 3	80-415 V/380 V, 50/6	0 Hz		
Cooling conco	ity	Btu/h	54,600	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
Cooling capac	ity	kW	16.0	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
Heating capac	ity	Btu/h	61,400	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
Heating capac	ity	kW	18.0	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
Power	Cooling	g kW	3.38	5.17	6.84	8.70	10.7	12.9		15.3	17.7	15.5	17.4	19.4	21.6	24.0	25.8
consumption	Heating	g kW	3.73	5.67	7.23	8.91	11.0	12.6		14.9	17.1	16.1	17.8	19.9	21.5	23.8	25.2
Capacity contr	rol	%	25-100	20-100	13-100	12-100	11-100	10-100		10-100	7-100	6-	100		5	-100	
Casing colour					Ivory whit	e (5Y7.5/1)							Ivory white	e (5Y7.5/1)			
	Type				Hermetically se	ealed scroll type							Hermetically se	ealed scroll type			
Compressor	Motor output	kW	2.4×1	3.4×1	4.5×1	5.5×1	(2.9×1)+(3.3×1)	(3.6×1)+(3.7×1)		(4.1×1)+(4.0×1)	(3.7×1)+(6.3×1)	(4.5×1)+(5.5×1)	(5.5×1)+(5.5×1)	(5.5×1)+(2.9×1)+ (3.3×1)	(5.5×1)+(3.6×1)+ (3.7×1)	(5.5×1)+(4.1×1)+ (4.0×1)	(3.6×1)+(3.7×1)+ (3.6×1)+(3.7×1)
Airflow rate		l/s	1,983	2,	,967	3,183	4,	283		4,200	4,950	2,967+3,183	3,183+3,183	3,183	+4,283	3,183+4,200	4,283+4,283
Allilow rate		m³/min	119	1	178	191	2	57		252	297	178+191	191+191	191	+257	191+252	257+257
Dimensions (H	×W×D)	mm		1,657×	:930×765		1,657×1	,240×765		1,657×1,	,240×765	(1,657×930×765)	+(1,657×930×765)	(1,657)	×930×765)+(1,657×1,2	240×765)	(1,657×1,240×765)+ (1,657×1,240×765)
Machine weigh	nt	kg	1	85	2	00	2	85		305	325	200	+200	200	+285	200+305	285+285
Sound level		dB(A)	5	56	57	59	(60		61	65	61	62			63	
Sound power		dB(A)	7	77	78	80	3	31		82	86	82	83			84	
Operation range	Cooling	°CDB			-5 t	o 49							-5 t	o 49			
Operation rang	Heating	°CWB			-20 t	o 15.5							-20 to	o 15.5			
Refrigerant	Туре				R-4	10A							R-4	10A			
Remgerant	Charge	e kg	6.9	7.0	7.4	7.6	9.1	9.3		11	1.8	7.4+7.6	7.6+7.6	7.6+9.1	7.6+9.3	7.6+11.8	9.3+9.3
Piping	Liquid	mm		φ9.5 (Brazing)			φ12.7 (Brazing)				φ15.9	Brazing)			φ19.1	(Brazing)	
connections	Gas	mm	φ19.1 ((Brazing)	φ22.2 (Brazing)		φ28.6 (Brazing)				φ28.6 (Brazing)				φ 34.9 (Brazing)		
Model			RXYQ34AYMA	RXYQ36AYMA	RXYQ38AYMA	RXYQ40AYMA	RXYQ42AYMA	RXYQ44AYMA		RXYQ46AYMA	RXYQ48AYMA	RXYQ50AYMA	RXYQ52AYMA	RXYQ54AYMA	RXYQ56AYMA	RXYQ58AYMA	RXYQ60AYMA
			RXYQ16AYM	RXYQ16AYM	RXYQ12AYM	RXYQ12AYM	RXYQ10AYM	RXYQ12AYM		RXYQ14AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ18AYM	RXYQ18AYM	RXYQ18AYM	RXYQ20AYM
Combination	units		RXYQ18AYM	RXYQ20AYM	RXYQ12AYM	RXYQ12AYM	RXYQ16AYM	RXYQ16AYM		RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ18AYM	RXYQ18AYM	RXYQ18AYM	RXYQ20AYM	RXYQ20AYM
			_	_	RXYQ14AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM		RXYQ16AYM	RXYQ16AYM	RXYQ18AYM	RXYQ18AYM	RXYQ18AYM	RXYQ20AYM	RXYQ20AYM	RXYQ20AYM
Power supply					phase 4-wire system, 3								hase 4-wire system, 3		_		
Cooling capac	ity	Btu/h	324,000	345,000	365,000	382,000	403,000	423,000		444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000
3		kW	95.0	101	107	112	118	124		130	135	140	145	150	156	162	168
Heating capac	ity	Btu/h	362,000	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
g capac		kW	106	113	120	125	132	138		145	150	156	162	168	175	182	189
Power	Cooling	-	28.2	30.6	28.1	30.3	32.6	34.5		36.5	38.7	41.1	43.5	45.9	48.3	50.7	53.1
consumption		g kW	27.5	29.7	28.8	30.4	32.4	34.1		36.2	37.8	40.1	42.4	44.7	46.9	49.1	51.3
Capacity contr	rol	%	5-100		4-100		3-	100				3-	100			2-	-100
Casing colour	_					e (5Y7.5/1)								e (5Y7.5/1)			
	Туре				1	ealed scroll type					1	1		ealed scroll type		T	
Compressor	Motor output	kW	(3.6×1)+(3.7×1)+ (4.1×1)+(4.0×1)	(3.6×1)+(3.7×1)+ (3.7×1)+(6.3×1)	(5.5×1)+(5.5×1)+ (2.9×1)+(3.3×1)	(5.5×1)+(5.5×1)+ (3.6×1)+(3.7×1)	(3.6×1)+(3.7×1)	(5.5×1)+(3.6×1)+(3.7×1)+ (3.6×1)+(3.7×1)	()	(3.7×1)+(3.6×1)+(3.7×1)	(3.7×1)+(3.6×1)+(3.7×1)	(3.7×1)+(4.1×1)+(4.0×1)	(4.0×1)+(4.1×1)+(4.0×1)	(4.0×1)+(4.1×1)+(4.0×1)	(4.0×1)+(3.7×1)+(6.3×1)	(6.3×1)+(3.7×1)+(6.3×1)	+ (3.7×1)+(6.3×1)+(3.7×1)+ (6.3×1)+(3.7×1)+(6.3×1)
Airflow rate		l/s	4,283+4,200	4,283+4,950		183+4,283		3,183+4,283+4,283			283+4,283						4,950+4,950+4,950
, annow rate		m³/min	257+252	257+297	191+1	91+257	178+257+257	191+257+257		257+2	57+257	257+257+252	257+252+252	252+252+252	252+252+297	252+297+297	297+297+297
Dimensions (H	×W×D)	mm	(1,657×1,240×765)	+(1,657×1,240×765)	, ,	-(1,657×930×765)+ ,240×765)		(1,657×1,240×765)+ ,240×765)				(1,657>	×1,240×765)+(1,657×1	,240×765)+(1,657×1,2	40×765)		
		l.m	005.005	005.005	000 0	00.005	000 0	05.005		005 0	0.5.00.5	005.005.005	005.005.005	005.005.005	005.005.005	005.005.005	005.005.005

kg

dB(A)

dB(A)

mm

Cooling °CDB

Heating °CWB

Charge kg

Liquid mm

Machine weight

Sound level

Refrigerant

Piping

Sound power

Operation range

9.3+11.8

285+325

87

285+305

φ34.9 (Brazing)

200+200+285

-5 to 49

-20 to 15.5

R-410A

7.6+7.6+9.1 7.6+7.6+9.3

φ19.1 (Brazing)

200+285+285

7.6+9.3+9.3

85

7.4+9.3+9.3

9.3+9.3+11.8

65

86

9.3+9.3+9.3

285+285+285

9.1+9.3+9.3

9.3+11.8+11.8

-5 to 49

-20 to 15.5

R-410A

φ19.1 (Brazing)

305+305+325

11.8+11.8+11.8

305+325+325

325+325+325

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.

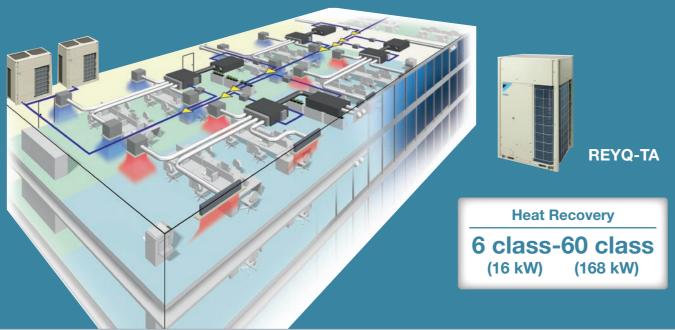
During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

VRV R SERIES Heat Recovery

VRV R SERIES

Maximum Comfort via Simultaneous Cooling and Heating



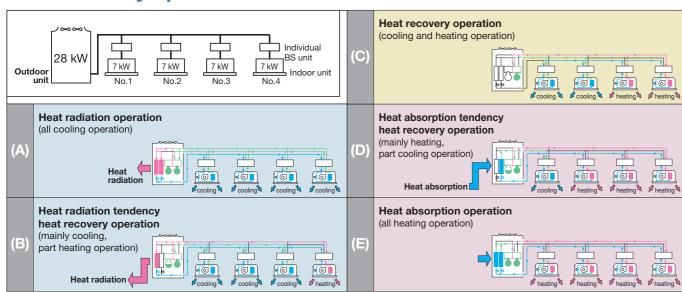
What is Heat Recovery Air Conditioner?

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.

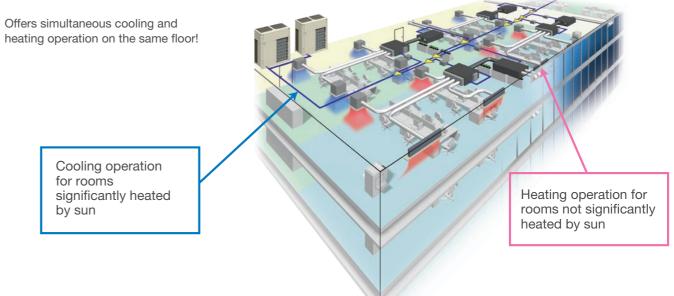
Operation mode

Heat recovery operation mode

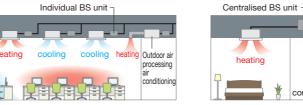
INV R SERIES



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

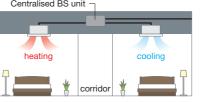


Increasing demand for simultaneous cooling and heating needs



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



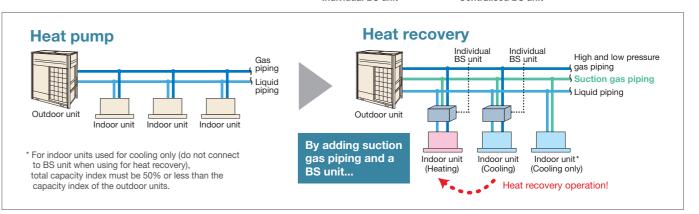
Individual office

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.





URV R SERIES

Advanced technologies for greater energy savings

By utilising advanced software technologies, VRV R Series is able to attain greater heights in energy savings and comfort.

VRT Smart Control (Fully Automatic Energy-saving Refrigerant Control)

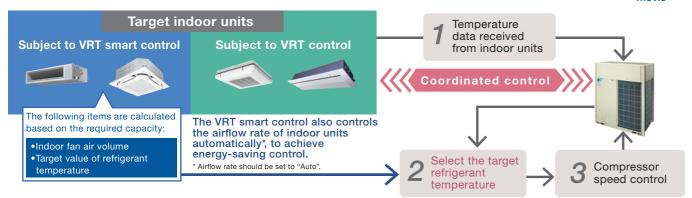
Software technology

Daikin's VRT Smart technology takes comfort and energy performance to the next level. Building on our variable refrigerant temperature technology which enables the evaporating temperature to adjust to meet the varying load, VRT Smart is now also able to automatically adjust the indoor unit airflow rate (Airside Control) to ensure optimal comfort and energy performance is delivered at all times.

Function

Overview of the control (system control flow)

Different automatic energy-saving refrigerant control applies depending on the indoor units connected.



 Changes in the room temperature during low-load operation* The smooth control Fully automatic energy-saving (which keeps the compressor Conventional air-conditioning method refrigerant control Changes in the room temperature: Large running) saves energy and Changes in the room temperature: Small The power consumption attributed to the ensures comfort during low-load operation. Turned off by

- •For the classification of indoor units (VRT smart control and VRT control), refer to pages 47–48.
- •If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
 •If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled only available during either all cooling operation or all heating operation

Optimum utilisation of VRT Smart Control and VRT Control

VRT Smart and VRT control is most effective when all the indoor units operate under low load conditions in a similar manner. Low load conditions is the time when room temperature approaches set temperature. For this reason, please note the following to maximise efficacy.

When selecting indoor units

Indoor units are installed in a system so that they operate largely under the same conditions.

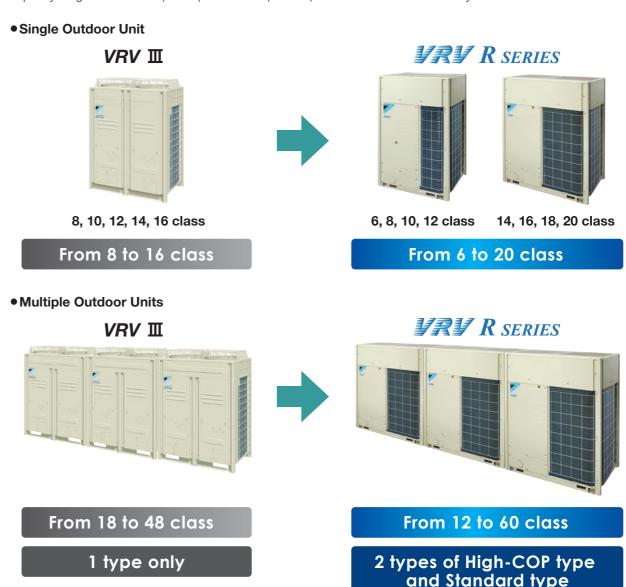
Energy efficiency decreases for the installation patterns indicated below. Example:

- 1) A load imbalance occurs because an indoor unit on the same system is installed near the perimeter of the room or in the vicinity of a room entrance.
- 2) Different operating hours for indoor units.
- 3) Energy efficiency decreases when the set temperature of a specified indoor unit is set to an extreme during cooling operation. E.g. 18°C

Enhanced lineup

Wider capacity range from 6 to 60 class

With its enhanced lineup of 2 types-High-COP and Standard types, VRV R series Heat Recovery outdoor units offer a wider capacity range from 6 class (16 kW) to 60 class (168 kW) to meet an ever wider variety of needs.



Lineup

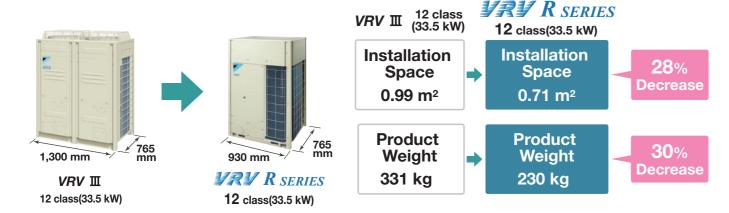
class	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
High-COP Type																												
Standard Type																												

IRI R SERIES Heat Recovery

Ease of installation

Compact & lightweight design

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



Comfort

Lower operation sound

Improve heat exchanger efficency, helps to reduced operation sound.

urra				Sour	nd level(dB(A))		
	6/8 class	10 class	12 class	14 class	16 class] ,	1 0 dB/
VRV Ⅲ	58	58	60	62	63		1-2 dB(
URU R SERIES	56	57	59	60	61		conven model

Large airflow, high static pressure and quiet technology

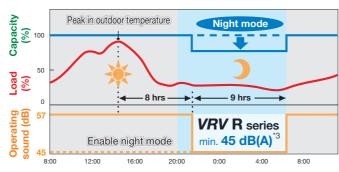
Without increasing operation sound, advanced analytical technologies are utilised to optimise fan design and increase airflow rate and high external static pressure.



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.



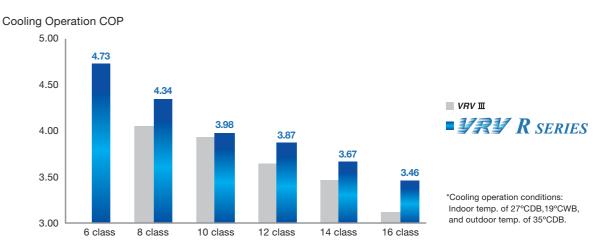
Note: · This function is available in setting at site.

- 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

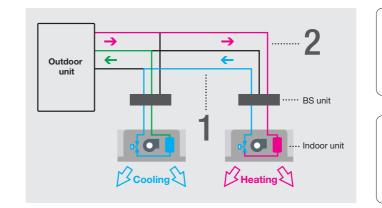
Higher Coefficient of Performance (COP)

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** R series delivers highly efficient performance, contributing to high energy savings.





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



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

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

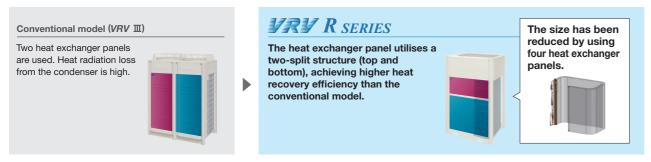
URV R SERIES

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

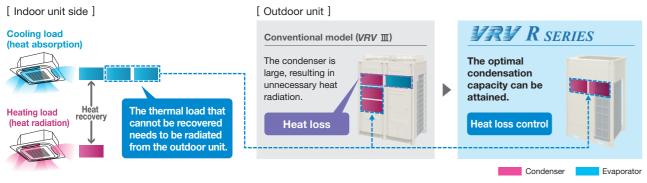
Development of a highly efficient heat exchanger utilising of a two-split structure

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

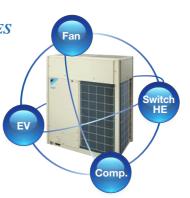
Heat loss is minimised by interlocking the heat exchanger switching, motor-operated valves, compressors, and fans, which are conventionally controlled independently during simultaneous cooling and heating operation, leading to a significant increase in efficiency.

VRV Ⅲ Refrigerant circuit is balanced based on the independent control of each elements ⇒ occurred heat loss



YRY R SERIES Interlocking operation with each elements in order to reduce

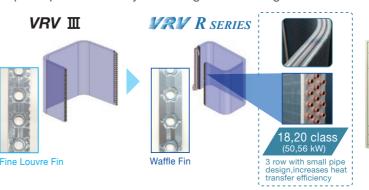
⇒Improvement of Heat recovery



Advanced technologies achieve excellent performance

Highly integrated heat exchanger

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



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

Fin pitch can be reduced fin pitch from 2.0 mm to 1.4 mm, to realise unit efficiency whichincreased heat exchanger area.

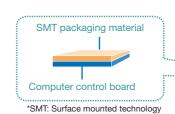
	Heat exchanger area	Contribution of COP (cooling)
16 class (45 kW)	24%UP	108.5%

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.

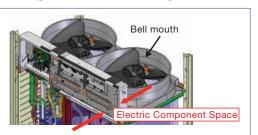


Computer control board surface adopting SMT packaging technology

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.





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.

VRV R SERIES

Individual BS unit

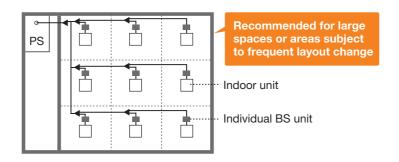
Enhanced Lineup of BS Units

Individual and centralised BS unit allow greater design flexibility.





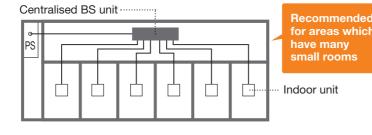
- Compact and flexible installation
- Flexible design
- Low noise



Centralised BS unit



BS4Q14AV1 BS6Q14AV1 BS8Q14AV1 BS10Q14AV1 BS12Q14AV1 BS16Q14AV1



■ Enhanced Line up

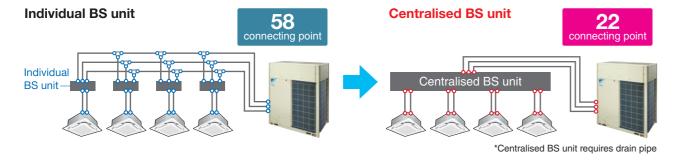
No. of branches	4	6	8	10	12	16
Conventional Centralised BS Unit						
Centralised BS Unit						

Compact and lightweight design Compared to conventional BS unit (6 branch)

reduced by 65%

BS unit weight reduced by 73%

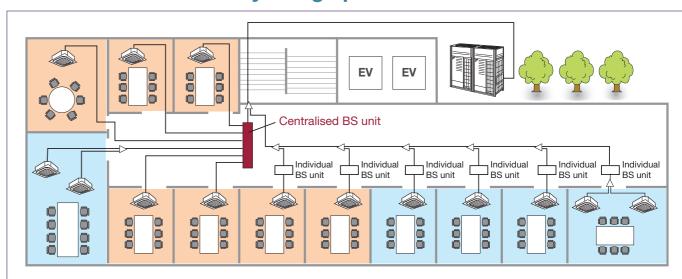
Installation and maintenance work have been made easier through the integration of multiple BS units.



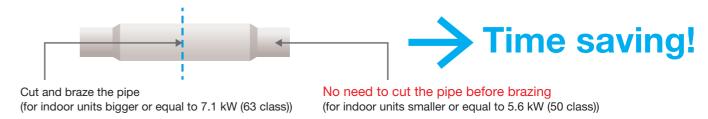
Greater design flexibility achieved by increasing the connection capacity range



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



Faster installation of centralised BS unit thanks to open connection



Lower transient sound

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

Maximum transient sou		Centralised BS unit										
Maximum transient sou	na	4 branch	6 branch	8 branch	10 branch	12 branch						
New BS units	Sound level (dB(A))*	45										
Conventional BS units	Sound level (dB(A))*	51.5	53.5		_	_						

ent sour	na	4 branch	6 branch	8 branch	10 branch	12 branch	16 branch	100 type	160 type	250 t
	Sound level (dB(A))*	45	47	47	48	48	49	40	45	45
units	Sound level (dB(A))*	51.5	53.5		_	_		45.5	46.5	47.

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

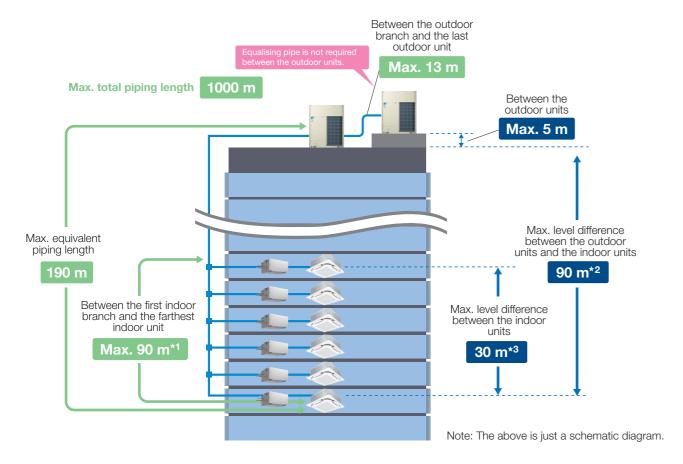
More Flexible System Design

VRV R SERIES Heat Recovery

■ More options for equipment placement

Long piping length

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



	Actual piping length (Equivalent)	165 m (190 m
	Total piping length	1000 m
Maximum allowable piping length	Between the first indoor branch and the farthest indoor unit	90 m*1
	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)
	Between the outdoor units (Multiple use)	5 m
Maximum allowable level difference	Between the indoor units	30 m*³
	Between the outdoor units and the indoor units	90 m*2

- ★1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. The VRV R series is easy to extend to 90 m by lessening the conditions from conventional VRV IV models. 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.
- ★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-PA, FXAQ models	Other VRV indoor unit models*1
Single outdoor units		200%
Double outdoor units	200%	160%
Triple outdoor units	20070	130%

^{*1} For the FXF(S)Q25 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 46 for outdoor unit combination details.

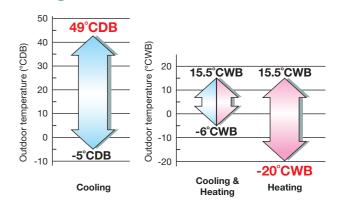
High external static pressure

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



Wide operation temperature range

The versatile operation range of the **VRV** R series 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.

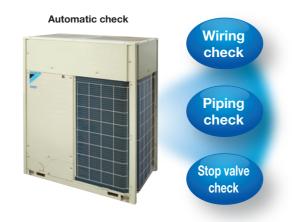


Multiple advanced features ensuring more accurate test operation and stable system

Efficient automatic test operation

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

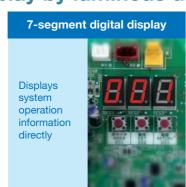
- Automatically checks the wirings between outdoor units and indoor units to confirm whether there is a defective wiring.
- Optimises operations to suit field piping lengths.
- Automatically check whether the stop valve in each outdoor unit is in normal status to ensure the smooth operation of air conditioning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

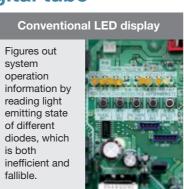


■ Simplified commissioning and after-sales service

Function of information display by luminous digital tube

VRV R 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.





■ 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* R series outdoor unit sequencing operation will be automatically enabled to ensure balanced operation of each outdoor unit to improve longevity of equipment and stable operation.

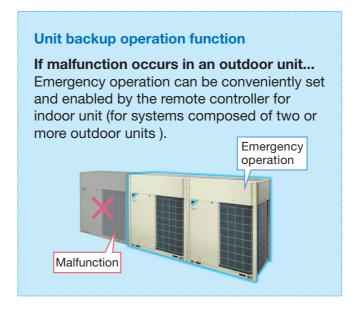


Double backup operation functions responding resiliently to various unexpected situations

Double backup operation functions

Daikin **VRV** R series 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.



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 REYQ14-20TAY1 models). Emergency operation Malfunction

Outdoor Unit Lineup

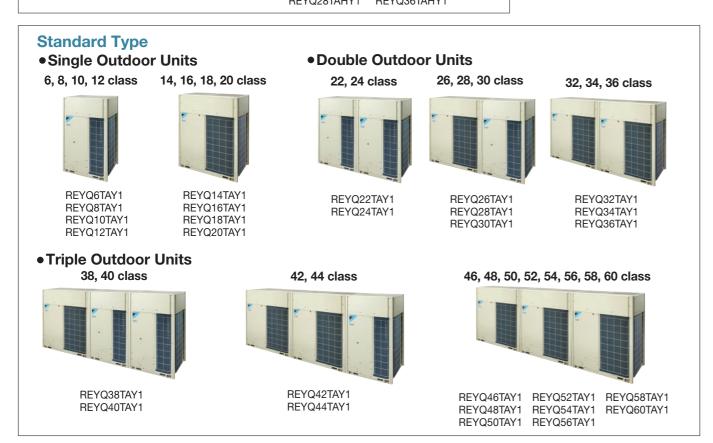
リ君リ R SERIES

■ VRV R Series Outdoor Units Heat Recovery

Wider capacity range from 6 to 60 class

- With its enhanced lineup of 2 types-High-COP and Standard types, VRV R series Heat Recovery outdoor units offer a wider capacity range from 6 class (16 kW) 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.

High-COP Type Triple Outdoor Units Double Outdoor Units 12, 14, 16, 18, 20 class 22, 24, 26, 28, 30, 32, 34, 36 class REYQ12TAHY1 REYQ18TAHY1 REYQ22TAHY1 RFYQ30TAHY1 REYQ14TAHY1 REYQ20TAHY1 REYQ24TAHY1 REYQ32TAHY1 REYQ16TAHY1 REYQ26TAHY1 REYQ34TAHY1 REYQ28TAHY1 REYQ36TAHY1



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
VRV R SERIES	High-COP Type				•	•	•	•	•	•	•	•	•	•	•	•	•												
	Standard Type	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Outdoor Unit Combinations

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	REYQ12TAH	REYQ6TA x 2		150 to 390 (480)	19 (24)
14	38.4	350	REYQ14TAH	REYQ6TA + REYQ8TA		175 to 455 (560)	22 (28)
16	44.8	400	REYQ16TAH	REYQ8TA x 2	BHFP26P90	200 to 520 (640)	26 (32)
18	50.4	450	REYQ18TAH	REYQ8TA + REYQ10TA		225 to 585 (720)	29 (36)
20	55.9	500	REYQ20TAH	REYQ8TA + REYQ12TA		250 to 650 (800)	32 (40)
22	60.8	550	REYQ22TAH	REYQ6TA + REYQ8TA x 2		275 to 715 (715)	35 (35)
24	67.2	600	REYQ24TAH	REYQ8TA x 3		300 to 780 (780)	39 (39)
26	72.8	650	REYQ26TAH	REYQ8TA x 2 + REYQ10TA		325 to 845 (845)	42 (42)
28	78.3	700	REYQ28TAH	REYQ8TA x 2 + REYQ12TA	BHFP26P136	350 to 910 (910)	45 (45)
30	83.9	750	REYQ30TAH	REYQ8TA + REYQ10TA + REYQ12TA	BHFF20F130	375 to 975 (975)	48 (48)
32	89.4	800	REYQ32TAH	REYQ8TA+ REYQ12TA x 2		400 to 1,040 (1,040)	52 (52)
34	95.0	850	REYQ34TAH	REYQ10TA+ REYQ12TA x 2		425 to 1,105 (1,105)	55 (55)
36	101	900	REYQ36TAH	REYQ12TA x 3		450 to 1,170 (1,170)	58 (58)

Note: *1. The outdoor unit multi connection piping kit (separately sold) is required for multiple connection.

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'
6	16.0	150	REYQ6TA	REYQ6TA	-	75 to 195 (300)	9 (15)
8	22.4	200	REYQ8TA	REYQ8TA	-	100 to 260 (400)	13 (20)
10	28.0	250	REYQ10TA	REYQ10TA	-	125 to 325 (500)	16 (25)
12	33.5	300	REYQ12TA	REYQ12TA	-	150 to 390 (600)	19 (30)
14	40.0	350	REYQ14TA	REYQ14TA	-	175 to 455 (700)	22 (35)
16	45.0	400	REYQ16TA	REYQ16TA	-	200 to 520 (800)	26 (40)
18	50.0	450	REYQ18TA	REYQ18TA	-	225 to 585 (900)	29 (45)
20	56.0	500	REYQ20TA	REYQ20TA	-	250 to 650 (1,000)	32 (50)
22	61.5	550	REYQ22TA	REYQ10TA + REYQ12TA		275 to 715 (880)	35 (44)
24	67.0	600	REYQ24TA	REYQ12TA × 2		300 to 780 (960)	39 (48)
26	73.5	650	REYQ26TA	REYQ12TA + REYQ14TA		325 to 845 (1,040)	42 (52)
28	78.5	700	REYQ28TA	REYQ12TA + REYQ16TA	BUEDOODOO	350 to 910 (1,120)	45 (56)
30	83.5	750	REYQ30TA	REYQ12TA + REYQ18TA	BHFP26P90	375 to 975 (1,200)	48 (60)
32	90.0	800	REYQ32TA	REYQ16TA × 2		400 to 1,040 (1,280)	52 (64)
34	95.0	850	REYQ34TA	REYQ16TA + REYQ18TA		425 to 1,105 (1,360)	55 (64)
36	101	900	REYQ36TA	REYQ16TA + REYQ20TA		450 to 1,170 (1,440)	58 (64)
38	107	950	REYQ38TA	REYQ12TA × 2 + REYQ14TA		475 to 1,235 (1,235)	61 (61)
40	112	1,000	REYQ40TA	REYQ12TA × 2 + REYQ16TA		500 to 1,300 (1,300)	
42	118	1,050	REYQ42TA	REYQ10TA + REYQ16TA × 2		525 to 1,365 (1,365)	
44	124	1,100	REYQ44TA	REYQ12TA + REYQ16TA × 2]	550 to 1,430 (1,430)	
46	130	1,150	REYQ46TA	REYQ14TA + REYQ16TA × 2		575 to 1,495 (1,495)	
48	135	1,200	REYQ48TA	REYQ16TA × 3	BHFP26P136	600 to 1,560 (1,560)	
50	140	1,250	REYQ50TA	REYQ16TA × 2 + REYQ18TA	BHFP20P130	625 to 1,625 (1,625)	64 (64)
52	145	1,300	REYQ52TA	REYQ16TA + REYQ18TA × 2		650 to 1,690 (1,690)	
54	150	1,350	REYQ54TA	REYQ18TA × 3	7	675 to 1,755 (1,755)	1
56	156	1,400	REYQ56TA	REYQ18TA × 2 + REYQ20TA	7	700 to 1,820 (1,820)	1
58	162	1,450	REYQ58TA	REYQ18TA + REYQ20TA × 2	7	725 to 1,885 (1,885)	1
60	168	1,500	REYQ60TA	REYQ20TA × 3	7	750 to 1,950 (1,950)	1

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 42 for note on connection capacity of indoor units.

^{*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 42 for note on connection capacity of indoor units.

IFI R SERIES Heat Recovery

■ Enhanced range of choices

	ed ran	ige oi	C		O	IC	e:	5											
										Ne	w li	ineu	р			oor u		ubjec ntrol	t to
Туре	Model Name	Capacity Range(kW) Capacity Index	20 2.2 20	25 2.8 25	32 3.6 31.25	40 4.5 40	50 5.6 50	63 7.1 62.5	71 8 71	8	1	100 11.2 100	125 14 125	140 16 140	145 16.2 145	18	20	200 22.4 200	28
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVM	8		•	•	•	•	•	1			•	•	•		1	1		1
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			•	•	•		•				•	•						
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		•	•		•		1	1			1				1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1
4-Way Flow Ceiling Suspended	FXUQ-AVEB				 	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1				•				1			
Ceiling Mounted Cassette (Double Flow)	FXCQ-AVM											1				1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36		•					•											
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-TV1B(A)		•	•				•	1			1				1	1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Slim Ceiling Mounted Duct	FXDQ-PDVE	(700mm width type)	•			 	 	 				1				1	1		
(Standard Series)	FXDQ-NDVE	(900 / 1,100mm width type)		1	 			•				1							
Ceiling Concealed Duct	FXDYQ-MAV1				! ! ! !	! ! ! !						•	•		•				
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVE		•					•	1					•		1	1		1
Ceiling Mounted	FXMQ-PAVE		•	•		•		•									1		
Duct	FXMQ-PV1A				1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	 				1				•	•		
Outdoor-Air Processing Unit	FXMQ-MFV1				! ! ! !	 	 	 				1							
Ceiling Suspended	FXHQ-MAVE			 	•	 	 	•								1	1		
	New FXHQ-AVM				 	 	 	 	1			1							
Wall Mounted	FXAQ-AVM								1	1		1							
Floor Standing	FXLQ-MAVE		•	•				•				1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Concealed Floor Standing	FXNQ-MAVE	P							1	1		1				1	1		1
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Ai	irflow	rate	e 500	0-100	00 m	n³/h										

Airflow rate 150-2000 m³/h

Note: For indoor units without 'VRT Smart', the standard 'VRT' control is available (excludes Heat Reclaim Ventilators & Outdoor-Air Processing Unit).

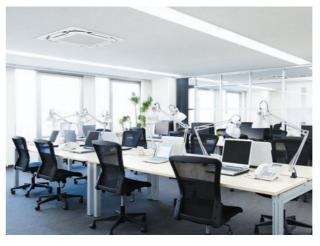
VAM-GJVE

Heat Reclaim Ventilator



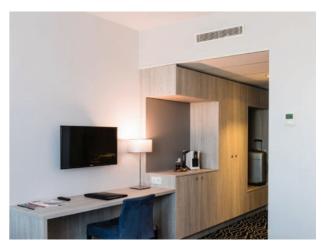


- If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
 If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart
- If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VF control and VRT control are disabled.













Specifications



■ VRV R Series Outdoor Units Heat Recovery **REYQ-TA**

High-COP Type

Model			REYQ12TAHY1	REYQ14TAHY1	REYQ16TAHY1	REYQ18TAHY1	REYQ20TAHY1		REYQ22TAHY1	REYQ24TAHY1	REYQ26TAHY1	REYQ28TAHY1	REYQ30TAHY1				
			REYQ6TAY1	REYQ6TAY1	REYQ8TAY1	REYQ8TAY1	REYQ8TAY1		REYQ6TAY1	REYQ8TAY1	REYQ8TAY1	REYQ8TAY1	REYQ8TAY1				
Combination	units		REYQ6TAY1	REYQ8TAY1	REYQ8TAY1	REYQ10TAY1	REYQ12TAY1		REYQ8TAY1	REYQ8TAY1	REYQ8TAY1	REYQ8TAY1	REYQ10TAY1				
			-	_	_	-	_		REYQ8TAY1	REYQ8TAY1	REYQ10TAY1	1 REYQ12TAY1 REYQ12TAY1					
Power supply	,			3-pha	se 4-wire system, 380-415 V,	50 Hz				Hz							
Cooling cons	oitu	Btu/h	109,000	131,000	153,000	172,000	191,000		207,000 229,000 248,000 267,000								
Cooling capac	City	kW	32.0	38.4	44.8	50.4	55.9		60.8	78.3	83.9						
Heating cons	oitu	Btu/h	123,000	147,000	171,000	193,000	213,000		232,000	256,000	278,000	299,000	321,000				
Heating capac	City	kW	36.0	43.0	50.0	56.5	62.5		68.0	75.0	81.5	87.5	94.0				
Power	Cooling	kW	6.76	8.54	10.3	12.2	13.8		13.7	15.5	17.4	19.0	20.9				
consumption	Heating	kW	7.46	9.41	11.4	13.0	14.9		15.1 17.0 18.7 20.6								
Capacity cont	trol	%		10-100		8-	100		7-100 6-100 5								
Casing colour	r				Ivory white (5Y7.5/1)				Ivory white (5Y7.5/1)								
Compressor	Type			ı	Hermetically sealed scroll type	е					Hermetically sealed scroll type						
Compressor	Motor output	kW	(2.3×1)+(2.3×1)	(2.3×1)+(3.3×1)	(3.3×1)+(3.3×1)	(3.3×1)+(4.0×1)	(3.3×1)+(4.9×1)		(2.3×1)+(3.3×1)+(3.3×1)	(3.3×1)+(3.3×1)+(3.3×1)	(3.3×1)+(3.3×1)+(4.0×1)	(3.3×1)+(3.3×1)+(4.9×1)	(3.3×1)+(4.0×1)+(4.9×1)				
Airflow rate		ℓ/s	1,983+1,983	1,983+2,633	2,633+2,633	2,633+2,800	2,633+3,000		1,983+2,633+2,633	2,633+2,633+2,633	2,633+2,633+2,800	2,633+2,633+3,000	2,633+2,800+3,000				
Alfilow fale		m³/min	119+119	119+158	158+158	158+168	158+180		119+158+158	158+158+158	158+158+168	158+158+180	158+168+180				
Dimensions (H	H×W×D)	mm		(1,	657×930×765)+(1,657×930×7	(65)				(1,657×	930×765)+(1,657×930×765)+(1,657×9	30×765)					
Machine weig	ght	kg		215+215		215	5+230		215+2	215+215	215+2	15+230	215+230+230				
Sound level		dB(A)		59		60	61			61			62				
Sound power	•	dB(A)		80		81	82			82			83				
0(Cooling	°CDB			-5 to 49						-5 to 49						
Operation range	Heating	°CWB			-20 to 15.5				-20 to 15.5								
(Cooling & Heating	°CWB			-6 to 15.5				-6 to 15.5								
Definered 1	Туре				R-410A						R-410A						
Refrigerant	Charge	kg		9.7+9.7		9.7+9.8	9.7+9.9		9.7+	9.7+9.7	9.7+9.7+9.8	9.7+9.7+9.9	9.7+9.8+9.9				
Dining	Liquid	mm		φ12.7 (Brazing)		φ15.9 ((Brazing)		φ15.9	(Brazing)		φ19.1 (Brazing)					
Piping connections	Gas	mm			φ28.6 (Brazing)				φ28.6 (Brazing)		φ34.9 (Brazing)	<u> </u>				
	High and low pressure ga	s mm	φ19.1 (Brazing)		φ22.2 (Brazing)		φ28.6 (Brazing)	ψ28.6 (Brazing)					·				

Model			REYQ32TAHY1	REYQ34TAHY1	REYQ36TAHY1
			REYQ8TAY1	REYQ10TAY1	REYQ12TAY1
Combinatio	n units		REYQ12TAY1	REYQ12TAY1	REYQ12TAY1
			REYQ12TAY1	REYQ12TAY1	REYQ12TAY1
Power supp	ly		3-pha	se 4-wire system, 380-415 V,	50 Hz
Cooling cap	:t	Btu/h	305,000	324,000	345,000
Cooling cap	acity	kW	89.4	95.0	101
Heating cap	it.	Btu/h	341,000	365,000	386,000
Heating cap	acity	kW	100	107	113
Power	Cooling	kW	22.5	24.4	26.0
consumption	1 Heating	kW	24.1	25.7	27.7
Capacity con	ntrol	%		5-100	
Casing color	ur			Ivory white (5Y7.5/1)	
Compressor	Туре		ŀ	Hermetically sealed scroll type	е
Compressor	Motor output	kW	(3.3x1)+(4.9x1)+(4.9x1)	(4.9x1)+(4.9x1)+(4.9x1)	
Airflow rate		ℓ/s	2,633+3,000+3,000	2,800+3,000+3,000	3,000+3,000+3,000
Airilow rate		m³/min	158+180+180	168+180+180	180+180+180
Dimensions	(H×W×D)	mm	(1,657×930×	765)+(1,657×930×765)+(1,65	7×930×765)
Machine we	ight	kg	215+230+230	230+23	30+230
Sound level		dB(A)	6	3	64
Sound power	er	dB(A)	8	4	85
	Cooling	°CDB		-5 to 49	
Operation range	Heating	°CWB		-20 to 15.5	
range	Cooling & Heating	°CWB		-6 to 15.5	
	Type			R-410A	
Refrigerant	Charge	kg	9.7+9.9+9.9	9.9+9.9+9.9	
D: :	Liquid	mm			
Piping connections	Gas	mm	ф34.9 (Е	Brazing)	φ41.3 (Brazing)
CONNECTIONS	High and low pressure gas	mm		φ28.6 (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 and oil recovery mode.

 When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

Specifications

JRJ R SERIES Heat Recovery

■ VRV R Series Outdoor Units Heat Recovery **REYQ-TA**

Standa	rd Type																	
Model			REYQ6TAY1	REYQ8TAY1	REYQ10TAY1	REYQ12TAY1	REYQ14TAY1	REYQ16TAY1	REYQ18TAY1	REYQ20TAY1	REYQ22TAY1	REYQ24TAY1	REYQ26TAY1	REYQ28TAY1	REYQ30TAY1	REYQ32TAY1		
Combination	unite		_	-	_	_	_	_	_	_	REYQ10TAY1	REYQ12TAY1	REYQ12TAY1	REYQ12TAY1	REYQ12TAY1	REYQ16TAY1		
			_	_	_	_	_				REYQ12TAY1	REYQ12TAY1	REYQ14TAY1	REYQ16TAY1	REYQ18TAY1	REYQ16TAY1		
Power supply	'	D. #	54,000	70.400		tem, 380-415 V, 50 Hz	100,000		171.000	101.000	040.000	 	stem, 380-415 V, 50 Hz	000.000	005.000	207.000		
Cooling capa	city	Btu/h	54,600	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		
		kW Btu/h	16.0 61,400	22.4 85,300	28.0 107,000	33.5 128,000	40.0 154,000	45.0	50.0 191,000	56.0 215,000	61.5	67.0 256,000	73.5 281,000	78.5 299,000	83.5 319,000	90.0 341,000		
Heating capa	city	kW	18.0	85,300 25.0	31.5	37.5	45.0	171,000 50.0	191,000	63.0	235,000	75.0	82.5	299,000 87.5	93.5	100		
Power	1		3.38	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		
consumption	Heating	kW	3.73	5.68	7.29	9.22	10.8	12.7	15.0	17.5	16.5	18.4	20.0	21.9	24.1	25.4		
Capacity con					13.0		3-100	10.4		-100	5-1							
Casing colour		,,,		100		te (5Y7.5/1)	11.100	10 100		Ivory white (5Y7.5/1)								
	Туре					sealed scroll type							sealed scroll type			-		
Compressor	Motor output	kW	2.3x1	3.3x1	4.0x1	4.9x1	(3.0×1)+(3.1×1)	(3.4×1)+(3.7×1)	(3.6×1)+(5.0×1)	(4.0×1)+(6.1×1)	(4.0×1)+(4.9×1)	(4.9×1)+(4.9×1)	(4.9×1)+(3.0×1)+(3.1×1)	(4.9×1)+(3.4×1)+(3.7×1)	(4.9×1)+(3.6×1)+(5.0×1)	(3.4×1)+(3.7×1)+ (3.4×1)+(3.7×1)		
A ! £1	·	ℓ/s	1,983	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		
Airflow rate		m³/min	119	158	168	180	234	239	226	269	168+180	180+180	180+234	180+239	180+226	239+239		
Dimensions (I	H×W×D)	mm		1,657×	×930×765		1,657×1	1,240×765	1,65	1,657×1,240×765 (1,657×930×765)+(1,657×930×765)	(1,65	7×930×765)+(1,657×1,2	40×765)	(1,657×1,240×765)+ (1,657×1,240×765)		
Machine weig	jht	kg	2	215	2	230	3	10		342)+230	23	0+310	230+342	310+310		
Sound level		dB(A)		56	57	59	60	61	62	65	61	62		63	6			
Sound power		dB(A)		77	78	80	81	82	83	86	82	83		84	8	5		
	Cooling	°CDB				to 49							5 to 49					
range	Heating	°CWB				to 15.5							to 15.5					
	Cooling & Heating	°CWB				o 15.5 410A							to 15.5 -410A					
Retrigerant -	Type	ka		9.7	9.8	9.9	1	1.8		11.8	9.8+9.9	9.9+9.9	-410A	9.9+11.8		11.8+11.8		
	Charge Liquid	kg mm		φ9.5 (Brazing)	3.0	3.3	φ12.7 (Brazing)	1.0			9 (Brazing)	3.3+3.3			(Brazing)	11.0+11.0		
Piping	Gas	mm	ф19.1.	(Brazing)	φ22.2 (Brazing)		φ28.6 (Brazing)			φ28.6 (Brazing)	(Diazing)			φ 34.9 (Brazing)	(DI azirig)			
connections	High and low pressure ga			(Brazing)		(Brazing)		(Brazing)	φ22.2 (Brazing)				φ28.6 (Brazing)	φ σ πσ (Επαεπής)				
Model			REYQ34TAY1	REYQ36TAY1	REYQ38TAY1	REYQ40TAY1	REYQ42TAY1	REYQ44TAY1	REYQ46TAY1	REYQ48TAY1	REYQ50TAY1	REYQ52TAY1	REYQ54TAY1	REYQ56TAY1	REYQ58TAY1	REYQ60TAY1		
			REYQ16TAY1	REYQ16TAY1	REYQ12TAY1	REYQ12TAY1	REYQ10TAY1	REYQ12TAY1	REYQ14TAY1		REYQ16TAY1	REYQ16TAY1	REYQ18TAY1	REYQ18TAY1	REYQ18TAY1	REYQ20TAY1		
Combination	units		REYQ18TAY1	REYQ20TAY1	REYQ12TAY1	REYQ12TAY1	REYQ16TAY1	REYQ16TAY1	REYQ16TAY1		REYQ16TAY1	REYQ18TAY1	REYQ18TAY1	REYQ18TAY1	REYQ20TAY1	REYQ20TAY1		
			_	_	REYQ14TAY1	REYQ16TAY1	REYQ16TAY1	REYQ16TAY1	REYQ16TAY1		REYQ18TAY1	REYQ18TAY1	REYQ18TAY1	REYQ20TAY1	REYQ20TAY1	REYQ20TAY1		
Power supply	,					tem 380-415 V 50 Hz	•			-		3-phase 1-wire sys	stem 380-415 V 50 Hz		•			

				REYO34TAY1 REYO36TAY1																
Model			REYQ34TAY1	REYQ36TAY1	REYQ38TAY1	REYQ40TAY1	REYQ42TAY1	REYQ44TAY1		REYQ46TAY1	REYQ48TAY1	REYQ50TAY1	REYQ52TAY1	REYQ54TAY1	REYQ56TAY1	REYQ58TAY1	REYQ60TAY1			
			REYQ16TAY1	REYQ16TAY1	REYQ12TAY1	REYQ12TAY1	REYQ10TAY1	REYQ12TAY1		REYQ14TAY1	REYQ16TAY1	REYQ16TAY1	REYQ16TAY1	REYQ18TAY1	REYQ18TAY1	REYQ18TAY1	REYQ20TAY1			
Combination	on units		REYQ18TAY1	REYQ20TAY1	REYQ12TAY1	REYQ12TAY1	REYQ16TAY1	REYQ16TAY1		REYQ16TAY1	REYQ16TAY1	REYQ16TAY1	REYQ18TAY1	REYQ18TAY1	REYQ18TAY1	REYQ20TAY1	REYQ20TAY1			
			_	_	REYQ14TAY1	REYQ16TAY1	REYQ16TAY1	REYQ16TAY1		REYQ16TAY1 REYQ16TAY1 REYQ18TAY1 REYQ18TAY1 REYQ20TAY1 REYQ20TAY1 REYQ20TAY1 REYQ20TAY1										
Power supp	oly				3-phase 4-wire syste	m, 380-415 V, 50 Hz							3-phase 4-wire syst	tem, 380-415 V, 50 Hz						
Cooling car	acity	Btu/h	324,000	345,000	365,000	382,000	403,000	423,000		444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000			
Cooling cap	acity	kW	95.0	101	107	112	118	124		130	135	140	145	150	156	162	168			
Heating car	ooity.	Btu/h	362,000	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			
neating cap	Jacity	kW	106	113	120	125	132	138		145	150	156	162	168	175	182	189			
Power	Cooling	kW	28.4	31.0	28.2	30.3	33.0	34.7		36.9	39.0	41.4	43.8	46.2	48.8	51.4	54.0			
consumption	n Heating	kW	27.7	30.2	29.2	31.1	32.7	34.6		36.2	38.1	40.4	42.7	45.0	47.5	50.0	52.5			
Capacity co	ontrol	%			4-1	00							3-	-100						
Casing cold	ur				Ivory white	(5Y7.5/1)							Ivory whit	te (5Y7.5/1)						
	Туре				Hermetically se	aled scroll type							Hermetically s	ealed scroll type						
Compresso	r Motor output	kW	(3.4×1)+(3.7×1)+ (3.6×1)+(5.0×1)	(3.4×1)+(3.7×1)+ (4.0×1)+(6.1×1)	(4.9×1)+(4.9×1)+ (3.0×1)+(3.1×1)	(4.9×1)+(4.9×1)+ (3.4×1)+(3.7×1)	(4.0×1)+(3.4×1)+ (3.7×1)+(3.4×1)+(3.7×1)	(4.9×1)+(3.4×1)+ (3.7×1)+(3.4×1)+(3.7×1)						(3.6×1)+(5.0×1)+(3.6×1)+ (5.0×1)+(3.6×1)+(5.0×1)						
Airflow rate	<u>'</u>	ℓ/s	3,983+3,767	3,983+4,483	3,000+3,000+3,900	3,000+3,000+3,983	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			
Airilow rate		m³/min	239+226	239+269	180+180+234	180+180+239	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	(H×W×D)	mm	(1,657×1,240×765)	+(1,657×1,240×765)	(1,657×930×765)+ +(1,657×1			+(1,657×1,240×765) 1,240×765)				(1,65	7×1,240×765)+(1,657×1	1,240×765)+(1,657×1,240)×765)					
Machine we	eight	kg	310	+342	230+23	0+310	230+3	10+310		310+3	10+310	310+310+342	310+342+342		342+3	42+342				
Sound leve		dB(A)	65	66	64		65			65		66		67	68	69	70			
Sound pow	er	dB(A)	86	87	85		86			86		87		88	89	90	91			
	Cooling	°CDB			-5 to	49							-51	to 49						
Operation	Heating	°CWB			-20 to	15.5							-20 t	to 15.5						
rungo	Cooling & Heating	°CWB			-6 to	15.5					-6 to 15.5									
5 ()	Туре				R-4	10A							R-4	410A						
Refrigerant	Charge	kg	11.8	+11.8	9.9+9.9	+11.8	9.8+11.8+11.8	9.9+11.8+11.8					11.8+1	1.8+11.8						
	Liquid	mm			φ19.1 (E	razing)							φ19.1 ((Brazing)						
Piping	Gas	mm	φ34.9 (Brazing)			φ41.3 (Brazing)				φ41.3 (Brazing)										
COLLIGERIOUS	High and low pressure gas		φ28.6 (Brazing) φ34.9 (E				Brazing)			φ34.9 (Brazing)										

- Note: Specifications are based on the following conditions;

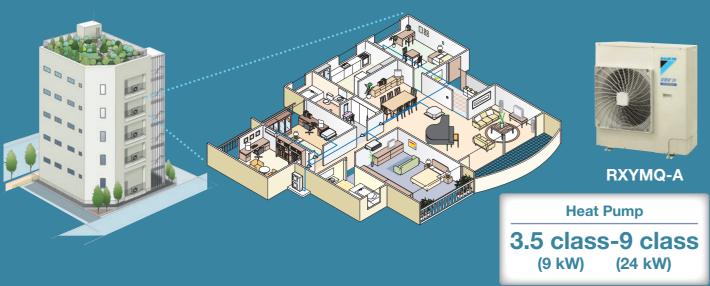
 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

Heating: Indoor temp.: 20°CDB, Outdoor temp.: 3°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 and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

URVINITION IN SERIES

The Ideal Air Conditioning



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.





System for Residential, Small Offices and Shops IN Series



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

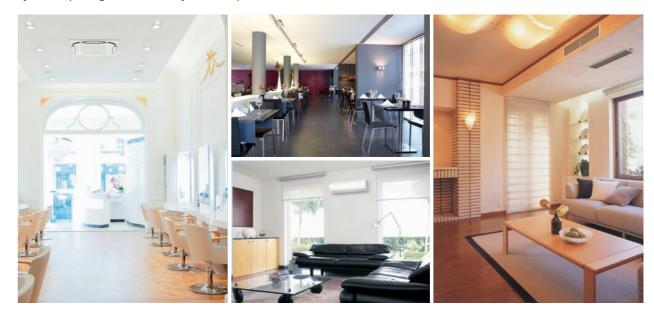


Lineup

Model Name	RXYMQ3AV4A	RXYMQ4AV4A	RXYMQ5AV4A	RXYMQ6AV4A	RXYMQ8AY1	RXYMQ9AY1	
Power Supply		1-phase, 230	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.



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.

VRV II S IN S SERIES

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

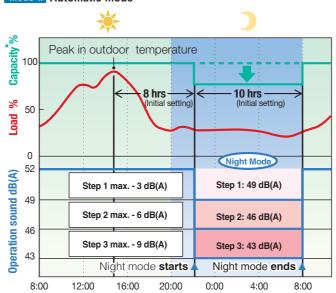
Starting time and ending time can be input. (An external control adaptor for outdoor unit, DTA104A53/61/62, and a locally obtained timer are necessary.)

Mode 3. Combined mode

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

- *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.

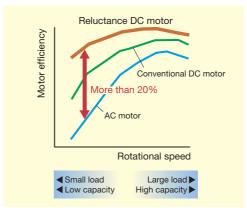
- The relationship of outdoor temperature (load) and time shown in the graph is just an example
- *The capacity reduction rate differs depending on the operation sound level step selected.

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.





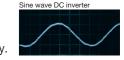


Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory using Daikin products

- *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.



>> 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.

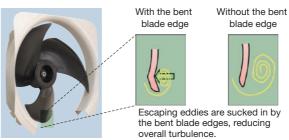


3.5. 4. 5 class

>> The structural scroll Sucked gas is compressed in the scrolling part before the heated motor, so that Discharge 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





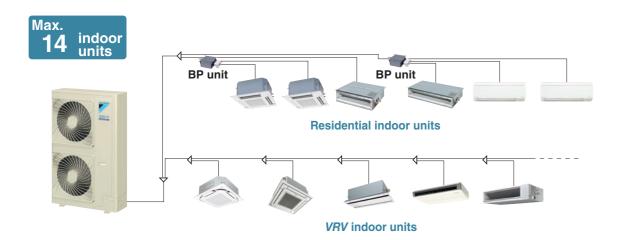
Design Flexibility and Simplified Installation



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 61 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.

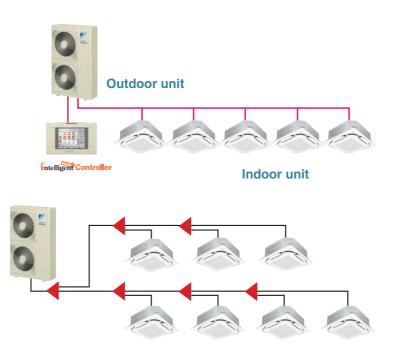
>> Super wiring system

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

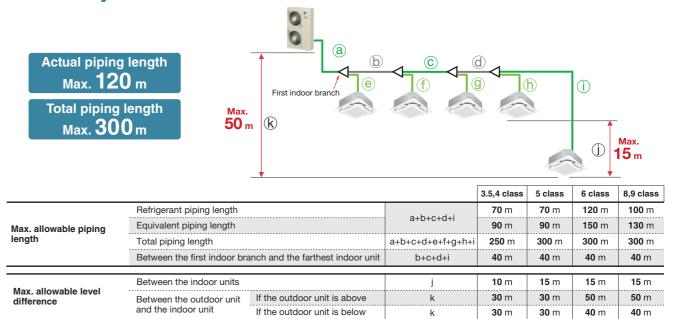
Daikin's advanced REFNET piping system makes installation easy. Only two main refrigerant lines are required in any one system. REFNET greatly reduces the imbalances in refrigerant flow between units, while using small-diameter piping.



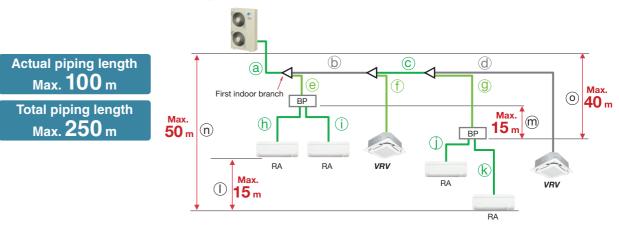
Long piping design possible

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

When only VRV indoor units are connected



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



				3.5,4 class	5 class	6-9 class
	Refrigerant piping length		a character a charact	70 m	70 m	100 m
Max. allowable piping length Max. & min. allowable piping length Min. allowable piping length Max. allowable level difference	Equivalent piping length		a+b+c+g+k, a+b+c+d	90 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 - th	ne farthest BP or VRV indoor unit	b+c+g, b+c+d	40 m	40 m	40 m
May & min		If indoor unit capacity index < 60		2 m-15 m	2 m-15 m	2 m-15 m
allowable piping	BP unit - indoor unit	If indoor unit capacity index is 60	h, i, j, k	2 m-12 m	2 m-12 m	2 m-12 m
length			2 m-8 m	2 m-8 m	2 m-8 m	
Min. allowable piping length	Outdoor unit - the first inde	oor branch	а	5 m	5 m	5 m
	Between the indoor units		I	10 m	15 m	15 m
	Between BP units		m	10 m	15 m	15 m
	Outdoor unit - the indoor	If the outdoor unit is above	n	30 m	30 m	50 m
uniciciice	unit	If the outdoor unit is below	n	30 m	30 m	40 m
	Outdoor unit - the BP unit		0	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 guiet indoor units.

															Ne	w line	eup
		20	25	32	40	50	63	71	80	100	125	-					
Model Name																	
	Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
FXFSQ-AVM										•			 				
FXFQ-PVE												1 1 1 1 1 1	 				
FXZQ-A2VEB		•	•	•	•	•	 		 			 	 				
FXUQ-AVEB			 			 	 	•	I I I I I			1 1 1 1 1 1	 				
FXCQ-AVM												 	 				
FXEQ-AV36												! ! !	! ! ! !				
FXDQ-TV1B(A)		•	•	•	•	•			1 1 1 1 1 1			 	 				
FXDQ-PDVE	(700mm width type)	•		•		 	 		 			 	 				
FXDQ-NDVE	(900 / 1,100mm width type)		1 1 1 1 1						 			 	 				
FXDYQ-MAV1						 			•	•	•	! ! !					
FXSQ-PAVE		•	•	•					•	•		•	1 1 1 1 1 1				
FXMQ-PAVE		•	•	•		•			•	•	•	•	1				
FXMQ-PV1A			 			 	 		 			 	 		•	•	
FXMQ-MFV1			 			 							: : : : :				
FXHQ-MAVE			 			 			 			 	I I I I I				
FXHQ-AVM			 			 	 		1 1 1 1 1				1 1 1 1 1				
FXAQ-AVM									 			 	1 1 1 1 1				
FXLQ-MAVE		•	•	•		•							1 1 1 1 1 1				
FXNQ-MAVE				•					1 1 1 1 1			: : : :	! ! !				
	FXFSQ-AVM FXFQ-PVE FXZQ-A2VEB FXUQ-AVEB FXUQ-AVM FXEQ-AV36 FXDQ-TV1B(A) FXDQ-PDVE FXDQ-NDVE FXDQ-NDVE FXDYQ-MAV1 FXSQ-PAVE FXMQ-PAVE FXMQ-PAVE FXMQ-PV1A FXMQ-MFV1 FXHQ-MAVE FXHQ-AVM FXAQ-AVM FXAQ-AVM	FXFSQ-AVM FXFQ-PVE FXZQ-A2VEB FXUQ-AVEB FXUQ-AVEB FXCQ-AVM FXEQ-AV36 FXDQ-TV1B(A) FXDQ-PDVE FXDQ-NDVE FXDQ-NDVE FXDYQ-MAV1 FXSQ-PAVE FXMQ-PAVE FXMQ-PAVE FXMQ-PV1A FXMQ-MFV1 FXHQ-MAVE FXAQ-AVM FXAQ-AVM FXLQ-MAVE	Model Name Capacity Range(kW) 2.2 Capacity Index 20 FXFQ-PVE FXZQ-A2VEB FXUQ-AVEB FXUQ-AVM FXEQ-AVM FXEQ-AV36 FXDQ-TV1B(A) FXDQ-PDVE FXDQ-NDVE FXDQ-NDVE FXDQ-NDVE FXDYQ-MAV1 FXSQ-PAVE FXMQ-PAVE FXMQ-PAVE FXMQ-PV1A FXMQ-MFV1 FXHQ-MAVE FXHQ-AVM FXLQ-MAVE FXHQ-AVM FXLQ-MAVE FXHQ-AVM FXLQ-MAVE	Model Name Capacity Range(kW) Capacity Index Capacity Index	Model Name Capacity Range(kW) 2.2 2.8 3.6 FXFSQ-AVM —	Model Name Capacity Range(kW) 2.2 2.8 3.6 4.5 FXFSQ-AVM — <td>Model Name Capacity Range(kW) 2.2 2.8 3.6 4.5 5.6 FXFSQ-AVM Image: Capacity Index 20 25 31.25 40 50 FXFQ-PVE Image: Capacity Index Image: Capacity Index<</td> <td> Model Name</td> <td>Model Name Capacity Range(W) 2.2 2.8 3.6 4.5 5.6 7.1 8 FXFSQ-AVM 20 20 25 31.25 40 50 62.5 71 FXFQ-PVE 3 4 4 4 50 62.5 71 FXQ-PVE 3 4 4 4 50 4 4 6 4 6 4 6</td> <td>Model Name Capacity Rangel(W) 2.2 2.8 3.6 4.5 5.6 7.1 8 9 FXFSQ-AVM 20 25 31.25 40 50 62.5 71 80 FXFQ-PVE 3 4 50 50</td> <td>Model Name Capacity Range(kW) 2.2 2.8 3.6 4.5 5.6 7.1 8 9 11.2 FXFSQ-AVM A A A 50 62.5 71 80 100 FXFQ-PVE A<</td> <td>Model Name</td> <td>Model Name Capacity RangekW 2.2 2.8 3.6 4.5 5.6 7.1 8 9 11.2 14 16 </td> <td>Model Name Capacity Range(W) 2.2 2.8 3.9 4.5 5.8 7.1 8 9 11.2 14 15 16.2 Capacity Index 20 25 31.25 40 50 62.5 71 80 100 125 140 145 FXFQ-AVM Image: Apple of the company of t</td> <td> Model Name Capacity Range(W) 2.2 2.8 3.6 4.5 5.6 7.1 8 9 11.2 14 10 16.2 18 18 16.2 18 18 18 18 18 18 18 1</td> <td>Model Name Capacity Rangefwith 2.2 2.8 3.2 40 80 63 71 80 100 125 140 145 160 180 Capacity Index 20 25 31.25 40 50 62.5 71 80 9 11.2 14 15 16.2 18 20 Capacity Index 20 25 31.25 40 50 62.5 71 80 100 125 140 145 160 180 EXFO-PVE EXZQ-A2VEB EXQQ-A2VEB EXQQ-AVM EXEQ-AV36 EXQQ-AVM EXDQ-PDVE BOOLONGme width typel EXQQ-AVM EXXQ-AVB EXXQ-AVB</td> <td>Model Name Capacity Index 22 2.8 3.6 4.5 5.9 7.1 8 9 11.2 1.1 16 16.2 18 20 22.4 </td>	Model Name Capacity Range(kW) 2.2 2.8 3.6 4.5 5.6 FXFSQ-AVM Image: Capacity Index 20 25 31.25 40 50 FXFQ-PVE Image: Capacity Index Image: Capacity Index<	Model Name	Model Name Capacity Range(W) 2.2 2.8 3.6 4.5 5.6 7.1 8 FXFSQ-AVM 20 20 25 31.25 40 50 62.5 71 FXFQ-PVE 3 4 4 4 50 62.5 71 FXQ-PVE 3 4 4 4 50 4 4 6 4 6 4 6	Model Name Capacity Rangel(W) 2.2 2.8 3.6 4.5 5.6 7.1 8 9 FXFSQ-AVM 20 25 31.25 40 50 62.5 71 80 FXFQ-PVE 3 4 50 50	Model Name Capacity Range(kW) 2.2 2.8 3.6 4.5 5.6 7.1 8 9 11.2 FXFSQ-AVM A A A 50 62.5 71 80 100 FXFQ-PVE A<	Model Name	Model Name Capacity RangekW 2.2 2.8 3.6 4.5 5.6 7.1 8 9 11.2 14 16	Model Name Capacity Range(W) 2.2 2.8 3.9 4.5 5.8 7.1 8 9 11.2 14 15 16.2 Capacity Index 20 25 31.25 40 50 62.5 71 80 100 125 140 145 FXFQ-AVM Image: Apple of the company of t	Model Name Capacity Range(W) 2.2 2.8 3.6 4.5 5.6 7.1 8 9 11.2 14 10 16.2 18 18 16.2 18 18 18 18 18 18 18 1	Model Name Capacity Rangefwith 2.2 2.8 3.2 40 80 63 71 80 100 125 140 145 160 180 Capacity Index 20 25 31.25 40 50 62.5 71 80 9 11.2 14 15 16.2 18 20 Capacity Index 20 25 31.25 40 50 62.5 71 80 100 125 140 145 160 180 EXFO-PVE EXZQ-A2VEB EXQQ-A2VEB EXQQ-AVM EXEQ-AV36 EXQQ-AVM EXDQ-PDVE BOOLONGme width typel EXQQ-AVM EXXQ-AVB EXXQ-AVB	Model Name Capacity Index 22 2.8 3.6 4.5 5.9 7.1 8 9 11.2 1.1 16 16.2 18 20 22.4

Residential indoor units with connection to BP units

tesidential indoor drifts with connection to braints													
			20	25	35	50	60	71					
Type	Model Name	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	FDXS-CVMA	(900/1,100 mm width type)											
Wall	FTXS-KVMA												
Mounted	FTXS-KAVMA	20											

Note: BP units are necessary for residential indoor units.

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



*Refer to page 61 for the maximum number of connectable indoor units.

VRV IV S SERIES Heat Pump

VRV IV S SERIES

■ VRV IV S Series Outdoor Units Heat Pump RXYMQ-A

					00	0							
MOD	EL		RXYMQ3AV4A	RXYMQ4AV4A	RXYMQ5AV4A	RXYMQ6AV4A	RXYMQ8AY1 RXYMQ9AY1						
Power supply				1-phase, 230	-240 V, 50 Hz		3-phase, 380	-415 V, 50 Hz					
Cooling capacity		Btu/h	30,700	38,200	47,800	54,600	76,400	81,900					
Cooling Capacity		kW	9.0	11.2	14.0	16.0	22.4	24.0					
Heating capacity		Btu/h	34,100	42,700	47,800	61,400	85,300	88,700					
rieating capacity		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					
rower consumption	Heating	, KVV	2.28	2.28 2.60		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	Туре			Hermetically se	Hermetically se	aled scroll type							
Oompressor	Motor output	kW	1.5	92	3.0	3.5	3.8	4.8					
Airflow rate		ℓ/s		1,267		1,767	2,3	33					
Alliowrate		m³/min		76		106	14	10					
Dimensions (H x W x D)		mm		990 x 940 x 320		1,345 x 900 x 320	1,430 x 9	40 x 320					
Machine weight		kg	7	1	82	104	13	88					
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	o 46							
Operation range	Heating	°CWB			-20 to	15.5							
Refrigerant	Туре				R-4	10A							
Tionigorant	Charge	kg	2	.9	3.4	3.6	5.	8					
Piping connections	Liquid	mm	φ 9.5 (Flare)				φ 9.5 (Brazing)						
i iping connections	111111		φ 15.9 (Flare)	φ 19.1 (Flare)	φ 19.1 (Brazing) φ 22.2 (Brazin								

- 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 or n, Evel 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 and oil recovery mode.
 - When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.
 - Refrigerant charge is required.

Outdoor Unit Combinations

			Capacity	Total	capacity index of c	runits	Maximum number of				
Model	kW	Class			Combina	ation (%)		connectable indoor units			
			iii aan	50%*1	1 80% ⁻² 100% ⁻³ 130%		130%	deministration indeed dime			
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

■ VRV III S Series Outdoor Units Heat Pump RXYMQ-P

MOD	EL		RXYMQ5PV4A									
Power supply			1-phase, 230-240 V, 50 Hz									
		Btu/h	47,800									
Cooling capacity		kW	14.0									
		Btu/h	54,600									
Heating capacity		kW	16.0									
Power consumption	Cooling	kW	3.97									
Power consumption	Heating	KVV	4.09									
Capacity control		%	24 to 100									
Casing colour			Ivory white (5Y7.5/1)									
Compressor	Туре		Hermetically sealed scroll type									
Compressor	Motor output	kW	3.0									
Airflow rate		ℓ/s	1,767									
Airilow rate		m³/min	106									
Dimensions (H x W x D)		mm	1,345 x 900 x 320									
Machine weight		kg	125									
Sound level (Cooling/Heat	ing)	dB(A)	51/53									
Sound power		dB(A)	69									
Onevetion vance	Cooling	°CDB	-5 to 46									
Operation range	Heating	°CWB	-20 to 15.5									
Refrigerant Type			R-410A									
	Charge	kg	4.0									
Piping connections	Liquid	mm	φ 9.5 (Flare)									
riping connections	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 and oil recovery mode.
 - When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

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

VRV IV Q SERIES
Heat Pump

Quick, Quality and Economical



RQCEQ-P

Heat Recovery

(28 kW) (84.8 kW)

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

RQYQ-T

Heat Pump

6 class-48 class

(16 kW) (135 kW)

Upgrading air conditioning systems in the past used to require replacement of refrigerant piping in buildings, leading to major construction and costs exceeding those of the original installation.

To save time and cost, Daikin developed the VRV IV Q Series as a model specializing in system replacement. This revolutionary system reuses existing piping and enables quick and high quality replacement to the latest energy-saving air conditioning system without renovation work for new piping.

The JAJ IV Q series concept

Reusing existing refrigerant piping minimizes:

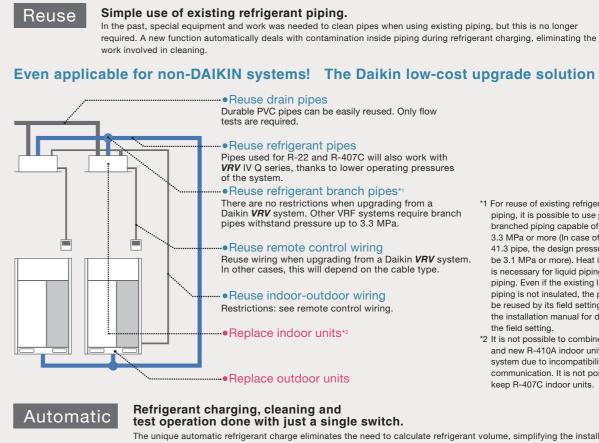
- Piping removal and new construction along with installation time and cost
- Impact to the interior and exterior of buildings
- Suspension of daily business operations for renovation

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

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

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

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



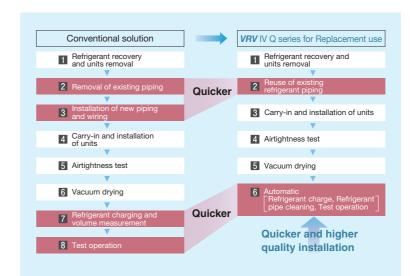
- *1 For reuse of existing refrigerant piping, it is possible to use piping or branched piping capable of handling 3.3 MPa or more (In case of using Φ 41.3 pipe, the design pressure must be 3.1 MPa or more). Heat insulation is necessary for liquid piping and gas piping. Even if the existing liquid piping is not insulated, the piping can be reused by its field setting. Refer to the installation manual for details for the field setting.
- *2 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.

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

* There are conditions in the range (ambient temperature, connection ratio) in which the automatic refrigerant charge can be used. Refer to the installation manual for details. The refrigerant amount that can be automatically charged may differ from the additional refrigerant amount that is provided from calculations, but there are no problems in performance and quality.

Time saving

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

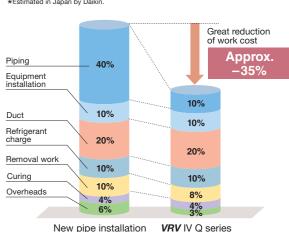


Cost saving

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

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

■ Cost details (10 class example) *Estimated in Japan by Daikin.



Benefits of System Replacement



Design flexibility

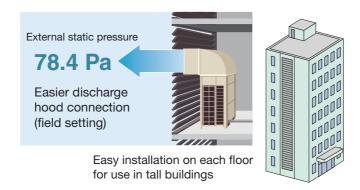
Significantly more compact outdoor unit enables the effective use of limited space!

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



High external static pressure 78.4 Pa





Small and light, significantly reducing constraints during carry-in



Can be carried on a cart





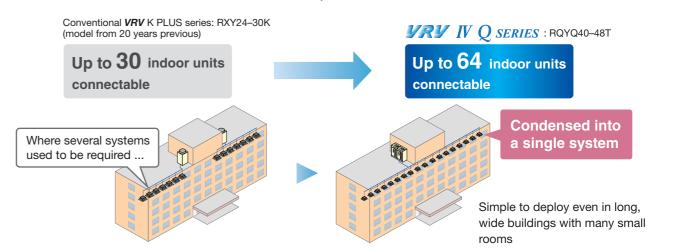
Can be transported easily by elevator

System flexibility

An increased number of connectable indoor units in a single system

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

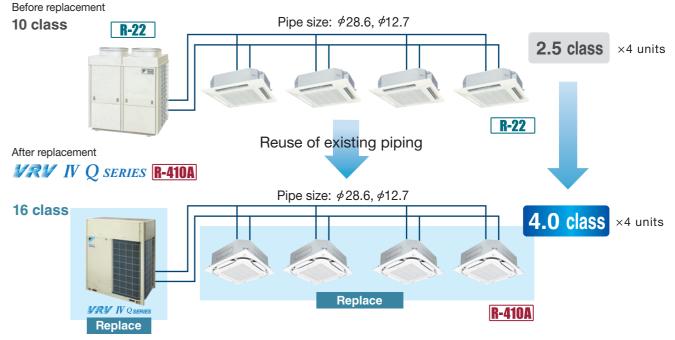
The number of connectable indoor units has been drastically increased from 30 to 64.



Enables increased capacity

System can be upgraded using existing piping

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

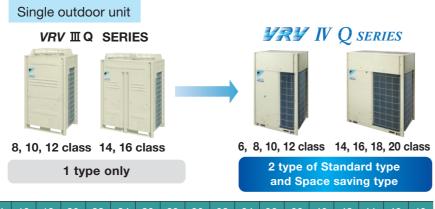


^{*} For reuse of existing refrigerant piping, it is possible to use piping or branched piping capable of handling 3.3 MPa or more (In case of using Ф41.3 pipe, the design pressure must be 3.1 MPa or more). Heat insulation is necessary for liquid piping and gas piping. Even if the existing liquid piping is not insulated, the piping can be reused by its field setting. Refer to the installation manual for details for the field setting.

Enhanced lineup

2 types up to 48 class

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



Lineup

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

Compact & light weight design

New Space Saving type with refined design

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



Energy saving

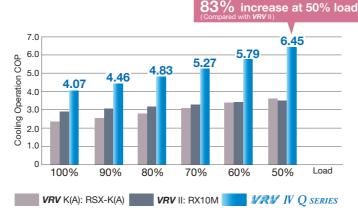
Higher Coefficient of Performance (COP)

COP at 100% operation load VRV IV Q series delivers highly efficient performance, contributing to high energy savings. 81% increase



COP for 10 class

Improved efficiency during long operation under low load



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

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

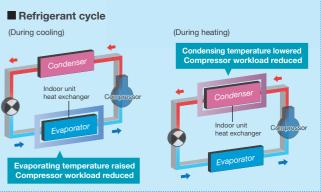
Customise your VRV system for optimal annual efficiency

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

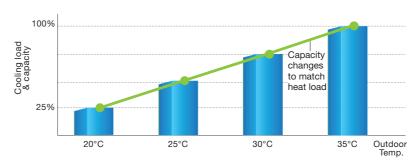
How is energy reduced?

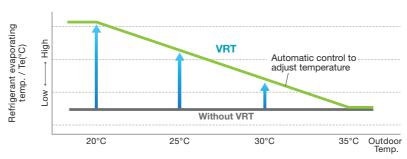
During cooling, the refrigerant evaporating temperature (Te) is raised to minimise the difference with the condensing temperature. During heating, condensing temperature (Tc) is lowered to minimise the difference to the evaporating temperature. Compressors work less, and this reduces power consumption.

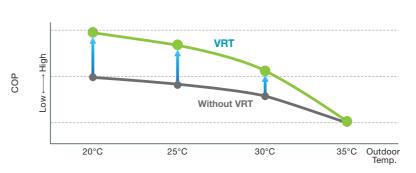




■ Typical changes in evaporating temperature and COP depending on changing indoor load







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.

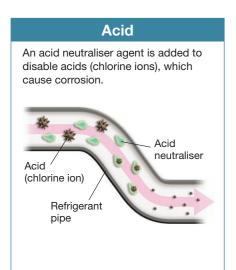
Automatic control adjusts evaporating temperature to heat load change.

Energy efficiency is improved without sacrificing comfort.

New technology that enables use of existing piping

New tested contamination collection method

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

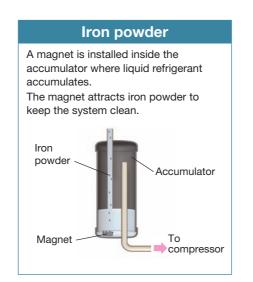


Impurities A generously sized filter is provided inside the refrigerant circuit which traps impurities. Refrigerant flow Impurities Iron powder. etc

ODM

VRV IV Q series

Only



Outer Rotor DC Motor (ODM)

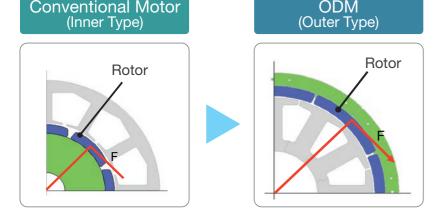
Only Daikin adapted ODM with feature ofstable rotation and volumetric efficiency

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 perated with small number of rotations





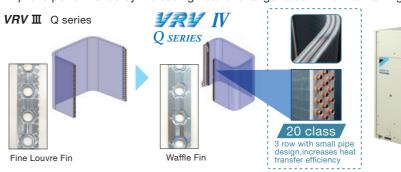


HIGH TORQUE MORE

Excellent Performance

Highly integrated heat exchanger

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



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

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

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.



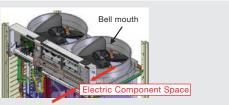
surface adopting SMT packaging technology

Computer control board

Refrigerant cooling technology, ensures stability of PCB temperature

Improved inner design to increase smooth airflow

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







PC Board Refrigerant 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 exchange

oof 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

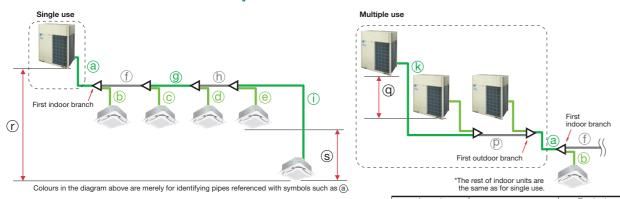
It is possible to cool the inverter power module stability even at high ambient temperature. This helps to keep air-conditioning capacity and also reduces failure ratio.

Guidelines for Reuse of Existing Refrig erant Piping



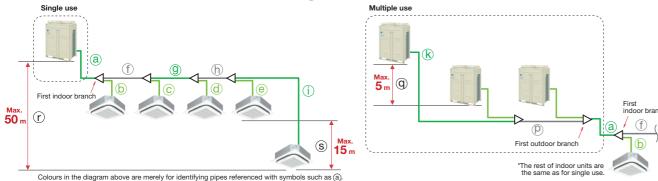
Piping limits for reuse of existing piping

VRV IV Q Series Heat Pump



			Actual piping length	Exan	nple	Equivalent piping length
	Refrigerant piping length		150 m	a+f+g	J+h+i	175 m
Maximum allowable	Total piping length		300 m	a+b+c+d+6	e+f+g+h+i	_
piping length	Between the first indoor branch a	nd the farthest indoor unit	40 m	f+g+	c+d+e+f+g+h+i f+g+h+i k+p	_
	Between the outdoor branch and	the last outdoor unit	10 m	k+	a+f+g+h+i p+c+d+e+f+g+h+i f+g+h+i k+p	13 m
			Level Differ	ence		Example
	Between the outdoor units (Multip	ole use)	5 m			q
Maximum allowable	Between the indoor units		15 m			S
level difference	Between the outdoor units	If the outdoor unit is above.	50 m			r
	and the indoor units	If the outdoor unit is below.	40 m			r

VRV III Q Series Heat Recovery



			Actual piping length	Example	Equivalent piping length
	Pofrigorant piping longth	RQYQ8-48P	150 m	a.f. a. b. i	175 m
Maximum		RQYQ8-48P		150 m	
allowable	Total piping length		piping length Example piping 2YQ8-48P 150 m a+f+g+h+i 175 m 2YQ140P, RQCEQ-P 120 m 150 m a+b+c+d+e+f+g+h+i -thest indoor unit 40 m f+g+h+i -	_	
piping length			1		_
					13 m

			Level Difference	Example
	Between the outdoor units (Multipl	*	5 m	q
Maximum allowable	Between the indoor units		15 m	s
level difference	Between the outdoor units	If the outdoor unit is above.	50 m	r
	and the indoor units	If the outdoor unit is below.	40 m	r

Reusability of existing piping

VRV IV Q Series Heat Pump

									Piping size	е						
Type of piping	Capacity			Liq	juid							Gas				
		φ6.4	\$\dphi\$ 9.5	φ12.7	<i>ф</i> 15.9	<i>ф</i> 19.1	φ22.2	<i>φ</i> 12.7	<i>ф</i> 15.9	<i>ф</i> 19.1	<i>φ</i> 22.2	\$\phi_25.4	\$\phi_28.6	\$\phi 34.9	φ41.3	\$ 54.1
	6 class	Х	soo			Х	X	Х	х	so	•			Х	×	×
	8 class	X	so	•		Х	×	Х	X	SO		•	•	X	×	×
	10 class	X	so	•		Х	×	х	×	×	so		•	Х	×	×
	12 class	X	X	SO	•	х	X	Х	X	×	×	×	SO		X	×
	14 class	Х	×	so	•	Х	X	Х	X	х	x	×	SO	•	X	×
	16 class	X	×	so	•	Х	×	Х	X	х	×	×	so	•	×	×
	18 class	X	×	X	so	•	×	х	×	×	×	×	so	•	×	×
	20 class	X	×	X	SO	•	X	Х	X	×	X	×	SO	•	×	×
	22 class	X	X	X	S O	•	Х	Х	X	х	X	×	so	•	X	×
	24 class	X	×	X	so	•	х	Х	X	х	X	×	×	SO	•	×
Main piping	26 class	X	×	×	×	SO	•	Х	×	×	×	×	×	so	•	×
an piping	28 class	X	×	×	×	so	•	Х	×	×	×	×	×	so	•	×
	30 class	X	×	×	X	so	•	х	x	х	×	×	×	SO	•	×
	32 class	X	×	×	×	so	•	Х	×	×	×	×	×	so	•	×
	34 class	X	×	X	X	so	•	Х	×	x	×	×	×	so	•	×
	36 class	X	×	X	X	so	•	Х	х	×	×	×	X	X	SO	•
-	38 class	Х	×	X	X	so	•	Х	X	х	X	X	X	X	SO	•
	40 class	X	×	X	X	so	•	Х	×	х	×	×	×	×	so	•
	42 class	X	×	X	X	so	•	Х	×	x	×	×	×	×	so	•
	44 class	X	×	Х	X	so	•	Х	х	×	×	×	×	×	SO	•
	46 class	X	×	X	X	so	•	Х	X	х	×	×	X	X	so	•
	48 class	X	×	х	X	so	•	Х	x	X	×	×	×	×	so	•
	< 100	X	soo		Х	Х	х	Х	SO		х	×	X	X	×	×
	100 ≤ X < 150	X	SO		Х	×	X	Х	S O	•	Х	×	×	×	×	×
	150 ≤ X < 160	X	soo		Х	×	×	Х	х	soo			х	×	×	×
	160 ≤ X < 200	X	so	•	Х	×	×	Х	x	S O		•	х	×	×	×
From	200 ≤ X < 290	X	so	•		Х	×	Х	×	×	S O	•		х	×	×
REFNET	290 ≤ X < 330	X	X	soo		Х	×	Х	Х	х	X	•	so		×	×
to REFNET	330 ≤ X < 420	X	×	SO	•	х	×	Х	X	х	×	×	so	•	×	×
IO HEI NET	420 ≤ X < 480	X	x	Х	soo		х	Х	х	х	×	×	so	•	х	×
	480 ≤ X < 640	×	×	×	SO	•	х	×	×	×	×	×	SO	•	×	×
	640 ≤ X < 900	X	×	×	Х	SO		х	×	х	×	×	Х	so	•	
	900 ≤ X < 920	Х	×	×	×	so	•	Х	×	х	×	×	×	so		•
	920 ≤	Х	×	×	X	so	•	Х	×	х	×	×	×	×	s O	•
	20-40 class	SO		Х	×	Х	Х	S		×	х	×	×	×	X	×
	50 class	S O	•	Х	×	×	×	so	•	×	×	×	×	×	×	×
_	63-80 class	X	soo		х	×	х	Х	soo		х	×	×	×	X	×
rom	100-125 class	×	soo		×	×	×	×	SO	•			×	×	×	×
	140-145 class	X	so		×	×	×	х	SO				×	×	×	×
to indoor unit ²	180 class	X	so		х	×	×	х	X	s O			Х	×	×	×
	200 class	×	SO	•	×	×	×	×	X	so		•		×	×	×
	250 class	X	so		×	×	X	×	×	X	s O			×	×	×

- Standard piping size of VRV IV Q series. However, when equivalent piping length between outdoor unit and indoor unit is 90 m or more, size of main piping must be increased. : Piping size of conventional R-410A model S : Standard piping size of VRV IV Q series
- *1 Piping between REFNETs depends on total capacity index of indoor units connected below each REFNET. It cannot exceed piping size of upstream side. *2 Piping from REFNET to indoor unit depends on the capacity of the connected indoor unit. It cannot exceed piping size of upstream side

VRV III Q Series Heat Recovery

											Pi	ping siz	е										
Type of piping	class			Lic	quid						Suction	n gas						High	and low	pressu	re gas		
		\$ 6.4	\$ 9.5	φ _{12.7}	\$ 15.9	\$ 19.1	φ22.2	φ _{12.7}	\$ 15.9	φ 19.1	φ22.2	\$ 25.4	φ 28.6	\$ 34.9	φ41.3	\$ 9.5	φ _{12.7}	\$ 15.9	\$ 19.1	φ22.2	\$\phi_{25.4}\$	\$\phi_28.6	\$ 3ª
	10 class	×	so	•	×	×	×	×	×	×	so		•	×	×	×	×	×	soe		×	×	>
	13 class	×	×	S		×	×	×	×	×	×	S		×	×	×	×	×	S		×	×	>
	16 class	×	×	so	•		×	×	×	×	×	×	so	•	×	×	×	×	×	so	•	×	>
	18 class	×	×	×	SO		×	×	×	×	×	×	so		×	×	×	×	×	so	•	×	>
Main piping	20 class	×	×	×	so		×	×	×	×	×	×	so		×	×	×	×	×	S	•	0	×
iviairi pipirig	22 class	×	×	×	so		×	×	×	×	×	×	so		×	×	×	×	×	×	S	0	>
	24 class	×	×	×	so	•	×	×	×	×	×	×	S	0	×	×	×	×	×	×	S	0	×
	26 class	×	×	×	×	so	•	×	×	×	×	×	×	SO		×	×	×	×	×	S	0	>
	28 class	×	×	×	×	so	•	×	×	×	×	×	×	SO	•	×	×	×	×	×	×	SO	×
	30 class	×	×	×	×	so	•	×	×	×	×	×	×	so	•	×	×	×	×	×	×	so	×
	< 50	S	0	×	×	×	×	S	0	×	×	×	×	×	×	S	0	×	×	×	×	×	>
	50 ≤ X < 100	×	so•		×	×	×	×	S○●		×	×	×	×	×	×	S○●		×	×	×	×	>
	100 ≤ X < 150	×	SO		×	×	×	×	SO	•			×	×	×	×	so	•	×	×	×	×	>
	150 ≤ X < 160	×	SO		×	×	×	×	×	S○●			×	×	×	×	×	so•		×	×	×	>
	160 ≤ X < 200	×	SO	•	×	×	×	×	×	SO			×	×	×	×	×	so	•	×	×	×	>
From	200 ≤ X < 290	×	SO	•		×	×	×	×	×	SO			×	×	×	×	×	so•		×	×	>
REFNET	290 ≤ X < 330	×	×	s O •		×	×	×	×	×	×	S	0	×	×	×	×	×	s O •		×	×	>
to REFNET 1	330 ≤ X < 420	×	×	SO	•	×	×	×	×	×	×	×	SO	× •	×	×	×	×	SO		•	×	>
	420 ≤ X < 480	×	×	×	SO•		×	×	×	×	×	×	so		×	×	×	×	×	×	S	0	>
	480 ≤ X < 640	×	×	×	SO		×	×	×	×	×	×	so		×	×	×	×	×	×	S	0	×
	640 ≤ X < 700	×	×	×	×	S○●		×	×	×	×	×	×	so	•	×	×	×	×	×	S	0	×
	$700 \le X < 900$	×	×	×	×	SO		×	×	×	×	×	×	SO		×	×	×	×	×	S		×
	900 ≤	×	×	×	×	S○●		×	×	×	×	×	×	S		×	×	×	×	×	×	SO	×
	20-40 class	SO•		×	×	×	×	SO		×	×	×	×	×	×								
	50 class	SO	•	×	×	×	×	SO		×	×	×	×	×	×]							
_	63 class	×	SO•		×	×	×		S○●		×	×	×	×	×								
From BS	80 class	×	SO•		×	×	×	×	S○●		×	×	×	×	×								
	100-125 class	×	SO		×	×	×	×	so				×	×	×]							
to indoor unit ²	140-145 class	×	so		×	×	×	×	so				×	×	×	l							
	180 class	×	so		×	×	×	×	×	so			×	×	×	l		/					
	200 class	×	so	•		×	×	×	×	so		•		×	×] .	/						
	250 class	×	SO	•		×	×	×	×	×	SO		•	×	×	1/							

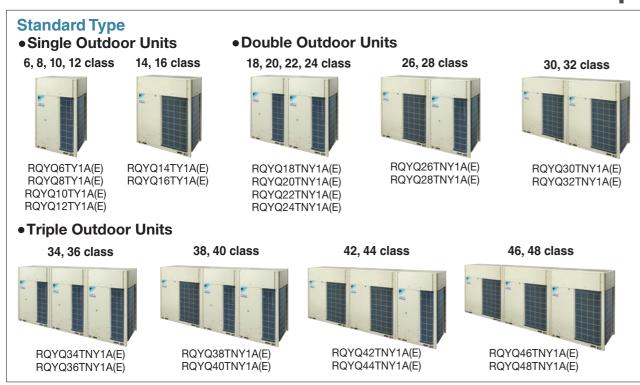
- : Piping size of conventional R-410A model : Standard piping size of **VRV** III Q series
- 1 Piping between REFNETs depends on total capacity index of indoor units connected below each REFNET. It cannot exceed piping size of upstream side.

^{*2} Piping from BS to indoor unit depends on the capacity of the connected indoor unit. It cannot exceed piping size of upstream side.

VRV V Q SERIES

System lineup for replacement use

■ VRV IV Q Series Outdoor Units Heat Pump





Lineup

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

Outdoor Unit Combinations

Standard Type

class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*3	Maximum number of connectable indoor units*2
6	16.0	150	RQYQ6T	RQYQ6T	_	75 to 195	9
8	22.4	200	RQYQ8T	RQYQ8T	_	100 to 260	13
10	28.0	250	RQYQ10T	RQYQ10T	_	125 to 325	16
12	33.5	300	RQYQ12T	RQYQ12T	_	150 to 390	19
14	40.0	350	RQYQ14T	RQYQ14T	_	175 to 455	22
16	45.0	400	RQYQ16T	RQYQ16T	_	200 to 520	26
18	50.4	450	RQYQ18TN	RQYQ8T + RQYQ10T		225 to 585	29
20	55.9	500	RQYQ20TN	RQYQ8T + RQYQ12T		250 to 650	32
22	61.5	550	RQYQ22TN	RQYQ10T + RQYQ12T		275 to 715	35
24	67.0	600	RQYQ24TN	RQYQ12T × 2	BHFP22P100	300 to 780	39
26	73.5	650	RQYQ26TN	RQYQ12T + RQYQ14T	BHFP22P100	325 to 845	42
28	78.5	700	RQYQ28TN	RQYQ12T + RQYQ16T		350 to 910	45
30	85.0	750	RQYQ30TN	RQYQ14T + RQYQ16T		375 to 975	48
32	90.0	800	RQYQ32TN	RQYQ14T + RQYQ18T		400 to 1,040	52
34	95.0	850	RQYQ34TN	RQYQ10T + RQYQ12T × 2		425 to 1,105	55
36	101	900	RQYQ36TN	RQYQ12T × 3		450 to 1,170	58
38	106	950	RQYQ38TN	RQYQ8T + RQYQ12T + RQYQ18T		475 to 1,235	61
40	112	1,000	RQYQ40TN	RQYQ12T × 2 + RQYQ16T	BHFP22P151	500 to 1,300	
42	119	1,050	RQYQ42TN	RQYQ12T + RQYQ14T + RQYQ16T	BHFP22P151	525 to 1,365	
44	124	1,100	RQYQ44TN	RQYQ12T + RQYQ16T × 2		550 to 1,430	64
46	130	1,150	RQYQ46TN	RQYQ14T × 2 + RQYQ18T		575 to 1,495	
48	135	1,200	RQYQ48TN	RQYQ14T + RQYQ16T + RQYQ18T		600 to 1,560	

Note: *1 For multiple connection 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%.

Space Saving Type

class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*3	Maximum number of connectable indoor units*2
18	50.0	450	RQYQ18T	RQYQ18T	_	225 to 585	29
20	56.0	500	RQYQ20T	RQYQ20T	_	250 to 650	32
30	83.5	750	RQYQ30TS	RQYQ12T + RQYQ18T		375 to 975	48
32	89.5	800	RQYQ32TS	RQYQ12T + RQYQ20T		400 to 1,040	52
34	95.0	850	RQYQ34TS	RQYQ16T + RQYQ18T	BHFP22P100	425 to 1,105	55
36	100	900	RQYQ36TS	RQYQ18T x 2	BHFFZZF100	450 to 1,170	58
38	106	950	RQYQ38TS	RQYQ18T + RQYQ20T		475 to 1,235	61
40	112	1,000	RQYQ40TS	RQYQ20T x 2		500 to 1,300	
42	117	1,050	RQYQ42TS	RQYQ12T x 2 + RQYQ18T		525 to 1,365	
44	123	1,100	RQYQ44TS	RQYQ12T x 2 + RQYQ20T	BHFP22P151	550 to 1,430	64
46	129	1,150	RQYQ46TS	RQYQ12T + RQYQ16T + RQYQ18T		575 to 1,495	
48	134	1,200	RQYQ48TS	RQYQ12T + RQYQ18T x 2		600 to 1,560	

Note: *1 For multiple connection of 30 class and above the outdoor unit multi connection piping kit (separately sold) is required.

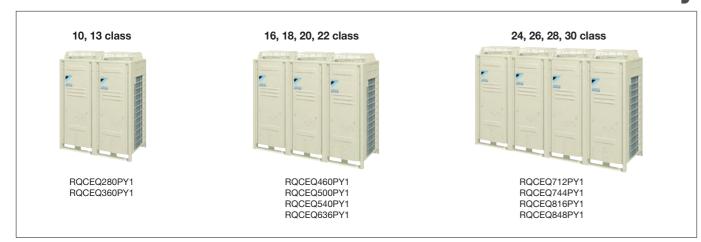
*2 Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outdoor units.

*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

■ VRV III Q Series Outdoor Units Heat Recovery



Outdoor Unit Combinations

class	kW	Capacity	Model name	Combination	Outdoor unit multi	connecta	capacity in ble indoor	units*2 *3	Maximum number of connectable indoor units
510.00		index			connection piping kit*1	Con 50%	nbination	130%	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	BHFP20P30C	162.5	325	422.5	21
16	46.0	400	RQCEQ460P	RQEQ140P+RQEQ140P +RQEQ180P		200	400	520	26
18	50.0	450	RQCEQ500P	RQEQ140P+RQEQ180P +RQEQ180P	BHFP26P63C	225	450	585	29
20	54.0	500	RQCEQ540P	RQEQ180P+RQEQ180P +RQEQ180P	BHFF20F03C	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		300	600	780	39
26	74.4	650	RQCEQ744P	RQEQ140P+RQEQ180P +RQEQ212P+RQEQ212P	DP 2P BHFP26P84C	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			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%.

Variety of Indoor Unit

																ive	w line	up	
			20		32	40	50	63	71	80	100	125	140	145	160	180	200	250	
Туре	Model Name	Capacity Range(kW)	2.2	2.8	3.6	4.5	5.6	7.1			11.2	14		16.2	18	20	22.4	28	
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250	
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVM			•	•	•	•	•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	•	•	•	1					
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			•					1			•		1					
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		•	•	•		•	1	 	 	 			1					
4-Way Flow Ceiling Suspended	FXUQ-AVEB			1			1			1			 	 		 			
Ceiling Mounted Cassette (Double Flow)	FXCQ-AVM			•				•	 		1			1					
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36		•					•	! ! !	 	 			1 1 1 1 1					ES
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-TV1B(A)		•	•	•		•	•	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1			1					II O SFRIES
Slim Ceiling Mounted Duct	FXDQ-PDVE	(700mm width type)	•				 	 	 	 	1 1 1 1 1			1 1 1 1 1					VRV VI O
(Standard Series)	FXDQ-NDVE	(900 / 1,100mm width type)		1			•	•	 	 	1		1	1					
Ceiling Concealed Duct	FXDYQ-MAV1			 			 	 	 			•	1 1 1 1 1	•					
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVE		•	•				•	 			•	•	1					
Ceiling Mounted	FXMQ-PAVE		•	•	•	•	•	•	 			•	•						
Duct	FXMQ-PV1A			1			1 1 1 1 1 1	1	 	 	 			1	•	•	•		
Outdoor-Air Processing Unit	FXMQ-MFV1			1			1	! ! ! !	 	 	: : : : :	•		 					
Ceiling Suspended	FXHQ-MAVE			 			 	•	 	 				 					
	FXHQ-AVM			! ! ! !			 	 	 	! ! ! !	! ! ! !								
Wall Mounted	FXAQ-AVM								 	! ! ! ! !	! ! ! !		 	 					
Floor Standing	FXLQ-MAVE		•	•	•		•	•	 	 	 								
Concealed Floor Standing	FXNQ-MAVE				•		•		 	1									
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Ai	rflov	v rate	500)-10	00 m	³ /h										
Heat Reclaim Ventilator	VAM-GJVE	00	Ai	rflov	v rate	150)-20	00 m	³ /h										

^{*} 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.

Specifications

VRV V Q SERIES Heat Pump

■ VRV IV Q Series Outdoor Units Heat Pump RQYQ-T

Standard Type

			RQYQ6TY1A(E)	RQYQ8TY1A(E)	RQYQ10TY1A(E)	RQYQ12TY1A(E)	RQYQ14TY1A(E)	RQYQ16TY1A(E)	RQYQ18TNY1A(E)	RQYQ20TNY1A(E)	RQYQ22TNY1A(E)	RQYQ24TNY1A(E)	RQYQ26TNY1A(E)	RQYQ28TNY1A(E)	RQYQ30TNY1A(E)	RQYQ32TNY1A(E)		
MODEL	Comb	oination	-	-	-	-	-	-	RQYQ8TY1A(E) RQYQ10TY1A(E)	RQYQ8TY1A(E) RQYQ12TY1A(E)	RQYQ10TY1A(E) RQYQ12TY1A(E)	RQYQ12TY1A(E) RQYQ12TY1A(E)	RQYQ12TY1A(E) RQYQ14TY1A(E)	RQYQ12TY1A(E) RQYQ16TY1A(E)	RQYQ14TY1A(E) RQYQ16TY1A(E)	RQYQ14TY1A(E) RQYQ18TY1A(E)		
Power supply					3-phase 4-wire syste	em, 380-415 V, 50 Hz					•	3-phase 4-wire syste	em, 380-415 V, 50 Hz					
Caaling aspesi		Btu/h	54,600	76,400	95,500	114,000	136,000	154,000	172,000	191,000	210,000	229,000	251,000	268,000	290,000	307,000		
Cooling capaci	ity	kW	16.0	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5	78.5	85.0	90.0		
Linatina annosi	·	Btu/h	61,400	85,300	107,000	128,000	154,000	171,000	193,000	213,000	235,000	256,000	281,000	299,000	324,000	345,000		
Heating capaci	ity	kW	18.0	25.0	31.5	37.5	45.0	50.0	56.5	62.5	69.0	75.0	82.5	87.5	95.0	101		
	Cooling	kW	3.63	5.21	7.29	9.01	10.9	13.0	12.5	14.2	16.3	18.0	19.9	22.0	23.9	26.3		
consumption	Heating	KVV	3.99	5.69	7.29	9.06	11.1	12.8	13.0	14.8	16.4	18.1	20.2	21.9	23.9	26.2		
Capacity contro	ol	%	20-	100	16-100	15-100	11-100	10-100		8-	100		6-1	100	5-1	100		
Casing colour					Ivory white	e (5Y7.5/1)						Ivory white	e (5Y7.5/1)					
	Туре				Hermetically Se	aled Scroll Type						Hermetically Se	aled Scroll Type					
Compressor	Motor output	t 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)	(4.1X1)+(5.2X1)	(5.2X1)+(5.2X1)	(5.2X1)+(2.9X1)+ (3.3X1)	(5.2X1)+(3.6X1)+ (3.7X1)	(2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1)	(2.9X1)+(3.3X1)+ (4.4X1)+(4.0X1)		
Airflow rate		ℓ/s	1,983	2,616	2,749	2,966	3,8	383	2,616+2,749	2,616+2,966	2,749+2,966	2,966+2,966	2,966-	+3,883	3,883-	+3,883		
7 III II OW TALO		m³/min	119	157	165	178	2	33	157+165	157+178	165+178	178+178	178-		233-			
Dimensions (H)	XWXD)	mm		1,657X	930X765		1,657X1	,240X765		()	+(1,657X930X765)		(1,657X930X765)+	(, , ,	(1,657X1,240X765)-	() /		
Machine weigh	nt	kg	18	85	1:	95	2	85	185	+195	195-	-195	195-	+285	285+285	285+300		
Sound level		dB(A)	55	56	57	59	60	61	60	(51	62	6	3	6	54		
Sound power		dB(A)	75	76	78	79	80	83	80	81	8	2	83	84	8	15		
Operation	Cooling	°CDB			-5 t	o 49						-5 to	i to 49					
range	Heating	°CWB			-20 to	15.5						-20 to	15.5					
Refrigerant	Туре				R-4	10A						R-4	10A					
Tionigorant	Charge	kg	5.	.9	6.0	6.3	10.3	10.4	5.9+6.0	5.9+6.3	6.0+6.3	6.3+6.3	6.3+10.3	6.3+10.4	10.3+10.4	10.3+11.7		
Piping	Liquid	mm		φ 9.5 (Brazing)			φ 12.7 (Brazing)			<i>φ</i> 15.9	(Brazing)			φ19.1	(Brazing)			
connections	Gas		φ19.1 ((Brazing)	φ 22.2 (Brazing)		φ 28.6 (Brazing)			φ 28.6 (Brazing)				φ 34.9 (Brazing)				

			ı		T				1	
Power supply Cooling capacity Heating capacity Power Cooling Heating Capacity control Casing colour Airflow rate Dimensions (HXWXD) Machine weight Sound level Sound power Operation range Heating Refrigerant Piping Charge Piping Connections Power Combination Cooling Type Charge Piping Connections Capacity Cooling Type Charge Piping Connections Capacity Cooling Type Charge Piping Connections Capacity Cooling Type Charge Piping Charge Piping Connections Capacity Cooling Type Charge Piping Charge Piping Connections Capacity Cooling Type Charge Piping Charge Piping Capacity Cooling Type Charge Piping Charge Piping Connections Cooling Capacity Cooling Cooling Charge Piping Charge Piping Charge Piping Connections Capacity Cooling Cooling Piping Charge Piping Charge Piping Connections Capacity Cooling Cooling Piping Charge Pipin										
			RQYQ34TNY1A(E)	RQYQ36TNY1A(E)	RQYQ38TNY1A(E)	RQYQ40TNY1A(E)	RQYQ42TNY1A(E)	RQYQ44TNY1A(E)	RQYQ46TNY1A(E)	RQYQ48TNY1A(E)
MODEL			RQYQ10TY1A(E) RQYQ12TY1A(E) RQYQ12TY1A(E)	RQYQ12TY1A(E) RQYQ12TY1A(E) RQYQ12TY1A(E)	RQYQ8TY1A(E) RQYQ12TY1A(E) RQYQ18TY1A(E)	RQYQ12TY1A(E) RQYQ12TY1A(E) RQYQ16TY1A(E)	RQYQ12TY1A(E) RQYQ14TY1A(E) RQYQ16TY1A(E)	RQYQ12TY1A(E) RQYQ16TY1A(E) RQYQ16TY1A(E)	RQYQ14TY1A(E) RQYQ14TY1A(E) RQYQ18TY1A(E)	RQYQ14TY1A(E) RQYQ16TY1A(E) RQYQ18TY1A(E)
Power supply					3-phase 4-wire syste	em, 380-415 V, 50 Hz			3-phase 4-wire syste	m, 380-415 V, 50 Hz
Casling same	a ida .	Btu/h	324,000	345,000	362,000	382,000	406,000	423,000	444,000	461,000
Cooling capac	city	kW	95.0	101	106	112	119	124	130	135
Heating conce	-14	Btu/h	365,000	386,000	406,000	427,000	454,000	471,000	498,000	515,000
Heating capac	city	kW	107	113	119	125	133	138	146	151
Power	Cooling	kW	25.3	27.0	29.6	31.0	32.9	35.0	37.2	39.3
consumption	Heating	KVV	25.4	27.2	29.9	30.9	33.0	34.7	37.3	39.0
Capacity cont	trol	%	5-1	00		4-	100		3-1	00
Casing colour		•			Ivory white	e (5Y7.5/1)			Ivory white	e (5Y7.5/1)
	Туре				Hermetically Se	aled Scroll Type			Hermetically Se	aled Scroll Type
Compressor	Motor output	t 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)
Airflow roto		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+3,8	383+3,883	3,883+3,8	83+3,883
Alfilow fate		m³/min	165+178+178	178+178+178	157+178+233	178+178+233	178+2	33+233	233+20	33+233
Dimensions (H	HXWXD)	mm	(1,657X930X765)- +(1,657X			+(1,657X930X765) ,240X765)		(1,657X1,240X765) ,240X765)	(1,657X1,240X765)- +(1,657X1	
Machine weigh	ht	kg	195+19	95+195	185+195+300	195+195+285	195+2	85+285	285+28	35+300
Sound level		dB(A)	63	6	4		65	·	6	6
Sound power		dB(A)	83	84		86		87	8	7
Operation	Cooling	°CDB			-5 t	o 49			-5 to	o 49
range	Heating	°CWB			-20 to	o 15.5			-20 to	15.5
Pofrigorant	Туре				R-4	10A			R-4	10A
nemgerant	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
Piping	Liquid	mm			φ 19.1 ((Brazing)			φ 19.1 (Brazing)
	Gas	111111							φ 41.3 (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 and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

■ VRV IV Q Series Outdoor Units Heat Pump RQYQ-T

Space Saving Type

			5															
			RQYQ18TY1A(E)	RQYQ20TY1A(E)	RQYQ30TSY1A(E)	RQYQ32TSY1A(E)	RQYQ34TSY1A(E)	RQYQ36TSY1A(E)	RQYQ38TSY1A(E)	RQYQ40TSY1A(E)	RQYQ42TSY1A(E)	RQYQ44TSY1A(E)	RQYQ46TSY1A(E)	RQYQ48TSY1A(E)				
MODEL		Combination units	-	-	RQYQ12TY1A(E) RQYQ18TY1A(E)	RQYQ12TY1A(E) RQYQ20TY1A(E)	RQYQ16TY1A(E) RQYQ18TY1A(E)	RQYQ18TY1A(E) RQYQ18TY1A(E)	RQYQ18TY1A(E) RQYQ20TY1A(E)	RQYQ20TY1A(E) RQYQ20TY1A(E)	RQYQ12TY1A(E) RQYQ12TY1A(E) RQYQ18TY1A(E)	RQYQ12TY1A(E) RQYQ12TY1A(E) RQYQ20TY1A(E)	RQYQ12TY1A(E) RQYQ16TY1A(E) RQYQ18TY1A(E)	RQYQ12TY1A(E) RQYQ18TY1A(E) RQYQ18TY1A(E)				
Power supply					3-phase 4-wire syste	em, 380-415 V, 50 Hz					3-phase 4-wire syste	m, 380-415 V, 50 Hz						
Cooling capac	itv	Btu/h	171,000	191,000	285,000	305,000	324,000	341,000	362,000	382,000	399,000	420,000	440,000	457,000				
Cooling capac	ity	kW	50.0	56.0	83.5	89.5	95.0	100	106	112	117	123	129	134				
Heating capac	ity	Btu/h	191,000	215,000	319,000	345,000	362,000	382,000	406,000	430,000	447,000	471,000	491,000	512,000				
Treating Capac	ity	kW	56.0	63.0	93.5	101	106	112	119	126	131	138	144	150				
Power	Cooling	kW	15.4	18.0	24.4	27.0	28.4	30.8	33.4	36.0	33.4	36.0	37.4	39.8				
consumption	Heating	9 800	15.1	17.5	24.2	26.6	27.9	30.2	32.6	35.0	33.2	35.6	37.0	39.3				
Capacity contr	rol	%	10-100	8-100	6-100		5-100				4-1	00						
Casing colour					Ivory white	e (5Y7.5/1)					Ivory white	e (5Y7.5/1)						
	Type				Hermetically Se	aled Scroll Type					Hermetically Sea	aled Scroll Type						
Compressor	Motor	output kW	(4.4X1)+(4.0X1)	(4.6X1)+(5.5X1)	(5.2X1)+(4.4X1)+ (4.0X1)	(5.2X1)+(4.6X1)+ (5.5X1)	(3.6X1)+(3.7X1)+ (4.4X1)+(4.0X1)	(4.4X1)+(4.0X1)+ (4.4X1)+(4.0X1)	(4.4X1)+(4.0X1)+ (4.6X1)+(5.5X1)	(4.6X1)+(5.5X1)+ (4.6X1)+(5.5X1)	(5.2X1)+(5.2X1)+ (4.4X1)+(4.0X1)	(5.2X1)+(5.2X1)+ (4.6X1)+(5.5X1)	(5.2X1)+(3.6X1)+ (3.7X1)+(4.4X1)+(4.0X1)	(5.2X1)+(4.4X1)+ (4.0X1)+(4.4X1)+(4.0X1)				
Airflow rate		ℓ/s	3,883	4,466	2,966+3,883	2,966+4,466	3,883	+3,883	3,883+4,466	4,466+4,466	2,966+2,966+3,883	2,966+2,966+4,466	2,966+3,8	83+3,883				
Alfilow rate		m³/min	233	268	178+233	178+268	233-	+233	233+268	268+268	178+178+233	178+178+268	178+23	33+233				
Dimensions (H	XWXD)	mm	1,657X1,	240X765	(1,657X930X765)+	(1,657X1,240X765)	(1,657X1,240X765)	+(1,657X1,240X765)	(1,657X1,240X765)-	+(1,657X1,240X765)	(1,657X930X765)+(1,657X93	80X765)+(1,657X1,240X765)	(1,657X930X765)+(1,657X1,2	40X765)+(1,657X1,240X765)				
Machine weigh	nt	kg	300	320	195+300	195+320	285+300	300+300	300+320	320+320	195+195+300	195+195+320	195+285+300	195+300+300				
Sound level		dB(A)	62	65	64	66	6	65	67	68	65	67	6	6				
Sound power		dB(A)	84	87	85	88	87	87	89	90	86	88	87	88				
Operation	Cooling	°CDB		-5 to 49						-5 to	49							
range	Heating	°CWB			-20 to	15.5					-20 to	15.5						
Refrigerant	Type				R-4	10A					R-4	10A						
Tionigerani	Charge	kg	11.7	11.8	6.3+11.7	6.3+11.8	10.4+11.7	11.7+11.7	11.7+11.8	11.8+11.8	6.3+6.3+11.7	6.3+6.3+11.8	6.3+10.4+11.7	6.3+11.7+11.7				
Piping	Liquid	mm	φ 15.9(Brazing)		<i>ϕ</i> 19.1(E	Brazing)				<i>ϕ</i> 19.1(E	Brazing)						
connections	Gas		<i>ϕ</i> 28.6(ϕ 15.9(Brazing) ϕ 19.1(Brazing) ϕ 34.9(Brazing) ϕ 34.9(Brazing)														

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

VRV III Q Series Outdoor Units Heat Recovery RQCEQ-P

						5 8	**************************************						
			RQCEQ280PY1	RQCEQ360PY1	RQCEQ460PY1	RQCEQ500PY1	RQCEQ540PY1	RQCEQ636PY1	RQCEQ712PY1	RQCEQ744PY1	RQCEQ816PY1	RQCEQ848PY1	
MODEL	Combi	nation	RQEQ140PY1 RQEQ140PY1	RQEQ180PY1 RQEQ180PY1	RQEQ140PY1 RQEQ140PY1 RQEQ180PY1	RQEQ140PY1 RQEQ180PY1 RQEQ180PY1	RQEQ180PY1 RQEQ180PY1 RQEQ180PY1	RQEQ212PY1 RQEQ212PY1 RQEQ212PY1	RQEQ140PY1 RQEQ180PY1 RQEQ180PY1 RQEQ212PY1	RQEQ140PY1 RQEQ180PY1 RQEQ212PY1 RQEQ212PY1	RQEQ180PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1	RQEQ212PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1	
Power supply	<u>'</u>				3-phase 4-wire syste	m, 380-415 V, 50 Hz				3-phase 4-wire syste	m, 380-415 V, 50 Hz		
		Btu/h(*1)	96,200	124,000	158,000	172,000	186,000	218,000	245,000	256,000	280,000	291,000	
Cooling capacity	(*1) (*2)	kW (*1)	28.2	36.3	46.3	50.4	54.4	64.0	71.7	74.9	82.2	85.4	
		(*2)	28.0	36.0	46.0	50.0	54.0	63.6	71.2	74.4	81.6	84.8	
Heating consoit.		Btu/h	109,000	136,000	177,000	191,000	205,000	229,000	268,000	276,000	298,000	306,000	
Heating capacity		kW	32.0	40.0	52.0	56.0	60.0	67.2	78.4	80.8	87.2	89.6	
Power (Cooling (*2)	kW	7.04	10.3	12.2	13.9	15.5	21.9	21.2	23.3	27.1	29.2	
consumption	Heating] NVV	8.00	10.7	13.4	14.7	16.1	17.7	20.7	21.2	23.1	23.6	
Capacity control		%	13-100	10-100	8-100		7-100			5-1	00		
Casing colour					Ivory white	e (5Y7.5/1)				Ivory white	(5Y7.5/1)		
Compressor	Туре				Hermetically se	aled scroll type				Hermetically se	71		
Compressor 1	Motor output	kW	2.8X2	3.3X2	2.8X2+3.3	2.8+3.3X2	3.3X3	3.6X3	2.8+3.3X2+3.6	2.8+3.3+3.6X2	3.3+3.6X3	3.6X4	
Airflow rate		ℓ/s	1583+1583	1833+1833	1583+1583+1833	1583+1833+1833		833+1833		3+1833+1833	1833+1833	+1833+1833	
		m³/min	95+95	110+110	95+95+110	95+110+110	l	110+110	95+110	0+110+110		+110+110	
Dimensions (HXV	VXD)	mm	(1,680X635X765)-	(, ,	(1	680X635X765)+(1,680X6	635X765)+(1,680X635X7	,		(1,680X635X765)+(1,680X635X765)+	, , , ,		
Machine weight		kg	175-			175+175+175		179+179+179	175+175+175+179	175+175+179+179	175+179+179+179	179+179+179+179	
Sound level		dB(A)	57	[•	62	63	65	64	65		66	
Operation	Cooling	°CDB			-5 to					-5 to			
rango	Heating	°CWB			-20 to				-20 to 15.5				
0	Cooling & Heating	°CWB			-6 to					-6 to			
	Туре				R-4					R-4			
	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	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	
Piping Liquid			₱ 9.5 (Brazing)	φ12.7 (E	Brazing)		φ15.9 (Brazing)		φ 15.9 (Brazing)		φ 19.1 (Brazing)		
connecti Suction		mm		φ 25.4 (Brazing)		<i>ϕ</i> 28.6 (E	Brazing)		φ 28.6 (Brazing)				
ons High and	l low pressure gas		φ 19.1 (Brazing)					φ 25.4 (Brazing)		φ 25.4 (Brazing)	φ28.6 (Brazing)	

Note: Specifications are based on the following conditions;

^{2.} Specifications are based on the following conditions;

Specifications are based on the following containunts;
 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 and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

<sup>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.

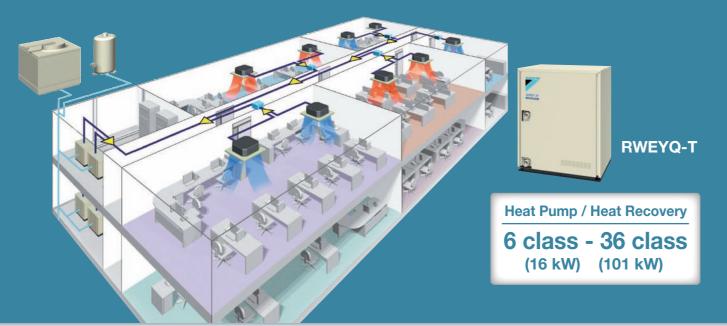
Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.</sup>

[•] 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 and oil recovery mode.

When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

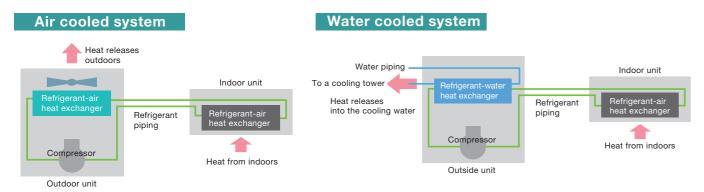
171 IV W SERIES Water Cooled



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.



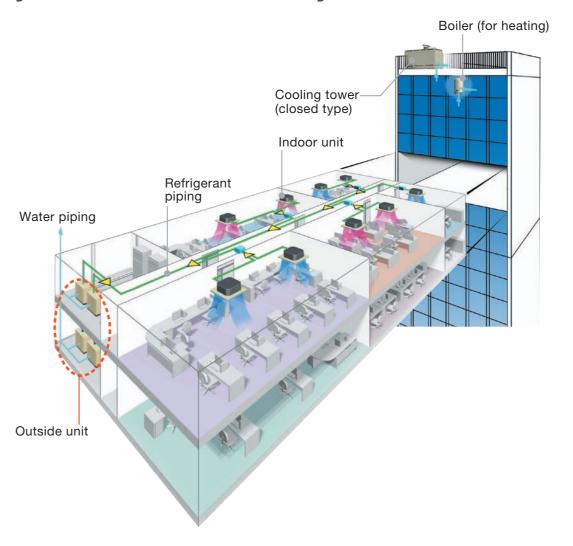
As a water cooled system does not require to exchange heat with outdoor air,

- 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**

Inverter System

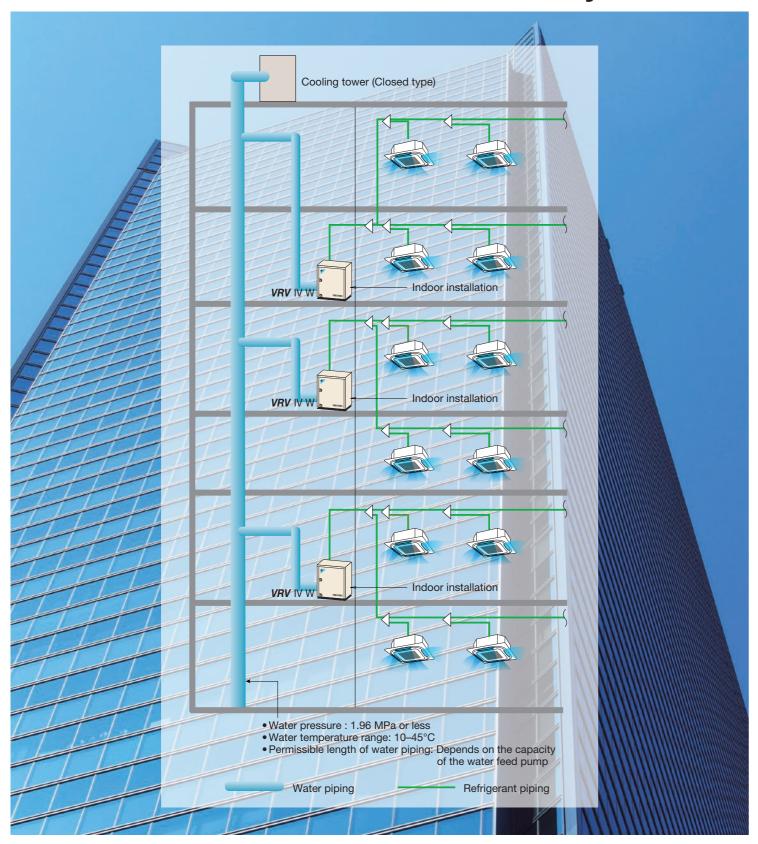


The VRV IV W series combines the characteristics of a water cooled system with the VRV system



- 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.

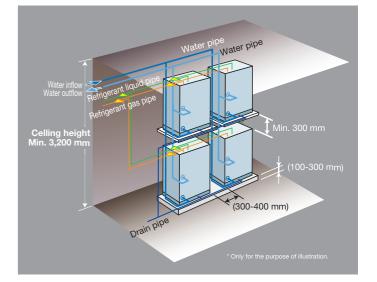


Adaptable to high-rise buildings due to easy installation on each floor

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.





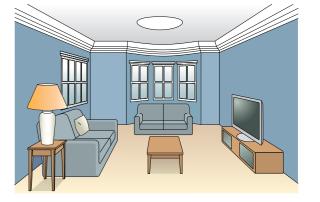
Easy to install in underground shopping malls and subway systems

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

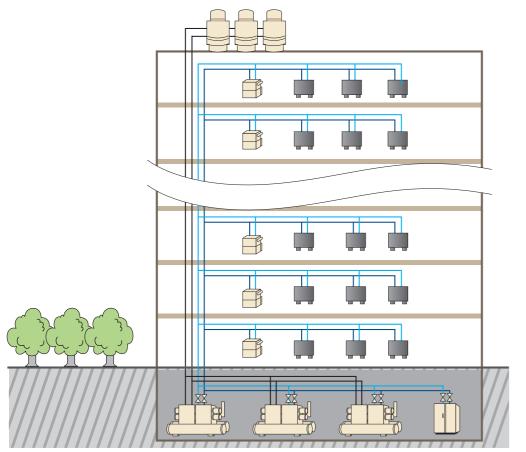
We offer an extensive lineup of small capacity outside units as well as connectable residential indoor units.



/RV IV W SERIES eat Pump / Heat Recovery

JAJ IV W SERIES

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.
- 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.
- Individual energy billing for multi tenancy application is difficult.
- After hours operations for tenants is costly and inefficient.
- 3 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?

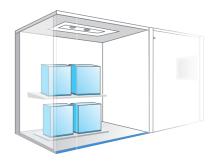
- 4 How to securely transport the air conditioning outside unit without incident?
- 6 How to simplify maintenance of the air conditioning system?

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.

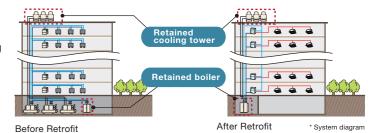


2 Part of the old system can be retained for cost reduction

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.



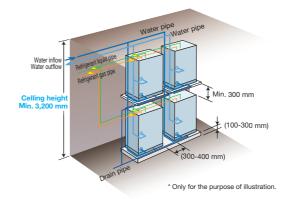
Minimal plant room space

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.

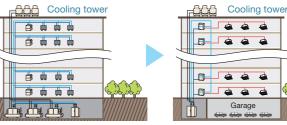


• The modular design featured by the water cooled VRV IV W series enables a free and flexible configuration of the outside units. Outside units may be double stacked to minimize plant space.

Stacking up of the outside units



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.

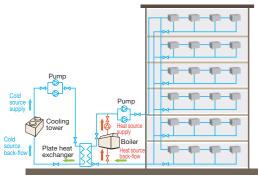
* System diagran

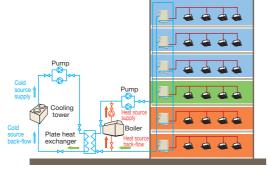
Water Cooled VRV IV as a Retrofit Solution



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.





Renovation in

Phase 1
Phase 2

Phase 3

* System diagram

phases is possible.

Water cooled packaged air conditioning system

Water cooled VRV IV W series

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.



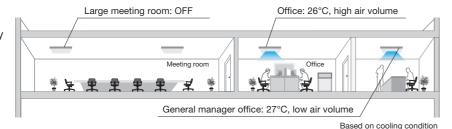
load performances.

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

1 Independent control provides greater comfort and convenience

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

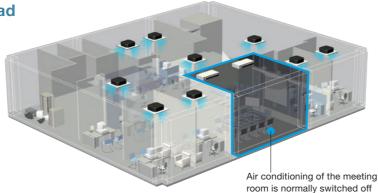
This achieves optimal comfort and convenience.



2 Higher efficiency with partial load

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

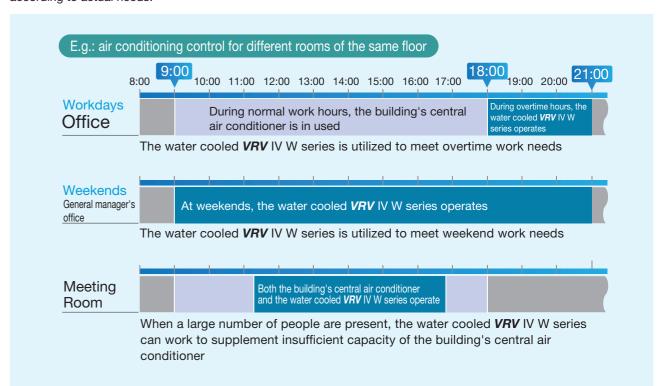


Actual conditions of the floor

3 Suitable as a low load or supplementary system

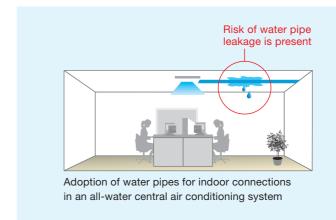
When combined up with a conventional central air conditioning system, the water cooled *VRV* IV W series can easily handle the air conditioning needs for after-hours work while the building's central air conditioner can be utilized during normal work hours. The water cooled *VRV* IV W series can be added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

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



4 Connection using refrigerant pipes eliminate the risk of water leakage

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





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

Energy Saving



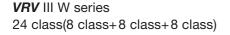
Compact and lightweight

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

A weight of 146 kg and height of 1,000 mm make it possible for installation in buildings with limited space, or where space is unavailable for outdoor units. This makes the system ideal for places that doesn't have area outside—such as underground malls.

* The unit is designed for indoor installation only.







447 kg

1.560 mm

VRV W SERIES

24 class(12 class+12 class)

Footprint 1.29 m²

Product Weight

0.86 m²

294 ka

34% Decrease

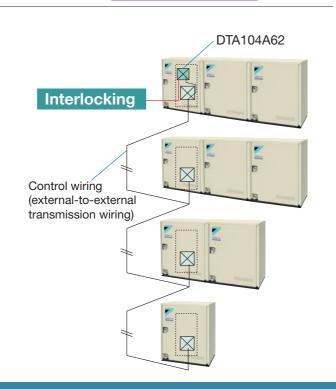
33% Decrease

Enhanced usability

Centralised interlocking function

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

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



Enhanced lineup

Wider capacity range from 6 to 36 class

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



VRV IV W SERIES



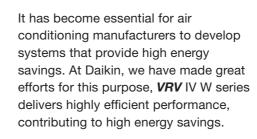




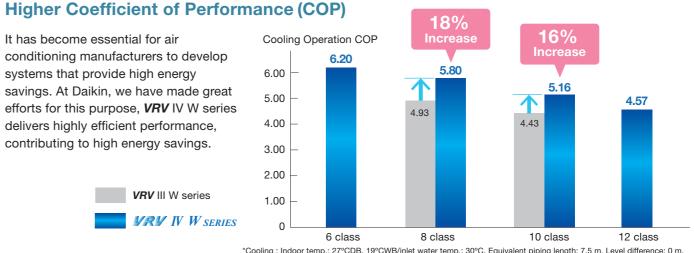
VRV IV W SERIES Heat Pump / Heat Recovery

Capacity	class	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Range	kW	16.0	22.4	28.0	33.5	38.4	44.8	50.4	56.0	61.5	67.0	72.8	78.4	84.0	89.4	95.0	101
Conventiona VRV III W ser																	
VRV IV W	VSERIES																

Energy saving







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

VRT-Variable Refrigerant Temperature

More Flexible System Design | IN W SERIES | Heat Pump / Heat Recovery



■ State-of-the-art energy saving technology

Customise your VRV system for optimal annual efficiency

The new VRV IV W series now features VRT technology. VRT automatically adjusts refrigerant temperature to individual building and climate requirement, thus further improving annual energy efficiency and maintaining comfort.

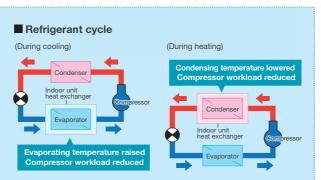
With this excellent technology, running costs are reduced.



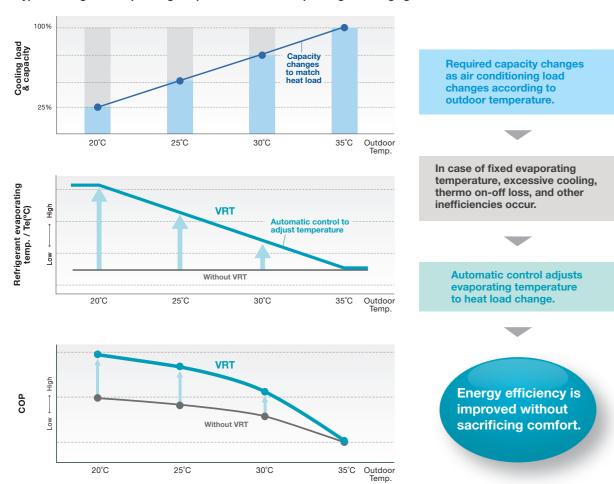
How is energy reduced?

During cooling, the refrigerant evaporating temperature (Te) is raised to minimise the difference with the condensing

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

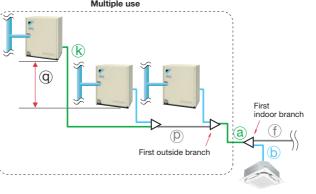


^{*} VRT is only available during either all cooling operation or all heating operation.

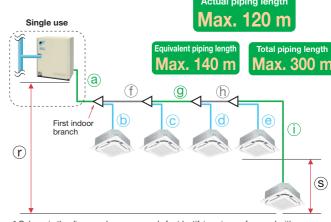
Long refrigerant piping length

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.



the same as for single use



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

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

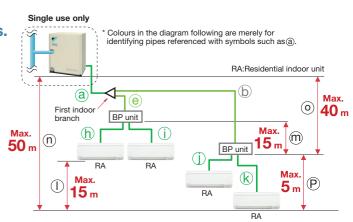
^{*1} No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. The VRV IV W series is easy to extend to 90 m by lessening the conditions from conventional VRV III W models. Be sure to refer to the Engineering Data Book for details of these conditions and requirements

For connection of only residential indoor units.

Max. 100 m

Max. 120 m

Max. 200 m



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

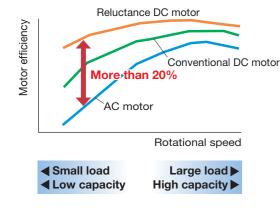
^{*1.} When the piping length exceeds 20 m, the size of the main pipes (the gas side and the liquid side) must be increased. Please refer to Engineering Data Book for details.

Advanced Technologies Achieve

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.



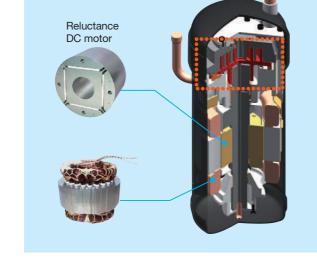
Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory using Daikin products.

- *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

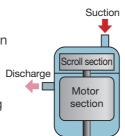
Use of an optimised sine wave smoothes motor rotation, further improving operating efficiency.





Scroll compressor

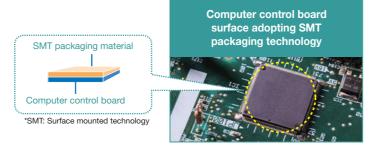
Sucked gas is compressed in the scrolling part before the heated motor, so that the machine compress the non-expanded gas, resulting in high efficiency compression.



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.



Excellent Performance VAV IV W SERIES

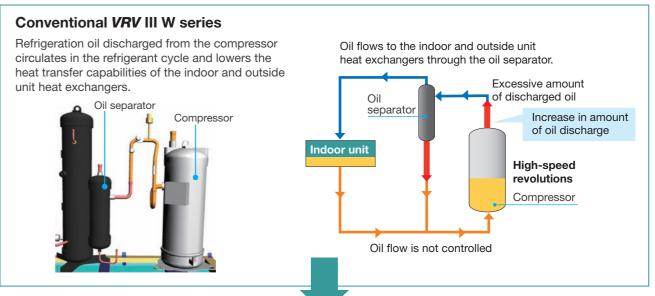


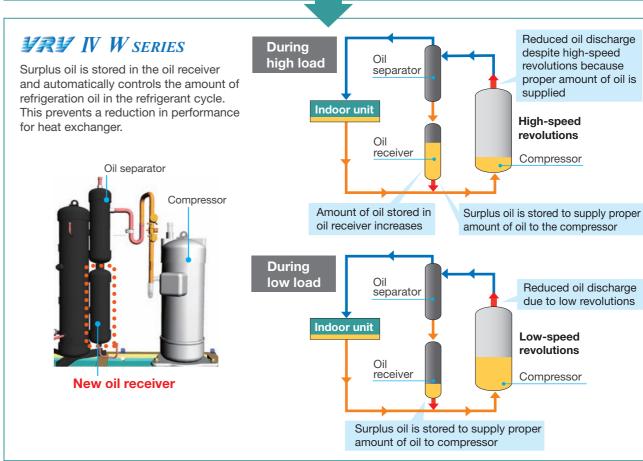
■ Minimize performance degradation from refrigeration oil in all stages of operation

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.





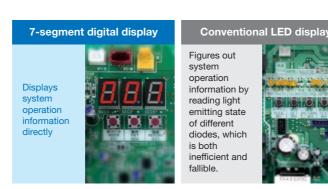
Reliable and Stable System



Simplified commissioning and after-sales service

Function of information display by luminous digital tube

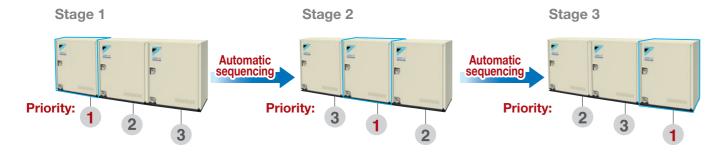
VRV IV W series utilises 7-segment luminous digital tubes to display system operation information, enabling the operational state to be visually displayed whilst facilitating simplified commissioning and after-sales service.



Outside unit sequencing technology

Automatic sequencing operation

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



Reliable and convenient air conditioning system

Auto-restart technology after power interruption

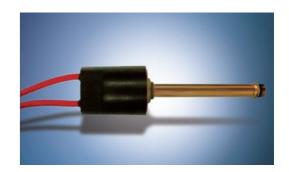
Even if the indoor or outside unit accidentally experiences a power interruption during normal operation, the system will keep a record of the operating mode adopted before the power interruption. When the power supply recovers, the air conditioning system will then restore itself back into the recorded 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.

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.

For connection of only residential indoor units

Model name*1	kW	class	Capacity		ble indoor units ^{*2}	Maximum number of connectable indoor units	
			index	80% ^{*2}	100%	130%	connectable indoor units
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 outside unit (RWEYQ6-12T) heat pump type can be connected.

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

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

Easily responds to simultaneous heating and cooling needs.

Offers simultaneous cooling and heating operation on the same floor!

Cooling operation for rooms significantly heated by sun

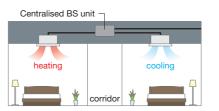


Increasing demand for simultaneous cooling and heating needs



Winter season (Office Building)

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



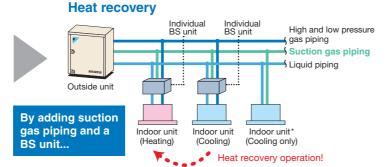


Individual BS unit

Centralised BS unit

Heat pump Gas piping Liquid piping Outside unit

* 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.



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.

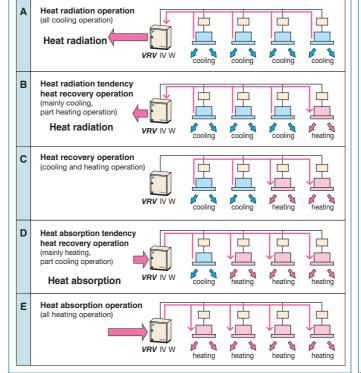
This 2-stage heat recovery operation substantially improves energy efficiency and makes the system the ideal solution to the requirements of modern office buildings, where some areas may require cooling even in winter, depending on the amount of sunshine received and the number of people in the room.

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 ____ H



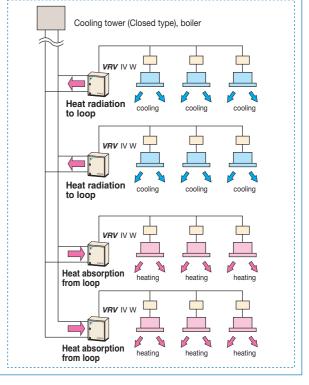
Note: • Above system configurations are for illustration purposes only.

Stage 2

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

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

The second stage: Between VRV IV W systems



Enhanced Lineup of BS Units

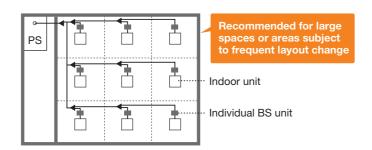


Individual and centralised BS unit allow greater design flexibility

Individual BS unit



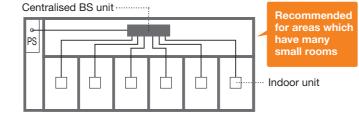
- Compact and flexible installation
- Flexible design
- Low noise



Centralised BS unit



BS4Q14AV1 BS6Q14AV1 BS8Q14AV1 BS10Q14AV1 BS12Q14AV1 BS16Q14AV1



■ Enhanced Line up

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

Compact and lightweight design
 Compared to conventional BS unit (6 branch)



BS unit weight reduced by 73%

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

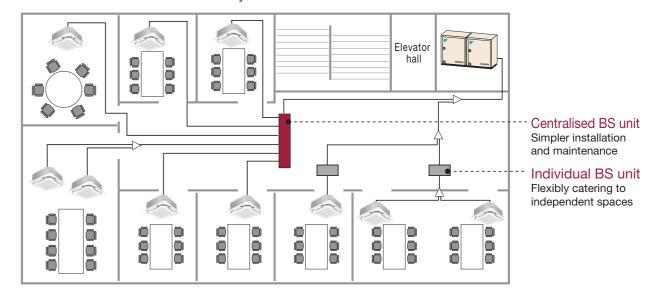


Greater design flexibility achieved by increasing the connection capacity range

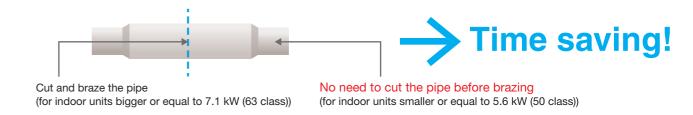


Combined use of a centralised BS unit and individual BS units meets the needs of many design plans.

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



Faster installation of centralised BS unit thanks to open connection



Lower transient sound

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

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

	Individual BS unit												
1	100 type	160 type	250 type										
	40	45	45										
	45.5	46.5	47.5										

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

VRV IV W SERIES Heat Pump / Heat Becovery

■ Enhanced range of choices

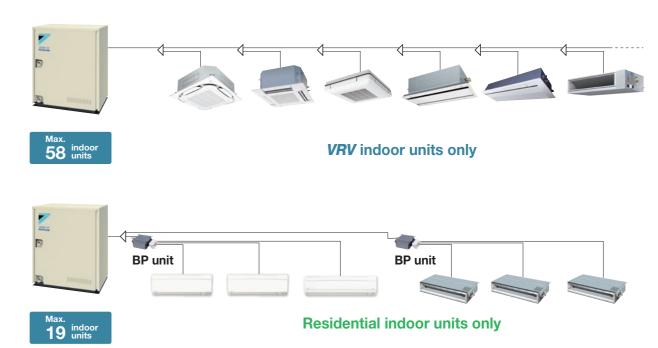
Indoor units can be selected from 2 lineups, both *VRV* and residential indoor units, to match rooms and preferences.

to match rooms and pref	erences.																	
VRV indoor units				. 05		10					100	105	4.40		100		w line	
Tuna	Model Name	Capacity Range(kW)	2.2	25	32	40	5.6	63 7.1	71	80	100 11.2	125 14		145 16.2	160	180 20	200	250
Туре	Wodel Name	Capacity Index	20		31.25			62.5		80	100			145		180		
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVM			•	•	•	•	•	1 1 1 1 1 1	•		•	•					
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE				•			•	 									
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		•	•	•				 	1 1 1 1 1								
4-Way Flow Ceiling Suspended	FXUQ-AVEB						1			 								
Ceiling Mounted Cassette (Double Flow)	ew FXCQ-AVM			•				•	 									
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36		•					•	 	1								
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-TV1B(A)		•	•	•	•	•	•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1 1 1 1 1							
Slim Ceiling Mounted Duct	FXDQ-PDVE	(700mm width type)	•				I I I I I		 	 								
(Standard Series)	FXDQ-NDVE	(900 / 1,100mm width type)		1				•	1	1	1							
Ceiling Concealed Duct	FXDYQ-MAV1						 		 			•						
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVE		•			•	•	•	1	•	•	•	•					
Ceiling Mounted	FXMQ-PAVE		•	•	•		•	•	 		•	•	•					
Duct	FXMQ-PV1A						! ! !	1	! ! !	 								
Outdoor-Air Processing Unit	FXMQ-MFV1						 	! ! !	 	 								
Ceiling Suspended	FXHQ-MAVE			1	•		 	•	 	 	•							
	w FXHQ-AVM						 	 	 	 								
Wall Mounted	ew FXAQ-AVM								 	 	 							
Floor Standing	FXLQ-MAVE		•	•	•		•	•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1								
Concealed Floor Standing	FXNQ-MAVE								 	 	 							
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Ai	irflow	rate	500)-10(00 m	³ /h									
Heat Reclaim Ventilator	VAM-GJVE	00	Ai	rflow	rate	150)-20	00 m	³ /h									

Residential indoor units with connection to BP units

			20	25	35	50	60	71
Type	Model Name	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	FDXS-CVMA	(900/1,100 mm width type)						
Wall	FTXS-KVMA							
Mounted	FTXS-KAVMA							

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



*Refer to page 96 for the maximum number of connectable indoor units.

Specifications



■ VRV IV W Series Outside Units

RWEYQ-T

Heat Pump / Heat Recovery

MODEL			RWEYQ6TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ14TYM	RWEYQ16TYM	RWEYQ18TYM	RWEYQ20TYM	RWEYQ22TYM	RWEYQ24TYM
Osmelsin stiem .	!4		_	_	_	_	RWEYQ6TYM	RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM
Combination (inits					-	RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM
Power supply				3-phase 4-wire system, 3	80-415 V/380 V, 50/60 Hz				3-phase 4-wire system, 3	80-415 V/380 V, 50/60 Hz	2	
Caaling canacity		Btu/h	54,600	76,400	95,500	114,000	131,000	153,000	172,000	191,000	210,000	229,000
Cooling capacity	Cooling capacity k		16.0	22.4	28.0	33.5	38.4	44.8	50.4	56.0	61.5	67.0
Lleating consoits	Heating capacity Btu. RW kW Power Cooling kW		61,400	85,300	107,000	128,000	147,000	171,000	193,000	215,000	235,000	256,000
Heating capacity			18.0	25.0	31.5	37.5	43.0	50.0	56.5	63.0	69.0	75.0
Power			2.58	3.86	5.43	7.33	6.44	7.72	9.29	10.9	12.8	14.7
consumption	· · ·		2.69	3.98	5.60	7.87	6.67	7.96	9.58	11.2	13.5	15.7
Casing colour				lvory white	e (5Y7.5/1)				Ivory white	e (5Y7.5/1)		
Dimensions (H×V	V×D)	mm	1,000 × 780 × 550						(1,000 × 78	0 × 550) × 2		
Саманиалам	Туре			Hermetically se	ealed scroll type				Hermetically se	ealed scroll type		
Compressor	Motor output	kW	1.9	2.8	3.7	4.7	1.9 + 2.8	2.8 × 2	2.8 + 3.7	3.7 × 2	3.7 + 4.7	4.7 × 2
Refrigerant piping	Liquid						φ 12.7	(Flare)	<i>ϕ</i> 15.9	(Flare)	<i>φ</i> 19.1	(Flare)
connections	Suction gas *1	mm	<i>∲</i> 19.1 (E	Brazing)	\$\phi\$ 22.2 (E	Brazing)			<i>ф</i> 28.6 (E	Brazing)		
connections	High and low pressure gas	3	φ 15.9*2, φ19.	1*3 (Brazing)	φ 19.1*2, φ 22.	2*3 (Brazing)			φ 22.2*2,φ 28.	6*3 (Brazing)		
Water piping	Water inlet			PT1 1/4B in	itenal thread				(PT1 1/4B) × 2	2 intenal thread		
connections	Water outlet			PT1 1/4B in	tenal thread				(PT1 1/4B) × 2	2 intenal thread		
Connections	Drain outlet			PS1/2B int	enal 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	5	i3	5	54	55	56
Operation range	(Inlet water temp.)	°C		10 t	o 45				10 t	to 45		
Capacity control		%	23-	100	19-	100	23-	100	20-100		19-100	
Defrieses	Туре			R-4	10A				R-4	10A		
Herrigerant	rigerant Charge	kg	3	.5	4	.2	3.5 -	+ 3.5	3.5 + 4.2		4.2 + 4.2	

MODEL			RWEYQ26TYM	RWEYQ28TYM	RWEYQ30TYM	RWEYQ32TYM	RWEYQ34TYM	RWEYQ36TYM		
			RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM		
Combination units			RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM		
			RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM	RWEYQ12TYM		
Power supply			3-phase	4-wire system, 380-415 V/380 V,	50/60 Hz	3-phase	e 4-wire system, 380-415 V/380 V,	50/60 Hz		
Btu/		Btu/h	248,000	268,000	287,000	305,000	324,000	345,000		
Cooling capacity		kW	72.8	78.4	84.0	89.5	95.0	101		
Heating consoits		Btu/h	278,000	300,000	322,000	345,000	365,000	386,000		
Heating capacity		kW	81.5	88.0	94.5	101	107	113		
Power	Cooling	kW	13.2	14.7	16.3	18.2	20.1	22.0		
consumption	Heating	kW	13.6	15.2	16.8	19.1	21.3	23.6		
Casing colour				Ivory white (5Y7.5/1)			Ivory white (5Y7.5/1)			
Dimensions (Hx)	W×D)	mm		$(1,000 \times 780 \times 550) \times 3$			$(1,000 \times 780 \times 550) \times 3$			
Communication	Туре		Hermetically sealed scroll type Hermetically sealed scroll type							
Compressor	Motor output	kW	$2.8 \times 2 + 3.7$	2.8 + 3.7 × 2	3.7 × 3	$3.7 \times 2 + 4.7$	$3.7 + 4.7 \times 2$	4.7 × 3		
Refrigerant piping	Liquid			∮19.1 (Flare)			∮19.1 (Flare)			
connections	Suction gas *1	mm								
Connections	High and low pressure gas			₱ 28.6*2, ₱ 34.9*3 (Brazing)						
Water piping	Water inlet			(PT1 1/4B) × 3 intenal thread			(PT1 1/4B) × 3 intenal thread			
connections	Water outlet			(PT1 1/4B) × 3 intenal thread			(PT1 1/4B) × 3 intenal thread			
COTTRECTIONS	Drain outlet			(PS1/2B) × 3 intenal thread			(PS1/2B) × 3 intenal thread			
Machine weight	Machine weight (Operating weight) kg		$146 \times 2 + 147 (148 \times 2 + 149)$	146 + 147 × 2 (148 + 149 × 2)	147 × 3 (149 × 3)		147 × 3 (149 × 3)			
Sound level			55	Ę	56		57	58		
Operation range	(Inlet water temp.)	°C		10 to 45			10 to 45			
Capacity control	pacity control % 21-100 20-100 19-100 19-100									
Refrigerant	Туре			R-410A			R-410A			
nemyerani	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			

1. Specifications are based on the following conditions; ·Cooling : Indoor temp. : 27°CDB, 19°CWB / inlet

water temp. :30°C, Equivalent piping length :
7.5 m, Level difference : 0 m.

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

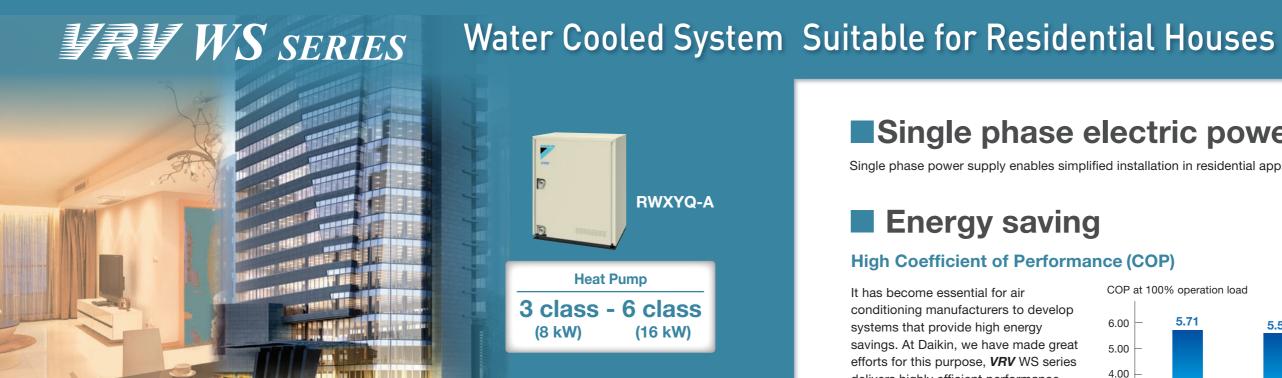
Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.
When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking

- soundproofing measures.

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

 3. Hold ambient temperature at 0 – 40°C and humidity at
- 80%RH or less. Heat rejection from the casing: 0.51 kW / 6 - 8 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



Easy installation & servicing

Compact and lightweight

The adoption of a new water heat exchanger and optimisation of the refrigerant control circuit has resulted in compact and lightweight design. The unit weight of 90 kg and height of 1,000 mm makes installation easy.

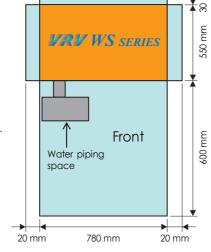
- * The unit is designed for indoor installation only.
- Small footprint & lightweight
- Minimal service & installation space required
- Stackable flat top design



Service space (Single installation)

- Service access from the front with minimal space required at rear of the condenser (30 mm)

Note: This is only applicable when drain pipe is connected to the front drain port. Please secure 500 mm rear service space if drain pipe is connected to the rear drain port.



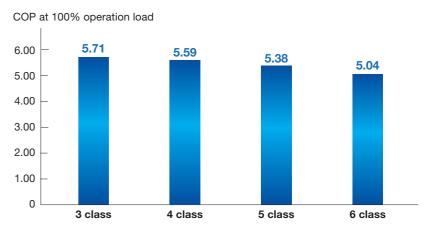
Single phase electric power supply

Single phase power supply enables simplified installation in residential applications.

Energy saving

High Coefficient of Performance (COP)

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



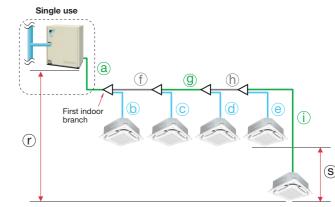
VRV WS SERIES

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

Long refrigerant piping length

Within the refrigerant piping system, a maximum of 120 m of actual piping length and 30 m of level difference between the VRV WS series and indoor units are possible. Water piping does not enter occupied spaces, so there is little chance of water leaking.

> **Actual piping length** Max. 120 m **Equivalent piping length** Max. 140 m **Total piping length** Max. 300 m



* Colours in the diagram above are merely for identifying pipes referenced with

		Actual piping length	Example	Equivalent piping length
	Refrigerant piping length	120 m	a+f+g+h+i	140 m
Max. allowable piping length	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	_
Max. allowable level difference	Between the indoor units	15 m	S	_
wax. allowable level unference	Between the outside units and the indoor units	30 m	r	



■ Tube-in-Tube Type Heat Exchanger

The Tube-in-Tube type heat exchanger with refrigerant lines spiraling around the water circuit in a counter flow design delivers superior heat exchange. While the inner groove structure of the water circuit lowers risk of blockage and delivers optimal performance.



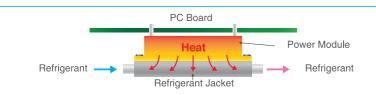
Tube in tube structure for simple installation and maintenance



Use of copper pipes enhances tolerance against corrosive effects of chloride ions

Refrigerent cooling technology

By introducing refrigerant cooling for **VRV** WS's inverter power module, heat rejected from the unit to machine room can be significantly reduced. This also helps to keep the unit operation stable even at high ambient temperature and reduces PCB failure ratio.



The main heat generating parts (inverter power module) in the electric component is adopted to reduce the size of the refrigerant cooling technology. Heat rejection from casing: 0.21 kW/3 class, 0.28 kW/4 class, 0.31 kW/5 class, 0.35 kW/6 class.



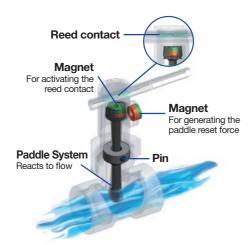
Easy maintenance

The electrical components are strategically located at the front which eases the maintenance process. Moreover, the major components are also designed in a way that they can be accessed from front for maintenance.



Built in water flow switch

Mechanical water flow switch is built into the system to enhance system reliability.



Standard water strainer

A standard water strainer is provided together with the unit as an accessory item. This reduces the additional cost and installation time at field. A standard water reduces installation time.



■ Enhanced range of choices

													New	lineup		
			20	25	32	40	50	63	71	80	100	125	140	145	160	180
Туре	Model Name	Capacity Range(kW)	2.2	2.8	3.6	4.5	5.6				11.2	14		16.2	18	20
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVM														! ! ! !	
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE														1	
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB											 			 	
4-Way Flow Ceiling Suspended	FXUQ-AVEB					1			•						1	
Ceiling Mounted Cassette (Double Flow)	New FXCQ-AVM														1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36														1	
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-TV1B(A)		•	•		•	•	•							1	
Slim Ceiling Mounted Duct	FXDQ-PDVE	(700mm width type)				1									 	
(Standard Series)	FXDQ-NDVE	(900 / 1,100mm width type)						•								
Ceiling Concealed Duct	FXDYQ-MAV1									•	•	•				
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVE		•			•	•	•			•	•	•		1	
Ceiling Mounted	FXMQ-PAVE		•	•	•			•		•			•		 	
Duct	FXMQ-PV1A					 									•	
Ceiling Suspended	FXHQ-MAVE			 		: : : : : :										
	New FXHQ-AVM					 									! ! ! !	
Wall Mounted	New FXAQ-AVM						•				1	 				
Floor Standing	FXLQ-MAVE				•										1	
Concealed Floor Standing	FXNQ-MAVE				•											1

Specifications

VRV WS SERIES

VRV WS Series Outside Units

RWXYQ-A

Heat Pump

				1				
MODEL			RWXYQ3AV1	RWXYQ4AV1	RWXYQ5AV1	RWXYQ6AV1		
Power supply				1-Phase, 220	-240 V, 50 Hz			
Cooling capacity			27,300	38,200	47,800	54,600		
Cooling capacity		kW	8.0	11.2	14.0	16.0		
Heating consoits		Btu/h	30,700	42,700	54,600	61,400		
Heating capacity		kW	9.0	12.5	16.0	18.0		
Power	Cooling	kW	1.40	2.00	2.60	3.17		
consumption	Heating	kW	1.60	2.10	2.60	2.80		
Casing colour			Ivory white (5Y7.5/1)					
Dimensions (H×V	V×D)	mm		1,000×7	'80×550			
Compressor	Туре		Hermetically sealed swing type					
Compressor	Motor output	kW	1.92					
Refrigerant piping	Liquid	mm		φ 9.5 (Flare)				
connections	Suction gas			<i>ϕ</i> 15.9	(Flare)			
	Water inlet			PT1B external thread		PT1 1/4B external thread		
Water piping connections	Water outlet			PT1B external thread		PT1 1/4B external thread		
	Drain outlet			PS1/2B inte	ernal thread			
Machine weight		kg	90	9	4	99		
Sound level		dB(A)	48		50			
Sound power		dB(A)	66		68			
Operation range (Inlet water temp.) °C			15 to 45 (Range for continuous operation)					
Capacity control		%	20-100					
Type		R-410A						
Refrigerant	Charge	kg	2.2	2	.4	2.7		
Rated water flow (Range of water flow)		L/min	30 (15 to 45)	40 (20 to 60)	50 (25 to 75)	57 (28.5 to 85.5)		

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

Cooling: Indoor temp.: 27°CDB, 19°CWB / inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Level difference: 0 m. Heating: Indoor temp.: 20°CDB / inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Level difference: 0 m. 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 and oil recovery mode.

When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).
 Hold ambient temperature at 0-40°C and humidity at 80% RH or less.

Heat rejection from the casing: 0.21 kW/3 class /hour, 0.28 kW/4 class /hour, 0.31 kW/5 class /hour, 0.35 kW/6 class /hour

Outside Unit Combinations

				Total capacity	index of connectab	le indoor units	Maximum number of		
Model name	kW	kW class Capacity index Combination (%)					Maximum number of connectable indoor units		
		50% 100% 130%				130%			
RWXYQ3A	8.0	3	75	37.5	75	97.5	4		
RWXYQ4A	11.2	4	100	50	100	130	6		
RWXYQ5A	14.0	5	125	62.5	125	162.5	8		
RWXYQ6A	16.0	6	150	75	150	195	9		

Note: Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outside unit.

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.





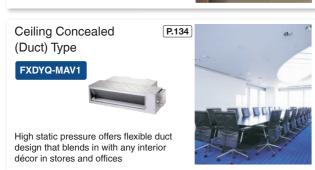




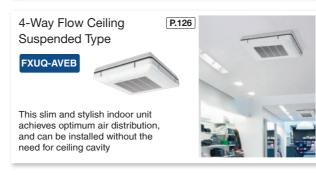
















Mounted Duct Type

allow flexible installations

FXSQ-PAVE







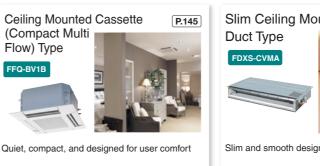








Residential indoor units with connection to BP units







Air treatment equipment



Heat Reclaim Ventilator

VAM-GJVE



Ceiling Mounted Cassette (Round Flow with Sensing) Type

FXFSQ-A

Round flow with sensing



Panel variations (Option)

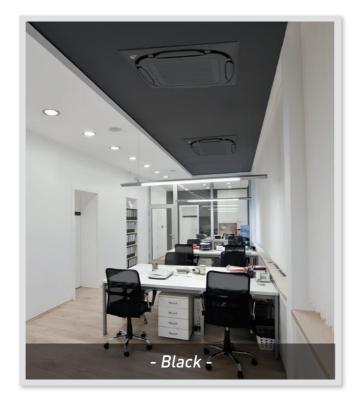


Standard panel with sensing BYCQ125EEF (Fresh White)



Standard panel with sensing BYCQ125EEK (Black)





Specifications

Ceiling Mounted Cassette (Round Flow with Sensing) Type

	MOD	EL		FXFSQ25AVM	FXFSQ32AVM	FXFSQ40AVM	FXFSQ50AVM	FXFSQ63AVM	FXFSQ80AVM	FXFSQ100AVM	FXFSQ125AVM	FXFSQ140AVM
Power supply	у						1-phase, 22	0-240 V/220-230	0 V, 50/60 Hz			
Cooling capacity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600	
		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0	
Heating cone	oit.		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,	600
Heating capa	ICILY		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16	6.0
Power consur		Cooling	kW	0.0	28	0.035	0.056	0.061	0.092	0.164	0.170	0.194
Power consur	приоп	Heating	KVV	0.0	126	0.034	0.056	0.060	0.092	0.144	0.159	0.183
Casing							Ga	lvanised steel pl	ate			
A: 0 . 0			ℓ/s	217/208/19	92/183/167	283/225/208/ 200/183	383/342/317/ 242/183	392/350/333/ 267/225	408/367/342/ 333/250	558/508/450/ 392/350	575/525/475/ 425/383	592/542/492/ 442/383
Airflow rate (F	H/HM/M	I/ML/L)	m³/min	13/12.5/1	1.5/11/10	17/13.5/12.5/ 12/11	23/20.5/19/ 14.5/11	23.5/21/20/ 16/13.5	24.5/22/20.5/ 20/15	33.5/30.5/27/ 23.5/21	34.5/31.5/28.5/ 25.5/23	35.5/32.5/29.5 26.5/23
Sound level (I	H/HM/N	1/ML/L)	dB(A)	30/29.5/2	8.5/28/27	35/29.5/29/ 28/27	38/35/34.5/ 29.5/27	38/36/35.5/ 31.5/28	39/37/36/ 35.5/31	44/41/38/ 35/33	45/42.5/39.5/ 37/35	46/43.5/40.5/ 38/35
Dimensions (H×W×D) mm		mm			256×84	40×840				298×840×840		
Machine weig	fachine weight		kg		19		24	2	22	2	5	26
	Liquid (Flare)			φ e	5.4	•			<i>∲</i> 9.5			
Piping connections	Gas (Fla	are)	mm		<i>\$</i> 1:	2.7				\$ 15.9		
	Drain					VP25 (Exte	rnal Dia. 32/Inter	rnal 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 indox. (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.

Decoration Panel (Option)

Standard	Model		BYCQ125EEF (Fresh White) / BYCQ125EEK (Black)
panel with	Dimensions(H×W×D)	mm	50×950×950
sensing			5.5

Function List

Remote controller	Wired	BRC1E63	_
Remote controller	Wireless	-	BRC7M634F(K)
Dual sensors		0	
Direct airflow		0	
Sensing sensor low mo	ode	0	
Sensing sensor stop m	ode	0	
Circulation airflow		0	
Individual airflow direct	tion control	0	
Switchable 5 step fan s	speed	0	0
Auto airflow rate		0	0
Auto swing		0	0
Swing pattern selection		0	0
High ceiling application		0	

*8. Airflow direction shoud be set to "Auto".

■ Draft prevention function (default: OFF) Heating

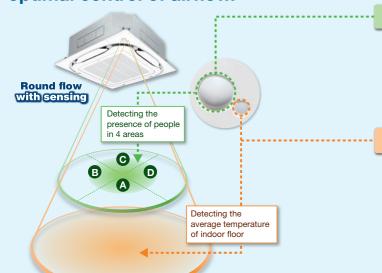
FXFSQ-A

Ceiling Mounted Cassette (Round Flow with Sensing) Type

Daikin Advanced Sensing Functions¹

Dual sensors*1

Dual sensors and individual airflow direction control automatically provide optimal control of airflow.



Infrared presence sensor

The 4 sensors detect human presence

Ceiling height	2.7m	3.5m	4.0m
Detection range	approx.	approx.	approx.
(diameter)*2	8.5m	11.5m	13.5m

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

Infrared floor sensor

reduced in plac

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	approx.	approx.	approx.
(diameter)*3	11m	14m	16m

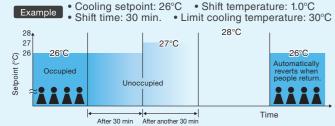
*3. The infrared floor sensor detects at the floor surface

Sensing sensor functions*4*5

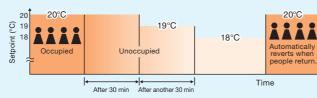
Sensing sensor low mode (default: OFF)

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.



Heating setpoint: 20°C • Shift temperature: 1.0°C • Heating serpoint. 20 0 - Shift time: 16°C
• Shift time: 30 min. • Limit heating temperature: 16°C



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

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

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

Sensing sensor stop mode (default: OFF)

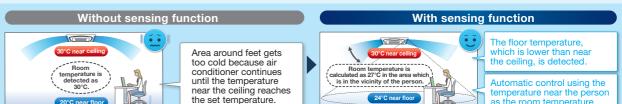
When there are no people in a room, the system stops automatically. 617

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

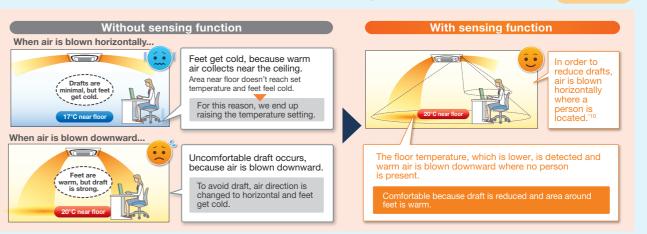
- *4. These functions are not available when using the group control system
- *5. User can set these functions with remote controlle
- *6. Please note that upon re-entering the room, air conditioner will not switch on automatically
- *7. To protect the machine, the standby system may operate temporarily

Optimal air direction by "Auto With Auto airflow direction With Auto airflow direction When human is detected. mode, flaps are controlled to air direction is set to mode, flaps are controlled to drafts are prevented by deliver optimal airflow when "Swing (narrow)" to deliver deliver optimal airflow when making the flap horizontal the room is unoccupied cool air to users the room is unoccupied When human is not detected for 5 minutes, the unit automatically returns to controlling the flaps for an unoccupied room. Comfort and energy saving preventing over cooling/heating*9 Floor temperature is detected and over cooling prevented. Cooling



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.

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



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

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.

*10. Draft prevention function is set OFF in the initial setting.

Auto airflow function*8

Direct Airflow Cooling

FXFSQ-A

When the target temperature is reached, normal

operation

(all-round flow)

Circulation Airflow^{1,2}

Cooling



*1. Applicable when wired remote controller BRC1F63 is used. *2. Not applicable when using individual airflow direction control.

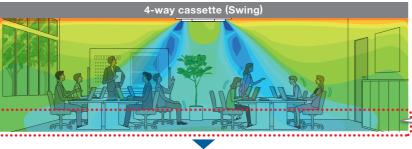
Heating Circulation airflow warms the entire room starting from your feet.



CoolingHeatingComfort to the entire room with even temperatures and no cold air pockets at floor level

Ceiling Mounted Cassette (Round Flow with Sensing) Type

Cooling



Width 7.5m x depth 7.5m x height 2.6m ■ Indoor unit capacity:71 class Outdoor air temperature:35°C
Airflow rate and air direction:

Areas at floor level are

cold while areas around walls are hot.



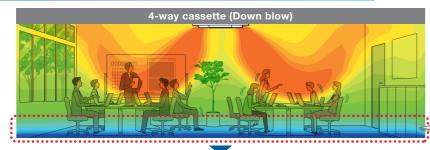
Approx. 5% energy savings by reducing uneven temperatures

*3.Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor reaches set temperature. (26°C)

> Full comfort is provided with no cold feet.

Entire room evenly comfortable: warmth reaches feet

Heating



Comparison Conditions

Width 7.5m x depth 7.5m x height 2.6m

■ Indoor unit capacity:71 class Outdoor air temperature:5C Airflow rate and air direction high / Down blow

Areas around walls and feet are cold.



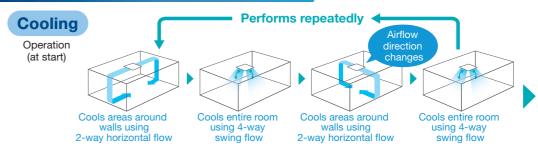
Approx. 15% energy savings by reducing uneven temperatures

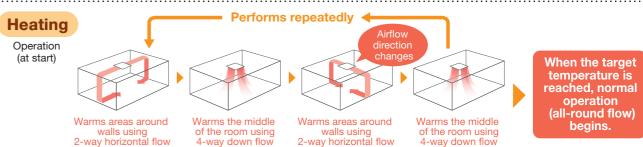
*4.Calculated under the following When the average temperature at a height of 0.6m above the floor reaches set temperature. (22°C)

Areas around walls and feet are warm.

Configurations of Circulation Airflow

Note: Results may vary depending on equipment conditions.

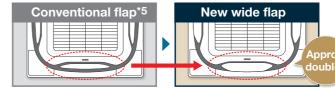




Three Technologies That Achieved Circulation Airflow



With new, larger flaps, a straighter trajectory for airflow was achieved.



5. FXFQ-S model

New wide flap construction inhibits ceiling dirt and grime. By tapering both flap ends, the airflow that causes dirty ceilings is



Optimizing airflow angle (Horizontally)

The airflow angle was made more horizontal.





A more horizontal 20° flow is realized.

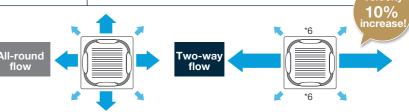
3 Increased velocity in

directed downward.

2-way flow (Strongly)

Velocity increased by making 2-way flow. Powerful airflow was realized.

*6.Other 2 outlets are controlled by changing the flap direction (angle) to suppress airflow volume.



[Table 1]

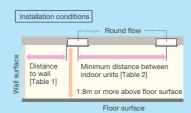
Things to remember when using circulation airflow

Main points for use

• Effectiveness may differ according to room conditions, room size, and distance to walls.

Circulation airflow functions during connection with wired remote controller (BRC1E63). However, use is not possible for the following conditions:

When a sealing material of air discharge outlet and branch ducts are used;
 When individual airflow setting is selected;
 When using group control other than round flow.



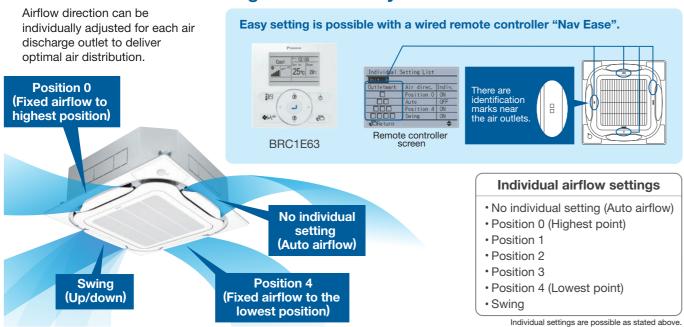
Distance to	wall from indoo	r unit							
Indoor unit capacity	FXFSQ 25-50	FXFSQ 63/80	FXFSQ 100-140						
Distance range	1.5m-4m	1.5m-5m	1.5m-7m						
[Table 2] Minimum distance between indoor units									
Indoor unit Capacity 25-50 63/80 100-140									

Minimum distance 4m or more 5m or more 7m or more

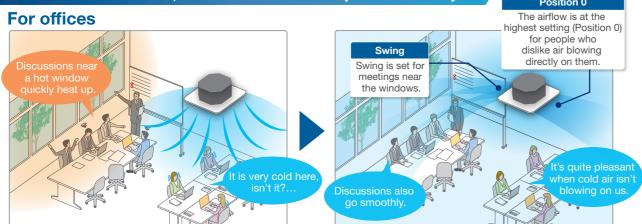
Ceiling Mounted Cassette (Round Flow with Sensing) Type

Individual Airflow Direction Control^{*1}

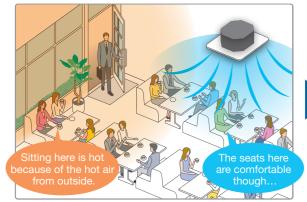
Comfortable air conditioning for all room layouts and conditions

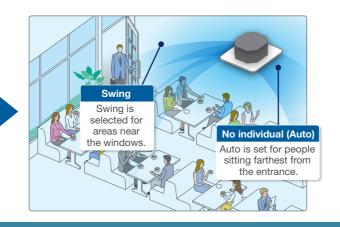


When individual airflow is selected, airflow direction can be adjusted to room layout.



For shops and restaurant



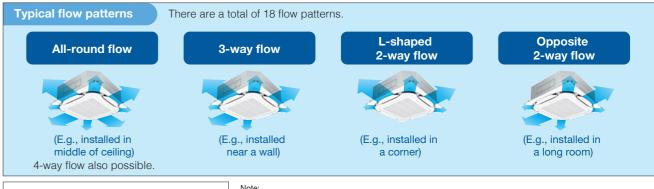


Other Functions

Comfort

360° Airflow & Selectable Airflow Pattern

Indoor unit offers 360° airflow discharges air in all directions with more uniform temperature distribution. Because air flows out from corner outlets, comfort spreads more widely.



Required distance to wall surface for closing air discharge outlet



- 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.
- Operation sound increases when using 2-way or 3-way flow.

Optimal comfort and convenience assured by 3 air discharge modes

Air direction	Standard setting ¹	Draft prevention setting (field setting)	Ceiling soiling prevention setting ² (field setting)
Desired situation	For gentle drafts.	When drafts are unwanted.	For shops with light coloured ceilings that must be kept spotless.
Auto-swing			
5-level air direction setting			
Auto air direction control		The air direction is set automatically position of the previous air direction	

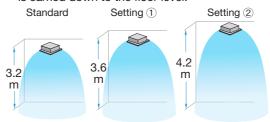
¹Air direction is set to the standard position when the unit is shipped from the factory. The position can be changed from the remote ²Closing of the corner discharge outlets is

Switchable fan speed: 5 steps and Auto

Control of airflow rate has been improved from 3-step to 5-step. Auto airflow rate is newly available.

Suitable for high ceilings

Even in spaces with high ceilings, a comfortable airflow is carried down to the floor level.



When all round flow is selected, ceilings up to 4.2 m in height can be accommodated. (FXFSQ100-140A)

■Criteria for ceiling height and number of air discharge outlets (Ceiling height is reference value)

			Number of air discharge outlets used							
		FXFSQ25-80A				F)	FXFSQ100-140A			
		All round flow	4-way flow	3-way flow	2-way flow	All round flow	4-way flow	3-way flow	2-way flow	
0 :::	Standard	2.7 m	3.1 m	3.0 m	3.5 m	3.2 m	3.4 m	3.6 m	4.2 m	
Ceiling	height High ceiling 1 High ceiling 2									
neight			4.0 m	3.5 m	_	4.2 m	4.5 m	4.2 m	_	

- Factory settings are for standard ceiling height and all-round flow
- High ceiling settings (1) and (2) are set with the remote controller by field setting.
- · High-efficiency filters are not available for high ceiling applications.

Indoor Unit Lineup

Ceiling Mounted Cassette (Round Flow with Sensing) Type

FXFSQ-A

Quick and Easy Installation

Lightweight

All models can be installed without using a lifter.

Indoor Unit Lineup

Installable in tight ceiling spaces

261 mm (25-80A) 256 mm (25-80A) 303 mm (100-140A) 298 mm (100-140A)

Easy removal of corner cover

It is possible to easily remove without use of screws or tools.



Easy height adjustment

Each corner of the unit has an adjuster pocket that lets you easily adjust the unit's suspended height.

If the wireless remote controller is installed. a signal receiver unit is housed in one of the adjuster pockets

Temporary placement

Because the control box lid can be temporarily hung

on the unit, there is no need to climb down the

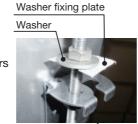
of control box lid

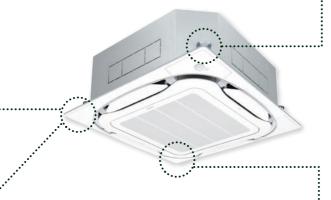
stepladder to retrieve it.



Easy hanging

Washer fixing plates secure washers in place and prevent washers from falling for easy installation.





Ease in temporary hanging of decoration panel

In addition to the temporary hanging fixtures in 2 places normally used, corner part mounting fixtures in 4 places are provided.



Drain pump

Equipped as standard accessory with 850 mm lift.



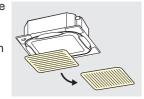
Transparent drain socket



Installed in any direction

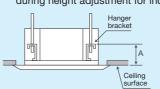
Since the orientation of the suction grille can be adjusted after installing, the direction of the suction grille lines can be unified when multiple units are installed.

The detached lid can



Hanging height adjustment

Because the configuration of the hanger bracket changed, the dimensions from the ceiling to the hanger bracket also change during height adjustment for indoor unit.

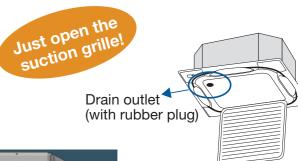


		A Dimensions	
S	tandard panel	125-130mm	
C	hamber option*+ standard panel	175-180mm	
	ligh-efficiency filter, ultra long esh air intake	g-life filter, and	

Easy Maintenance

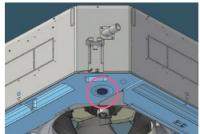
Drain pan and drain water check

The condition of the drain pan and drain water can be checked by removing the suction grille and drain plug.



24 mm diameter drain outlet

The drain outlet allows insertion of a finger or dental mirror for inspection of the internal cleanliness of the drain pan. Removal of the suction panel enables access.



Ultra long-life filter (option)

See page 190

Maintenance is not required in normal shops or offices for up to four years.

Cleanliness

Silver ion anti-bacterial drain pan

A built-in antibacterial treatment that uses silver ion in the drain pan prevents the growth of slime, bacteria, and mould that cause odours and clogging.

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





Non-flocking flaps

Flaps can be detached without use of tools. Condensation does not easily form and dirt does not cling to non-flocking flaps. They are easy to clean.



Filter has anti-mould and antibacterial treatment

Prevents mould and microorganisms growing out of the dust and moisture that adheres to the filters

Ceiling Mounted Cassette (Round Flow) Type

FXFQ-P

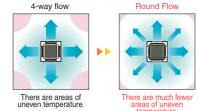
360° airflow improves temperature distribution and offers a comfortable

living environment.

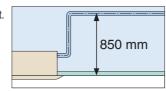


● The industry's first* Round Flow Ceiling Mounted Cassette type offers 360° airflow with improved temperature distribution.

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



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



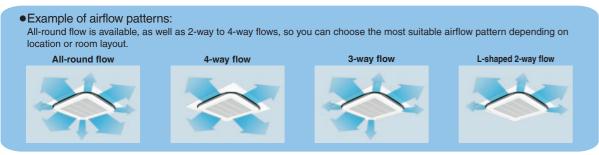
• A modern sophisticated decoration panel has been applied, with a panel surface that has been treated with a dirt-repellant coating.



- 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.



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	L		FXFQ25PVE	FXFQ32PVE	FXFQ40PVE	FXFQ50PVE	FXFQ63PVE	FXFQ80PVE	FXFQ100PVE	FXFQ125PVE	
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz								
Cooling copes	sits /		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	
Cooling capacity kW		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0		
Heating capacity Btu/h kW		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 Heating		Cooling	kW	0.0	33	0.047	0.052	0.066	0.093	0.187	0.209	
		Heating	kW	0.0	27	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		
Alfilow rate (H	In/n/L)		m³/min	13/11.5/10		15/13/11	16/13.5/11	19/16.5/13.5	21/18/15	32/26/20	33/28/22.5	
Sound level (H	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	H×W×D)		mm	246×840×840 288×840×840								
Machine weig	ht		kg	19.5					22		25	
5	Liquid ((Flare)			∮ 6	.4		φ9.5				
Piping connections	Gas (F	lare)	mm		<i>φ</i> 12	2.7		φ15.9				
00000	Drain					VP2	5 (External Dia	32/Internal Dia	. 25)			
	Model						BYCP1:	25K-W1				
Panel Colour							Fresh	Fresh white				
(Option)	Dimension	s(H×W×D)	mm				50X95	0X950				
	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°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

Indoor Unit Lineup

Ceiling Mounted Cassette (Compact Multi Flow) Type

FXZQ-A2

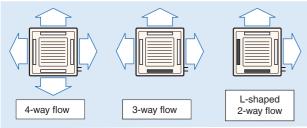
Quiet, compact, and designed for user comfort



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

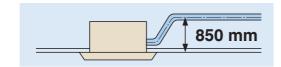


•2-, 3-, and 4-way airflow patterns are available, enabling installation in the corner of a room



*For 3-way or 2-way flow installation, the sealing material for air discharge outlet

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



•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-pha	ase, 220-240 V/220 V, 50/	60 Hz				
Cooling conce	sits		Btu/h	7,500	9,600	12,300	15,400	19,100			
Cooling capacity		kW	2.2 2.8		3.6	4.5	5.6				
Heating capac	Heating consoits		Btu/h	8,500 10,900		13,600	17,100	21,500			
Treating capac	Jity		kW	2.5	3.2	4.0	5.0	6.3			
Power concur	ontion	Cooling	kW	0.0)43	0.045	0.059	0.092			
Power consumption Heating		leating	kW	0.0	036	0.038	0.053	0.086			
Casing					Galvanised steel plate						
Airflow rato (H	Airflow rate (H/M/L)		ℓ/s	145/125/108	150/133/108	167/142/117	192/158/133	242/208/167			
All low rate (I	1/1V1/L)		m³/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	H/M/L)		dB(A)	32/29.5/25.5	33/30/25.5	33.5/30/26	37/32/28	43/40/33			
Sound power	(H)		dB(A)	49	50	51	54	60			
Dimensions (H	H×W×D)		mm	260×575×575 (For depth add 63mm for electrical box)							
Machine weig	ht		kg	15	5.5	16	6.5	18.5			
D' . '	Liquid ((Flare)				∮ 6.4					
Piping connections	Gas (FI	lare)	mm			∮ 12.7					
00111100110110	Drain				VP20 (External Dia. 26/Internal	Dia. 20)				
	Model					BYFQ60C2W1W					
Panel Colour				White (N9.5)							
(Option)	Dimensions	s(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°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.

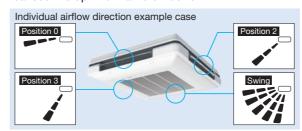
During actual operation, these values are normally somewhat higher as a result of ambient conditions

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 BRC1E63, 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 BRC1E63.



• 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

N	MODEL		FXUQ71AVEB	FXUQ100AVEB			
Power supply			1-phase, 220-240 V/220	-230 V, 50/60 Hz			
Cooling capacit	Cooling capacity Btu		27,300	38,200			
k		kW	8.0	11.2			
Heating capacit		Btu/h	30,700	42,700			
reading capacity		kW	9.0	12.5			
Power consump	Cooling	kW	0.090	0.200			
Power consump	Heating	kW	0.073	0.179			
Casing			Fresh white				
Airflow rate (H/N	4/1)	ℓ/s	375/325/267	517/433/350			
All llow rate (11/1)	n/ L)	m³/min	22.5/19.5/16	31/26/21			
Sound level (H/N	И/L)	dB(A)	40/38/36	47/44/40			
Sound power (H	/M/L)	dB(A)	58/56/54	65/62/58			
Dimensions (Hx	W×D)	mm	198×950×9	950			
Machine weight		kg	26	27			
I	_iquid (Flare)		φ9.5				
Piping connections	Gas (Flare)	mm	<i>φ</i> 15.9				
	Orain		VP20 (External Dia. 26/	nternal Dia. 20)			

Note: Specifications are based on the following conditions:

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 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



Stylish unit blends easily with any interior. Integrated ceiling surface with sophisticated panel design with the adoption of flat flap.

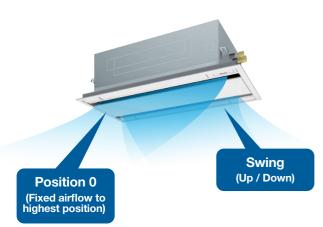


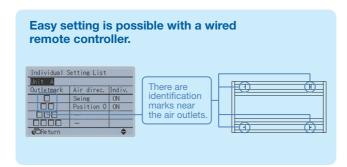
New panel design

- •This model features a stylish flat panel with fresh white colour for a new sophisticated appearance.
- The flat flaps close entirely when the unit is not operating and there are no air intake grilles visible.

Individual Airflow Direction Control *1

- Airfow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.
- *1. Applicable when wired remote controller BRC1E63 is used.





Individual airflow settings

- No individual setting (Auto airflow) Position 0 (Highest point) • Position 1 • Position 2 Position 3
- Position 4 (Lowest point) Swing

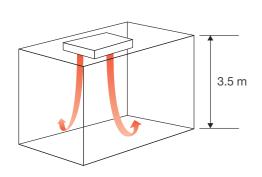
Individual settings are possible as stated above.

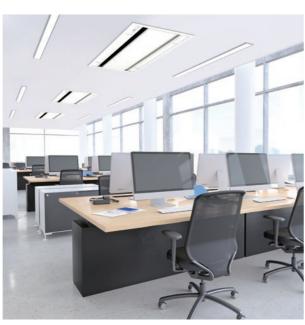
Switchable fan speed: 5 steps and Auto

• Control of airflow rate has been improved from 3-step to 5-step. Auto airflow rate is newly available.

Suitable for high ceilings

• Even in spaces with high ceilings maximum 3.5 m, a comfortable airflow is carried down to the floor level.

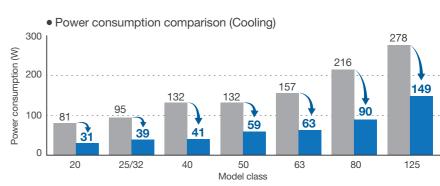




Energy saving: Reduction of energy consumption

 Power consumption is significantly reduced by specially developed small tube heat exchanger and DC fan motor.





Enhanced functions from various aspects such as maintenance

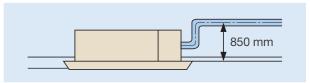
- The flap parts are easy to clean because it is hard to condensate and get dirty.
- Check contamination in drain pan by simply remove suction
- Equipped with long life filter which requires only 1-year maintenance interval.
- Adjuster pockets mount at four corners of the unit enable to adjust the main unit without removing the panel.



 Easy visual inspection of drainage through the transparent body drain socket. Drain socket part



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



 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

Оробі											
	MOI	DEL		FXCQ20AVM	FXCQ25AVM	FXCQ32AVM	FXCQ40AVM	FXCQ50AVM	FXCQ63AVM	FXCQ80AVM	FXCQ125AVM
Power supply	у			1-phase, 220-240 V/220-230 V, 50/60 Hz							
Cooling cond	Capling consoits Btu/h		7,500	7,500 9,600 12,300		15,400	19,100	24,200	30,700	47,800	
Cooling capa	acity		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity Btu/h			Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100	54,600
rieating capa	acity		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power consu	ımntion	Cooling	kW	0.031	0.0	39	0.041	0.059	0.063	0.090	0.149
rower consu	iiiptioii	Heating	KVV	0.028	0.028 0.03		0.037	0.056	0.060	0.086	0.146
Casing				Galvanised steel plate							
Airflow rate (I	LI/LINA/NA/	ML/L)	l/s	175/158/150/133/125	175/158/150/133/125 192/175/158/142/133		200/183/175/158/142	250/233/217/192/175	267/250/233/208/192	433/400/375/342/308	533/492/458/417/375
Alfilow fale (□/ □ IVI/ IVI/	VIL/L)	m³/min	10.5/9.5/9/8/7.5	11.5/10.5/9.5/8.5/8		12/11/10.5/9.5/8.5	15/14/13/11.5/10.5	16/15/14/12.5/11.5	26/24/22.5/20.5/18.5	32/29.5/27.5/25/22.5
Sound level (H/HM/M/	ML/L)	dB(A)	32/31/30/29/28	34/33/31/30/29	34/33/32/31/30	36/35/33/32/31	37/36/35/33/31	39/38/37/35/32	42/40/38/36/33	46/44/42/40/38
Dimensions ((H×W×D)		mm	305x775x620			305x99	90x620	305x1,445x620		
Machine wei	ght		kg		1	9		22	25	33	38
D: :	Liquid (Flare)				<i>∲</i> 6.4				<i>ф</i> 9.5	
Piping connections	Gas (Fla	are)	mm			<i>φ</i> 12.7				<i>∲</i> 15.9	
COMMODIONS	Drain					VP2	5 (External Dia.	32/Internal Dia	a. 25)		
	Model	Model		BYBCQ40CF				BYBC	Q63CF	BYBC	Q125CF
Panel	Colour	Colour		Fresh white (6.5Y 9.5/0.5)							
(Option)	Dimensio	ns (H×W×D)	mm		55x1,0	70x700		55x1,285x700		55x1,740x700	
	Weight		kg		1	0		1	1	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°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.)

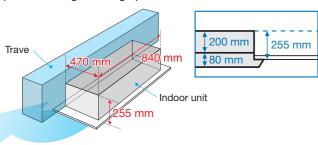
 •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 - During actual operation, these values are normally somewhat higher as a result of ambient conditions

Ceiling Mounted Cassette (Single Flow) Type

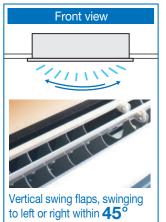
FXEQ-A

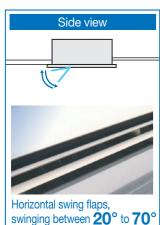
Slim design for flexible installation

•The body features a compact design with a height of just 200 mm and depth 470 mm, making the installation possible in tight ceiling spaces.



•The swinging of horizontal and vertical swing flaps can be adjusted freely with the remote controller, providing 3D airflow to every corner of the room.





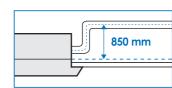
- ●Control of airflow rate can be selected from 5-step control and quiet operation mode, which provides comfortable airflow.
- •DC motor is adopted both in the fan and drain pump of the indoor unit, not only enhancing the energy saving performance, but also reducing the operating sound and the vibration incurred to the unit.
- •While creating a cozy indoor environment, the unit can prevent the suspended ceiling from being soiled by adjusting its louvre angle.



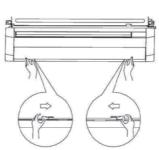
•The novel smooth panel design makes dust difficult to accumulate, thus causing the cleaning more conveniently.



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



Servicing of common parts such as the control box etc. can be performed easily only with the suction panel removed.





New Remote Controller (Option)

■ Wireless Remote Controller

- •Stylish new design giving more satisfaction of ownership
- •Comes in white colour
- •User-friendly buttons with new functions such as 2 flaps control, 5-step airflow control, automatic airflow
- •Back light function helps operating in dark rooms





LCD Backlight

The LCD panel lights up during use, making the remote controller easy to handle even in dark.

■ Navigation Remote Controller (Wired Remote Controller)

New functions such as 2 flaps control, 5-step airflow control, automatic airflow can be also adjusted with the new wired remote controller.





Specifications

	MOD	DEL		FXEQ20AV36	FXEQ25AV36	FXEQ32AV36	FXEQ40AV36	FXEQ50AV36	FXEQ63AV36		
Power supp	ly			1-phase, 220-240 V, 50 Hz							
0 "	٠.,		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200		
Cooling cap	acity		kW	2.2	2.8	3.6	4.5	5.6	7.1		
	:4		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300		
Heating cap	acity		kW	2.5	3.2	4.0	5.0	6.3	8.0		
Power		Cooling	kW	0.026	0.027	0.034	0.046	0.048	0.067		
consumptio	n [Heating	KVV	0.022	0.023	0.030	0.042	0.044	0.063		
Casing						Galvanised	steel plate				
		Cooling	ℓ/s	100/90/82/73/67	115/107/97/88/80	133/125/117/105/92	163/147/130/117/103	208/190/173/158/145	250/227/203/183/163		
Airflow rate		Cooling	m³/min	6.0/5.4/4.9/4.4/4.0	6.9/6.4/5.8/5.3/4.8	8.0/7.5/7.0/6.3/5.5	9.8/8.8/7.8/7.0/6.2	12.5/11.4/10.4/9.5/8.7	15.0/13.6/12.2/11.0/9.8		
(H/HM/M/M	L/L) [Heating	l/s	100/93/85/78/70	120/112/102/93/83	143/133/123/112/100	170/155/140/127/113	233/213/193/178/163	282/255/227/205/183		
		rieating	m³/min	6.0/5.6/5.1/4.7/4.2	7.2/6.7/6.1/5.6/5.0	8.6/8.0/7.4/6.7/6.0	10.2/9.3/8.4/7.6/6.8	14.0/12.8/11.6/10.7/9.8	16.9/15.3/13.6/12.3/11.0		
Sound level		Cooling	4D(A)	30/29/28/27/26	32/31/30/29/28	35/34/33/32/30	38/37/35/33/31	38/37/35/33/31	43/41/39/37/35		
(H/HM/M/M	L/L) [Heating	dB(A)	33/31/29/28/26	35/33/31/30/28	38/36/34/33/31	41/39/37/35/33	41/39/37/36/34	46/44/42/40/38		
Dimensions	(H×W	/×D)	mm		200×84	10×470		200×1,240×470			
Machine we	ight		kg		17		18	2	3		
D: :	Liqui	id (Flare)				<i>ϕ</i> 6.4			≠ 9.5		
Piping connections	Gas	(Flare)	mm			<i>∲</i> 12.7			≠ 15.9		
COLLICCTIONS	Drair	n									
Model		lel		BYEP40AW1 BYE					63AW1		
Panel	Colo	ur		Fresh white							
(Option)	Dimens	sions(H×W×D)	mm		80×95	80×1,350×550					
	Weig	ght	kg		8	.0		10.0			

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°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 m in front of the unit and 1 m downward.

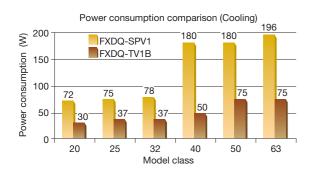
Slim Ceiling Mounted Duct Type (Compact Series)

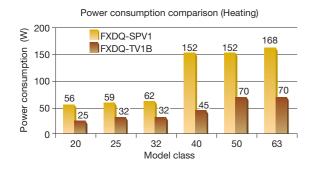
FXDQ-T

Slim and compact design for easy and flexible installation

DC Fan Motor / DC Drain Pump

Adoption of a DC motor for both the fan motor and the drain pump has greatly reduced power consumption and also operation noise.



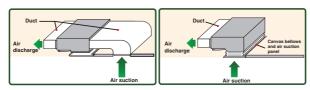




 Slim and compact design with a height of only 200 mm allows for installation in drop ceilings with ceiling voids of as little as 240 mm in height. The depth is also only 450 mm making it suitable for installation in limited spaces such as wardrobes.



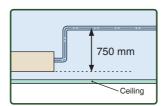
• Features rear or bottom return to suite site constraints.



Air filter included

Clip-on resin net filter attached to the rear of the unit as standard.

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



Auto & 5-step Airflow Control

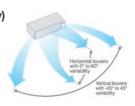
Airflow rate can be selected from 5 Steps and AUTO airflow mode. AUTO will automatically regulate the airflow rate in accordance to the difference between room temperature and set temperature.



*Wireless remote controller does not have AUTO airflow mode. Use wired remote controller to select AUTO airflow mode

3-D Auto Swing Discharge Grille (Optional Accessory)

Motorised louvres provide 3-D airflow distribution for improved air circulation. Operations via BRC1E63 with functions including 3-D Auto Swing, Horizontal Auto Swing, Vertical Auto Swing & Fixed Positioning.

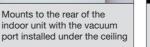


Model	Compatibility	HxWxD (mm)		
BDG20A09	20-32 Class	180x722x70		
BDG20A15	40-50 Class	180x922x70		
BDG20A20	63 Class	180x1,122x70		

Auto Clean Air Filter Module (Optional Accessory)

A unique rear suction mounted motorised filter cleaning module with included polyester filter for convenient filter maintenance. Scheduled automatic filter cleaning occurs once a week during non operational hours of the indoor unit (set via BRC1E63) to ensure optimal performance and increased energy savings.







Cleaning unit moves across the filter removing dust which is collected in the dust box



emptied by vacuuming out the dust via the vacuum port



Model	Compatibility	HxWxD (mm)		
BAE20A62	20-32 Class	210x840x188		
BAE20A82	40-50 Class	210x1,040x188		
BAE20A102	63 Class	210x1,240x188		

Two Series Available

FXDQ-TV1B - Standard Model FXDQ-TV1BA - Features Built-in Multi Tenancy Kit

This kit allows an independent 24V power source to be supplied to the indoor unit PCB in conjunction with 1 phase power from the tenants board. This ensures critical operations, such as oil return are not affected should there be an interruption to the main indoor unit power.

Specifications

N	IODEL		FXDQ20TV1B(A)	FXDQ25TV1B(A)	FXDQ32TV1B(A)	FXDQ40TV1B(A)	FXDQ50TV1B(A)	FXDQ63TV1B(A)				
Power supply			1-phase, 220-240 V, 50 Hz									
0 "	.,	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200				
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1				
Heating capacity		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	Coolir	g,	0.030	0.0	037	0.050	0.0	75				
consumption	Heatir	g kW	0.025	0.0	032	0.045	0.070					
Casing					Galvanised	steel plate						
		ℓ/s	135	15	50	210	250 325					
Airflow rate		m³/min	8.1	9	.0	12.6	15.0	19.5				
External station	pressure	Pa	40-	-10 * 2	50-10 * 2	60-10 *2	45-10*2					
Sound level (H	H/H/L) *1*	3 dB (A)	32/30/28	33/30).5/28	34/31.5/29	35/32.5/30	37/35/33				
Dimensions (H	1 x W x D)	mm		200×700×450		200×9	00×450	200×1,100×450				
Machine weig	ht	kg		18		2	:1	24				
	Liquid (Fla	e)			φ6.4							
Piping G:	Gas (Flare)	mm		<i>∲</i> 12.7								
connections	Drain				PVC26 (External Dia.	26 / Internal Dia. 20)	PVC26 (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 m, Level difference: 0 m.

 •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 5 m, Level difference: 0 m.

 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is abased 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 external static pressure of 10 Pa. For FXDQ-TV1BA models, +0.0005kW on top of cooling/heating power consumption values.

 *2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure Standard". (Factory setting is 10 Pa)

 *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 (Standard Series)

FXDQ-PD/ND

Slim design, quietness and static pressure switching

Suitable to use in drop-ceilings!

Indoor Unit Lineup



- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller BRC1E63.
- Low operation sound level.
- External static pressure selectable by remote controller switching make this indoor unit a very comfortable and flexible model
- 10 Pa-30 Pa/factory set: 10 Pa for FXDQ-PD models.
- 15 Pa-44 Pa/factory set: 15 Pa for EXDQ-ND models

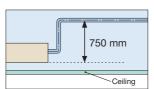




Only 200 mm in height, this model can be installed in rooms with as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab.



Drain pump is equipped as standard accessory with 750



Specifications

	MODE	L	FXDQ20PDVE FXDQ25PDVE FXDQ32PDVE FXDQ40NDVE FXDQ50NDVE FXDQ63N							
Power supply						1-phase, 220-240	V/220 V, 50/60 Hz			
Cooling consoi	h.,		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1		
Heating consoi	h.,		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	
пеанну сарасі	Heating capacity kW		kW	2.5	3.2	4.0	5.0	6.3	8.0	
Dower concum	ntion *1	Cooling	1.34/	0.0	186	0.089	0.160	0.165	0.181	
Power consum	ower consumption *1 Heating kW		KVV	0.0	067	0.070	0.147	0.152	0.168	
Casing						Galvanised	d steel plate			
Airelland water (III	11/11/11		ℓ/s		133/120/106		175/158/141	208/183/166	275/241/216	
Airflow rate (H	IT/T/L)		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 p	ressure		Pa		30-10* ²			44-15* ²		
Sound level (HF	H/H/L)*1*3		dB(A)	28/2	6/23	28/26/24	30/28/26	33/30/27	33/31/29	
Sound power (H	HH/H/L)		dB(A)	56/5	4/51	56/54/52	58/56/54	61/58/55	61/59/57	
Dimensions (H>	(W×D)		mm		200×700×620		200×90	00×620	200×1,100×620	
Machine weight	t		kg		23		27	28	31	
	Liquid (Flare)				φ6.4			φ9.5	
Piping connections	Gas (Fla	are)	mm			<i>ϕ</i> 12.7			<i>∲</i> 15.9	
00111100110110	Drain					VP20 (External Dia.	26/Internal Dia. 20)			

- Note: Specifications are based on the following conditions;

 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.

 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference.

 - During actual operation, these values are normally somewhat higher as a result of ambient conditions. *1 : Values are based on the following conditions: FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: 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-PD models and 15 Pa for FXDQ-ND 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 consoit	.,	Btu/h	30,000	38,200	47,400	54,600				
Cooling capacit	у	kW	8.8	11.2	13.9	16.0				
Heating capacity		Btu/h	33,800	42,700	54,600	62,800				
rieating capacit	<u> </u>		9.9	12.5	16.0	18.4				
Dower concum	Cooling	kW	0.415	0.700	0.780	0.880				
Power consumption Heating		kW	0.415	0.700	0.780	0.880				
Casing				Galvanised	d steel plate					
Airflow rate (H)		ℓ/s	510	778	852	957				
Allilow fale (H)		m³/min	30.6	46.7	51.1	57.4				
External static p	oressure	Pa	120*1							
Sound level (H)	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				
Dining	Liquid (Flare)			ϕ !	9.5					
Piping connections	Gas (Flare)	mm		<i>∲</i> 1	5.9					
	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 is changeable to change over the connectors inside electrical box (High static pressure-Standard static pressure). The data above is for high static pressure setting.

Middle Static Pressure Ceiling Mounted Duct Type

FXSQ-PA

Middle static pressure and slim design allow flexible installations

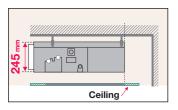


Installation flexibility

Slim design

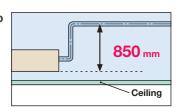
•With a height of only 245 mm, installation is possible even in buildings with narrow ceiling spaces.





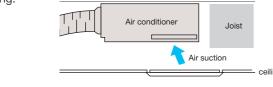
Standard DC drain pump

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

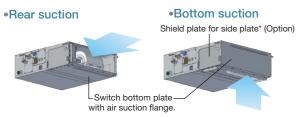


Bottom suction possible

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



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



*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 FXSQ20-125PA models.

Design flexibility

Adjustable external static pressure

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



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

*30 Pa-150 Pa for FXSQ20-40PAVE 50 Pa-150 Pa for FXSQ50-125PAVE 50 Pa-140 Pa for FXSQ140PAVE

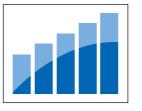
Comfort

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 BRC1E63.



Low operation sound level

FXSQ-PAVE	20/25		32		0	50		63
Sound level (H/M/L)	33/30/28	34	1/32/30	36/3	3/30	34/32/2	29	36/32/29
FXSQ-PAVE	80		100			125		140
Sound level (H/M/L)	37.5/34/3	0	39/35	/32	42/3	38.5/35	4	43/40/36



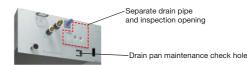
Easy installation

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.

Easy maintenance

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



 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.)



 Airflow rate can be controlled using a remote controller during test operation. It is automatically adjusted to the range between approximately ±10% of the rated H tap airflow.

Specifications

	MOD	EL		FXSQ20PAVE	FXSQ25PAVE	FXSQ32PAVE	FXSQ40PAVE	FXSQ50PAVE			
Power sup	ply			1-phase, 220-240 V/220 V, 50/60 Hz							
Caalina aa	Cooling capacity Btu/h			7,500 9,600		12,300	15,400	19,100			
Cooling Ca	booling capacity		kW	2.2	2.8	3.6	4.5	5.6			
Looting on	naoitu	,	Btu/h	8,500	10,900	13,600	17,100	21,500			
nealing ca	Heating capacity kW		kW	2.5	3.2	4.0	5.0	6.3			
Dower concu	Power consumption Cooling kW		kW	0.05	8 *1	0.066 * 1	0.101 *1	0.075 * 1			
rower consu	iiiption	Heating	kW	0.05	3 *1	0.061 *1	0.096*1	0.070 *1			
Casing				Galvanised steel plate							
Airflow rate (H/M/L)		ℓ/s	150/12	25/108	158/133/116	250/208/175	283/242/192				
All llow rat	.e (11/14	/I/L)	m³/min	9/7.5	5/6.5	9.5/8/7	15/12.5/10.5	17/14.5/11.5			
External sta	atic pr	essure	Pa		30-15		50-150 (50) *2				
Sound leve	l (H/M/	/L)	dB(A)	33/30/28		34/32/30	36/33/30	34/32/29			
Sound pow	ver (H)		dB(A)	6	1	62	64	62			
Dimension	s (H×V	N×D)	mm	245×550×800			245×700×800	245×1,000×800			
Machine weight kg		kg		25	27	35					
	Liquid	l (Flare)				φ 6.4					
Piping connections	Gas (F	Flare)	mm			φ 12.7					
	Drain				VP25 (Exte	ernal Dia. 32/Intern	nal Dia. 25)				

	MODEL		FXSQ63PAVE	FXSQ80PAVE	FXSQ100PAVE	FXSQ125PAVE	FXSQ140PAVE			
Power sup	pply		1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling	Cooling capacity		24,200	30,700	38,200	47,800	54,600			
Cooling Ca	араспу	kW	7.1	9.0	11.2	14.0	16.0			
I lanting or	leating capacity		27,300	34,100	42,700	54,600	61,400			
neating ca	араспу	kW	8.0	10.0	12.5	16.0	18.0			
Power consu	Imption Cooling	kW	0.106 *1	0.126 *1	0.151*1	0.206 *1	0.222 *1			
I OWEI COIISC	Heating		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	350/292/242	383/325/267	533/450/375	617/525/433	650/558/467			
Allilowia	te (i i/ivi/L)	m³/min	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26	39/33.5/28			
External st	atic pressure	Pa	50-150 (50)* ² 50-140 (5							
Sound leve	el (H/M/L)	dB(A)	36/32/29	37.5/34/30	39/35/32	42/38.5/35	43/40/36			
Sound pov	ver (H)	dB(A)	64	65.5	67	70	71			
Dimension	ns (H×W×D)	mm	245×1,0	000×800	245×1,4	400×800	245×1,550×800			
Machine v	veight	kg	35	37	46	47	52			
	Liquid (Flare)				<i>φ</i> 9.5					
Piping connections	Gas (Flare)	mm			φ 15.9					
	Drain			VP25 (Exte	ernal Dia. 32/Intern	al 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

normally somewhat higher as a result of ambient conditions.

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

During actual operation, these values are

unit centre.

*2: External static pressure can be modified using a remote controller that offers thirteen (FXSQ20-40PA), eleven (FXSQ50-125PA) or ten (FXSQ140PA) 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(A)

Middle and high static pressure allows for flexible duct design

FXMQ20PA / FXMQ25PA / FXMQ32PA / FXMQ40PA FXMQ50PA / FXMQ63PA / FXMQ80PA / FXMQ100PA FXMQ125PA / FXMQ140PA

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 FXMQ20PA-32PA

30 Pa - 160 Pa for FXMQ40PA

50 Pa - 200 Pa for FXMQ50PA-125PA

50 Pa - 140 Pa for FXMQ140PA 60 Pa – 217 Pa for FXMQ160P

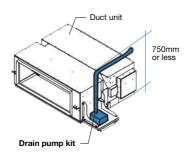
50 Pa - 210 Pa for FXMQ180P

50 Pa - 250 Pa for FXMQ200P-250P

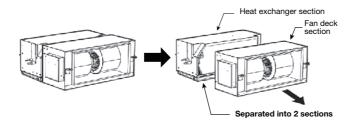
- •The adopted DC fan motor is much more energy efficient than a conventional AC motor, yielding an approximate 20% decreased in energy consumption (FXMQ125PA).
- •FXMQ20PA-140PA models are only 300mm in height making it ideal for use in modern commercial and medium density apartment development where ceiling spaces are tight.
- •Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller BRC1E63 for FXMQ20PA-140PA models.



•A built-in drain pump with 700mm lift is equipped as a standard accessory for FXMQ20PA-140PA models. For FXMQ160P-250P models, a 750mm drain pump kit is available as an optional



- 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 FXMQ160P-250P models can be separated into 2 sections for convenient handling and easier installation through openings in the



Specifications

N	IODEL		FXMQ20PAVE	FXMQ25PAVE	FXMQ32PAVE	FXMQ40PAVE	FXMQ50PAVE			
Power supply				1-pha	ase, 220-240 V/220 V, 50/	60 Hz				
Cooling capacity		Btu/h	7,500 9,600		12,300	15,400	19,100			
		kW	2.2 2.8		3.6	4.5	5.6			
Jacting consoits		Btu/h	8,500	10,900	13,600	17,100	21,500			
leating capacity kW		kW	2.5	3.2	4.0	5.0	6.3			
Power consump	consumption Cooling kW		0.0)56	0.060	0.151	0.128			
	*1 Heating kW		0.0)44	0.048	0.139	0.116			
Casing										
Airflow rate (HH/	ш/г \	ℓ/s	150/12	25/108	158/133/116	267/216/183	300/275/250			
Allilow fate (Fif I)	1 1/L)	m³/min	9/7.5/6.5		9.5/8/7	16/13/11	18/16.5/15			
External static p	ressure*2	Pa		30-100 (50)	30-160 (100)	50-200 (100)				
Sound level (HH	/H/L)	dB(A)	33/3	1/29	34/32/30	39/37/35	41/39/37			
Sound power (H)	dB(A)	5	1	52	57	59			
Dimensions (Hx	W×D)	mm		300x550x700		300x700x700	300x1,000x700			
Machine weight		kg		25		27	35			
L L	iquid (Flare)		•		<i>ϕ</i> 6.4					
Piping (as (Flare)	mm			φ12.7					
	Drain			VP25 (External Dia. 32/Internal	Dia. 25)				

IOM	DEL		FXMQ63PAVE	FXMQ80PAVE	FXMQ100PAVE	FXMQ125PAVE	FXMQ140PAVE		
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		Btu/h	24,200	24,200 30,700		47,800	54,600		
Cooling capacity		kW	7.1	9.0	11.2	14.0	16.0		
Hooting consoits	ting capacity Btu		27,300	34,100	42,700	54,600	61,400		
eating capacity kV		kW	8.0	10.0	12.5	16.0	18.0		
Power consumption	Cooling	kW	0.138	0.185	0.215	0.284	0.405		
*1		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	767/649/533		
Allilow fale (HH/H/L	-)	m³/min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32		
External static pres	sure*2	Pa		50-200	(100)		50-140 (100)		
Sound level (HH/H/I	_)	dB(A)	42/40/38	43/4	1/39	44/42/40	46/45/43		
Sound power (H)		dB(A)	60	6	61	62	64		
Dimensions (H×W×	D)	mm	300x1,0	000x700		300x1,400x700			
Machine weight		kg	3	35	4	46			
Liqu	id (Flare)				φ9.5				
Piping Gas (Flare)	mm			<i>ϕ</i> 15.9					
connections	n			VP25 (External Dia. 32/Internal	Dia. 25)			

M	DDEL		FXMQ160PV1A	FXMQ180PV1A	FXMQ200PV1A	FXMQ250PV1A	
Power supply				1-phase, 220)-240 V, 50 Hz		
Cooling capacity		Btu/h	61,400	68,200	76,400	95,500	
Cooling capacity		kW	18.0	20.0	22.4	28.0	
Heating capacity		Btu/h	68,200	76,400	85,300	107,500	
leating capacity		kW	20.0	22.4	25.0	31.5	
Power consumption	wer consumption Cooling kW		0.6	550	0.640	0.810	
*1 Heating kW		kW	0.650		0.640	0.810	
Casing				Galvanized	d steel plate		
Airflow rate (HH/F	1/1.)	ℓ/s	1,120/955/790	1,160/995/820	1,200/1,025/850	1,400/1,200/1,000	
Allilow fale (HH/F	/L)	m³/min	67.2/57.3/47.4	69.6/59.7/49.2	72.0/61.5/51.0	84.0/72.0/60.0	
External static pre	ssure*2	Pa	60-217 (138) 50-210 (130)		50-250	(150)	
Sound level (HH/l	1/L)	dB(A)	45/41	.5/38	44/40.5/37	46/42.5/39	
Sound power (H)		dB(A)	7	3	72	74	
Dimensions (H×V	/×D)	mm	470x1,1	33x919	470x1,3	333x919	
Machine weight		kg	7	0	79	85	
Li	quid		φ9.5 (Flare)		φ 9.5 (Brazing)		
Piping Gonnections	as	mm	φ15.9 (Flare)	φ 19.1 ((Brazing)	φ 22.2 (Brazing)	
Diffiections	ain			BSP 3/4 internal	thread (OD ϕ 32.7)		

Note: Specifications are based on the following conditions;

*Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

*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 only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for reference. Actual capacity of indoor unit is only for total capacity of indoor unit is only for reference. Actual capacity of indoor unit is only 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 (FXMQ20-32PA), thirteen (FXMQ40PA), fourteen (FXMQ50-125PA), ten (FXMQ140PA) or fifteen (FXMQ160-250P) levels of control.

These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa for FXMQ20-32PA 100 Pa for FXMQ40-140PA.

These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa for FXMQ20-32PA 100 Pa for FXMQ40-140PA, 138 Pa for FXMQ160P, 130 Pa for FXMQ180P and 150 Pa for FXMQ200-250P.

Ceiling Suspended Type



Slim body with quiet and wide airflow





FXHQ125 / 140A



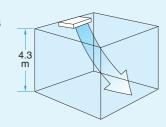


New 125 / 140 models provide greater capacity for large spaces

- The technology of the DC fan motor, wide sirocco fan, and large heat exchanger combine for greater airflow and quiet operation.
- Sophisticated design
- •Flap neatly closes when not in use.



Suitable for high ceilings



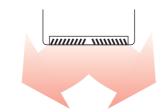
- Switchable fan speed: 3 steps
- •Control of airflow rate has been improved from 2-step to 3-step.
- Drain pump kit (option) includes a silver ion antibacterial agent that assists in preventing the growth of slime, bacteria, and mould that cause smells and clogging.
- Wireless LCD remote controller
- A signal receiver must be added to the indoor unit.





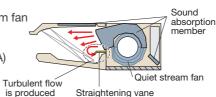
- Auto swing (up and down) and louvers (left and right by hand) bring comfort to the room.
- Louver manually adjusts for straight or wide angle airflow.





Quiet operation

 Uses quiet stream fan and other quiet technologies. (FXHQ32-100MA)



dB(A)

Sound level						
Н	M	L				
36	_	31				
39	_	34				
45	_	37				
46	41	37				
48	42	37				
	36 39 45 46	H M 36 — 39 — 45 — 46 41				

Easy maintenance

- Non-dew flap
- Condensation does not easily form on and dirt does not cling to non-dew flap.

It is easy to clean. Non-dew flap



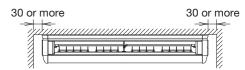
- •It is easy to wipe dirt off the flat side and lower surfaces of
- Oil-resistant plastic is used for the air suction grille. This satisfies durability in restaurants and other similar

Note: Intended for use in salons, dining rooms, and ordinary sales floors, this specification is not suitable for kitchens or other harsh environments

Installation flexibility

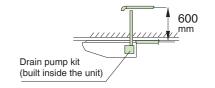
- Flexible installation
- •The unit fits more snugly into tight spaces.

[Required installation space (mm)]



*Water used in the test-run can be drained from the air discharge opening rather than from the side as was formerly

- Drain pump kit (option) can be easily incorporated.
- Drain pipe connection can be done inside the unit. Refrigerant and drain pipe outlets are at the same opening.



- All wiring and internal servicing can be done from under the unit.
- The rear side removable frame allows ease of access for piping work.



Specifications

	MODEL		FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE	FXHQ125AVM	FXHQ140AVM	
Power suppl	ly		1-phas	se, 220-240 V/220 V, 50	0/60 Hz	1-phase, 220-240 V	/220-230 V, 50/60 Hz	
Cooling capacity		Btu/h	12,300	24,200	38,200	48,000	52,900	
Cooling cap	kW		3.6	7.1	11.2	14.1	15.5	
Heating can	Heating capacity Btu/h kW		13,600	27,300	42,700	54,600	58,000	
rieating cap			4.0	8.0	12.5	16.0	17.0	
Power	Cooling	kW	0.111	0.115	0.135	0.168	0.181	
consumption	onsumption Heating		0.111	0.111 0.115 0.135 0.168		0.168	0.181	
Casing			She	et Metal / White (10Y9	/0.5)	Sheet Metal / White		
Airflow rate ((LL/NA/L)	ℓ/s	200/-/166	291/-/233	416/-/325	567/433/333	600/450/333	
Alfilow fale ((П/IVI/L)	m³/min	12/-/10	17.5/-/14	25/-/19.5	34/26/20	36/27/20	
Sound level	(H/M/L)	dB(A)	36/-/31	39/-/34	45/-/37	46/41/37	48/42/37	
Dimensions	(H×W×D)	mm	195×960×680	195×1,160×680	195×1,400×680	235×1,5	590×690	
Machine wei	ight	kg	24	28	33	4	1	
	Liquid (Flare)		<i>ϕ</i> 6.4		<i>φ</i> 9	.5		
Piping connections	Gas (Flange)	mm	φ12.7		<i>φ</i> 15	5.9		
	Drain			VP20 (E	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 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



Stylish flat panel design harmonised with your interior décor



An invisible air intake at the top of the unit

Higher airflow

- An invisible air intake at the top of the unit
- Vertical auto-swing enables efficient air and temperature distribution throughout the room.
- The louver closes automatically when the unit stops.
- Enhanced comfort is achieved.
- •5 step discharge angles can be set by remote controller.
- Discharge angle is automatically set at the same angle as previous operation when restart.

MODEL			FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
Airflow rate	Н	m³/min	9.1	9.4	9.8	12.2	15.0	19.0
	L		7.0	7.0	7.0	9.7	12.0	14.0

Lower sound level

- Whisper quiet in operation, with sound levels as low as 28.5 dB(A)* *Sound level for FXAQ20-32A
- An ideal solution for a wide range of commercial spaces, including individual office spaces.

Wireless LCD remote controller

• A signal receiver must be added to the indoor unit.



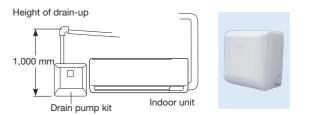




MODEL			FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
Sound level	Н	dB(A)	33.0	35.0	37.5	37.0	41.0	46.5
	L	ub(A)	28.5	28.5	28.5	33.5	35.5	38.5

- •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.

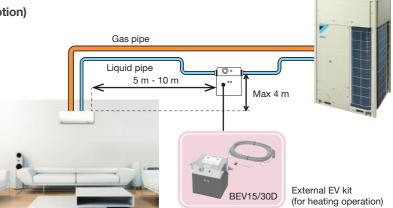
- Flexible installation
- Drain pipe can be fitted to from either left or right sides.
- Drain pump kit is available as optional accessory, which lifts the drain 1,000 mm from the bottom of the unit.



External EV kit (for heating operation) (Option)

This product, which is concealed in ceilings or corridors for quieter heating operation, is used to connect indoor units in places where quiet environment is required such as residential living rooms.

* This option is only effective for reducing operation sound during heating operation. Therefore it is ineffective when connected to cooling only outdoor



Specifications

MODEL			FXAQ20AVM	FXAQ25AVM	FXAQ32AVM	FXAQ40AVM	FXAQ50AVM	FXAQ63AVM	
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz						
Cooling capacity Btu/h kW		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		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	0.040	0.040	0.040	0.050	0.060	0.100	
	Heating	KVV	0.040	0.040	0.050	0.050	0.070	0.110	
Casing			Resin / White N9.5						
Airflow rate (H/L)		ℓ/s	151/116	156/116	163/116	203/161	250/200	316/233	
		m³/min	9.1/7.0	9.4/7.0	9.8/7.0	12.2/9.7	15.0/12.0	19.0/14.0	
Sound level (H/L)	Cooling	dB(A)	33.0/28.5	35.0/28.5	37.5/28.5	37.0/33.5	41.0/35.5	46.5/38.5	
	Heating		34.0/28.5	36.0/28.5	38.5/28.5	38.0/33.5	42.0/35.5	47.0/38.5	
Dimensions (H×W×D) mm		mm	290×795×266				290×1,050×269		
Machine weight		kg	12 15						
Piping connections	Liquid (Flare)		φ6.4					∮ 9.5	
	Gas (Flange)	mm	φ12.7				φ15.9		
	Drain		VP13 (External Dia. 18/Internal Dia. 15)						

- 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, 15°CWB, 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 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.

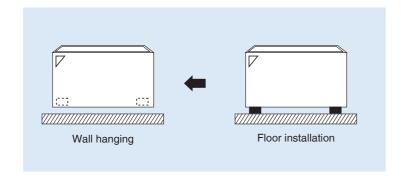
Floor Standing Type

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/m



Specifications

M	ODEL		FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE	
Power supply					1-phase, 220-240	V/220 V, 50/60 Hz			
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	
rieating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0	
Power consumpt	Cooling	kW	0.0)49	0.090		0.110		
rower consumpt	Heating	kW	0.0)49	0.090		0.1	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	
Allilow fale (H/L	,	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 (Hx\	V×D)	mm	600×1,0	000×222	600×1,1	40×222	600×1,420×222		
Machine weight kg		kg	25	5.0	30	0.0	36	36.0	
D	quid (Flare)				φ6.4			<i>ϕ</i> 9.5	
Piping connections	as (Flare)	mm			φ12.7			φ15.9	
	rain				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°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 only for reference.

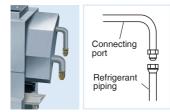
Concealed Floor Standing Type

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.



- 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

ı	MODEL		FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE		
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz						
Cooling capacit	,	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200		
Cooling capacity	'	kW	2.2	2.8	3.6	4.5	5.6	7.1		
Heating capacit	,	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300		
rieating capacit	′	kW	2.5	3.2	4.0	5.0	6.3	8.0		
Power consump	Cooling	kW	0.0	049	0.090		0.110			
Power consump	Heating	kW	0.0	049	0.0	090	0.1	0.110		
Casing				FXNQ: Galvanised steel plate						
Airflow rate (H/	1.)	ℓ/s	116/100		133/100	183/141	233/183	266/200		
Allilow fale (H/	L)	m³/min	7/6		8/6	11/8.5	14/11	16/12		
Sound level (H/I	.) 240 V	dB(A)		37/34		40/35	41/36	42/37		
Dimensions (Hx	W×D)	mm	610×9	30×220	610×1,0)70×220	610×1,350×220			
Machine weight kg		kg	19	9.0	23.0			27.0		
5: :	iquid (Flare)		φ6.4					φ9.5		
Piping connections	Gas (Flare)	mm			φ12.7			<i>ϕ</i> 15.9		
	Orain		210.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°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 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.

Quiet, compact, and designed for user comfort

•Designed to fit 600 mm wide ceiling grids







Option



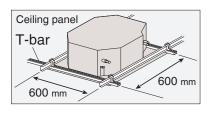
Option

Note: Remote controller cables not included.

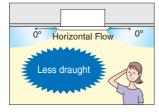
Cables should be

Signal receiver unit Note: Wireless remote controllers and signal receiver units are sold

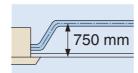
•T-bar grid does not need to be cut.



 Low draft performance is designed for your comfort.



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



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

Specifications

MODEL			FFQ25BV1B	FFQ35BV1B	FFQ50BV1B	FFQ60BV1B		
Power supply			1-phase, 220-240 V, 50 Hz					
Airflow rate (F	1)	m³/min(ℓ/s)	9.0 (150)	10.0 (167)	12.0 (200)	15.0 (250)		
Sound level (H	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 s	teps			
Temperature of	control			Microcomp	outer control			
Dimensions (H×W×D) mm		mm	286x575x575					
Machine weig	ht	kg	17.5					
D	Liquid (Flare)		♦ 6.4					
Piping connections	Gas (Flare)	mm	ϕ 9	9.5	<i>φ</i> 1	2.7		
COMMODITION	Drain			VP20 (External Dia	. 26/Internal Dia. 20)			
Heat insulatio	n		Both liquid and gas pipes					
	Model		BYFQ60B3W1					
Panel	Colour		White					
(Option)	Dimensions(H×W×D)	mm		55x700x700				
	Weight	kg	2.7					

Note: * Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

Indoor Unit Lineup

Slim Ceiling Mounted Duct Type

FDXS-C

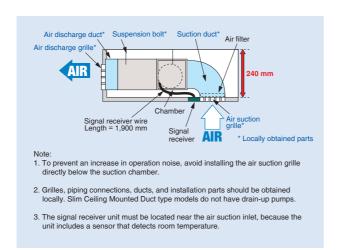
Slim and smooth design suits your shallow ceiling



•Models in the FDXS25/35 series are only 900 mm in width and 25 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.



- •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



Specifications

	MODEL		FDXS25CVMA	FDXS35CVMA	FDXS50CVMA	FDXS60CVMA		
Power supply				1-phase, 220-240 V/220-230 V, 50/60 Hz				
Airflow rate (H	1)	m³/min(ℓ/s)	9.5 (158)	10.0 (167)	12.0 (200)	16.0 (267)		
Sound level (F	H/L/SL)*	dB(A)	35/3	1/29	37/33/31	38/34/32		
Sound power	(H)	dB(A)	5	3	55	56		
Fan speed				5 steps, quiet and automatic				
Temperature of	control		Microcomputer control					
Dimensions (F	H×W×D)	mm	200x900x620			200x1,100x620		
Machine weig	ht	kg	25		27	30		
5	Liquid (Flare)		φ6.4					
Piping connections			ϕ 9	0.5	φ.	φ12.7		
Drain		1		VP20 (External Di	ia. 26/Internal Dia. 20)	rnal Dia. 20)		
Heat insulation			Both liquid and gas pipes					
External static pressure Pa		Pa	40					

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

Residential Indoor Units with connection to BP units

Wall Mounted Type

FTXS-K(A)

Standard accessory

Stylish flat panel harmonises with your interior décor

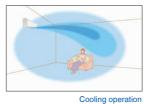
 Intelligent Eye with its infrared sensor automatically controls air conditioner operation according to human movement in a room. When there is no movement, it adjusts the temperature by 2°C for energy savings.





•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.

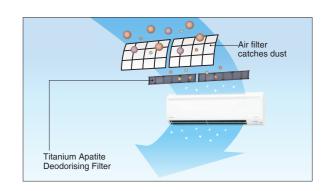




Heating operation

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.

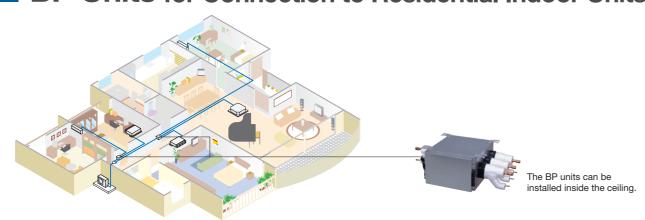


This filter is not a medical device. Benefits such as the adsorption of odours and allergens and deodorisation of odours are only effective for substances which are directly attached to the Titanium Apatite Deodorising Filter.

Specifications

MODEL		FTXS20KVMA	FTXS25KVMA	FTXS35KVMA	FTXS50KAVMA	FTXS60KAVMA	FTXS71KAVMA		
Power supply	Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel cold	our				WI	nite			
Airflow rate (H)	Cooling	m³/min(ℓ/s)	9.7 (161)	11.3 (188)	14.7 (245)	16.2 (270)	17.4 (290)	
Allilow fale (H)	Heating		10.5	(175)	11.5 (191)	16.2 (270)	17.4 (290)	21.5 (358)	
Sound level (H/L	(CI) Cooling	dD(A)	38/2	5/22	42/26/23	44/35/32	45/36/33	46/37/34	
Sourid level (H/L	Heating	ing dB(A)	39/2	39/28/25		42/33/30	44/35/32	46/37/34	
Sound power (H	Cooling	dB(A)	5	4	58	60	61	62	
Souria power (F	Heating	ub(A)	55		58		60	62	
Fan speed			5 steps, quiet and automatic						
Temperature co	ntrol		Microcomputer control						
Dimensions (Hx	«W×D)	mm		295x800x215		290x1,050x250			
Machine weight		kg		9	10		12		
5	Liquid (Flare)		φ6.4						
Piping	Connections Gas (Flare) mm Drain			φ9.5		φ12.7		φ15.9	
			I.D ∮14.0xO.D ∮18.0						
Heat insulation				Both liquid and gas pipes					

BP Units for Connection to Residential Indoor Units



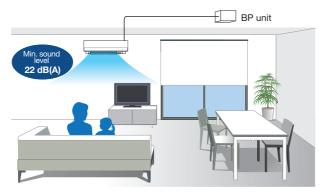
Connectable to Residential Indoor Units

BP units allow VRV systems to be connected to Daikin's stylish and quiet residential indoor units.



Quiet Operating Sound

Expansion valves tend to create refrigerant passing noise. However, this noise can be reduced by installing the valves in BP units. The units can be fitted inside the ceiling or roof-space far from an indoor unit. Some Daikin residential indoor units also provide minimum sound levels of just 22 dB(A). Together these features ensure your system continues to operate as quietly as possible.



BPMKS967A2

Specifications

MODEL



BPMKS967A3



Power sup	oply			1-phase, 220-240 V/	220-230 V, 50/60 Hz			
Number o	f ports			3 (connectable to 1-3 indoor units)	2 (connectable to 1-2 indoor units)			
Power cor	nsumpti	on	W	1	0			
Running c	urrent		А	0.0	05			
Dimension	ns (HXW	/XD)	mm	180X294(+	356*)X350			
Machine v	veight		kg	8	7.5			
Number of wiring connections		tions	3 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 4 for interunit wiring (BP-indoor unit)	2 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 3 for interunit wiring (BP-indoor unit)				
D: :		Main	mm	φ9.5X1				
Piping connections	Liquid	Branch	mm	φ6.4X3	φ 6.4X2			
(Brazing)	Gas	Main		φ19.	1X1			
	Gas	Branch	mm	φ15.9X3	φ15.9X2			
Heat insul	ation			Both liquid a	nd gas pipes			
Connectal	ble indo	or 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				

BPMKS967A3

BS Units for Heat Recovery

Specifications — Individual BS Unit



Opol	opcomoduono		marviadai Be	, ome				
	MODEL			BSQ100AV1	BSQ160AV1	BSQ250AV1		
Power sup	oply				1-phase, 220-240 V, 50 Hz			
No. of bra	nches				1			
Total capacity	index of co	onnectable indoor	r units	20 to 100	More than 100 but 160 or less	More than 160 but 250 or less		
No. of con	nectable	e indoor unit	S	Max. 5	Max. 8	Max. 8		
Casing				Galvanised steel plate				
Dimension	ns (H×W	/×D)	mm	207×388×326				
	Indoor	Liquid	mm	φ9.5 (Brazing) *1		φ9.5 (Brazing)		
D: .:	Unit	Gas]		φ15.9 (Brazing) *2	φ22.2 (Brazing) *3		
Piping connections		Liquid		φ9.5 (Brazing)		φ9.5 (Brazing)		
	Outdoor Unit	Suction gas	mm		φ15.9 (Brazing) *2	φ22.2 (Brazing) *3		
	Onic	High and low pressure gas			φ12.7 (Brazing) *2	φ19.1 (Brazing) ★3		
Machine v	veight		kg	11 11		14		
Sound level dB(A)			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

Specifications — Centralised BS Unit





16 branch

	MOI	DEL		BS4Q14AV1	BS6Q14AV1	BS8Q14AV1	BS10Q14AV1	BS12Q14AV1	BS16Q14AV1
Power sup	oply			1-phase, 220-240 V, 50 Hz					
No. of bra	nches			4	4 6 8 10 12				16
Capacity index	of connecta	able indoor units of	branch			Max	. 140		
Capacity ind	ex of con	nectable indoor	units	Max. 400	Max. 600		Max	. 750	
No. of conne	ectable in	door units per b	ranch				5		
Casing						Galvanised	steel plate		
Dimension	ns (H×V	V×D)	mm	298×370×430	298×58	30×430	298×82	20×430	298×1060×430
	Indoor	Liquid	mm	φ6.4, φ9.5 Brazing ^{★1}					
	Unit	Gas	1111111	φ12.7, φ15.9 Brazing ^{★1}					
Piping		Liquid		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}
connections	Outdoor Unit	Suction gas	mm	φ22.2 Brazing (φ19.1)*2	φ28.6 B	razing*2	φ28.6 Braziı	ng(\$\phi 34.9)*2	φ34.9 Brazing ^{★2}
		High and low pressure gas		φ19.1 Brazing (φ15.9)*2	φ19.1 Brazing (φ22.2)*2	φ19.1 Brazing (φ22.2,28.6)*2	<i>φ</i> 28.6 Brazing ^{★2}		2
Machine weight kg			kg	17	24	26	35	38	50
Sound lev	rel		dB(A)	38(45)*3	8(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.

Air Handling Unit

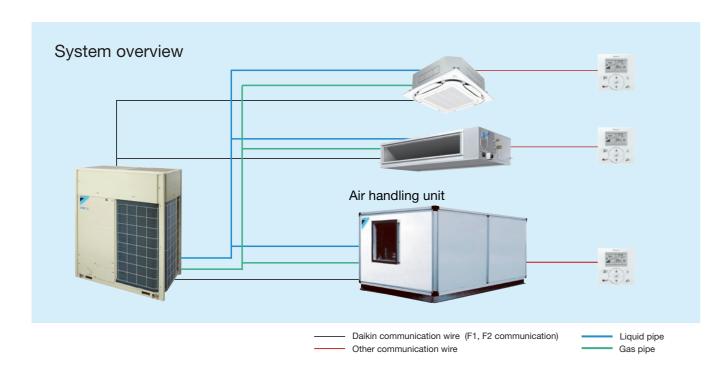
Air Handling Unit

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

AHUR
Capacity range : 6 – 160 class

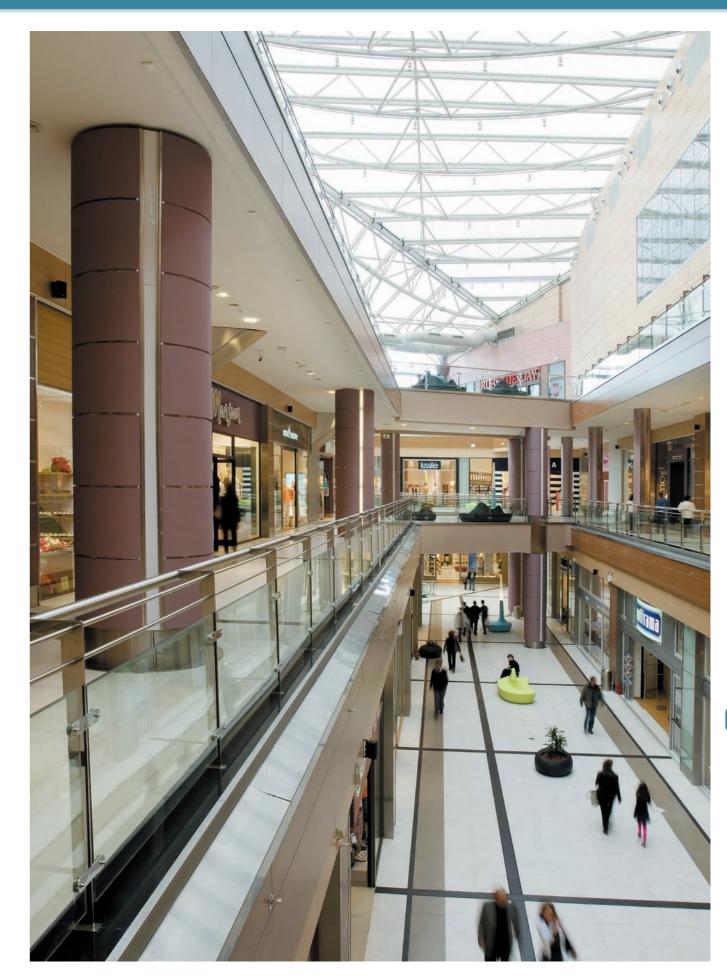


- Easy design and installation
- •The system is easy to design and install since no additional water systems such as boilers, tanks and gas connections etc are required.
- •Inverter controlled units
- •Control of air temperature via standard Daikin wired remote control for standard series



Daikin air handling units can be connected to VRV systems.

This combination can be built to order as a system. Outdoor air series is also possible. Please contact your local sales office for details.





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 *,¹due 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		Heat Reclai	m Ventilator
		Processing Unit	VKM-GAM Type	VKM-GA Type	VAM-GJ Type
		Ventilation Humidification Air Processing* Ventilation Humidification Air Processing*		Ventilation Humidification	
					00
	Refrigerant Piping	Connectable	Conne	ctable	Not connectable
⊢	Wiring	Connectable	Conne	ctable	Connectable
system	After-cool & After-heat Control	Available	Available		Not available
Heat Exchar	nge Element	-	Energy savings obtained		Energy savings obtained
Humidifier		-	Fitted	_	_
High Efficier	ncy Filter	Option	Option		Option
Ventilation S	System	Air supply only	Air supply &	air exhaust	Air supply & air exhaust
Power Supp	ly	220-240 V, 50 Hz	220-240	V, 50 Hz	220-240 V/220 V, 50/60 Hz
Airflow Rate			500	m³/h	150 m³/h 250 m³/h 350 m³/h 500 m³/h
		9,,	800 1	m³/h	650 m³/h 800 m³/h 1000 m³/h
		1080 m³/h 1680 m³/h 2100 m³/h	1000	111711	1500 m /h 1500 m³/h 2000 m³/h

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

Outdoor-Air Processing Unit

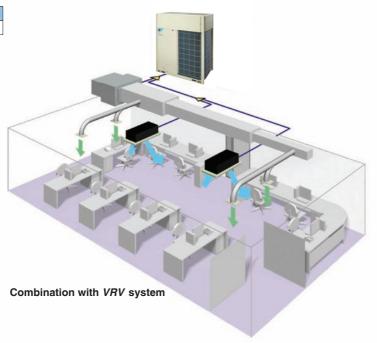
Combine fresh air treatment and air conditioning, supplied from a single system.

Lineup

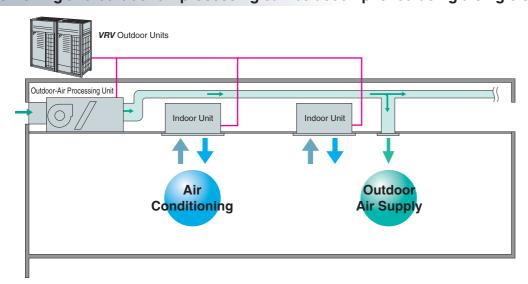
Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250



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.



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.

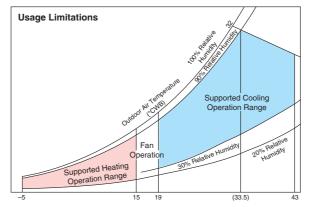
- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
- When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not
 exceed 30% of the capacity index of the outdoor units.
 Because connection is possible depending on conditions ever when the capacity index of outdoor-air processing units exceeds 30% of the capacity index of the
 outdoor units, contact your local distributor.
- Outdoor-air processing units can be used without indoor units.

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

Airflow rate

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

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



Note:

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

- High-performance filters with dust collection efficiencies (JIS calorimetry) of 90% and 65% are also available as options.
- As with the VRV 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.



BRC1E63
"Nav Ease"
(Wired remote controller)

- 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 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 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

	Туре				Ceiling Mounted Duct Type							
	Model			FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1						
Power su	pply			1-phase	e 220-240 V (also required for indoor units)	, 50 Hz						
Cooling c	anacity *1		Btu/h	47,800	76,400	95,500						
Cooming c	арасну і		kW	14.0	22.4	28.0						
Heating o	apacity *1		Btu/h	30,400	47,400	59,400						
rieating c	арасну		kW	8.9	13.9	17.4						
Power cor	nsumption		kW	0.359	0.548	0.638						
Casing					Galvanised steel plate							
Dimensio	ns (HxWxD)		mm	470X744X1,100	470X744X1,100 470X1,380X1,100							
Fan	Motor output		kW		0.380							
	Airflow rate		ℓ/s	300	466	583						
	Alliowiate		m³/min	18	28	35						
	External static pressure	240 V	Pa	225	275	255						
Air filter					*2							
.	Liquid		mm		φ 9.5 (flare)							
Refrigerant piping	Gas		mm	φ 15.9 (flare)	φ 19.1 (brazing)	φ 22.2 (brazing)						
	Drain		mm		PS1B female thread							
Machine	weight		kg	86	12	23						
Sound lev	/el *3	240 V	dB(A)	43	4	8						
Connecta	ble outdoor units	* 4		6 class and above	8 class and above	10 class and above						
Operation ra	inge		Cooling		19 to 43°C							
(Fan mode o	pperation between 15 ar	nd 19°C)	Heating		-5 to 15°C							
Range of	the discharge		Cooling		13 to 25°C							
temperatu			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
- *4. It is possible to connect to the outdoor unit if the total capacity of the indoor units is 50% to

. Some options may not be used in combination

1.10% 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 system.

Options

Indoor unit

		Madal	EVMO405MEV4	EVALORODAET//4	EVALOOF OBJETA						
		Model	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1						
_	Operation remo	te controller		BRC1E63 / BRC2E61							
ntro	Central remote	controller		DCS302CA61							
05/د	Unified ON/OFF	controller		DCS301BA61							
ation	Schedule timer			DST301BA61							
Operation/control	Wiring adaptor fo	or electrical appendices (1)		KRP2A61							
	Wiring adaptor fo	or electrical appendices (2)		KRP4AA51							
	Long-life replace	ement filter	KAFJ371L140	KAFJ371M280							
SI S	High-efficiency	Colourimetric method 65%	KAFJ372L140	KAFJ37	72M280						
Filters	filter	Colourimetric method 90%	KAFJ373L140	KAFJ37	73M280						
	Filter chamber	*1	KDJ3705L140	KDJ370	05L280						
PN	M2.5 filtration unit	*2	BAF429A20A								
PI	M2.5 with activate	d carbon filtration unit *2	BAF429A20AC								
Dr	ain pump kit		KDU30L250VE								
Ac	daptor for wiring			KRP1B61							

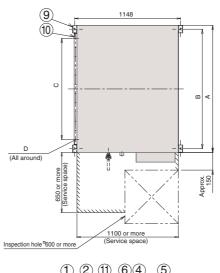
- Note: *1. Filter chamber has a suction-type flange. (Main unit does not.)

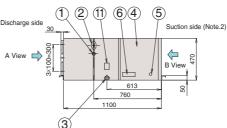
 Dimensions and weight of the equipment may vary depending on the options used.

 Some options may not be usable due to the equipment installation conditions, so please confirm prior to ordering.
 - *2. Refer to page 168-170 for details.

Dimensions

FXMQ125/200/250MFV1





*These diagrams are based on FXMQ200 and FXMQ250MFV1.

Local connection piping size

Model	Gas piping diameter	Liquid piping diameter			
FXMQ125MFV1	∮ 15.9	ϕ 9.5			
FXMQ200MFV1	ϕ 19.1 attached piping	ϕ 9.5			
FXMQ250MFV1	ϕ 22.2 attached piping	φ9.5			

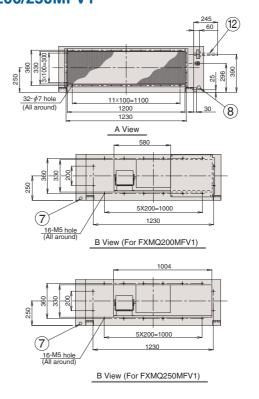
Table of dimensions

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

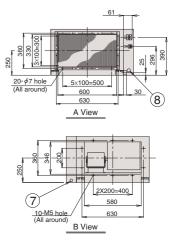
- 1. The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (② in the diagram) has a different bore form with FXMQ125MFV1.
- 2. An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side. [Use a filter with dust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

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

FXMQ200/250MFV1

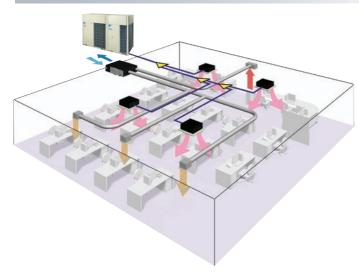


FXMQ125MFV1



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

With DX Coil Type												
Model Nam	ne	VKM50GAV1	VKM80GAV1	VKM100GAV1								
Capacity Inc	dex	31.25	50	62.5								



Humidifier

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

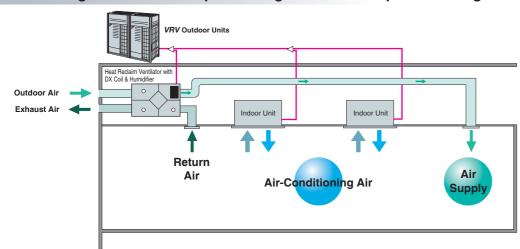
DX-coil

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.

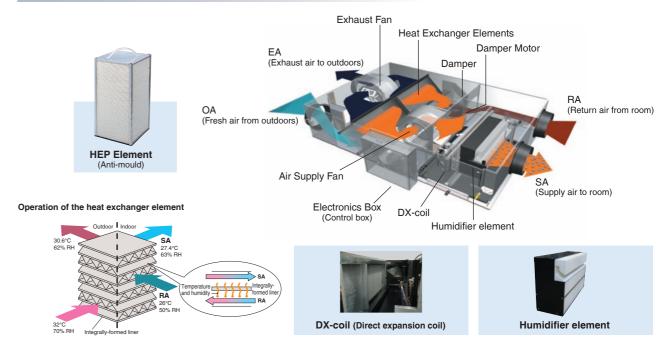


Connection Conditions

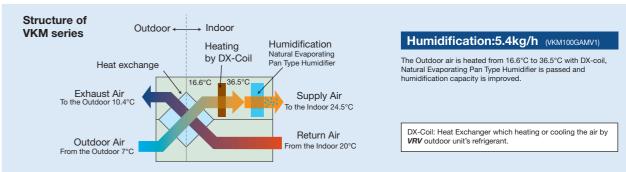
The following restrictions must be observed in order to maintain the indoor units connected to the same system.

• 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



Heating and humidification process



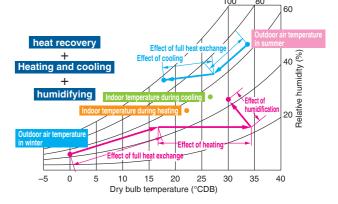
Efficient outdoor air introduction with heat exchanger and cooling/heating operation



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

Me	ODEL			VKM50GAMV1*	VKM80GAMV1 *	VKM100GAMV1*	VKM50GAV1	VKM80GAV1	VKM100GAV1					
Refrigerant						R-4	10A							
Power Supply						1-phase, 220-2	40 V, 50 Hz							
	Ultra-high	Airflow rate	(m3/h)/(l/s)	500/138	750/208	950/263	500/138	750/208	950/263					
	Oltra-riigii	Static pressure	Pa	160	140	110	180	170	150					
Airflow Rate & Static	High	Airflow rate	$(m^3/h)/(\ell/s)$	500/138	750/208	950/263	500/138	750/208	950/263					
Pressure (Note 7)	Tilgii	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					
	Low	Static pressure	Pa	100	70	60	110	80	70					
	Heat	Ultra-high		560	620	670	560	620	670					
	exchange	High	w	490	560	570	490	560	570					
Danier Caranination	mode	Low	1	420	470	480	420	470	480					
Power Consumption		Ultra-high		560	620	670	560	620	670					
	Bypass mode	High	w	490	560	570	490	560	570					
Power Supply Airflow Rate & Static Pressure (Note 7) Power Consumption Fan Type Motor Output Sound Level (Note 5) (220/230/240 V) Humidification Capacity (Note 5) (220/230/240 V) Enthalpy Exchange Efficiency (Cooling) Enthalpy Exchange Efficiency (Heating) Casing Insulating Material Heat Exchanging System Heat Exchanger Element Air Filter DX-coil	mode	Low		420	470	480	420	470	480					
Fan Type	-	-			'	Sirocc	o 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					
	Heat	Ultra-high		37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41					
	exchange	High	dB(A)	35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39					
Sound Level (Note 5)	mode	Low		32/33/34	33/34/35.5	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5					
(220/230/240 V)		Ultra-high		37/37.5/38	38.5/39/40	39/39.5/40	38/38.5/39	40/41/41.5	40/40.5/41					
	Bypass	High	dB(A)			37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39					
	mode	Low		160 140 140	34/34.5/35.5	33.5/34.5/35.5	34.5/36/37	35/36/36.5						
Humidification Canacity (No	te 4)		kg/h			5.4	_	— — —						
Tramamount oupdony (110	Ultra-high		, itg///			74	76	78	74					
Temp. Exchange	High		%			74	76	78	74					
Efficiency	Low		1			76.5	77.5	79	76.5					
	Ultra-high					62	64	66	62					
Enthalpy Exchange	High		%			62	64	66	62					
Efficiency (Cooling)	Low		1 /			66	67	68	66					
	Ultra-high					65	67	71	65					
Enthalpy Exchange	High		%			65	67	71	65					
Efficiency (Heating)	Low		1 ~			69	69	73	69					
Casing	Low		<u> </u>		10		Steel Plate	70						
						Self-Extinguishab								
					Air to Air Cros			eat) Evchange						
						pecially Processed								
						Multidirectional		eı						
	Cooling (No	ato 2\		2.0	1.5	5.6	2.8	4.5	5.6					
Capacity	Heating (No		kW			6.4	3.2	5.0	6.4					
	Height	ne o)				387	387	387	387					
Dimensions	Width		mm			1,764	1,764	1,764	1,764					
Dimensions	Depth		11/111	-	<u> </u>	1,764	832	1,764	1,764					
Connection Dust Disease	Берит		mm		l .			· ·						
Connection Duct Diameter		Not	mm	-			<i>\$</i> 200		250					
Machine Weight		Net	kg			125	96	109	114					
		Gross (Note 8)		107	129	134	000/ DLL I							
Unit Ambient Cardities		Around Unit					80%RH or less							
Unit Ambient Condition		OA (Note 9)					, 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: 27°CDB, 0°CWB, Outdoor temperature: 35°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. 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

 - Specifications, design and information here are subject to change without notice.
 Power consumption and efficiency depend on the above value of airflow rate.

- 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.
- 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.

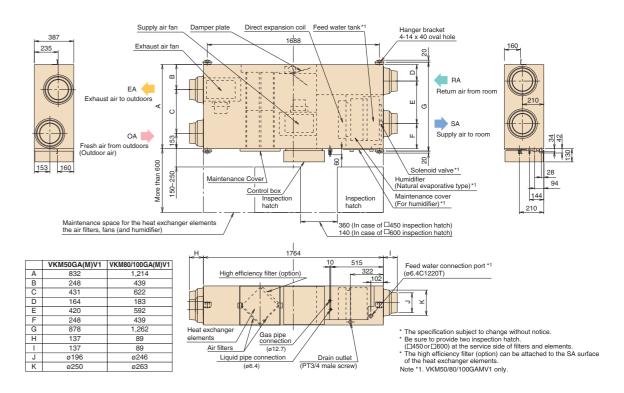
 14. When connecting with a VRV system heat recovery outdoor unit and bringing the RA (exhaust gas intake) of this unit directly in from the ceiling, connect to a BS unit identical to the VRV indoor unit (master unit), and use group-linked operation. (See the Engineering Data for details.)

 15. When connecting the indoor unit directly to the duct, always use the same system on the indoor unit are with the outdoor with preferre group-linked operation and make the directly dust connecting and makes the directly dust connecting the second or the connection and makes the directly dust connecting the second or the connection and makes the directly dust connecting the second or the connection and makes the directly dust connecting the second or the connection and makes the directly dust connecting the second or the connection and makes the directly dust connecting the second or the connection and makes the directly dust connection and makes the directly dust connecting the second or the connection and makes the directly dust connecting the second or the connection and makes the directly dust connection and makes the directly dust connection and makes the directly dust connecting the second or the connection and makes the directly dust connecting the second or the connection and makes the directly dust connection and makes
- 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 statio pressure, the unit might back up.
- ★ Feed clean water (city water, tap water or equivalent). Dirty water may clog the valve or cause dirt deposits in the water container, resulting in poor humidifier performance. (Never use any cooling tower water and heating-purpose water.) Also, if the supply water is hard water, use a water softener because of short life.
- * Life of humidifying element is about 3 years (4,000 hours) under the supply water conditions of hardness: 150 mg/l. (Life of humidifying element is about 1 year (1,500 hours) under the supply water conditions of hardness: 400 mg/l.)

 Annual operating hours: 10 hours/day x 26 days/month x 5 months = 1,300 hours

Dimensions

VKM50/80/100GA(M)V1



Options

Ite	m			Туре							VKM5	0/80/1	00GA	(M)V1						
	Re	emote c	contr	oller		BRC1E63 / BRC2E61 *1														
			Reside	ntial central remote controller	DCS303A51 *2															
		ntralised htrolling	Centr	al remote controller	DCS302CA61															
	dev		Unifie	ed ON/OFF controller								DCS30	1BA61	I						
ø	DCT001DAC1																			
device		Wiring	ada _l dices	otor for electrical	KRP2A61															
	ō	For hum	nidifier	running ON signal output								KRP	50-2							
≝	aptor	For he	ater	control kit	output KRP50-2 BRP4A50															
Controlling	Board Ad	For wiring		Type (indoor unit of VRV)	FXFSQ-A	FXFQ-P	FXZQ-A2	FXUQ-A	FXCQ-A	I⊢ X ⊢()_Δ	FXDQ-PD FXDQ-ND	FXDQ-T	FXSQ-PA	FXDYQ-MA	FXMQ-PA	FXMQ-P	FXHQ-MA	FXHQ-A	FXAQ-A	FXLQ-MA FXNQ-MA
	P.				KRP1C11A★	KRP1C63★	KRP1BA57★	-	KRP1B61★	-	KRP1B56★	KRP1	1C64*	KRP1B61	KRP1C64★	KRP1C67★		BA54	-	KRP1B61
		Installa	tion b	ox for adaptor PCB ☆	Note 2, 3 KRP1	H98A	Note 4, 5 KRP1BA101		Note 2, 3 KRP1B96	-	Note 4 KRP1BA101	DDDOAGO	Note 2, 3 KRP4A98		Note 2, 3 KRP4A97	DDDOAGO	Note 3 KRP1CA93	Note 3 KRP1CA93A	Note 2, 3 KRP4AA93	-

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

5. *1 Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When operating interlocked

Ite	m	Туре	VKM50GA(M)V1	VKM80GA(M)V1	VKM100GA(M)V1				
lo lo	Cilonoon		_	KDDM:	24B100				
function	Silencer	Nominal pipe diameter mm	_	φ 2	50				
1	Air suction/	White	K-DGL200B	K-DG	L250B				
ona	Discharge grille	Nominal pipe diameter mm	φ200	φ 2	50				
ditional	High efficiency	filter	KAF242J80M	KAF242J100M					
A	Air filter for rep	lacement	KAF241G80M	KAF241	G100M				
Fle	xible duct (1 m)		K-FDS201D	K-FDS251D					
Fle	xible 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

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

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

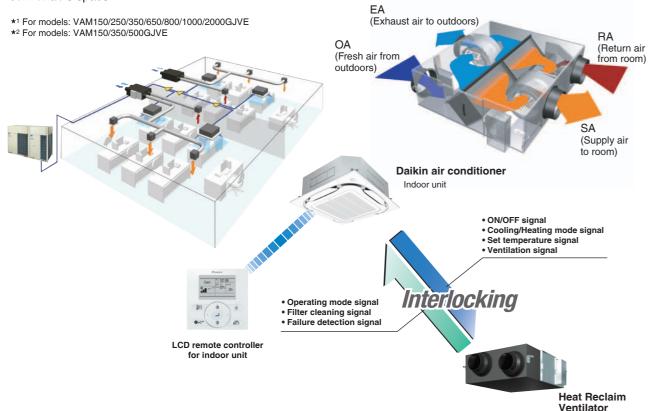




Heat Reclaim Ventilator remote controller BRC301B61 (Option)

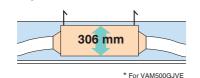
This remote controller is used in case of independent operation of Heat Reclaim Ventilator

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



Compact Equipment

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

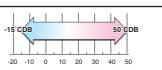


Energy Conservation

Air conditioning load reduced by approximately 31%!

Cold Climate Compatible

Standard operation at temperatures down to -15°C.



Air conditioning load reduced by approximately 31%!

Total heat exchange ventilation

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

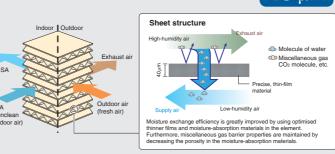
Enthalpy efficiency drastically improved by employing thin film element! (VAM-GJ model)

Due to the thinner film..

•Decreases the moisture resistance of the partition sheets drastically.

•Realises more space for extra layers in the element resulting in increased effective area that supply and exhaust air can be exposed to.

Moisture absorption increased by approx. 10%!

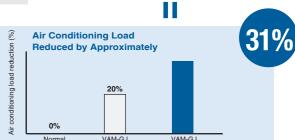


Auto-ventilation Mode Changeover Switching

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

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

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



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

• The air conditioning load reduction values are based on the following conditions; Application: Tokyo office building

Building form: 6 floors above ground, 2 floors underground, floor area 2,100 m² Ventilation volume: 25 m³/h

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

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

Nighttime free cooling operation*1

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

temperature, nighttime free cooling operation reduces the cooling load when air conditioners are turned on in the morning. It also alleviates feelings of discomfort in the morning caused by heat accumulated during the night. •Nighttime free cooling operation only works to cool and if connected to

Building Multi or VRV systems. •Nighttime free cooling operation is set to "off" in the factory settings, so if you wish to use it, request your dealer to turn it on.

- *1 This function can be operated only when interlocked with air conditioners.
- *2 Value is based on the following conditions:
 Cooling operation performed from April to 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.

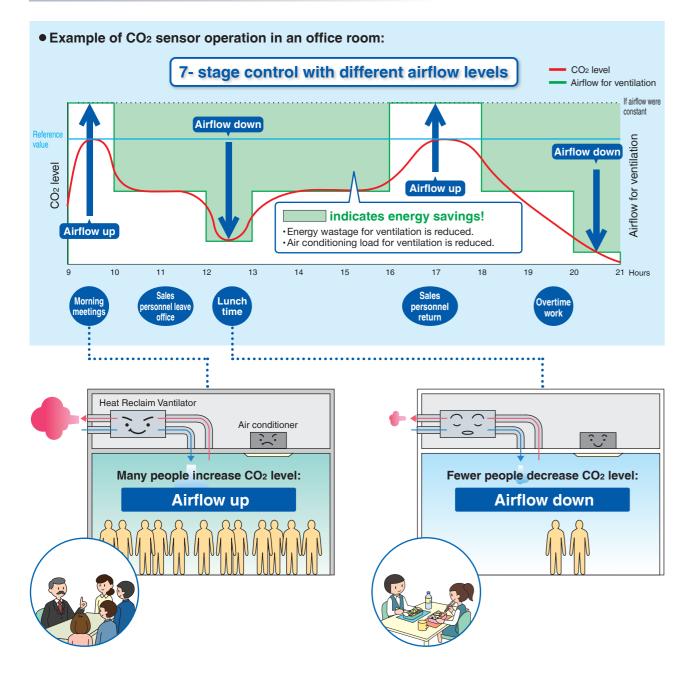


approx. **5%**^{*2}

■ Heat Reclaim Ventilator — VAM series

CO² Sensor Optional Kit Connection

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



Specifications

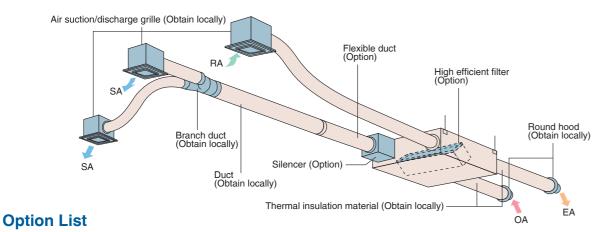
	N	ODEL			VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE			
Power	Supply	,						1-phase, 22	20-240 V/220 \	V, 50/60 Hz						
			Ultra-High		79	75	79	74	75	72	78	72	77			
Power Suppl Temp. Exchar Efficiency Enthalpy Exchange Efficiency Power Consumption Sound Level Casing Insulation Ma Dimensions (Machine Wei Heat Exchan Heat Exchan Air Filter Type		ge	High	%	79	75	79	74	75	72	78	72	77			
Temp. Excha Efficiency Enthalpy Exchange Efficiency Power Consumption Sound Level	icy		Low		84	79	82	80	77	74	80.5	75.5	79			
			Ultra-High		72	71	70	67	67.5	65	70	65	72			
		For Heating	High	%	72	71	70	67	67.5	65	70	65	72			
Enthalpy Exchange Efficiency Power Consumption Sound Leve Casing Insulation! Dimension Machine W Heat Excha			Low		76	74	77	74	71.5	67.5	72.5	67	75			
			Ultra-High		66	63	66	55	61	61	64	61	62			
Enthalpy Exchange Efficiency Power Consumption Sound Level Casing Insulation M Dimensions Machine W Heat Excha Air Filter Typ		For Cooling	High	%	66	63	66	55	61	61	64	61	62			
			Low		70	66	70	59	64	64	68.5	64	66			
		Heat	Ultra-High		125	137	200	248	342	599	635	1,145	1,289			
		Exchange	High	W	111	120	182	225	300	517	567	991	1,151			
Power		Mode	Low		57	60	122	128	196	435	476	835	966			
Consur			Ultra-High		125	137	200	248	342	599	635	1,145	1,289			
Bypass Mode High					111	120	182	225	300	517	567	991	1,151			
			Low		57	60	122	128	196	435	476	835	966			
		Heat	Ultra-High		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			
		Exchange	High	dB(A)	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			
Sound		Mode	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			
Casing Insulation Dimension		Dunasa	Ultra-High		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			
		Bypass Mode	High	dB(A)	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	9					Galvanised steel plate										
Insulat	tion Mat	terial				Self-extinguishable polyurethane foam										
Dimen	sions (H	HXWXD)		mm	278×8	10×551	306×87	306×879×800 338×973×832 387×1,111×832 387×1,111×1,214 785					785×1,619×1,214			
Machi	ne Weig	jh		kg	2	4	32 45 55 67 129						157			
Heat E	Exchang	e System				Air to air cross flow total heat (Sensible heat+latent heat) exchange										
Heat E	Exchang	je Element	Materi	ial				Specially prod	cessed nonflar	nmable paper						
Air Filt	er							Multidire	ectional fibrous	fleeces						
	Туре								Sirocco fan							
			Ultra-High		150	250	350	500	650	800	1,000	1,500	2,000			
			High	m ³ /h	150	250	350	500	650	800	1,000	1,500	2,000			
	Airflow	, Pato	Low		100	155	230	320	500	700	860	1,320	1,720			
	Allilow	riale	Ultra-High		41	69	97	138	180	222	277	416	555			
Fan			High	ℓ/s	41	69	97	138	180	222	277	416	555			
			Low		27	43	63	88	138	194	238	366	477			
			Ultra-High		120	70	169	105	85	133	168	112	116			
	Extern Pressu	al Static ure	High	Pa	106	54	141	66	53	92	110	73	58			
			Low		56	24	67	32	35	72	85	56	45			
	Motor	r Output		kW	0.03	80×2	0.09	0×2	0.140×2	0.28	80×2	0.28	80×4			
Conn	ection D	uct Diamet	er	mm	φ100 φ150 φ200 φ250 φ350								350			
Unit A	Ambient	Condition						-15°C-5	0°CDB, 80%R	H or less						
	_					entro of the had										

- 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.
 - The sound level at the air discharge port is about 8 dB(A) higher than the unit's sound level.
 The specifications, designs and information given here are subject to change without notice.

 - 6. Temperature Exchange Efficiency is the mean value between cooling and heating.
 - Efficiency is measured under the following conditions: Batio 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.
- 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 m³/h) to approximately 11 dB(A) (models with the airflow rate of 650 m³/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 m³/h models), if the supply air (SA) grille is installed near the main unit, the noise of the main unit may be heard from the discharge grille via the duct, and this will result in a marked increase in noise. In such cases, if peripheral effects are included (such as reverberation of the floor and walls, combination with other equipment, and background noise), sound level may be as much as 15 dB(A) higher than the indicated value. When installing a large model, please provide as much separation as possible between the main unit and the discharge grille. If the equipment and discharge grille are near each other, please consider countermeasures such as the following:
 •Use a sound-muffling box, flexible duct and sound-muffling air supply/discharge grilles
- •Decentralised installation of discharge grilles
- 11. When installing in a location with particularly low background noise such as a classroom, please consider the following measures to avoid transmission sound from the main unit: •Use of ceiling materials with high sound insulating properties (high transmission loss)

•Methods of blocking sound transmission, for example, by adding sound insulating materials around the bottom of the sound source Alternatively, consider supplementary methods such as installing the equipment in a different location (corridor, etc.)

Options



Ite	m			Туре				VAM1	50 · 2	50 · 35	0 · 500	650	· 800 ·	1000	1500	· 2000	GJVE			
	Не	at Reclai	m Ver	ntilator remote controller								BRC3	01B61							
		Anna Para at	Reside	ntial central remote controller		DCS303A51 Note 1														
		tralised trolling	Centr	al remote controller		DCS302CA61														
	dev		Unifie	ed ON/OFF controller		DCS301BA61														
			Sche	edule timer								DST30	1BA61							
device		Wiring appen		otor for electrical		KRP2A61														
-	L	For hu	midif	ier								KRP	50-2							
l <u>:</u> ⊑'	daptor	Installa	ation	box for adaptor PCB			KRP5	0-2A9	0 (Mou	ınted e	lectric	comp	onent a	assy of	f Heat	Reclai	m Vent	tilator)		
<u>5</u>		For he	ater	control kit	BRP4A50															
Controlling	PC Board A	For wi	ring	Type (indoor unit of VRV)	FXFSQ-A	FXFQ-P	FXZQ-A2			FXEQ-A	FXDQ-PD FXDQ-ND	FXDQ-1					FXHQ-MA	FXHQ-A	FXAQ-A	FXLQ-MA FXNQ-MA
	"				KRP1C11A★	KRP1C63★	KRP1BA57★	-	KRP1B61★	_	KRP1B56★	KRP1	C64*		KRP1C64★			BA54	-	KRP1B61
		Installa	ition b	oox for adaptor PCB★	Note 2, 3 KRP1		Note 4, 5 KRP1BA101		Note 2, 3 KRP1B96	-	Note 4 KRP1BA101	BRP9A90	Note 2, 3 KRP4A98	-	Note 2, 3 KRP4A97	BRP9A90	Note 3 KRP1CA93	Note 3 KRP1CA93A	Note 2, 3 KRP4AA93	-

- Note: 1. Installation box

 is necessary for each adaptor marked

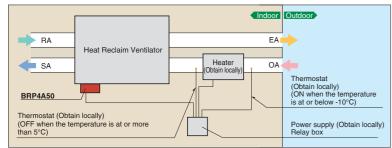
 ...
 - Up to 2 adaptors can be fixed for each installation box.
 Only one installation box can be installed for each indoor unit
 - Up to 2 installation boxes can be installed for each indoor unit
- 5. *1 Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When operating interlocked

Item		Туре	VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
ا ا	Silencer			_		KDDM24B50	K	DDM24B10	0	KDDM24B100X2	
Additional function		Nominal pipe diameter mm		_		φ 200		,	φ 250		
dit	High efficie	ency filter	KAF24	2J25M	KAF24	2J50M	KAF242J65M	KAF242J80M	KAF242J100M	KAF242J80MX2	KAF242J100MX2
F Ac ∣	Air filter for replacement		KAF24	1J25M	KAF24	1H50M	KAF241J65M	KAF241J80M	KAF241J100M	KAF241J80MX2	KAF241J100MX2
Flexibl	e duct (1 m)		K-FDS101D K-FDS151D			K-FDS	-FDS201D K-FD			S251D	
Flexible	e duct (2 m)		K-FDS102D K-FDS152D K-FDS202D K-FDS					S252D			
Duct a	daptor			_						YDFA	25A1
Ducta	ισαρισι	Nominal pipe diameter mm		_						φ 2	50
CO ₂ se	CO ₂ sensor			BRYMA65 BRYMA100					BRYMA65	BRYMA100	
				BAF249A150 BAF249A300 BAF249A350 BAF249A500 — BAF429A20A							
PM2.5	PM2.5 with activated carbon filtration unit*			BAF249A300C	BAF249A350C	BAF249A500C	_		BAF429	A20AC	

^{*}Refer to page 168-170 for details.

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.

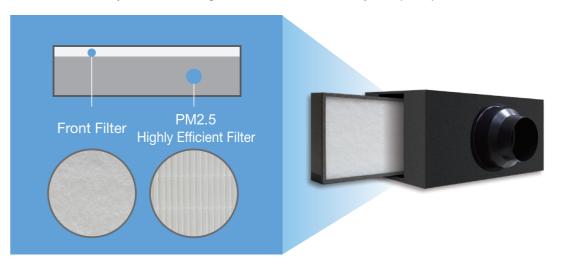
PM2.5 filtration unit (Option) for VAM / FXMQ-MF series

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.

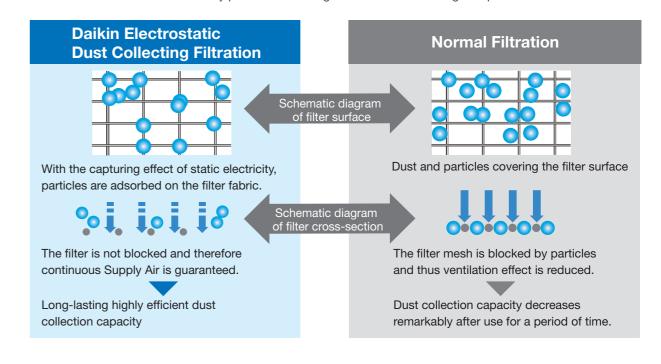
- 1. The front filter effectively removes large particles.
- 2. The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently.



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.

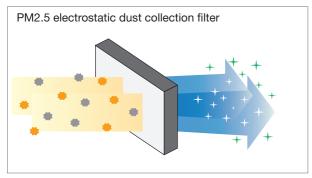
The filter is difficult to be blocked by particles and has good ventilation and long life span.



PM2.5 filtration unit (Option) for VAM / FXMQ-MF series

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 removes 99% or more of 2.5 µm.





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

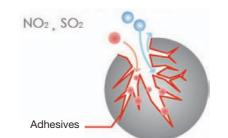
Intelligent Identification, Super-effective Adhesion

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

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



Unidentified Gases



PM2.5 Filtration Unit

Models			BAF249A150	BAF249A300	BAF249A350	BAF249A500	
Heat Reclaim Ventilator Models			VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	
Dimensions (H	Dimensions (H \times W \times D) mm		220 x 603 x 366	220 x 603 x 366	300 x 623 x 366	300 x 623 x 366	
Connection Duc	Connection Duct Diameter mm		Ø100	Ø150 Ø150		Ø200	
Airflow Rate		m³/h	150	250	350	500	
	Initial Pressure Drop	Pa	34	30	31	42	
PM2.5 Filter	Filter Lifetime 1			1 year			
	Filtration Efficiency ²			99% or	r higher		
Filter Material No. 3		BAF244A300 BAF244A			4A500		

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.

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 ×	$W \times D$)	mm	220×603×366	220×603×366	300×623×366	300×623×366
Connection Duct	Diameter	mm	Ø100	Ø150	Ø150	Ø200
Airflow Rate	irflow Rate		150	250	350	500
	Initial Pressure Drop	Pa	34	30	31	42
PM2.5 Filter	Filter Lifetime ¹	1 year				
PIVIZ.5 FIILEI	Filtration Efficiency ²	99% or higher				
	Filter Material No. 3		BAF24	4A300	BAF24	4A500
A attract and	Initial Pressure Drop	Pa	3 5		5	9
Activated Carbon Filter	Filter Lifetime			1 year		
Carbon Filler	Filter Material No. 3		BAF244A300C		BAF24	4A500C
Total Initial Pressure Dr	rop for PM2.5 with Activated Carbon Filtration Unit	Pa	37	35	36	51

Note: 1. Annual usage: 400 hrs / month x 12 months = 4.800 hrs.

2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more.

3. Filters come with applicable filtration units with a one-year life. They can be purchased and replaced according to their model numbers.

Individual Control Systems for VRV Indoor System

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



BRC1E63



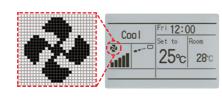
BRC1F61 (Only for FXEQ series

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

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



Backlight display

· Backlight display helps operating in dark rooms.



Simple operation

Large buttons and arrow keys

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

Guide on display

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

Form (1.4.8) (



Energy saving

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.



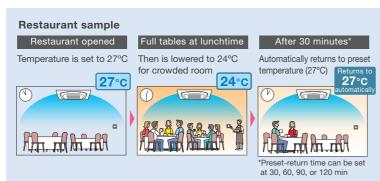
•Off timer

- 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, the new set temperature returns to the previous preset value after a preset duration of time.
- \cdot Period selectable from 30, 60, 90, or 120 min.





Convenience

Setback (default: OFF)

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

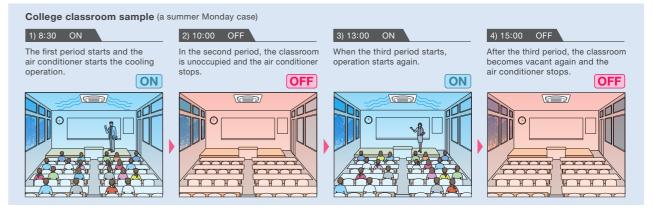
Ex) Setback temperature Cooling: 35°C Recovery differential Cooling: -2°C When the room temperature goes above 35°C, the air conditioner starts operating in Cooling automatically. When room temprature reaches 33°C, the air conditioner returns OFF.

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

Weekly schedule

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





Auto display off

- · While operation is stopping, LCD display can be turned OFF. It will be displayed again if any button is pressed.
- · Period can be preset from 10, 30, 60 minutes, and OFF. Initial setting is 30 minutes.

Comfort

Individual airflow direction (*1)

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution that conforms to conditions for airflow direction (small and large loads).

*1. Only available for FXFSQ-A, FXCQ-A and FXUQ-A series.

•5-step airflow control (*2)

Control of airflow rate can be selected from 5-step control, which provides comfortable airflow.

 *2 . The number of airflow steps differs according to the type of indoor unit. 5-step airflow is only available for FXFSQ-A, FXEQ-A and FXDQ-T series.

Auto airflow rate (*3)

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

*3 .Only available for FXFSQ-A, FXCQ-A, FXDQ-T/PD/ND, FXSQ-PA, FXMQ-PA, FXUQ-A and FXAQ-A series.



Control Systems

Control Systems

Individual Control Systems for VRV Systems

Simplified remote controller (Option)



Easy operation with new intuitive design

Simple operation

• Using only six buttons, users have direct access to basic functions. This enables them to easily set comfort to their

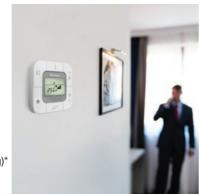
·ON/OFF ·Operation mode

·Temperature setting

·Airflow rate (5-step & Auto)*

·Up and down airflow direction (5-step & Swing)* ·ON/OFF timer

* The number of airflow steps and availability of auto airflow rate and swing mode depend on the type of indoor unit.



Intuitive design

• By using pictograms, the user-friendly interface enables convenient and easy operation.

Compact size

• Measuring only 85 x 85 mm, the new remote controller is extremely compact and complements any interior design.

Wireless remote controller (Option)











Signal receiver unit BRC-C, E series

- •The wireless remote controller is supplied in a set with a signal receiver.
- Signal receiver unit of installed type is contained inside decoration panel or indoor unit.
- Shape of signal receiver unit differs according to the indoor unit.

Note: The signal receiver unit shown in the photograph is for mounting inside the decoration panel of

· Backlight LCD of new wireless remote controller



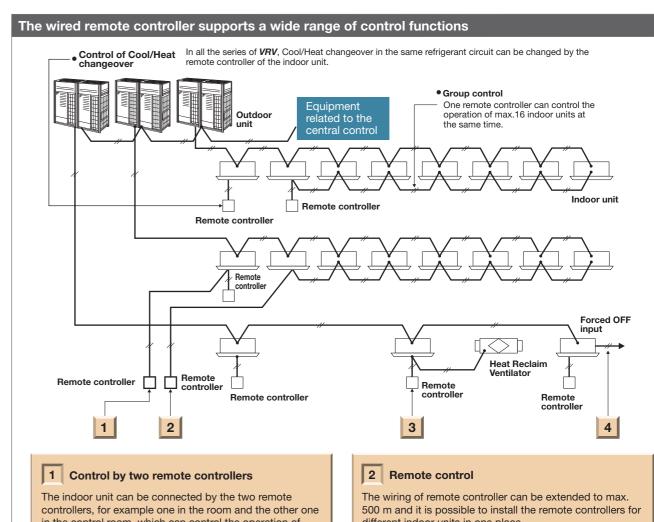
Pressing the backlight button nelps operating in dark rooms.

- A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.
- * Wireless remote controller and signal receiver unit are sold as a set * Refer to page 194 for the name of each model.

Wide variation of remote controllers for VRV indoor units

	FXFSQ	FXFQ	FXZQ	FXUQ	FXCQ	FXEQ	FXDQ	FXDYQ	FXSQ	FXMQ	FXHQ	FXAQ	FXL(N)Q
Navigation remote controller (BRC1E63)	•		•	•	•		•	•			•	•	•
Simplified remote controller (BRC2E61)			•	•	•	•	•	•		•	•	•	•
Wireless remote controller* (Installed type signal receiver unit)	•	•	•	•	•	•					•	•	
Wireless remote controller* (Separate type signal receiver unit)							•	•		•			•

*Refer to page 194 for the name of each model.



in the control room, which can control the operation of indoor unit freely.(The last command has a priority.) Of course, the group control by two remote controllers is

3 Control for the combined operation

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

different indoor units in one place.

4 Expansion of system control

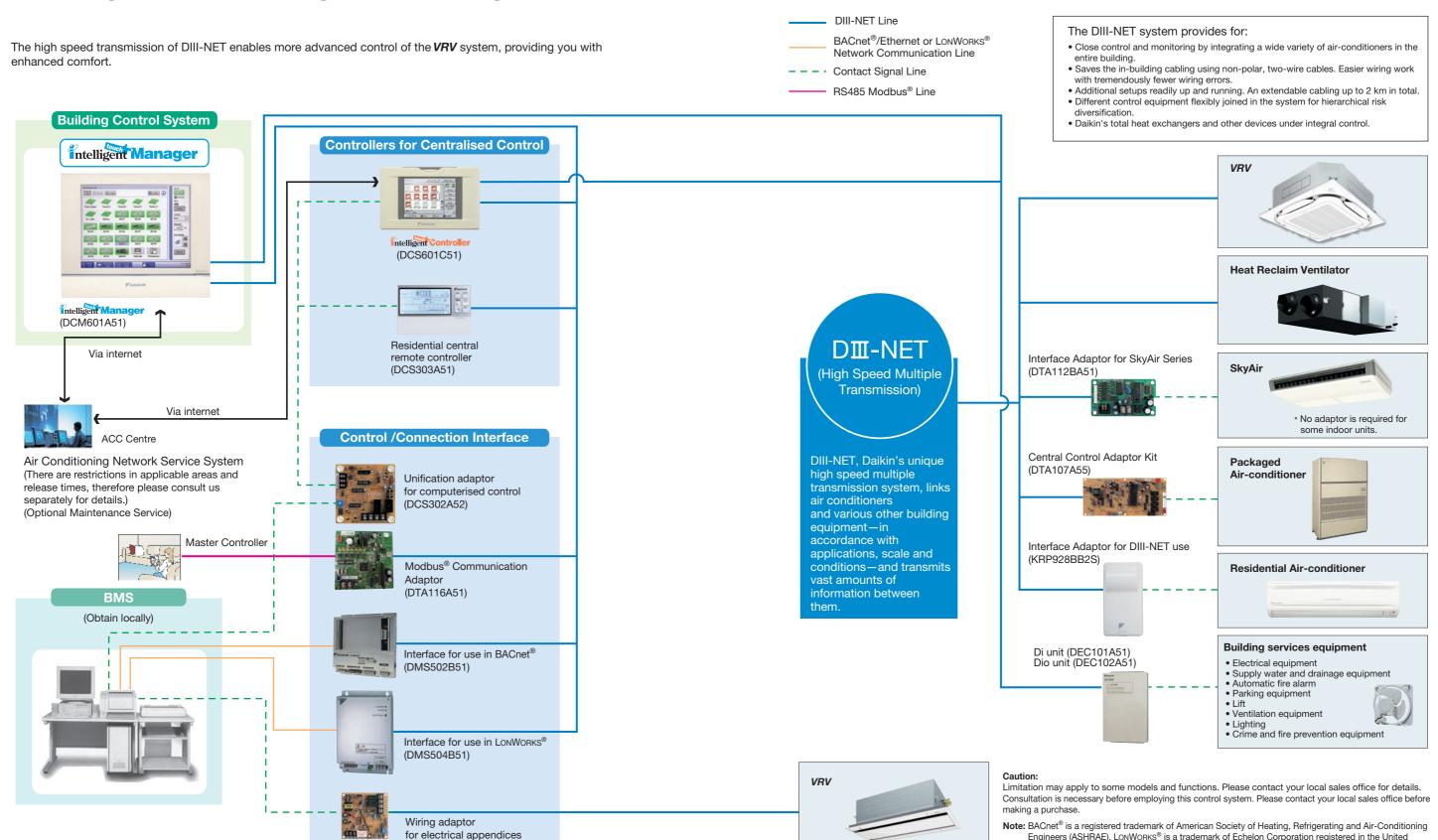
The system can be expanded to add several controllers, such as BMS, Forced OFF input and etc.

Engineers (ASHRAE). LonWorks® is a trademark of Echelon Corporation registered in the United

States and other countries. Modbus® is a registered trademark of Schneider Electric S.A.

Control Systems

■ Integrated Building Monitoring System



175 176

(KRP2A61/62/51/53)

Control Systems

Advanced Control Systems for VRV Systems

Intelligent Manager

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



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





For Energy Saving & Comfort

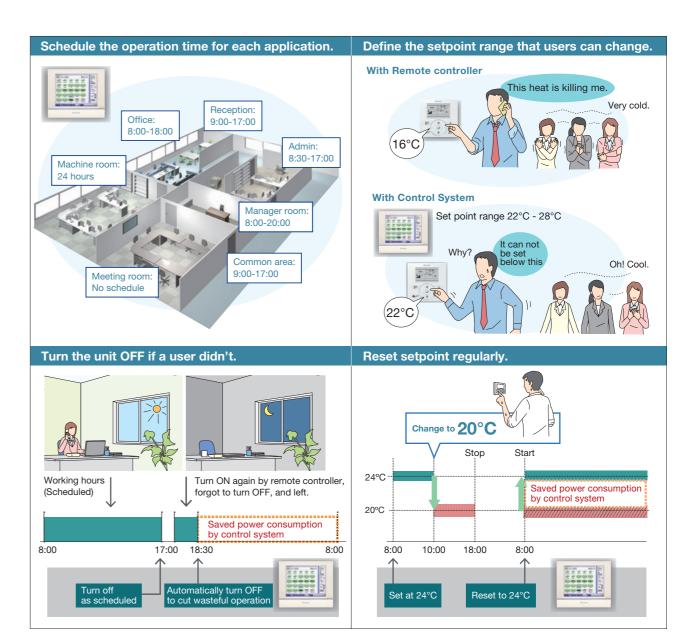
intelligent Touch Manager maximises the advantages of VRV features

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

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

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

It can manage a total of 650 management points consisting of up to 512 Daikin indoor unit groups (up to 1024 indoor units) along with building equipment control / monitoring with Digital Inputs / Output (Di/Dio), Analog Inputs / Output (Ai/Ao) and Pulse input (Pi) optional devices.



Advanced Control Systems for VRV Systems

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.



Please contact your local sales office for details.

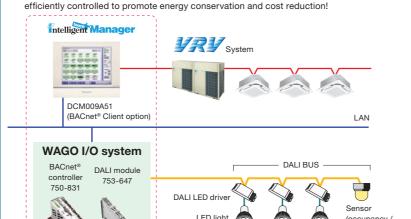
Lighting control achieved by the intelligent Touch Manager

[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

[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) connected to a single DALI module.
- DALI BAS simplifies wiring and setting work by daisy chain wiring and automatic address setting.

Easy maintenance and energy saving by lighting control

Case1

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

 Failing to switch off lights is prevented



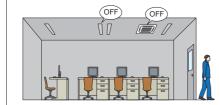


Optimal illuminance reduces energy

C2502

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



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.

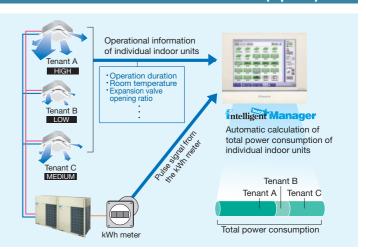
Operational information of individual indoor units are monitored, based on distribution of power consumption of outdoor units.

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.



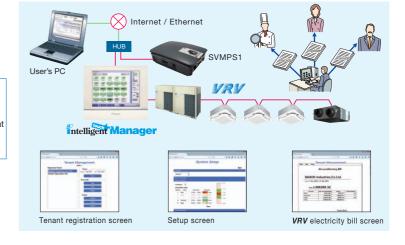
Air conditioning bills can be issued by one click

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

Smartphone will be a remote controller of VRV system (Option)

Users can operate and check the status of **VRV** system from their smart phones via WiFi.

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.

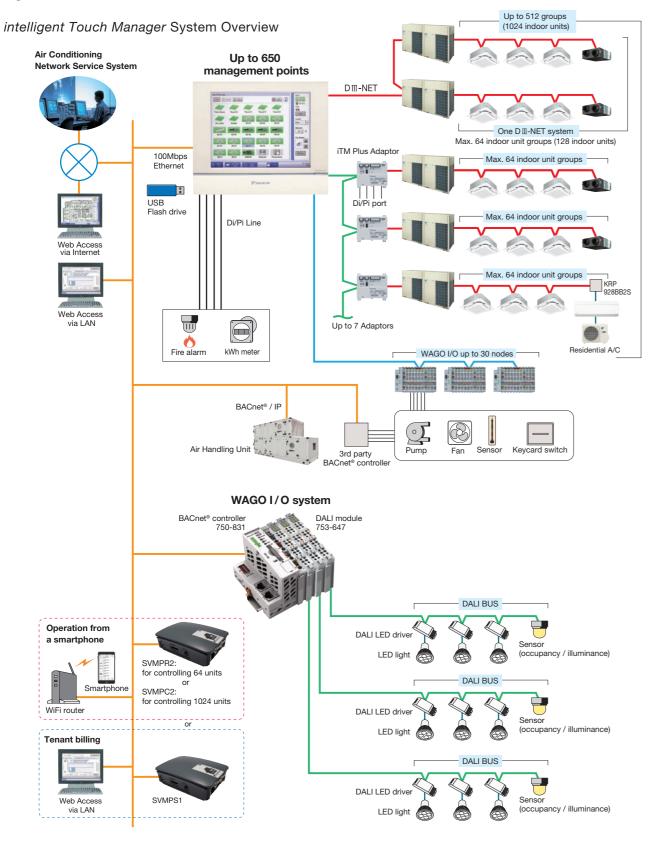
It is also possible to check if air conditioners in other rooms remain switched on etc., helping achieve energy saving.



Control Systems

Advanced Control Systems for VRV Systems

System structure



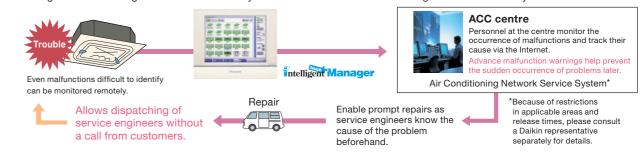
Air Conditioning Network Service System

Preventive Maintenance

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

Enhanced convenience with link to the Air Conditioning Network Service System

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



Daikin Offers a Variety of Control Systems

Convenient controllers that offer more freedom to administrators



ntelligent Controller

Ease of use and expanded control functions

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

DCS601C51

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



(Interface for use in BACnet®)

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

DMC504D

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

DMS504B51 (Interface for use in LONWORKS®)

Note: 1. BACnet[®] is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

 $2.\ \mathsf{LONWORKS}^{\circledcirc} \ \mathsf{is} \ \mathsf{a} \ \mathsf{trademark} \ \mathsf{of} \ \mathsf{Echelon} \ \mathsf{Corporation} \ \mathsf{registered} \ \mathsf{in} \ \mathsf{the} \ \mathsf{United} \ \mathsf{States} \ \mathsf{and} \ \mathsf{other} \ \mathsf{countries} \ \mathsf{constraint} \ \mathsf{cons$

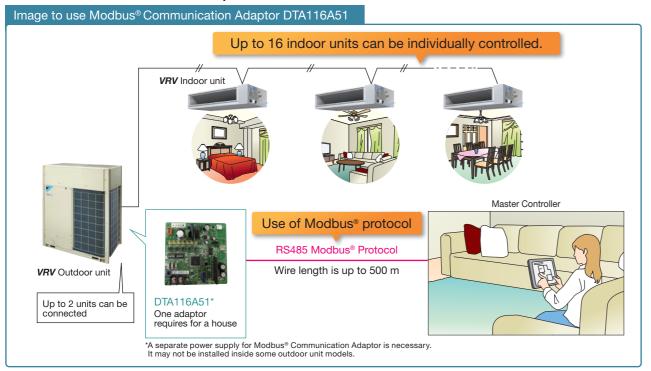
Smartphone will be a remote controller of VRV system (Option)



Control Systems

Advanced Control Systems for VRV Systems

Modbus® Communication Adaptor



■ 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 conchilition	Indoor unit capabilities such as operation mode,
indoor unit capabilities	fan control setpoint HV can be retrieved

VRV Smartphone Control System

VRV Smartphone 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 and Smartphone 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 Smart Control

- 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.



- 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 to support quick maintenance.

Up to 32 indoor units can be controlled. SVMPC1 WiFi router DTA116A51 VRV Outdoor unit VRV Indoor unit VRV Indoor unit You can control VRV system from anywhere through

Functions

Category	Function	Detail
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, Scene Control
Automatic	Setpoint range limitation*	Cool setpoint min/max, Heat setpoint min/max
control	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
	Interlock	Interlock operation depend on equipment status
System setting		Language, Password setting, User administration*, Point setting*
*: Only admin	user can set.	

[■] Specifications

Category	Specification	Detail
Connectable	Number of indoor units	Max 16 (per DTA116A51)
units	Number of DTA116A51	Max 2 (maximum of 32 indoor units can be connected)
Connectable	Number of Tablet/Smartphone	Max 20
device	Device type	iPad, iPhone, Android tablet, Android Phone, Windows Tablet, Windows Phone, Windows PC, Mac
	Web browser	Firefox, Chrome, Safari

Multi Site Management System by using SVMPC1: MSMPN1



Outdoor Units

WRV H SERIES High-COP Type

No.	No. Item		RXYQ12AH RXYQ14AH RXYQ16AH RXYQ18AH RXYQ20AH		RXYQ24AH	RXYQ26AH RXYQ28AH RXYQ30AH RXYQ32AH RXYQ34AH RXYQ36AH	
1	Distributive piping	REFNET header		6M22H, KHRP26M33H, KHRP eranch) (Max. 8 branch) (Max.		KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch)	
		REFNET joint	KHRP26A22T, KHRP2	26A33T, KHRP26A72T	KHRP26A22T, KHRP26A33T,	, KHRP26A72T, KHRP26A73T	
2	Pipe size red	ucer	- KHRP26M73TP, KHRP26M73HP			KHRP26M73HP	
3	Outdoor unit	multi connection piping kit	BHFP22P100	BHFP22P100 BHFP22P151			
4	Cool/Heat se	elector		KRC19-26A			

Option PCB

No.	Type	RXYQ12AH RXYQ14AH RXYQ16AH	RXYQ18AH RXYQ20AH RXYQ22AH	RXYQ24AH RXYQ26AH RXYQ28AH	RXYQ30AH RXYQ32AH RXYQ34AH	RXYQ36AH
1	DIII-NET expander adaptor			DTA109A51		
2	External control adaptor	DTA104A61				
3	Modbus communication adaptor			DTA116A51		

VRV H SERIES Standard Type

No.	Item	Туре	RXYQ6A RXYQ8A RXYQ10A	RXYQ12A RXYQ14A RXYQ16A	RXYQ18A RXYQ20A	RXYQ22A	
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)			
	piping	REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26	A22T, KHRP26A33T, KHRP2	26A72T	
2	Outdoor unit	multi connection piping kit		-	BHFP22P100		
3	Cool/Heat se	elector		KRC19-26A			

No.	Type		RXYQ24A	RXYQ26A RXYQ28A RXYQ30A RXYQ32A RXYQ34A RXYQ36A	RXYQ38A RXYQ40A RXYQ42A RXYQ44A	RXYQ46A RXYQ48A RXYQ50A RXYQ52A	RXYQ54A RXYQ56A RXYQ58A RXYQ60A	
1	Distributive REFNET header piping		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)				
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T					
2	Pipe size red	ucer	KHRP26M73TP, KHRP26M73HP					
3	Outdoor unit	multi connection piping kit	BHFP22P100 BHFP22P151					
4	Cool/Heat se	elector	KRC19-26A					

Option PCB

No.	Type	RXYQ6A RXYQ8A RXYQ10A RXYQ12A	RXYQ14A RXYQ16A RXYQ18A RXYQ20A	RXYQ22A RXYQ24A	RXYQ26A RXYQ28A RXYQ30A RXYQ32A RXYQ34A RXYQ36A	RXYQ38A RXYQ40A RXYQ42A RXYQ44A RXYQ46A RXYQ48A	RXYQ50A RXYQ52A RXYQ54A RXYQ56A RXYQ58A RXYQ60A
1	DIII-NET expander adaptor ★	DTA109A51					
2	External control adaptor ★	DTA104A61					
3	Modbus communication adaptor ★	DTA116A51					
4	Option plate for control adaptor	_	BKS26A *1	_	BKS26A *1		

Note: *1. This plate is necessary for each adaptor marked ★.

REFNET joint (KHRP26A22/33/72/73T)



VRV R SERIES High-COP Type

No.	Type		REYQ12TA REYQ14TA REYQ16TA REYQ18TA REYQ20TA	REYQ22TA	REYQ24TA	REYQ26TA REYQ32TA REYQ28TA REYQ34TA REYQ30TA REYQ36TA		
		3 Pipes	REFNET header	KHRP25M33H, KHRP25M72H (Max. 8 branch) (Max. 8 branch)			KHRP25M33H, KHRP25M72H (Max. 8 branch) (Max. 8 branch) KHRP25M73H (Max. 8 branch)	
	Distributive		REFNET joint	KHRP25A22T, KHRP25A33T, KHRP25A72T KHRP25A22T, KHRP2			5A33T, KHRP25A72T, KHRP25A73T	
ı	piping	2 Pipes	REFNET header	KHRP26M33H, KHRP26M72H (Max. 8 branch) (Max. 8 branch)			KHRP26M33H, KHRP26M72H (Max. 8 branch) (Max. 8 branch) KHRP26M73H (Max. 8 branch)	
			REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A			72T	
2	Pipe size red	ucer		KHRP25M72TP KHI			KHRP25M72TP, KHRP25M73TP, KHRP26M73HP	
3	Outdoor unit	multi conne	ection piping kit	BHFP26P90		BHFP26P136	6	

Option PCB

No.	Type	REYQ12TA REYQ14TA REYQ16TA	REYQ18TA REYQ20TA REYQ22TA	REYQ24TA REYQ26TA REYQ28TA	REYQ30TA REYQ32TA REYQ34TA	REYQ36TA
1	DIII-NET expander adaptor			DTA109A51		
2	External control adaptor			DTA104A61		

URU R SERIES Standard Type

No.	Item	Type		REYQ6TA REYQ8TA REYQ10TA	REYQ12TA REYQ14TA REYQ16TA REYQ18TA REYQ20TA	REYQ22TA	REYQ24TA	REYQ26TA REYQ32TA REYQ28TA REYQ34TA REYQ30TA REYQ36TA	
3 Pi		3 Pipes	REFNET header	KHRP25M33H (Max. 8 branch)	KHRP25M33H, KHRP25M72H, (Max. 8 branch) (Max. 8 branch)		KHRP25M33H, KHRP25M72H (Max. 8 branch) (Max. 8 branch KHRP25M73H (Max. 8 branch)		
1	Distributive	ive	REFNET joint	KHRP25A22T, KHRP25A33T		KHRP25A33T, 25A72T		RP25A22T, KHRP25A33T, RP25A72T, KHRP25A73T	
ı	piping	2 Pipes	REFNET header	KHRP26M33H (Max. 8 branch)		P26M33H, KHRP26M72H 8 branch) (Max. 8 branch) KHRP26A22T, KHRP26A33T, KI		KHRP26M33H, KHRP26M72H (Max. 8 branch) (Max. 8 branch KHRP26M73H (Max. 8 branch)	
			REFNET joint	KHRP26A22T, KHRP26A33T				HRP26A72T	
2	Pipe size red	Pipe size reducer			KHRP25M72TP		KHRP25M72TP, KHRP25M73T KHRP26M73HP		
3	Outdoor unit	Outdoor unit multi connection piping kit			-		BHFP:	26P90	

No.			Туре	REYQ38TA REYQ40TA	REYQ44TA REYQ46TA	REYQ50TA REYQ52TA	REYQ56TA REYQ58TA		
	Item			REYQ42TA	REYQ48TA	REYQ54TA	REYQ60TA		
		3 Pipes	REFNET header		KHRP25M33H, KHRP25M72H, KHRP25M73H (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)				
Distributi	Distributive		REFNET joint						
'	piping	2 Pipes	REFNET header			26M72H, KHRP26M73H 5 branch) (Max. 8 branch)			
			REFNET joint		KHRP26A22T, KHRP	26A33T, KHRP26A72T			
2	Pipe size reducer			KHRP25M72TP, KHRP25M73TP, KHRP26M73HP					
3	Outdoor unit multi connection piping kit			BHFP26P136					

Option PCB

No.	Type	REYQ6TA REYQ8TA REYQ10TA REYQ12TA	REYQ14TA REYQ16TA REYQ18TA REYQ20TA	REYQ22TA REYQ24TA	REYQ26TA REYQ28TA REYQ30TA REYQ32TA REYQ34TA REYQ36TA	REYQ38TA REYQ40TA REYQ42TA REYQ44TA REYQ46TA REYQ48TA	REYQ50TA REYQ52TA REYQ54TA REYQ56TA REYQ58TA REYQ60TA
1	DIII-NET expand adaptor ★			DTA10	09A51		
2	External control adaptor ★	DTA104A61					
3	Option plate for control adaptor	- BKS26A *1 - BKS26A *1					

Note: *1. This plate is necessary for each adaptor marked ★.

Outdoor Units

VRV IV S SERIES Heat Pump

No.	Item Type	RXYMQ3A	RXYMQ4A	RXYMQ5A	RXYMQ6A	RXYMQ8A	RXYMQ9A
1	Cool/Heat selector	KRC19-26A				_	
1-1	Fixing box		KJB:	_			
2	REFNET header	KHRP26M22H (Max. 4 branch)					
2	NETNET Header	KHRP26M33H (Max. 8 branch)					
3	REFNET joint		KHRP2	6A22T		KHRP26A22T,	KHRP26A33T
4	Central drain plug		KKPJ5G280		KKPJ5F180	KKPJ	G280
5	Fixture for preventing overturning	KKTP5B112		KPT-60B160	-60B160 KKTP5B112		
6	Wire fixture for preventing overturning	- K-KYZP15C					

VRV IV Q SERIES Heat Pump (Standard Type)

No.	ltem Type		RQYQ6T(E) RQYQ10T(E)	RQYQ12T(E) RQYQ14T(E) RQYQ16T(E)		
1	Distributive piping	REFNET header	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)		
		REFNET joint	KHRP26A22T KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T		
2	Cool / Heat selector		KRC19-26A			

No.	Item	Туре	RQYQ18TN(E) RQYQ20TN(E)	RQYQ22TN(E)	RQYQ24TN(E) RQYQ26TN(E)	RQYQ28TN(E) RQYQ30TN(E) RQYQ32TN(E)	
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch), KHRP26M72H (Max. 8 branch)		KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch)		
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T		KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T		
2	Pipe size reducer		-		KHRP26M73TP, KHPR26M73HP		
3	Outdoor unit multi connection piping kit		BHFP22P100				
4	Cool / Heat selec	tor		KRC1	9-26A		

No.	Item	Туре	RQYQ34TN(E) RQYQ36TN(E)	RQYQ38TN(E) RQYQ40TN(E)	RQYQ42TN(E) RQYQ44TN(E)	RQYQ46TN(E) RQYQ48TN(E)			
1	Distributive piping	REFNET header		KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)					
	Piping	REFNET joint		KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T					
2	Pipe size reducer		KHRP26M73TP, KHPR26M73HP						
3	Outdoor unit multi connection piping kit		BHFP22P151						
4	Cool / Heat selec	ctor		KRC19	1-26A				

VRV IV Q SERIES Heat Pump (Space Saving Type)

N	lo.	Item Type		RQYQ18T(E) RQYQ20T(E)
-	1	Disinbutive REFNET header piping		KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)
	piping	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T	
2	Cool / Heat selector		or	KRC19-26A

No.	Item	Туре	RQYQ30TS(E)	RQYQ32TS(E)	RQYQ34TS(E)	RQYQ36TS(E)	RQYQ38TS(E)	RQYQ40TS(E)
1	Disinbutive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)					
		REFNET joint		KHRP26	A22T, KHRP26A33T,	KHRP26A72T, KHRP	26A73T	
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP					
3	Outdoor unit connection piping kit		BHFP22P100					
4	Cool / Heat selector	or	KRC19-26A					

No.	Item	Туре	RQYQ42TS(E) RQYQ44TS(E) RQYQ46TS(E) RQYQ48TS(E)				
1	Disinbutive REFNET header piping		KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)				
	piping	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				

□ P □ III-Q Heat Recovery

No.	Item	Туре	RQCEQ280P RQCEQ360P	RQCEQ460P RQCEQ500P	RQCEQ540P RQCEQ636P	RQCEQ712P RQCEQ744P RQCEQ816P RQCEQ848P
	REFNET header KH		KHRP25M72H KHRP26M22H	(Max. 8 branch) (Max. 8 branch) (Max. 4 branch) (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)
1	Distributive piping	REFNET joint	KHRP25A33T (KHRP25A72T (KHRP26A22T ((Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 4 branch) (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 co	nnection piping kit	BHFP26P36C	BHFP2	26P63C	BHFP26P84C
3	Digital pressure gaug	e kit	BHGP26A1×2	BHGP26A1×3		BHGP26A1×4

IN W SERIES Heat Pump / Heat Recovery

No.	Type		RWEYQ6T RWEYQ8T RWEYQ10T RWEYQ12T	RWEYQ14T RWEYQ16T RWEYQ18T RWEYQ20T RWEYQ22T RWEYQ24T	RWEYQ26T RWEYQ28T RWEYQ30T RWEYQ32T RWEYQ34T RWEYQ36T			
1	Cool/heat selector		KRC19	0-26A (Applies to heat pump type only)				
1-1	Fixing box		KJB1	11A (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), KHRP26M73H (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	For heat pump	_	BHFP22MA56	BHFP22MA84			
3	connection piping kit	For heat recovery	_	BHFP26MA56	BHFP26MA84			
4	External control adap	otor	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 WS SERIES

No.	Item	Туре	RWQ3A	RWQ4A	RWQ5A	RWQ6A	
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)				
		REFNET joint		KHRP	26A22T		

VRV Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type



No.	Item			Туре	FXFSQ25A FXFSQ32A FXFSQ40A	FXFSQ50A FXFSQ63A FXFSQ80A	FXFSQ100A FXFSQ125A FXFSQ140A			
1	Decoration	Standard panel with	Fresh whit	te		BYCQ125EEF				
'	panel	sensing	Black			BYCQ125EEK				
2	Sealing materi	ial of air discharge outlet 1	For usage	of 3-, 4-way flow		KDBH551C160				
2	Sealing materi	iai oi ali discriarge odilet	For usage	of 2-way flow		KDBH552C160				
3	Panel spacer					KDB55J160F				
			Chamber	Without T-duct joint	KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) 5					
4	Fresh air intake kit		type ^{2,3} With T-duct joint		KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) ⁵					
			Direct installation type 4			KDDP55X160A				
5	High-efficienc	y filter unit 6	(Colorimetric method 65%)		KAF5	56D80	KAF556D160			
5	(Including filte	er chamber)	(Colorimetric method 90%)		KAF5	57D80	KAF557D160			
6	Banlasament	high-efficiency filter 6,7	(Colorimet	tric method 65%)	KAF5	52D80	KAF552D160			
O	neplacement	riigii-eiliciericy liiter -	(Colorimet	tric method 90%)	KAF5	53D80	KAF553D160			
7	Filter chambe	r			KDDFP55C160					
8	Replacement	long-life filter			KAF5511D160					
9	Ultra long-life	filter unit (Including filter o	hamber) ⁶		KAF555D160					
10	Replacement ultra long-life filter 6.7				KAF550D160					
11	Branch duct of	chamber 1			KDJP:	55C80	KDJP55C160			
12	Insulation kit f	for high humidity 6,8			KDTP5	5K80A	KDTP55K160A			

- Note: 1.Circulation airflow is not available with this option.

 2.When installing a fresh air intake kit (chamber type), two air outlet corners are closed.

 3.It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will
 - increase the operating sound and may also influence temperature sensing.

 4. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.
- 5.Please order using the names of both components instead of set name 6.This option cannot be installed to designer panel and auto grille panel.
- Filter chamber is required.
- 8.Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.

Ceiling Mounted Cassette (Round Flow) Type



No.	Item		Туре	FXFQ25P FXFQ	32P FXFQ40F	FXFQ50P	FXFQ63P	FXFQ80P	FXFQ100P	FXFQ125P
1	Decoration panel			BYCP125K-W1						
2	Sealing material of air di	Sealing material of air discharge outlet				KDBH:	55K160F			
3	Panel spacer					KDB5	5J160F			
		High efficiency	filter unit 65%		KAF	556D80			KAF55	6D160
		High efficiency	filter unit 90%		KAF	557D80			KAF55	7D160
		Replacement high efficiency filter 65%			KAF	552D80			KAF55	2D160
4	Filter related	Replacement high efficiency filter 90%		KAF553D80				KAF55	3D160	
4		Filter chamber				KDDFF	P55C160			
		Long life replacement filter		KAF5511D160						
		Ultra long-life filter unit		KAF555D160						
		Replacement u	Itra long-life filter	KAF550D160						
		0	Without T-duct joint	KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) *1						
5	Fresh air intake kit	Chamber type	With T-duct joint	KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) *1						
		Direct installati	on type	KDDP55X160A						
6	Branch duct chamber	h duct chamber			KDJP55B80 KDJP55B16				55B160	
7	Chamber connection kit			KKSJ55K160						
8	Insulation kit for high hur	lation kit for high humidity			KDTP55K80A KDTP55K1			5K160A		

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

Options of Ceiling Mounted Cassette (Round Flow with Sensing) Type

Options required for specific operating environments

Ultra long-life filter unit

Even in dusty environments where the air conditioning is constantly operating, the ultra long-life filter only has to be cleaned once a year.



Dusty area: annual filter change

*For dust concentration of $0.3~mg/m^3$ (Requires separately sold Air purifier.) 1 year (Approx. 5,000 hr) \rightleftharpoons 15 hr/day x 28 day/month x 12 month/year

Ordinary store or office: filter change every 4 years

*For dust concentration of 0.15 mg/m

4 years (Approx. 10,000 hr) \(\Rightarrow\) 8 hr/day x 25 day/month x 12 month/years x 4 years

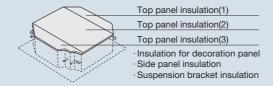
High-efficiency filter unit

Available in two types: 65% and 90% colorimetry.



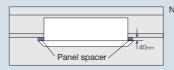
Insulation kit for high humidity

Please use if you think the temperature and humidity inside the ceiling exceeds 30°C and RH 80%, respectively.



Panel spacer

Use when only minimal space is available between drop ceilings and ceiling slabs.



Note: Some ceiling constructions may hinder installation. Contact your Daikin Dealer before installing

Sealing material of air discharge outlet

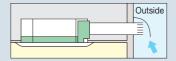
Sealing material block air discharge openings not used in 2-way or 3-way blow.

Branch duct chamber

This chamber lets you connect a round flexible duct to the air discharge opening at any time after the original installation.

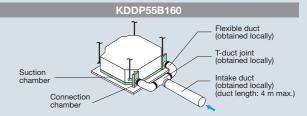
Fresh air intake kit Note 1, 2

Using this kit, a duct can be connected to take in outdoor air. There are two chamber types that have intake in two places: with T-duct joint and without T-duct joint.

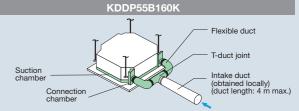


The units can be installed in the following different ways

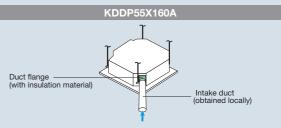
Chamber type (without T-duct joint) Note 3, 4, 5



Chamber type (with T-duct joint) Note 3, 4, 5



Direct installation type Note 6



Note: 1. Use of options will increase operating sound.

- 2. Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be obtained locally.
- 3. When a local-obtained fan is used, an interlock with air conditioner is necessary. Optional PCB (KRP1C11A) is required for interlocking.
- 4. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
- 5. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.
- 6. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is

■ VRV Indoor Units

Ceiling Mounted Cassette (Compact Multi Flow) Type

No.	Item	Туре	FXZQ20A2	FXZQ25A2	FXZQ32A2	FXZQ40A2	FXZQ50A2
1	Decoration panel			BYFQ60C2W1W			
2	Sealing material of air discha	BDBHQ44C60					
3	Sensor kit		BRYQ60A2W				
4	Replacement long-life filter		KAF441C60				
5	Fresh air intake kit	Direct installation type	KDDQ44XA60				

4-Way Flow Ceiling Suspended Type



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

Ceiling Mounted Cassette (Double Flow) Type



No.	Item	Model	FXCQ20A	FXCQ25A	FXCQ32A	FXCQ40A	FXCQ50A	FXCQ63A	FXCQ80A	FXCQ125A
1	Decoration panel			BYBCQ40CF			BYBCQ63CF		BYBCQ125CF	
2	High efficiency filter *1	65 %	KAF532C50			KAF532C80		KAF5	32C160	
	High efficiency litter 1	90 %	KAF533C50				KAF5	33C80	KAF5	33C160
3	Filter chamber for bottom suc	KDDFP53B50			KDDFP53B80		KDDFF	953B160		
4	Long life replacement filter		KAF531C50			KAF5	31C80	KAF5	31C160	

Note: *1. If installing high efficiency filter, filter chamber is required.

Ceiling Mounted Cassette (Single Flow) Type



No.	Type	FXEQ20A FXEQ25A	FXEQ32A FXEQ40A	FXEQ50A FXEQ63A
1	Decoration panel	BYE	P40AW1	BYEP63AW1

Slim Ceiling Mounted Duct Type (Compact Series)



No.	Item Type	FXDQ20T FXDQ25T FXDQ32T	FXDQ40T FXDQ50T	FXDQ63T
1	3-D Auto Swing Discharge Grille	BDG20A09	BDG20A15	BDG20A20
2	Auto Clean Air Filter Module	BAE20A62	BAE20A82	BAE20A102

Slim Ceiling Mounted Duct Type (Standard Series)



No.	Item Type	FXDQ20PD FXDQ25I	D FXDQ32PD	FXDQ40ND	FXDQ50ND	FXDQ63ND	
1	Insulation kit for high humidity	KDT25N3		KDT2	25N50	KDT25N63	

Ceiling Concealed (Duct) Type



No.	Item Type	FXDYQ80MA	FXDYQ100MA	FXDYQ125MA	FXDYQ145MA
1	Run/fault status PCB		KRP1	1B5X	

Middle Static Pressure Ceiling Mounted Duct Type



No.	Item	Туре	FXSQ20PA FXSQ25PA FXSQ32PA	FXSQ40PA	FXSQ50PA FXSQ63PA FXSQ80PA	FXSQ100PA FXSQ125PA	FXSQ140PA
	High efficiency filter *1 65% 90%	65%	KAF632C36	KAF632C56	KAF632C80	KAF632C160	KAF632B160B
1		90%	KAF633C36	KAF633C56	KAF633C80	KAF633C160	KAF633B160B
2	Filter chamber (for rear suction) *1		KDDFP63B36	KDDFP63B56	KDDFP63B80	KDDFP63B160	KDDF63B160B
3	Long-life filter *1		KAF631C36	KAF631C56	KAF631C80	KAF631C160	KAF631B160B
		White	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W	
4	Service panel	Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
	Brown	Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ2	5K160T
5	Air discharge adaptor		KDAP25A36A	KDAP25A56A	KDAP25A71A	KDAP25A140A	KDAP25A160A *2
6	Shield plate for side plate			KDBD6	63A160		_

Note: *1. If installing high efficiency filter and long-life filter to the unit, filter chamber is required.

Ceiling Mounted Duct Type



No.	Item	Туре	FXMQ20PA FXMQ25PA FXMQ32PA	FXMQ40PA	FXMQ50PA FXMQ63PA FXMQ80PA	FXMQ100PA FXMQ125PA FXMQ140PA	FXMQ160P FXMQ180P FXMQ200P FXMQ250P
1	Drain pump kit			BDU37A250			
2	High efficiency filter	65%	KAF372AA36	KAF372B56	KAF372B80	KAF372B160	
2		90%	-	KAF373B56	KAF373B80	KAF373B160	
3	Filter chamber		-	KDDF37AA56	KDDF37AA80	KDDF37AA160	
4	Long life replacement filter		-	KAF371B56	KAF371B80	KAF371B160	
5	Long life filter chamber kit		-	KAF375B56	KAF375B80	KAF375B160	_
		White	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W	
6	Service panel	Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T	
7	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A	

Ceiling Suspended Type



No.	Item Type	FXHQ32MA	FXHQ63MA	FXHQ100MA	FXHQ125A	FXHQ140A		
1	Drain pump kit	KDU50N60VE	KDU50	KDU50N125VE		KDU50R160		
2	Replacement long-life filter	KAFJ501D56	KAFJ501D80	KAFJ501D112	KAF501B160			
3	L-type piping kit (for upward direction)	KHFP5M63	KHFP:	KHFP5M160		KHFP5N160		

Wall Mounted Type



No.	Item Type	FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
1	Drain pump kit	K-KDU572EVE					
2	External EV kit (for heating operation) *1	BEV15D BEV30D				/30D	

Note: *1. This option is only effective for reducing operation sound during heating operation. Therefore it is ineffective when connected to cooling only outdoor units.

Floor Standing Type



No.	Item Type	FXLQ20MA FXLQ25MA	FXLQ32MA FXLQ40MA	FXLQ50MA FXLQ63MA
1	Long life replacement filter	KAF361L28	KAF361L45	KAF361L71

Concealed Floor Standing Type



No.	Item Type	FXNQ20MA FXNQ25MA	FXNQ32MA FXNQ40MA	FXNQ50MA FXNQ63MA
1	Long life replacement filter	KAF361L28	KAF361L45	KAF361L71

^{*2.} This option is a set of KDAP25A140A and KDBHP37A160.

Residential Indoor Units with Connection to BP Units

Ceiling Mounted Cassette (Compact Multi Flow) Type



No	Item	Туре	FFQ25B	FFQ35B	FFQ50B	FFQ60B	
1	Decoration panel			BYFQ60	B3W1		
2	Replacement long-life f	ilter	KAF441C60				
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	FDXS25C	FDXS35C	FDXS50C	FDXS60C
1	Insulation kit for high humidity		KDT25N50		KDT25N63

Wall Mounted Type

No.	Item Type	FTXS20K	FTXS25K	FTXS35K	FTXS50KA	FTXS60KA	FTXS71KA
1	Titanium apatite deodorising filter			KAF9	70A46		

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

BP Units for Connection to Residential Indoor Units



No.	Item Type	BPMKS967A3	BPMKS967A2
1	REFNET joint	KHRP26	SA22T

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	BSQ100A	BSQ160A	BSQ250A
1	Quiet kit		KDDN26A1	
2	External control adaptor for outdoor units		DTA104A61	
3	Adaptor for multi tenant		DTA114A61	

Centralised BS Unit



No.	Item Type	BS4Q14A	BS6Q14A BS8Q14A	BS10Q14A BS12Q14A	BS16Q14A			
1	Closed pipe kit	KHFP26A100C						
2	Joint kit	KHRP26A250T						
3	Quiet kit	KDDN26B4	KDDN26B8	KDDN26B12	KDDN26B16			

Control Systems

Operation Control System Optional Accessories

Remote sensor BRCS01A-1(4)

For VRV indoor unit use

No.	Туре	FXFSQ-A	FXFQ-P	FXZQ-A2	FXUQ-A	FXCQ-A	FXEQ-A	FXDQ-T	FXDQ-PD FXDQ-ND
1	"Nav Ease" remote controller	BRC1E63 Note 5	BRC	1E63	BRC1E63 Note 5	BRC1E63	BRC1F61	BRC	1E63
2	Simplified remote controller	_				BRC2E61			
3	Wireless remote controller	BRC7M634F (Fresh White) / BRC7M634K (Black)	BRC7M634F	BRC7E530W	BRC7CB58	BRC7M65	BRC4M61	BRC	4C65
4-1	Adaptor for wiring (operation status output)	★BRP11B62						_	★BRP11B61
4-2	Adaptor for wiring	★KRP1C11A	★KRP1C63	★KRP1BA57	_	★KRP1B61	_	★KRP1C64	★KRP1B56
5-1	Wiring adaptor for electrical appendices (1)	_	★KRP2A62	★KRP2A526	_	★KRP2A61	_	★KRP2A61	★KRP2A53
5-2	Wiring adaptor for electrical appendices (2)	★KRP4AA53			★KRP4AA51	_	★KRP4AA51	★KRP4A54	
6	Remote sensor (for indoor temperature)	KRCS01-5B	BRCS01A-4		BRCS01A-1	BRCS	01A-4	BRCS01A-1	
7	Installation box for adaptor PCB☆	Note KRP1	2, 3 H98A	Note 4 KRP1BA101	KRP1BA97	Note 2, 3 KRP1B96	-	I RRPGAGN	Note 4 KRP1BA101
8	External control adaptor for outdoor unit	7	★DTA104A62		_	★DTA104A61	_	★DTA104A61	★DTA104A53
9	Adaptor for multi tenant	7	*DTA114A61				_		
10	Multi tenancy kit			-	_			Note 2 KRP114A3	_

No.	Type	FXDYQ-MA	FXSQ-PA	FXMQ-PA	FXMQ-P	FXHQ-MA	FXHQ-A	FXAQ-A	FXLQ-MA FXNQ-MA
1	"Nav Ease" remote controller				BRC1E63				
2	Simplified remote controller				BRC2E61				
3	Wireless remote controller	BRC4C62		BRC4C65		BRC7EA63W	BRC7M53	BRC7M675	BRC4C62
4-1	Adaptor for wiring (operation status output)	_	★BRP	11B62	_	★BRP11B61		_	BRP11B62
4-2	Adaptor for wiring	KRP1B61	★KRF	P1C64	★KRP1C67	KRP1BA54		_	KRP1B61
5-1	Wiring adaptor for electrical appendices (1)	KRP2A61	★ KRF	P2A61	★KRF	★KRP2A62 —		★KRP2A61	KRP2A61
5-2	Wiring adaptor for electrical appendices (2)	KRP4AA51	★KRP	4AA51	★KRP4AA52			★KRP4AA51	KRP4AA51
6	Remote sensor (for indoor temperature)	BRCS01A-1	BRCS	01A-4	BRCS01-6B	BRCS01A-1 BRCS01A-4		BRCS	01A-1
7	Installation boy for adoptor DCP		Note 2, 3	Note 2, 3	BRP9A90	Note 3	Note 3	Note 2, 3	
1	Installation box for adaptor PCB☆	_	KRP4A98	KRP4A97	DHF9A90	KRP1CA93	KRP1D93A	KRP4AA93	_
8	External control adaptor for outdoor unit	DTA104A61	DTA104A61 ★DTA104A61		— ★DTA104A62		104A62	★DTA104A61	DTA104A61
9	Adaptor for multi tenant	_ ★DTA1		14A61 —		★DTA114A61	_		

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

- 2. Up to 2 adaptors can be fixed for each installation box.
- Only one installation box can be installed for each indoor unit.
 Up to 2 installation boxes can be installed for each indoor unit.
- 5. Some functions can be set only via the wired remote controller BRC1E63. They cannot be set via other remote controllers.
- Please refer to each indoor unit and remote controller page for function details
- 6. Since the control panel is equipped as standard, use the option of BRC1E63 for 2 remote control system.

 7. When using BRC1E63 or BRC2E61, be sure to remove the control panel and since BRC1E63 and BRC2E61 cannot be stored inside the indoor unit, please place it separately.



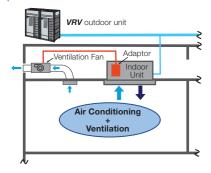
Adaptor for wiring (operation status output) Example: Interlocking operation of the indoor unit and ventilation fan that takes in fresh air.



BRP11B61

BRP11B62

By installing it in the indoor unit with a simple wire connection, this adaptor takes out the operating signals for the indoor unit fan and the compressor and enables the interlocking of equipment such as the ventilation fan.



Control Systems

Operation Control System Optional Accessories

For residential indoor unit use

No.	Item	Туре	FFQ-B	FDXS-C	FTXS-K(A)		
-1	Remote controller Wired Note 1 Wireless		BRC1E63	BRC944B2 Note 2			
			BRC7E530W	_ Note 3			
2	Wired remote	Length 3 m (shielded wire)	_	BRCW901A03			
	controller cord	Length 8 m (shielded wire)	-	BRCW901A08			
3	Adaptor for wiring		Note 4 KRP1BA57	_			
4	Wiring adaptor for e	lectrical appendices	Note 4 KRP4AA53	-	-		
5	Installation box for a	daptor PCB	KRP1BA101	-			
6	Remote sensor (for indoor temperature)		BRCS01A-1	-			
7	Wiring adaptor for time clock/remote controller Note 5 (Normal open pulse contact/normal open contact)		-	KRP41	3BB1S		
8	Remote controller loss prevention chain		-	KKF917A4 KKF910A4			
9	Interface adaptor for	r 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 FDXS and FTXS 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	Interface adaptor for residential indoor units	KRP928BB2S	Adaptors required to connect products other than those of the VRV System to		
3	Interface adaptor for SkyAir-series	Note 3 ★DTA112BA51	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		
4	Central control adaptor kit For UAT(Y)-K(A),FD-K	★DTA107A55	installed on the product unit to be controlled.		
5	Wiring adaptor for other air-conditioner	★DTA103A51	motaned on the product dim to be controlled.		
6	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. 		
6-1	External control adaptor	DTA104A61	Demand control of individual or multiple systems. Low noise option for individual or multiple systems.		
6-2	Mounting plate	BKS26A	 When installing DTA109A51, DTA104A61 into outdoor units of 14 class or larger. 		

Note: 1. Installation box for ★ adaptor must be obtained locally.

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

3. No adaptor is required for some indoor units.

Building Management System

1 1-1	intelligent Touch Controller	Basic						
1-1		Dasic	Hardware	intelligent Touch Controller	DCS601C51	Air-Conditioning management system that can be controlled by a compact all-in-one unit.		
	Controller	Option	Hardware	DIII-NET plus adaptor	DCS601A52	Additional 64 groups (10 outdoor units) is possible.		
1-2	Electrical box wit	h earth te	erminal (4 b	locks)	KJB411A	Wall embedded switch box.		
2		Basic Hardware intelligent To Manager		intelligent Touch Manager	DCM601A51	Air-conditioning management system that can be controlled by touch screen.		
2-1			Hardware	iTM plus adaptor	DCM601A52	Additional 64 groups (10 outdoor units) is possible. Max. 7 iTM plus adaptors can be connected to intelligent Touch Manager.		
2-2	intelligent Touch			iTM power proportional distribution	DCM002A51	Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh metre.		
2-3	Manager	Option	Software	iTM energy navigator	DCM008A51	Building energy consumption is visualised. Wasted air-conditioning energy can be found out.		
2-4				BACnet® client	DCM009A51	BACnet® equipment can be managed by intelligent Touch Manager.		
2-5				HTTP Interface	DCM007A51	Interface for intelligent Touch Manager by HTTP		
2-6							SVMPR2	VRV Smartphone Control System for residence
2-7			Hardware	*1 SVM series	SVMPC2	VRV Smartphone Remote Controller for building		
2-8					*5 SVMPS1	Tenant Billing System with PPD		
2-9	VRV Smartphone Control System				SVMPR1	VRV Smartphone Control System for residence with DTA116A51.		
2-10	VRV Tablet and S	Smartpho	one Controll	er	SVMPC1	*6 • VRV Tablet and Smartphone Controller for small size building or residence with DTA116A51.		
2-11	Multi Site Manag	ement S	ystem by us	sing SVMPC1	MSMPN1	MSM can control all VRV units via SVM system on multi site.		
2-12	Di unit				DEC101A51	8 pairs based on a pair of ON/OFF input and abnormality input.		
2-13	Dio unit				DEC102A51	4 pairs based on a pair of ON/OFF input and abnormality input.		
3		*2 Interfa	ace for use	in BACnet®	DMS502B51	Interface unit to allow communications between <i>VRV</i> and BMS. Operation and monitoring of air-conditioning systems through BACnet® communication.		
3-1		Optiona	I DIII board		DAM411B51	Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.		
3-2	Communication	Optiona	Di board		DAM412B51	Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.		
4	interface	*3 Interfa	ace 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		*8 Modbus® Communication Adaptor		DTA116A51	*7 • Use of the Modbus® protocol enables the connection of the VRV system with a variety of home automation systems from other manufacturers.			
5-1		Mountin	ng plate		BKS26A	When installing DTA116A51 into outdoor units of 14 class or larger.		
6	Contact/ analogue signal	Unification adaptor for computerised		★ DCS302A52	Interface between the central monitoring board and central control units.			

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

e: "1. H I I P 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.

*5. PPD option (DCM002A51) for iTM is also required.

*6. Possible to connect at a maximum of 2 DTA116A51.

*7. Modbus[®] is a registered trademark of Schneider Electric S.A.

*8. Cannot apply for *VRV* R series.

Daikin Engineering Supports

■ VRV Design and Sales Proposal Assistance

Daikin provides engineering supports for *VRV* systems. It consists of design supports that can assist consultants and architects, as well as sales proposal supports for air conditioning engineers and dealers. We at Daikin provide the software, the simulation results, and drawing materials to support the business-information modeling (BIM) currently entering the mainstream in construction industries.









Model Selection Software

VRV Xpress

VRV Xpress is a flexible design software that optimises equipment selection. It can empower consultants and air conditioning engineers so they can fully enhance their equipment selections to design the most effective, optimum systems possible. The software also allows the choice of outdoor units based on peak loads rather than the sum of required capacities for each indoor unit. This fine-tuning feature reduces **VRV** system sizes and increases efficiency.



CFD Simulation to Optimise Outdoor Unit Layouts DT FLOW II

DT FLOW II is a simulation software that uses computational fluid dynamics (CFD), aiming to optimise outdoor unit layouts right at the design stage. When discharged air from the outdoor unit is drawn back into the suction vent, it can short circuit the system and lead to: decrease in efficiency of cooling operations, capacity shortages, operation cut-offs, and shorter lifetime for the outdoor unit. To avoid the need for expensive layout modifications once construction is complete, Daikin uses the CFD method at the early design stage. This can help consultants and architects optimise their outdoor unit arrangement.



Drawing Supports

CAD Symbols

Users download CAD symbol drawing materials, including 2D CAD symbols and 3D Revit data, for **VRV** systems designing. The 3D Revit data contains specifications for Daikin products, including things like capacities and electric characteristics to support Business Information Modeling (BIM).







- 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.

VRV is a trademark of Daikin Industries. Ltd.

VRV is a traderial of Dalkin industries, Etd.

VRV Air Conditioning System is the world's first individual air conditioning system with variable refrigerant flow control and was commercialised by Daikin in 1982.

VRV is the trademark of Daikin Industries, Ltd., which is derived from the technology we call "variable refrigerant volume."