



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

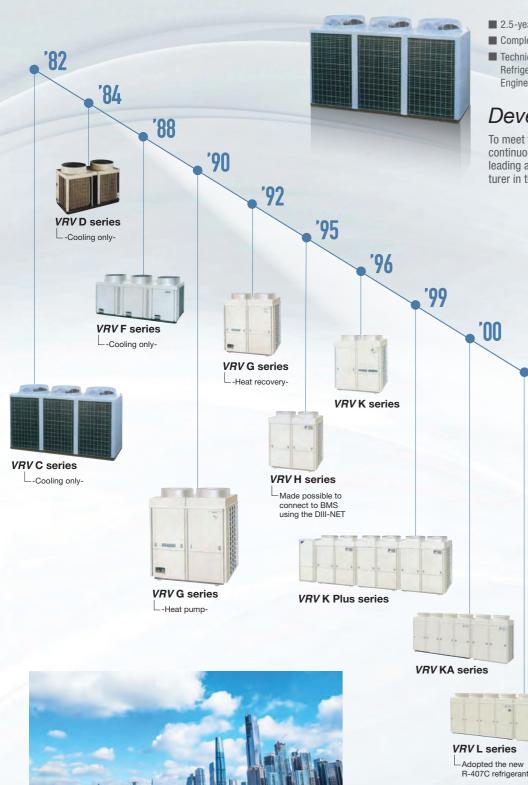


Background of VRV development

The 1st Generation

VRV series released in 1982

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



- 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

VRV II MA series

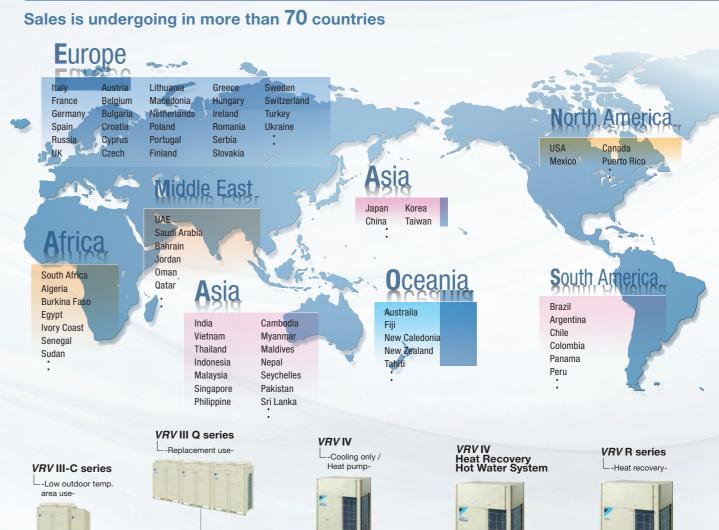
VRV II M series

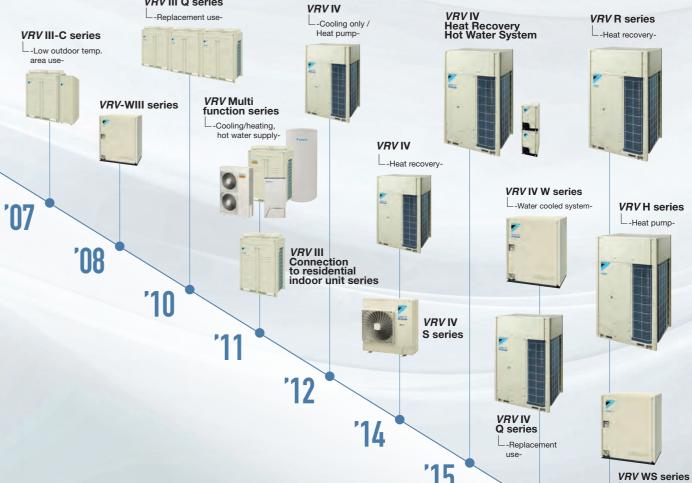
Adopted the new R-410A refrigerant

leading air conditioning manufacturer manufacturer in the world. '00 '02 '04 '05 '06 VRV-WII series VRV II-S VRV III-S VRV KA series VRV III series

* VRV is a trademark of Daikin Industries, Ltd.

Expansion of the country of sale





'16

VRV User Benefits



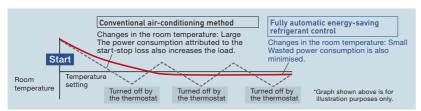
First launched in 1982, the Daikin *VRV* system has been providing comfort and reliability to building owners and their tenants for over 35 years. Leveraging the latest in energy-saving technology, Daikin has further improved energy savings while reducing space requirements. This added value is one reason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

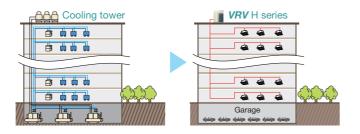
While optimally operating at low load, it maintains a comfortable indoor environment.





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

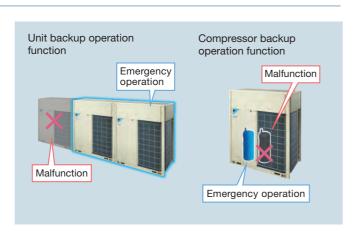
Daikin **VRV** outdoor unit goes beyond just highly reliable compressors with a backup system that ensures continued operation.

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.





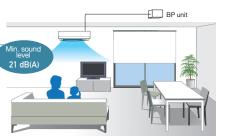
Comfortable environment

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. 21 dB(A), and to reduce the noise of refrigerant passing through the piping by remotely installing an BP unit.



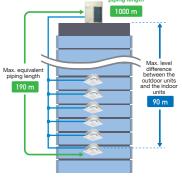
CONSULTANT and DESIGN OFFICES

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.

P.79

P.103

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.



Heat Pump





I ineup

Saves space and deliver
excellent performance

The new 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.

Maximum comfort via simultaneous

The new VRV R series enables simultaneous operation of

by controlling the BS unit. This series also substantially improves energy efficiency by recycling exhaust heat.

cooling and heating within a single refrigerant piping circuit

Especially designed for

small offices and shops

residential houses,

P.11

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P.51

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	•																											

cooling and heating

URVIR SERIES

Heat Recovery





Lineup	
ologo	Г

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	6
High-COP Type						•	•		•		•	•															
Standard Type						•	•	•	•	•	•	•	•				•					•		•			

URV IV S SERIES

Heat Pump



RXYMQ-A

Lineup

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.

		-
3.5-6 class	1-phase, 220-230 V/220 V, 50/60 Hz	
8-9 class	3-phase, 380-415 V, 50 Hz	i

Lilioup							
class	3.5	4	5	6	8	9	
Heat Pump		•		•			
							î

VRV IV Q SERIES

Heat Pump



380-415 V, 50 Hz

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



380-415 V, 50 Hz

Lineup

	class		6	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	Heat	Standard Type		•	•			•					•										•		
series	Pump	Space Saving Type																					•		
VRV III Q series	Heat Rec	overy			•		•		•	•		•	•	•	•										

For quick & high quality

VRV unit, can be installed using existing

refrigerant piping, so renovation of the air conditioning system can be carried out quickly

activities and users in the building.

VRV IV Q series/VRV III Q series, a replacement

and smoothly. This minimises inconveniences to

replacement use

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 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 3		
	14 16 18 20 22 24 26 28 30 32	34 36
Heat Pump • • • • • • • • •		• •
Heat Recovery		• •

URIV WS SERIES

Heat Pump



RWXYQ-A

1-phase, 220-240 V, 50 Hz

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

New lineup Ceiling Mounted Cassette FXFSQ-AVM (Round Flow with Sensing) Ceiling Mounted Cassette FXFQ-PVE (Round Flow) Ceiling Mounted Cassette FXZQ-A2VEB (Compact Multi Flow) 4-Way Flow Ceiling FXUQ-AVEB Suspended Ceiling Mounted Cassette FXCQ-MVE (Double Flow) Ceiling Mounted Cassette New FXEQ-AV36 (Single Flow) Mounted Duct New FXDQ-TV1B(A) (Compact Series) New FXDQ-PDVE Slim Ceiling (700mm width type Mounted Duct (Standard Series) New FXDQ-NDVE 900 / 1,100mm width type Ceiling Concealed Duct FXDYQ-MAV1 Middle Static New FXSQ-PAVE Pressure Ceiling Mounted Duct New FXMQ-PAVE Ceiling Mounted Duct New FXMQ-PV1A Outdoor-Air FXMQ-MFV1 **Processing Unit** FXHQ-MAVE Ceiling Suspended Wall Mounted FXAQ-PVE Floor Standing FXLQ-MAVE Concealed FXNQ-MAVE Floor Standing Heat Reclaim Ventilator VKM-GA(M)V1 Airflow rate 500-1000 m³/h with DX-Coil and Humidifier Heat Reclaim Ventilator VAM-GJVE Airflow rate 150-2000 m³/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)						
	CTXG-PVMAW							
Wall	CTXG-PVMAS							
Mounted	FTXS-KVMA							
	FTXS-KAVMA							

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









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Delivers Excellent Performance VRV H SERIES



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

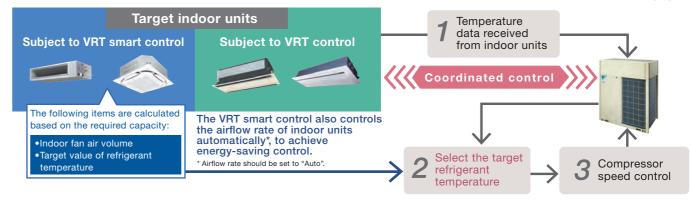
Daikin's VRT Smart technology takes comfort and energy performance to the next level. Building on our variable refrigerant temperature technology which enables the evaporating temperature to adjust to meet the varying load. VRT Smart is now also able to automatically adjust the indoor unit airflow rate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

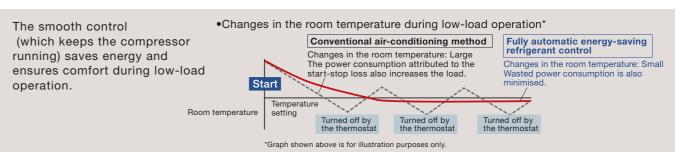


Control Function VRVH SERI Heat Pump

Overview of the control (system control flow)

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





- •For the classification of indoor units (VRT smart control and VRT control), refer to pages 23–24.
- •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

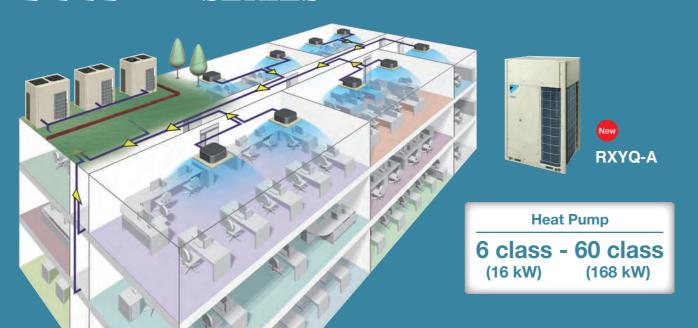
VRT Smart and VRT control is most effective when all the indoor units operate under low load conditions in a similar manner. Low load conditions is the time when room temperature approaches set temperature. For this reason, please note the following to maximise efficacy.

•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



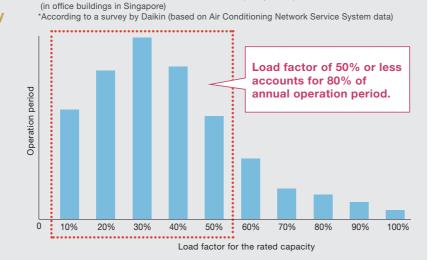
Greater energy savings during low-load operation

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

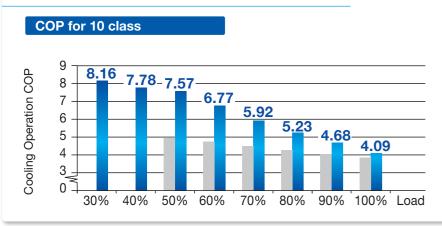
This inspired us to develop new technologies to enhance energy efficiency during low-load operation.

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



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

Higher Coefficient of Performance (COP)



Annual power consumption 14%* lower

- * Simulation conditions:
- · 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

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.



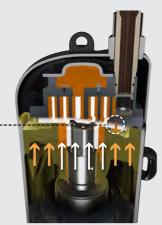
The force pressing the orbiting scroll decreases during low-load operation.

Intermediate pressure adjustment port

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

New intermediate pressure mechanism

The pressure on the orbiting scroll is optimised 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.

* 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.

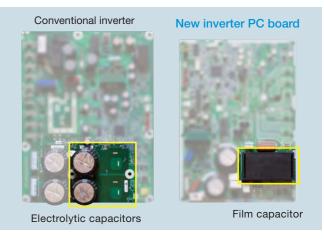
* Operation calculation conditions: VRV H series 14 class

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))

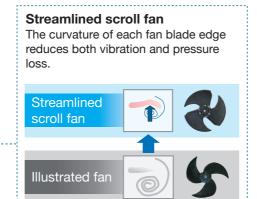
	6/8 class	10 class	12 class	14/16 class
URV H SERIES	56	57	59	60

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.





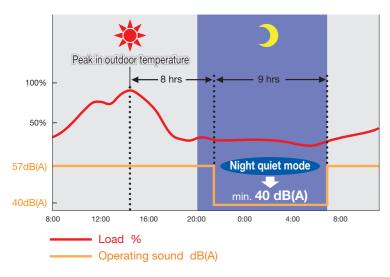


Nighttime quiet operation function

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.

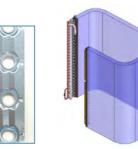
Compact design with high performance

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.

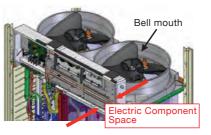


4-sided heat exchanger

High efficiency heat exchanger is realised by reducing airflow resistance with adoption of small cooling tubes with a diameter of $\Phi 7$.

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.

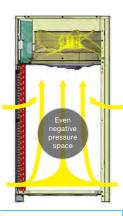
 High pressure since air enters near the fan blower inlet

High pressure

Negative pressure space

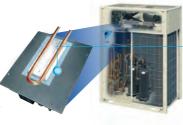
Eliminate suction resistance issue

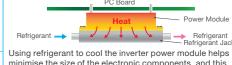
Without affecting the fan volume, the electric components are designed to be at the top and this ulitises dead space. This eliminates the problem of suction resistance.



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.





results in reduction of airflow resistance and high efficiency of the heat exchanger.

Control board failure ratio

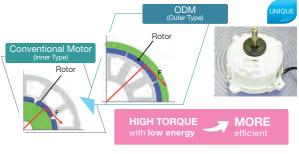
Outer Rotor DC Motor (ODM)

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



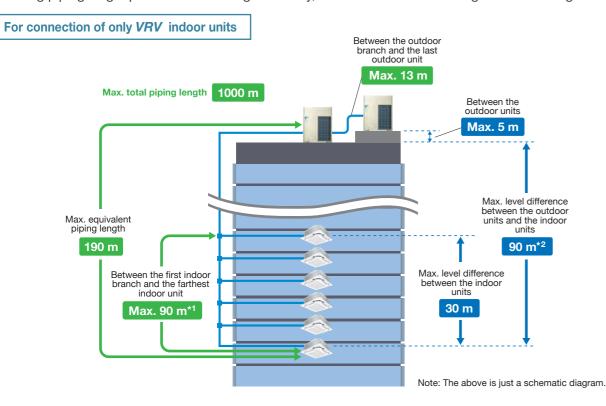
Flexible System Design

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 =

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

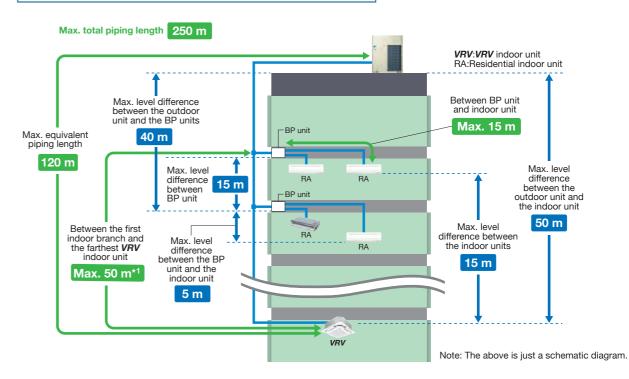
Conditions of VRV indoor unit connection capacity

Applicable VRV indoor units	FXDQ, FXSQ, FXMQ-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 22 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
		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
Maximum allowable evel 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	the 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 22 for outdoor unit combination details.

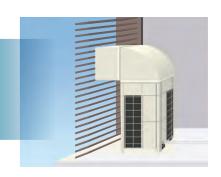
High external static pressure

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



JRV H SERIES

Reliable and Stable System

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.

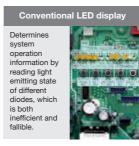


Simplified commissioning and after-sales service

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

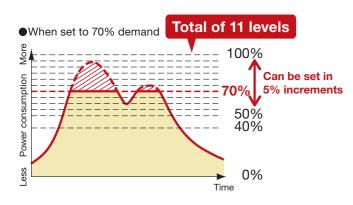
- SMT packaging technology adopted by the computer control panel improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.

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.

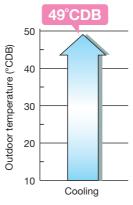
*Set on the circuit board of the outdoor unit.



Wide operation temperature range up to 49°C

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

This enables reliable operation even under high temperature conditions.



Note: When outdoor temperature falls below 10°C, the thermostat shuts OFF, the outdoor unit stops, and operation switches from cooling to fan

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

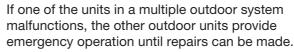


Double backup operation functions

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



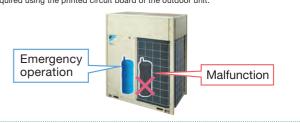
* For systems composed of two or more outdoor units.



Compressor backup operation function

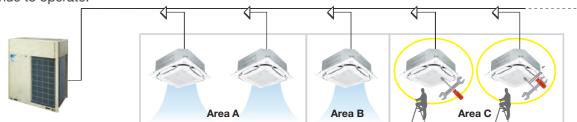
The outdoor unit is equipped with two compressors. Even if one compressor malfunctions, the other compressor provides emergency operation, reducing the risk of air conditioning shutdown due to compressor failure. (Capacity is saved during backup operation.)

* For single outdoor unit system RXYQ14-16AYM 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 t

This feature does not apply to residential indoor unit connection For more information, please contact Daikin sales office.

URU H SERIES

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 RXYQ18AHYMA RXYQ14AHYMA RXYQ20AHYMA 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

RXYQ38AYMA RXYQ40AYMA

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	DITTEZETIST	375 to 975 (975)	48 (48)
32	89.4	800	RXYQ32AH	RXYQ8A + RXYQ12A × 2		400 to 1,040 (1,040)	52 (52)
34	95.0	850	RXYQ34AH	RXYQ10A + RXYQ12A × 2		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	DUEDOOD400	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	BHFP22P131	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
			IIIdox	80%	100%	130%	Connectable indoor drints
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 17 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.



■ Enhanced range of choices

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

										Ne	ew lin	eup	4			units nart c		
			20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	2
Type	Model Name	Capacity Range(kW)		2.8	3.6		5.6				11.2			16.2	18		22.4	
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140 New	145	160	180	200	25
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVM 🕡								i ! !				capacity					
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE								! ! ! !				1					
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		•	•	•	•	•	 	1 1 1 1 1 1	1				1				
4-Way Flow Ceiling Suspended	FXUQ-AVEB					! ! !	 			i 	•	 						
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		•	•	•			•	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 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 1 1 1 1 1				
Slim Ceiling Mounted Duct	FXDQ-PDVE	(700mm width type)				 	 	 	 									1
(Standard Sorios)	FXDQ-NDVE	(900 / 1,100mm width type)		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								 		•							
Duct	FXMQ-PV1A					! ! !			1									
Outdoor-Air Processing Unit	FXMQ-MFV1					1	1		1			•					•	•
Ceiling Suspended	FXHQ-MAVE			1	•	 	 		 		•	 	 		1 1 1 1 1			
Wall Mounted	FXAQ-PVE				•				1 1 1 1 1 1									
Floor Standing	FXLQ-MAVE		•	•	•	•		•	 	 	 	 	 	 				
Concealed Floor Standing	FXNQ-MAVE		•	•	•				1									
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Ai	irflov	v rate	e 500	0-10	00 m	³ /h									
Heat Reclaim Ventilator	VAM-GJVE	001	Ai	irflov	v rate	e 150)-20	00 m	³ /h									
Air Handling Unit	AHUR														6	–60 cl	ass	

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

Model Name	Rated Capacity (kW) Capacity Index	20 2.0	25 2.5	35 3.5	50 5.0	60	71
Model Name		2.0	2.5	3.5	5.0	C 0	
	Capacity Index			0.0	5.0	6.0	
	oupaon, mach	20	25	35	50	60	71
FFQ-BV1B							
FDXS-CVMA	(900/1,100 mm width type)						
CTXG-PVMAW							
CTXG-PVMAS							
TXS-KVMA							
TXS-KAVMA							
CT	XG-PVMAS XS-KVMA	XG-PVMAS XS-KVMA					

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	3		RXYQ6AYM	RXYQ8AYM	RXYQ8AYM	RXYQ10AYM	RXYQ12AYM	RXYQ8AYM
			_	_	_	_	_	RXYQ8AYM
Power supply			3- _F	hase 4-wire system, 380-415 V/380 V, 50/60) Hz		3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz	
Cooling capacity		Btu/h	109,000	131,000	153,000	172,000	191,000	207,000
Cooling Capacity		kW	32.0	38.4	44.8	50.4	55.9	60.8
Ligating consoits		Btu/h	123,000	147,000	171,000	193,000	213,000	232,000
Heating capacity		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)	
Compressor Typ	e			Hermetically sealed scroll type			Hermetically sealed scroll type	
Mo	tor 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
Allilow rate		m³/min	119+119	119+178	178+178	178+178	178+191	119+178+178
Dimensions (H×W>	: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	5+200	185+185+185
Sound level		dB(A)		59		60		61
Sound power		dB(A)		80		81		82
Operation range	Cooling	°CDB		-5 to 49			-5 to 49	
Operation range	Heating	°CWB		-20 to 15.5			-20 to 15.5	
Refrigerant	Туре			R-410A			R-410A	
nemyerani	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		φ12.7 (Brazing)			φ15.9 (Brazing)	
connections	Gas	mm		φ28.6 (Brazing)			φ28.6 (Brazing)	

Model			RXYQ24AHYMA	RXYQ26AHYMA	RXYQ28AHYMA	RXYQ30AHYMA	RXYQ32AHYMA	RXYQ34AHYMA	RXYQ36AHYMA
			RXYQ8AYM	RXYQ8AYM	RXYQ8AYM	RXYQ8AYM	RXYQ8AYM	RXYQ10AYM	RXYQ12AYM
Combination	units		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 cons	sits (Btu/h	229,000	248,000	267,000	286,000	305,000	324,000	345,000
Cooling capac	жу	kW	67.2	72.8	78.3	83.9	89.4	95.0	101
Llooting conce		Btu/h	256,000	278,000	299,000	321,000	341,000	365,000	386,000
Heating capac	жу	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 cont	rol	%	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)	(3.4×1)+(3.4×1)+(5.5×1)	(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
Allilow rate		m³/min	178+178	+178	178+178+191	178+178+191	178+1	91+191	191+191+191
Dimensions (F	l×W×D)	mm	(1,657	×930×765)+(1,657×930×765)+(1,657×930×	765)		(1,657×930×765)+(1,657×9	30×765)+(1,657×930×765)	
Machine weig	ht	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 ran	Cooling			-5 to 49			-5 to	9 49	
Operation ran	Heating	°CWB		-20 to 15.5			-20 to	15.5	
Refrigerant	Туре			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;

•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.

[•]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.

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

URV H SERIES

VRV H Series Outdoor Units Heat Pump RXYQ-A

Standar	d Type															
					J											
Model			RXYQ6AYM	RXYQ8AYM	RXYQ10AYM	RXYQ12AYM	RXYQ14AYM	RXYQ16AYM	RXYQ18AYM	RXYQ20AYM	RXYQ22AYMA	RXYQ24AYMA	RXYQ26AYMA	RXYQ28AYMA	RXYQ30AYMA	RXYQ32AYMA
Combination u	ınite		_	_	_	_	_	_	_	_	RXYQ10AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ16AYM
			_	_	_	_	_	_	_	_	RXYQ12AYM	RXYQ12AYM	RXYQ14AYM	RXYQ16AYM	RXYQ18AYM	RXYQ16AYM
Power supply					phase 4-wire system,								880-415 V/380 V, 50/60		T	T
Cooling capaci	ty	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	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 capaci	ty	Btu/h kW	61,400 18.0	85,300 25.0	107,000 31.5	128,000 37.5	154,000 45.0	171,000 50.0	191,000 56.0	215,000 63.0	235,000 69.0	256,000 75.0	281,000 82.5	299,000 87.5	319,000 93.5	341,000 100
Davisa	Cooling		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
Power consumption	Heating		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 contro		%	25-100	20-100	13-100	12-100	11-100	10-100	10-100	7-100		100	10.0	<u> </u>	-100	20.2
Casing colour	<u> </u>	70	20 100	20 100		te (5Y7.5/1)	11 100	10 100	10 100	7 100			e (5Y7.5/1)		100	
	Гуре					ealed scroll type							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)
		ℓ/s	1,983	2	967	3,183	1	283	4,200	4,950	2,967+3,183	3,183+3,183	` ′	+4,283	3,183+4,200	4,283+4,283
Airflow rate		m³/min	119	,	178	191		257	252	297	178+191	191+191		+257	191+252	257+257
Dimensions (H	«W×D)	mm			930×765	1 .0.		,240×765		,240×765		+(1,657×930×765)		:930×765)+(1,657×1,2		(1,657×1,240×765) (1,657×1,240×765
Machine weigh	t	kg	18	85	2	00	2	185	305	325	200)+200	200	+285	200+305	285+285
Sound level		dB(A)		56	57	59		60	61	65	61	62			63	
Sound power		dB(A)		77	78	80		81	82	86	82	83			84	
· · · · · · · · · · · · · · · · · · ·	Cooling	°CDB			-5	to 49				1	I.	-5 t	o 49			
Operation rang	e Heating	°CWB			-20 1	to 15.5						-20 t	o 15.5			
D. C	Туре				R-	410A						R-4	110A			
Refrigerant	Charge	kg	6.9	7.0	7.4	7.6	9.1	9.3	1	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)			ф15.9	(Brazing)			φ19.1	(Brazing)	
connections	Gas	mm	φ19.1 (I	Brazing)	φ22.2 (Brazing)		φ28.6 (Brazing)			φ28.6 (Brazing)				φ 34.9 (Brazing)		
						U										
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 u	ınits		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		D. "	004		phase 4-wire system,			400		101			880-415 V/380 V, 50/60		556	
Cooling capaci	ty	Btu/h kW	324,000 95.0	345,000 101	365,000 107	382,000 112	403,000 118	423,000 124	444,000 130	461,000 135	478,000 140	495,000 145	512,000 150	532,000 156	553,000 162	573,000 168
Heating capaci	ty	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
_	01	kW	106	113	120	125	132	138	145	150	156	162	168	175	182	189
Power consumption	Cooling Heating		28.2 27.5	30.6 29.7	28.1 28.8	30.3 30.4	32.6 32.4	34.5 34.1	36.5 36.2	38.7 37.8	41.1	43.5 42.4	45.9 44.7	48.3 46.9	50.7 49.1	53.1 51.3
				29.1	28.8		32.4	34.1	30.2	31.8			44./	40.9		
Capacity contro Casing colour	DI	%	5-100		luoni whi	4-100 te (5Y7.5/1)					3-	100	e (5Y7.5/1)		2-	-100
	Type					ealed scroll type							ealed scroll type			
Compressor	Type Motor output	kW	(3.6×1)+(3.7×1)+	(3.6×1)+(3.7×1)+	(5.5×1)+(5.5×1)+	(5.5×1)+(5.5×1)+	(,) (, ,) (, ,)	+ (5.5×1)+(3.6×1)+(3.7×1)+			+ (3.6×1)+(3.7×1)+(3.6×1)+	(3.6×1)+(3.7×1)+(4.1×1)+	(4.1×1)+(4.0×1)+(4.1×1)+			
			(4.1×1)+(4.0×1)	(3.7×1)+(6.3×1)	(2.9×1)+(3.3×1)	(3.6×1)+(3.7×1)	(3.6×1)+(3.7×1)	(3.6×1)+(3.7×1)			(3.7×1)+(4.1×1)+(4.0×1)					
Airflow rate		l/s	4,283+4,200	4,283+4,950		183+4,283	2,967+4,283+4,283	1, 11 , 11 , 11		283+4,283					4,200+4,950+4,950	
		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

Reingerant	Charge	kg	9.3+	11.8
Piping	Liquid	mm		
connections	Gas	mm	φ34.9 (Brazing)	

kg

dB(A)

Cooling °CDB

Heating °CWB

Dimensions (H×W×D)

Machine weight

Operation range

Sound level

Sound power

(1,657×1,240×765)+(1,657×1,240×765)

285+325

87

(1,657×930×765)+(1,657×930×765)+

(1,657×1,240×765)

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)

(1,657×930×765)+(1,657×1,240×765)+

(1,657×1,240×765)

200+285+285

7.6+9.3+9.3

85

7.4+9.3+9.3

285+305

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

(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)

-5 to 49

-20 to 15.5

R-410A

φ19.1 (Brazing)

305+325+325

11.8+11.8+11.8

305+305+325

325+325+325

91

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.

VRVR SERIES Heat Recovery

VRV R SERIES

Maximum Comfort via Simultaneous Cooling and Heating



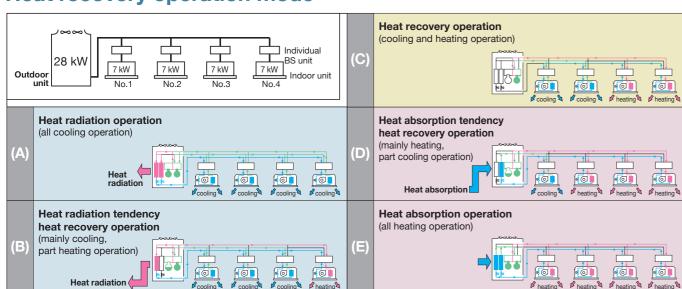
What is Heat Recovery Air Conditioner?

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.

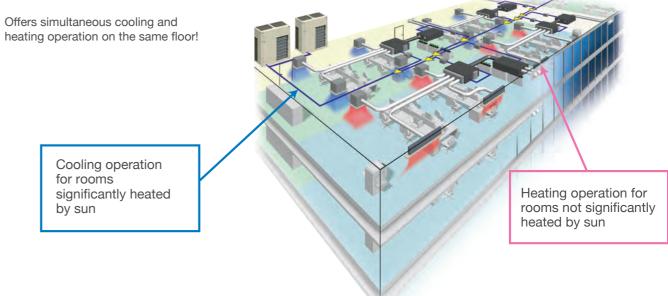
Operation mode

Heat recovery operation mode

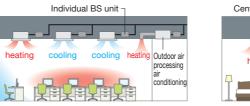
IN R SERIES



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)

and heat from room is large Can be use with the outdoor air processing air conditioning

■ Difference between the load of cold air



Winter season (Hotel)

■ Able to cater to individual heating and cooling requirement



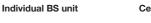
Individual office

■ Provides heating and annual cooling depending on space area

BS unit (Individual type/Centralised type)

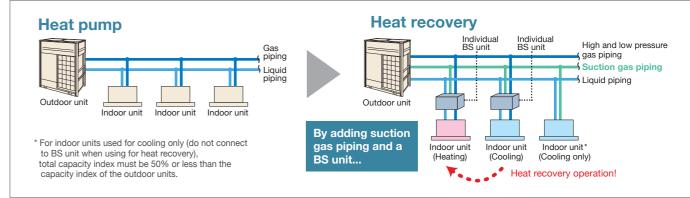
By adding suction gas piping and a BS unit (sold separately), simultaneous cooling and heating operation can be provided by a single system.







Centralised BS unit



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

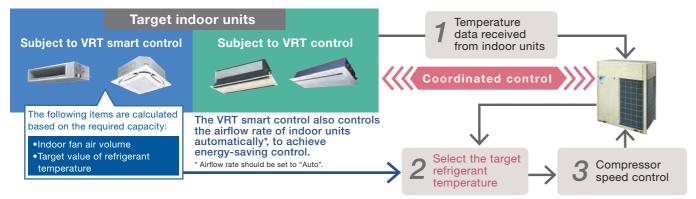
Function

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.



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 45–46.
- •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.

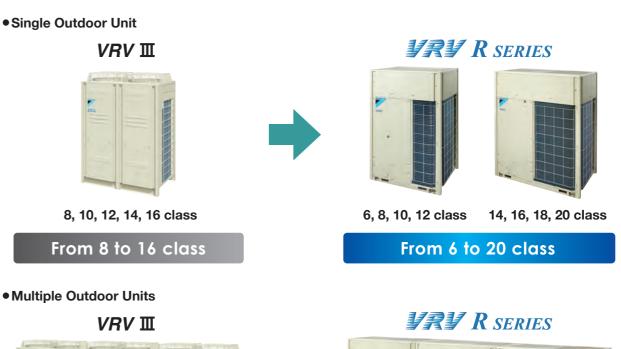
Energy efficiency decreases for the installation patterns indicated below.

- 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.





From 18 to 48 class

1 type only

From 12 to 60 class

2 types of High-COP type and Standard type

Lineup

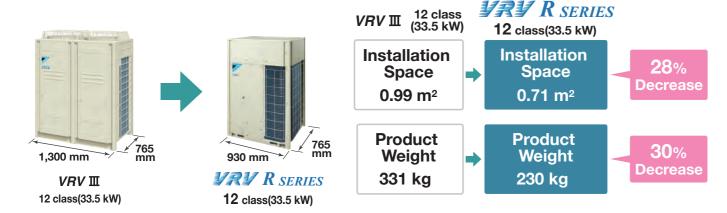
class	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
High-COP Type																												
Standard Type																												

VRV R SERIES

Ease of installation

Compact & lightweight design

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



Comfort

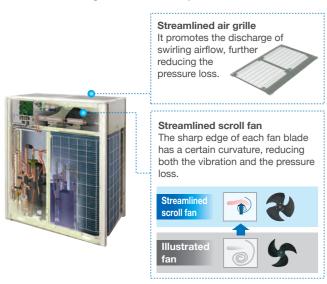
Lower operation sound

Improve heat exchanger efficency, helps to reduced operation sound.

				Sour	nd level(dB(A))	
	6/8 class	10 class	12 class	14 class	16 class	1-2 d
VRV Ⅲ	58	58	60	62	63	reduc
URU R SERIES	56	57	59	60	61	mode

Large airflow, high static pressure and quiet technology

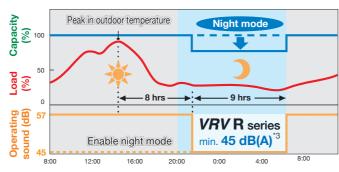
Without increasing operation sound, advanced analytical technologies are utilised to optimise fan design and increase airflow rate and high external static pressure.



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.



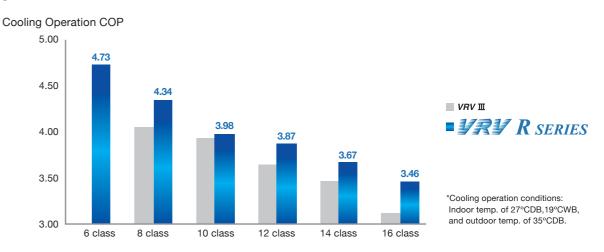
Note: This function is available in setting at site.

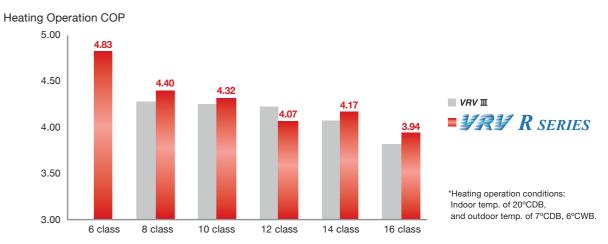
- · The operating sound in quiet operation mode is the actual value measured by our company
- · The relationship of outdoor temperature (load) and time shown above is just an example.

Energy saving

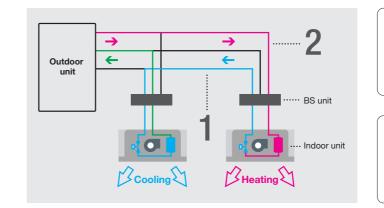
Higher Coefficient of Performance (COP)

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





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.



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

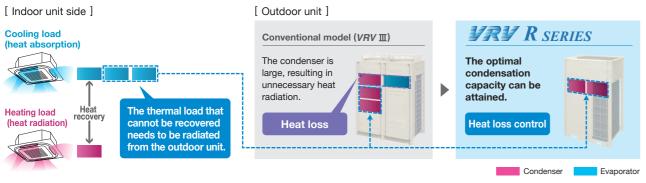
Development of a highly efficient heat exchanger utilising of a two-split structure

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)



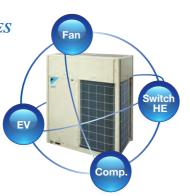
Heat Recovery Link control to reduce the heat loss

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

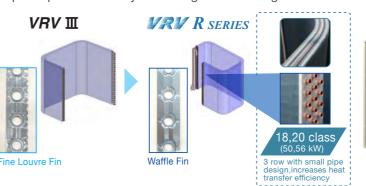
⇒Improvement of Heat recovery



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.

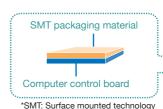
	Heat exchanger area	Contribution of COP (cooling)
16 class (45 kW)	24%UP	108.5%

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.

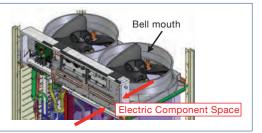


Computer control board surface adopting SMT packaging technology

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.





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

Control board failure ratio at stable operation is reduced.

Improve reliability at high ambient temperature

It is possible to cool the inverter power module stability even at high ambient temperature.

This helps to keep air-conditioning capacity and also reduces failure ratio.

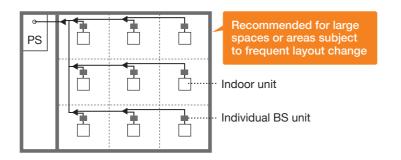
VRVR SERIES Heat Recovery

Individual and centralised BS unit allow greater design flexibility.





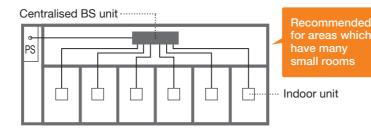
- Compact and flexible installation
- Flexible design
- Low noise



Centralised BS unit



BS4Q14AV1 BS6Q14AV1 BS8Q14AV1 BS10Q14AV1 BS12Q14AV1 BS16Q14AV1



■ Enhanced Line up

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 size reduced by 65%

BS unit weight reduced by 73%

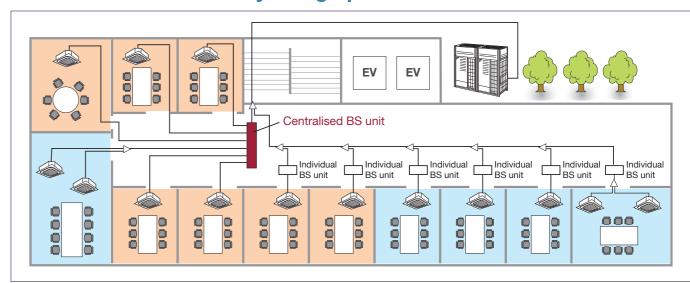
Installation and maintenance work have been made easier through the integration of multiple BS units.



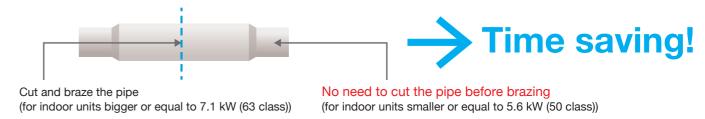
Greater design flexibility achieved by increasing the connection capacity range



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

Mavimum transiant and				Centralise	ed BS unit		
Maximum transient sou	na	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		_	_	

BS unit			Indi	vidual BS u	nit
) branch	12 branch	16 branch	100 type	160 type	250 type
48	48	49	40	45	45
_	_		45.5	46.5	47.5

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

More Flexible System Design

URV R SERIES

■ More options for equipment placement

Long piping length

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

Max. actual piping length

165 m

Max. equivalent piping length

190 m

Max. total piping length

1000 m

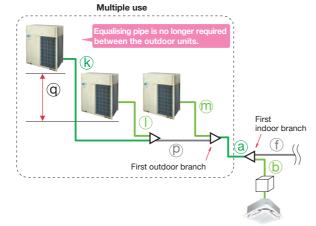
Max. level difference between the outdoor units and the indoor units

90 m *

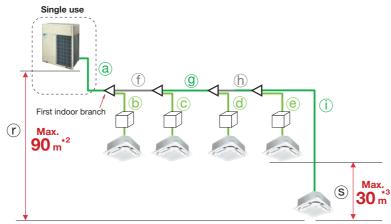
Max. level difference between the indoor units

30 m *3





the same as for single use



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

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

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

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

50%-200%

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.

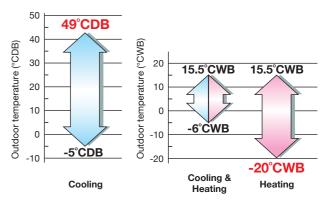
High external static pressure

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.



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 44 for outdoor unit combination details.

URV R SERIES

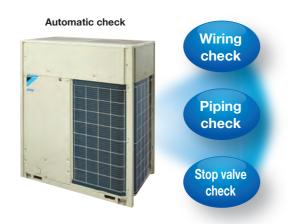
Reliable and Stable System

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.

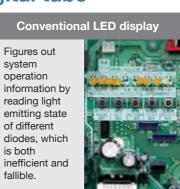


Simplified commissioning and after-sales service

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.



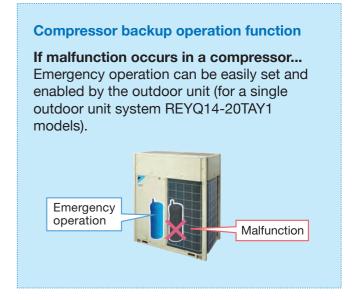
Double backup operation functions responding resiliently to various unexpected situations

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.





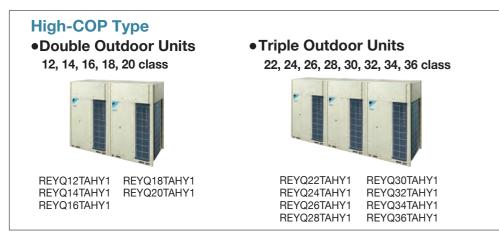
Outdoor Unit Lineup

VRV R SERIES Heat Recovery

■ 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.





Lineup

-																				_								_	
cla	ss	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 R SERIES	High-COP Type				•	•	•	•	•	•	•	•	•	•	•	•	•												
VAV A SERIES	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	BITT 20F 130	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	1	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*2
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	BHFP26P90	350 to 910 (1,120)	45 (56)
30	83.5	750	REYQ30TA	REYQ12TA + REYQ18TA	Di 11 201 30	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	B1111 201 100	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		675 to 1,755 (1,755)	
56	156	1,400	REYQ56TA	REYQ18TA × 2 + REYQ20TA		700 to 1,820 (1,820)	
58	162	1,450	REYQ58TA	REYQ18TA + REYQ20TA × 2]	725 to 1,885 (1,885)	
60	168	1,500	REYQ60TA	REYQ20TA × 3		750 to 1,950 (1,950)	

Note: *1. For multiple connection of 22 class systems and above, the outdoor unit multi connection piping kit (separately sold) is required.

^{*2.} Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 40 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 40 for note on connection capacity of indoor units.

Indoor Unit Lineup

IPI R SERIES Heat Recovery

■ Enhanced range of choices

										Ne	ew lin	eup	4	ln VI	door RT sn	units nart c	subje ontro	ect to
			20	25	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				11.2	14		16.2	18	20	22.4	
		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							•		•			New capacity			1 1 1 1 1 1		
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			•				•		•						1		
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		•	•	•	•	•					1 1 1 1 1				1 1 1 1 1		
4-Way Flow Ceiling Suspended	FXUQ-AVEB					1	1									 		
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		•	•	•			•		•		•				1 1 1 1 1 1		
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36							•										
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-TV1B(A)				•	•		•				1				I I I I I		
Slim Ceiling Mounted Duct	FXDQ-PDVE VIII	(700mm width type)	•	•		1 1 1 1 1	I I I I I				!	I I I I I				 		
(Standard Sorios)	FXDQ-NDVE VIII	(900 / 1,100mm width type)										 						
Ceiling Concealed Duct	FXDYQ-MAV1					 	 			•		•						
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVE			•	•	•		•		•						1		
Ceiling Mounted	FXMQ-PAVE							•								1		
Duct	FXMQ-PV1A					1 1 1 1 1	1 1 1 1 1 1					 						
Outdoor-Air Processing Unit	FXMQ-MFV1					 	 									1	•	
Ceiling Suspended	FXHQ-MAVE				•	1 1 1 1 1	 	•			•	1 1 1 1 1				1 1 1 1 1		
Wall Mounted	FXAQ-PVE		•	•	•	•		•								 		
Floor Standing	FXLQ-MAVE		•	•	•			•	 			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		A	irflov	v rate	e 500	0-10	00 m	ı³/h									
Heat Reclaim Ventilator	VAM-GJVE	00	A	irflov	v rate	e 150)-20	00 m	ı³/h									

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





- 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













Specifications



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

High-COP Type

					11					111				
Model			REYQ12TAHY1	REYQ14TAHY1	REYQ16TAHY1	REYQ18TAHY1	REYQ20TAHY1	REYQ22TAHY1	REYQ24TAHY1	REYQ26TAHY1	REYQ28TAHY1	REYQ30TAHY1		
			REYQ6TAY1	REYQ6TAY1	REYQ8TAY1	REYQ8TAY1	REYQ8TAY1	REYQ6TAY1	REYQ8TAY1	REYQ8TAY1	REYQ8TAY1	REYQ8TAY1		
Combination	n units		REYQ6TAY1	REYQ8TAY1	REYQ8TAY1	REYQ10TAY1	REYQ12TAY1	REYQ8TAY1	REYQ8TAY1	REYQ8TAY1	REYQ8TAY1	REYQ10TAY1		
			_	_	_	-	_	REYQ8TAY1	REYQ8TAY1	REYQ10TAY1	REYQ12TAY1	REYQ12TAY1		
Power supply	/			3-pha	se 4-wire system, 380-415 V,	, 50 Hz			3	phase 4-wire system, 380-415 V, 50	Hz			
Cooling cons	oitu	Btu/h	109,000	131,000	153,000	172,000	191,000	207,000	229,000	248,000	267,000	286,000		
Cooling capa	icity	kW	32.0	38.4	44.8	50.4	55.9	60.8	67.2	72.8	78.3	83.9		
Heating capa	oity	Btu/h	123,000	147,000	171,000	193,000	213,000	232,000	256,000	278,000	299,000	321,000		
rieating capa	icity	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					15.1	17.0	18.7	20.6 22.2			
Capacity con	trol	%		10-100 8-100				7-100 6-100						
Casing colou	r				Ivory white (5Y7.5/1)			Ivory white (5Y7.5/1)						
Compressor	Туре			ı	Hermetically sealed scroll type	e				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×W×D)	mm		(1,	657×930×765)+(1,657×930×7	765)			(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			52		
Sound power	r	dB(A)		80		81	82		82		1	33		
	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				
D ()	Туре				R-410A					R-410A				
Refrigerant	Charge	kg		9.7+9.7		9.7+9.8	9.7+9.9	9.7+9	9.7+9.7	9.7+9.7+9.8	9.7+9.7+9.9	9.7+9.8+9.9		
D: :	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)			
Connections	High and low pressure gas	mm	φ19.1 (Brazing)		φ22.2 (Brazing)		φ28.6 (Brazing)	φ26.0 (brazing) φ34.9 (brazing) φ28.6 (Brazing)						

			DEVOSTANYA DEVOSTANYA DEVOSTANYA							
Model			REYQ32TAHY1	REYQ34TAHY1	REYQ36TAHY1					
			REYQ8TAY1	REYQ10TAY1	REYQ12TAY1					
Combinatio	n units		REYQ12TAY1	REYQ12TAY1	REYQ12TAY1					
			REYQ12TAY1	REYQ12TAY1	REYQ12TAY1					
Power suppl	у		3-pha	se 4-wire system, 380-415 V,	50 Hz					
Cooling cap	aoit.	Btu/h	305,000	324,000	345,000					
Cooling cap	аспу	kW	89.4	95.0	101					
Heating cap	a city	Btu/h	341,000	365,000	386,000					
neating 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 co	ntrol	%								
Casing color	ır			Ivory white (5Y7.5/1)						
C	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					
Alfilow 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	ght	kg	215+230+230	230+23	30+230					
Sound level		dB(A)	6	3	64					
Sound power	r	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	rigerant Charge		9.7+9.9+9.9	9.8+9.9+9.9	9.9+9.9+9.9					
D: :	Liquid			φ19.1 (Brazing)						
Piping	Gas	mm	ф34.9 (Е	Brazing)	φ41.3 (Brazing)					
connections High and low pressure of		mm	·							

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

VRV R SERIES Heat Recovery

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

Standa	ard Type							·	•								
					I												
Model			REYQ6TAY1	REYQ8TAY1	REYQ10TAY1	REYQ12TAY1	REYQ14TAY1	REYQ16TAY1		REYQ18TAY1	REYQ20TAY1	REYQ22TAY1	REYQ24TAY1	REYQ26TAY1	REYQ28TAY1	REYQ30TAY1	REYQ32TAY1
0 1 1	14 -		_	_	_	_	_	_		_	_	REYQ10TAY1	REYQ12TAY1	REYQ12TAY1	REYQ12TAY1	REYQ12TAY1	REYQ16TAY1
Combination	units		_	_	_	_	_	_		_	_	REYQ12TAY1	REYQ12TAY1	REYQ14TAY1	REYQ16TAY1	REYQ18TAY1	REYQ16TAY1
Power supply	/				3-phase 4-wire syst	em, 380-415 V, 50 Hz							3-phase 4-wire sys	tem, 380-415 V, 50 Hz			
Cooling capac	icity	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	icity	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	icity	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
rieating capac		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	kW	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	24.2	25.4
Capacity contr		%	20-	-100	16-100	15-100	11-100	10-100			8-	-100			100	5-	100
Casing colour	r				Ivory whit	te (5Y7.5/1)							Ivory wh	ite (5Y7.5/1)			
	Туре				Hermetically se	ealed scroll type							Hermetically s	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)
Airflow rate		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
Airilow rate		m³/min	119	158	168	180	234	239		226	269	168+180	180+180	180+234	180+239	180+226	239+239
Dimensions (H	H×W×D)	mm		1,657×	×930×765		1,657×1	1,240×765		1,657×1,240×765 (1,657×930×765)+()+(1,657×930×765)	(1,657	×930×765)+(1,657×1,2	40×765)	(1,657×1,240×765)+ (1,657×1,240×765)	
Machine weigh	ght	kg	2	15	2	30	3	10		342 23)+230	230	+310	230+342	310+310	
Sound level		dB(A)	5	56	57	59	60	61		62	65	61	62	6	33	6	64
Sound power	r	dB(A)	7	77	78	80	81	82		83	86	82	83	8	34	8	85
C	Cooling	°CDB			-51	to 49	•				•	•	-5	to 49		•	
Operation F	Heating	°CWB			-20 t	o 15.5							-20	to 15.5			
	Cooling & Heating	°CWB			-6 to	15.5							-6	to 15.5			
T	Туре	·			R-4	110A							R-	-410A			
	Charge	kg	9	9.7	9.8	9.9	1	1.8		1	1.8	9.8+9.9	9.9+9.9		9.9+11.8		11.8+11.8
L	Liquid	mm		φ9.5 (Brazing)	'		φ12.7 (Brazing)				φ15.9	(Brazing)			φ19.1	(Brazing)	
Piping connections	Gas	mm	φ19.1 (Ι	(Brazing)	φ22.2 (Brazing)		φ28.6 (Brazing)				φ28.6 (Brazing)				φ 34.9 (Brazing)		
	High and low pressure of	gas mm	φ15.9 ((Brazing)	φ19.1 (Brazing)	ф22.2	(Brazing)		φ22.2 (Brazing)				φ28.6 (Brazing)			
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	n units		REYQ18TAY1	REYQ20TAY1	REYQ12TAY1	REYQ12TAY1	REYQ16TAY1	REYQ16TAY1		REYQ16TAY1	REYQ16TAY1	REYQ16TAY1	REYQ18TAY1	REYQ18TAY1	REYQ18TAY1	REYQ20TAY1	REYQ20TAY1
			-	_	REYQ14TAY1	REYQ16TAY1	REYQ16TAY1	REYQ16TAY1		REYQ16TAY1	REYQ16TAY1	REYQ18TAY1	REYQ18TAY1	REYQ18TAY1	REYQ20TAY1	REYQ20TAY1	REYQ20TAY1
Power supply	/			'	3-phase 4-wire syst	em, 380-415 V, 50 Hz							3-phase 4-wire sys	tem, 380-415 V, 50 Hz	'	'	'
		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 capac	icity	kW	95.0	101	107	112	118	124		130	135	140	145	150	156	162	168

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 REYQ18TAY1 REYQ20TAY1 REYQ20T						REYQ20TAY1	REYQ20TAY1
Power supp	ly				3-phase 4-wire syste	em, 380-415 V, 50 Hz			3-phase 4-wire system, 380-415 V, 50 Hz							
Cooling can	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 cap	acity	Btu/h	362,000	386,000	409,000	7.7.		495,000	512,000	532,000	553,000	573,000	597,000	621,000	645,000	
rieating cap	acity	kW	106	113	120				145	150	156	162	168	175	182	189
Power	Cooling	kW	28.4	31.0	28.2				36.9	39.0	41.4	43.8	46.2	48.8	51.4	54.0
consumptio	n Heating	kW	27.7	30.2	29.2				36.2 38.1 40.4 42.7 45.0 47.5 50.0							52.5
Capacity co	ntrol	%			4-1	4-100			3-100							
Casing colo	ur				Ivory white	e (5Y7.5/1)			Ivory white (5Y7.5/1)							
	Туре				Hermetically se	ealed scroll type						Hermetically se	ealed scroll type			
Compresso	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)	(4.9x1)+(4.9x1)+ (3.4x1)+(3.7x1)	(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		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
Alfilow fale		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	+(1,657×930×765) ,240×765)		(1,657×1,240×765) 1,240×765)			(1,65	7×1,240×765)+(1,657×1	,240×765)+(1,657×1,240	0×765)		
Machine we	ight	kg	310-	+342	230+23	30+310	230+3	10+310	310+3	10+310	310+310+342	310+342+342		342+3	42+342	
Sound level		dB(A)	65	66	64		65		65		66		67	68	69	70
Sound power	er	dB(A)	86	87	85		86		86		87		88	89	90	91
	Cooling	°CDB			-5 to	o 49						-5 t	to 49			
Operation	Heating	°CWB			-20 to	15.5						-20 t	o 15.5			
1 1	Cooling & Heating	°CWB			-6 to	-6 to 15.5						-6 to	15.5			
Defile	Туре				R-4	R-410A						R-4	110A			
Refrigerant	Charge	kg	11.8-	+11.8	9.9+9.	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			
District	Liquid	mm			φ19.1 (Brazing)			φ19.1 (Brazing)								
Piping	Gas	mm	φ34.9 (Brazing)		φ41.3 (Brazing)			 φ41.3 (Brazing)								
COLLIGORIOLIS	High and low pressure gas	s mm	ф28.6 (Е	Brazing)		ф34.9 (Е	Brazing)					ф34.9 (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.: 7°CDB, 6°CWB, 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 S SERIES Heat Pump

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	-240 V, 50 Hz		3-phase, 380-	-415 V, 50 Hz
Capacity Range	3.5 class (9.0 kW)	4 class (11.2 kW)	5 class (14.0 kW)	6 class (16.0 kW)	8 class (22.4 kW)	9 class (24.0 kW)
Capacity Index	80	100	125	150	200	215

Wide variety of indoor units

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

Elegant appearance with European style





CTXG-P series indoor unit

reddot award 2014





VRV IV S SERIES Heat Pump

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 III 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

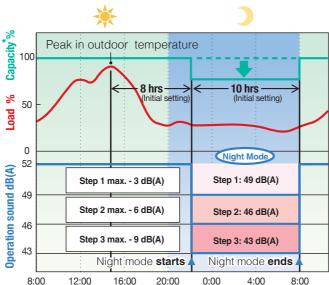
Mode 2. Manual mode

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.)

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.

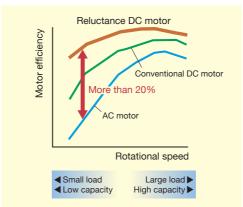
Collection of cutting-edge technologies realises efficient and quiet operation

Cutting-edge Technologies VRV IV S SERIES

The high efficiency compressor to achieve a higher COP

1 Compressor equipped with Reluctance DC motor

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







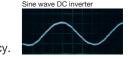
8.9 class

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

- *1 A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
 *2 The torque created by the change in power between the iron and magnet parts.

>> 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.



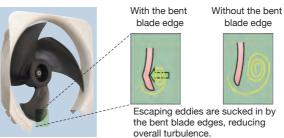
blade edge

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.





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

DC fan motor structure





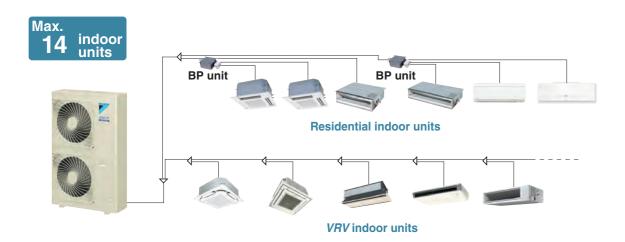
Design Flexibility and Simplified Installation



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 59 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.

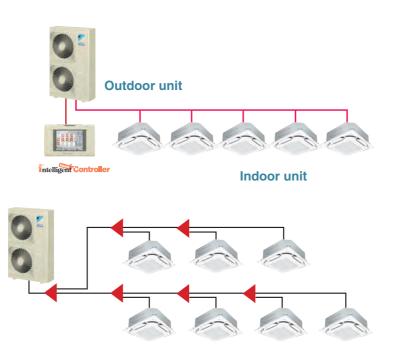
>> Super wiring system

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

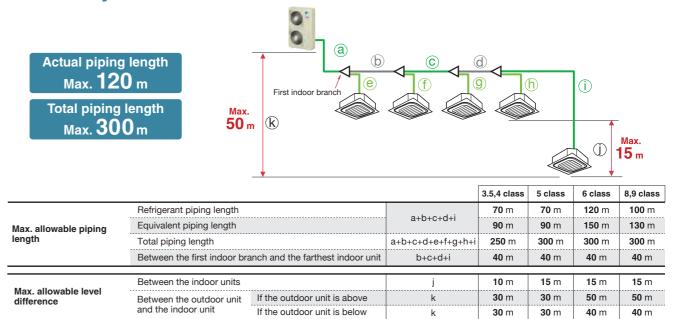
Daikin's advanced REFNET piping system makes installation easy. Only two main refrigerant lines are required in any one system. REFNET greatly reduces the imbalances in refrigerant flow between units, while using small-diameter piping.



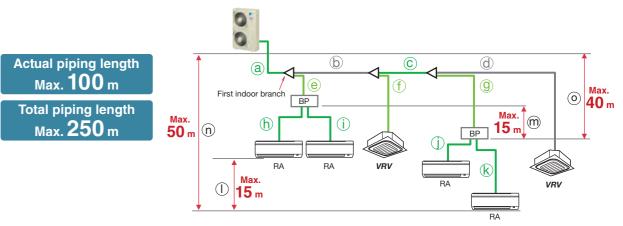
Long piping design possible

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

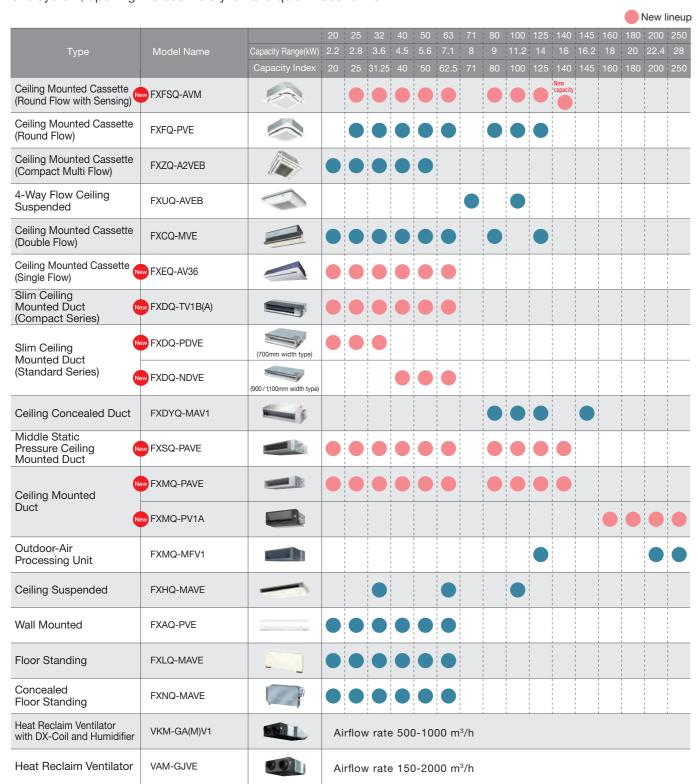


				3.5,4 class	5 class	6-9 class
	Refrigerant piping length			70 m	70 m	100 m
Max. allowable piping	Equivalent piping length		a+b+c+g+k, a+b+c+d	90 m	90 m	125 m
length	Total piping length		a+b+c+d+e+f+g+h+i+j+k	250 m	250 m	250 m
	The first indoor branch - th	ne farthest BP or VRV indoor unit	b+c+g, b+c+d	40 m	40 m	40 m
Max. & min.		If indoor unit capacity index < 60		2 m-15 m	2 m-15 m	2 m-15 m
allowable piping length	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
		If indoor unit capacity index is 71		2 m-8 m	2 m-8 m	2 m-8 m
Min. allowable piping length	Outdoor unit - the first 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
Max. allowable level difference	Outdoor unit - the indoor	If the outdoor unit is above	n	30 m	30 m	50 m
	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

VRV IV S SERIES Heat Pump

■ Enhanced range of choices

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



Residential indoor units with connection to BP units

			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)						
	CTXG-PVMAW							
Wall	CTXG-PVMAS							
Mounted	FTXS-KVMA							
	FTXS-KAVMA							

Note: BP units are necessary for residential indoor units.

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



*Refer to page 59 for the maximum number of connectable indoor units.

VRV IV S SERIES

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

			I						
						00	00	11	
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	wer consumption Cooling		2.44	2.88	3.93	4.14	5.94	6.88	
rower consumption	Heating		2.28	2.60	3.04	4.07	6.25 6.82		
Capacity control		%	24 to	100	16 to	100	20 to	100	
Casing colour					Ivory white	e (5Y7.5/1)			
Compressor	Туре			Hermetically se	aled swing type		Hermetically se	aled scroll type	
Compressor	Motor output	kW	1.92 3.0			3.5	3.8	4.8	
Airflow rate		ℓ/s		1,267		1,766	2,333		
All now rate		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	38	
Sound level (Cooling/Heating)		dB(A)	51/52	52/54	53/54	55/56	57/58	58/59	
Sound power	nd power dB(A		69	70	71	73	75	76	
Operation range	Cooling	°CDB			-5 to	o 46			
Heating °		°CWB			-20 to	15.5			
Refrigerant	Туре				R-4	10A			
Tionigorant	Charge	kg	2	.9	3.4	3.6	5.	8	
Pining connections	Liquid	mm		φ 9.5	(Flare)	φ 9.5 (Brazing)		Brazing)	
Piping connections Gas		111111		φ 15.9 (Flare)	<u> </u>	φ 19.1 (Flare)	φ 19.1 (Brazing) φ 22.2 (Brazi		

- 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.
 - Refrigerant charge is required.

Outdoor Unit Combinations

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

Note: *1. When only VRV indoor units are connected, connection ratio must be 50% to 130%.

- *2. When a mixed combination of VRV and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 80% to 130%
- *3. When outdoor-air processing unit is connected, connection ratio must be 50% to 100%. A mixed combination of the outdoor-air processing unit and standard indoor unit in one

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

MODE	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/Heating	ng)	dB(A)	51/53
Sound power		dB(A)	69
Operation range	Cooling	°CDB	-5 to 46
Operation range	Heating	°CWB	-20 to 15.5
Refrigerant	Туре		R-410A
· · · · · · · · · · · · · · · · · · ·	Charge	kg	4.0
Dining connections	Liquid	mm	φ 9.5 (Flare)
Piping connections	Gas	111111	φ 15.9 (Flare)

Note: Specifications are based on the following conditions;

- 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

VIV Q SERIES For Quick & High



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

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

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

The JAJ IV Q series concept

Reusing existing refrigerant piping minimizes:

- Piping removal and new construction along with installation
- 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.

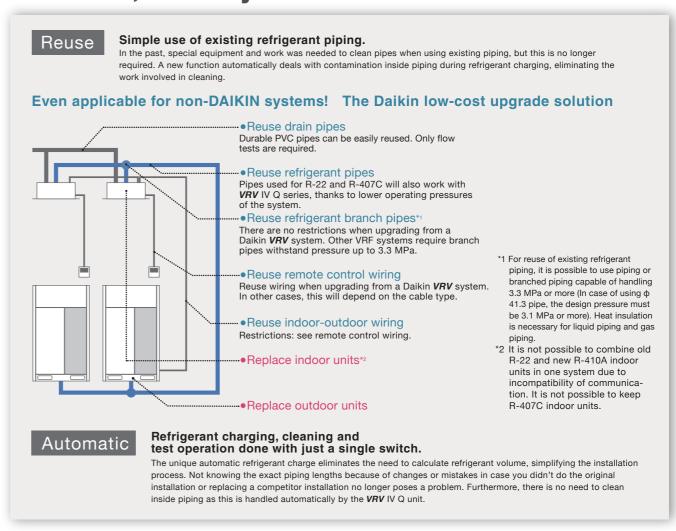
An automatic refrigerant charge function enables high quality installation for the VRV IV Q Series.

- 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.

Quality Replacement Use VAV IV Q SERIES

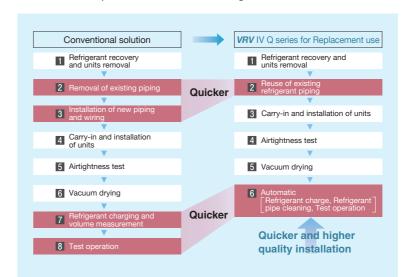


Quick, Quality and Economical



Time saving

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

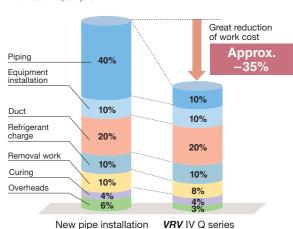


Cost saving

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

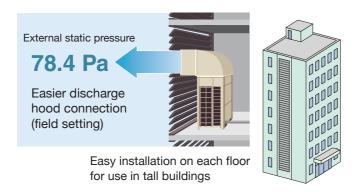
Significantly more compact outdoor unit enables the effective use of limited space!

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

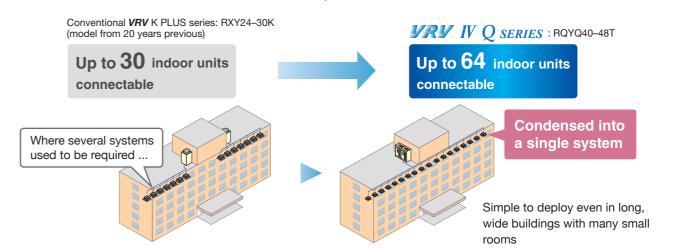
Can be transported easily by elevator

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!

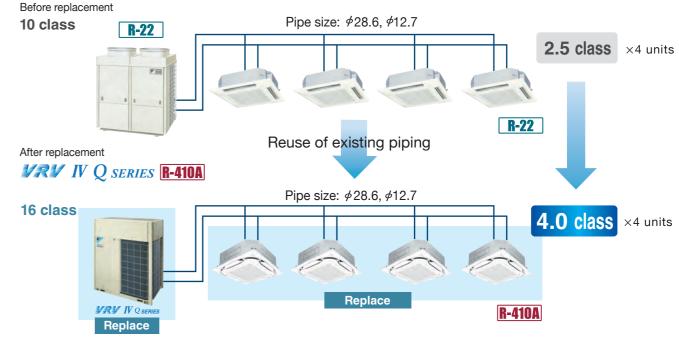
The number of connectable indoor units has been drastically increased from 30 to 64.



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 \$\phi41.3\$ pipe, the design pressure must be 3.1 MPa or more). Heat insulation is necessary for liquid piping and gas piping.

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

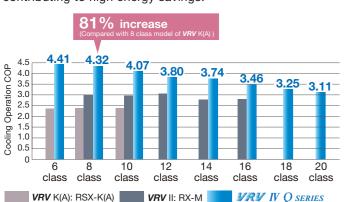
As a leading global innovator, Daikin advanced from the conventional 2 module combination to a single module for 18 and 20 class models. This allows the installation area to reduce by 33% as compared to the previous models.



Energy saving

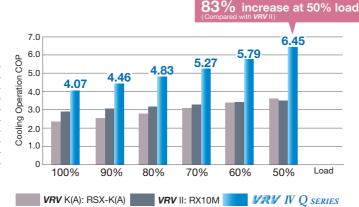
Higher Coefficient of Performance (COP)

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



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

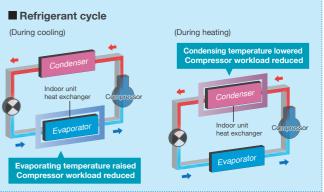
Customise your VRV system for optimal annual efficiency

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.

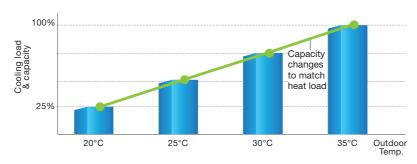
How is energy reduced?

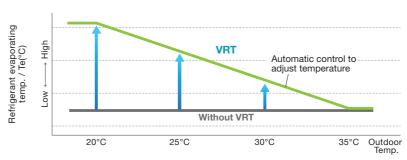
During cooling, the refrigerant evaporating temperature (Te) is raised to minimise the difference with the condensing temperature. During heating, condensing temperature (Tc) is lowered to minimise the difference to the evaporating temperature. Compressors work less, and this reduces power consumption.

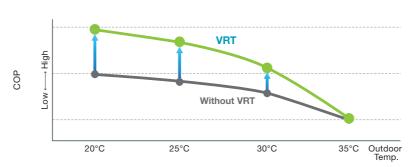
Refrigerant **T**emperature



■ 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.

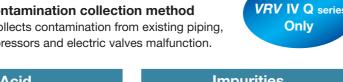
Energy efficiency is improved without sacrificing comfort.

Advanced Technologies Achieve

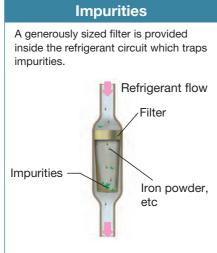
New technology that enables use of existing piping

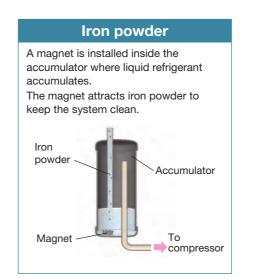
New tested contamination collection method

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



Acid An acid neutraliser agent is added to disable acids (chlorine ions), which cause corrosion. neutraliser (chlorine ion) Refrigerant





Outer Rotor DC Motor (ODM)

Only Daikin adapted ODM with feature ofstable rotation and volumetric efficiency

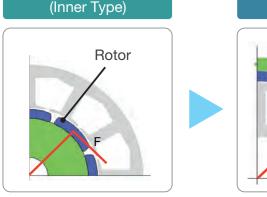
Advantages of ODM

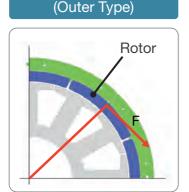
Thanks to large diameter of the rotor,

Conventional Motor

- 1) Large torque with same electromagnetic force
- 2 Stable rotation in all range, and can be perated with small number of rotations







ODM

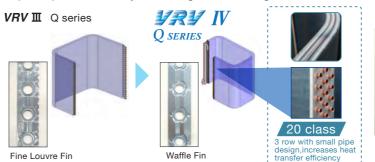


HIGH TORQUE MORE

Excellent Performance

Highly integrated heat exchanger

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





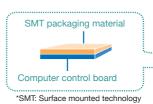
Realise highly integrated heat exchanger performance (increase row, reduce fin pitch) by reducing of airflow resistance which changes cooling tube to Ø7.

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.



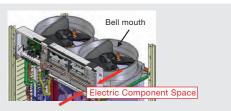
surface adopting SMT packaging technology

Computer control board

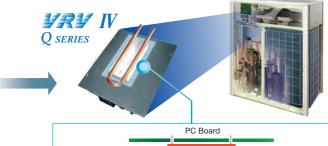
Refrigerant cooling technology, ensures stability of PCB temperature

Improved inner design to increase smooth airflow

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







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

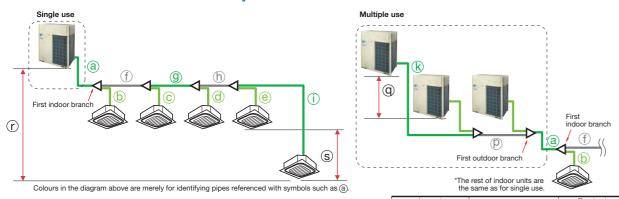
It is possible to cool the inverter power module stability even at high ambient temperature. This helps to keep air-conditioning capacity and also reduces failure ratio.

Guidelines for Reuse of Existing Refrig erant Piping



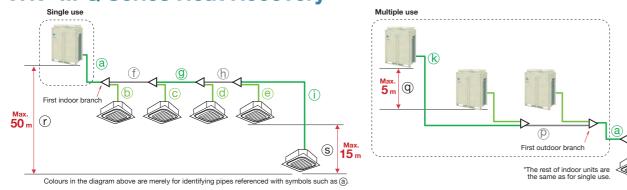
Piping limits for reuse of existing piping

VRV IV Q Series Heat Pump



			Actual piping length	Exan	nple	Equivalent piping length	
	Refrigerant piping length		150 m	a+f+g	ı+h+i	175 m	
Maximum allowable	Total piping length		300 m	a+b+c+d+	e+f+g+h+i	_	
piping length	Between the first indoor branch a	nd the farthest indoor unit	40 m	f+g+	h+i	_	
	Between the outdoor branch and	the last outdoor unit	10 m	k+	p	13 m	
			Level Differ	ence		Example	
	Between the outdoor units (Multip	ole use)	5 m			q	
allowable Between th	Between the indoor units		15 m			S	
	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
Refrigerant piping length	Defrigerent pining length		150 m		175 m
	120 m	a+i+g+ii+i	150 m		
allowable	Total piping length		300 m	a+b+c+d+e+f+g+h+i	_
piping length	Between the first indoor branch an		40 m	f+g+h+i	_
	Between the outdoor branch and t		10 m	k+p	13 m

			Level Difference	Example
Between the outdoor units (Multiple use)	le 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

Reusability of existing piping

VRV IV Q Series Heat Pump

									Piping siz	е						
Type of piping	Capacity	Liquid							Gas							
		ϕ 6.4	\$\phi\$ 9.5	φ12.7	<i>ф</i> 15.9	<i>\$</i> 19.1	φ22.2	φ12.7	<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	so			Х	X	×	X	so	•			Х	X	×
	8 class	Х	S O	•		Х	X	X	X	SO		•	•	X	X	×
	10 class	Х	so	•		Х	X	Х	X	х	so		•	X	X	×
	12 class	X	х	so	•	х	X	×	X	×	X	X	SO	•	Х	×
	14 class	X	X	so	•	X	X	×	X	x	X	X	SO	•	X	×
	16 class	Х	Х	so	•	Х	X	Х	X	х	X	X	so	•	X	×
	18 class	Х	х	X	so	•	Х	Х	X	х	X	X	so	•	Х	×
	20 class	Х	X	X	SO	•	Х	Х	X	X	X	X	SO	•	Х	×
	22 class	X	X	×	so	•	Х	×	X	x	X	X	so	•	X	×
	24 class	X	Х	X	so	•	Х	Х	X	х	X	X	X	SO	•	×
Main piping	26 class	X	х	×	X	so	•	Х	×	x	×	×	×	so	•	×
	28 class	Х	х	×	X	so	•	Х	X	×	×	×	×	so	•	×
	30 class	X	х	х	X	so		Х	X	х	X	Х	X	SO	•	×
	32 class	×	х	×	×	so	•	×	×	х	×	×	×	so	•	×
	34 class	Х	×	X	X	so	•	X	X	×	×	×	×	so	•	X
	36 class	Х	х	×	X	so	•	Х	X	×	×	×	×	X	SO	•
	38 class	Х	X	×	X	so	•	Х	×	x	X	X	×	×	SO	•
	40 class	Х	х	X	х	so	•	Х	X	х	X	X	х	Х	so	•
	42 class	Х	х	X	X	so	•	Х	×	×	×	×	×	×	so	•
	44 class	X	Х	X	X	so	•	Х	×	×	×	X	×	X	SO	•
	46 class	X	х	Х	X	so	•	Х	×	х	X	X	×	X	so	•
Ī	48 class	X	×	х	X	so	•	Х	×	×	×	X	×	×	so	•
	< 100	X	soo		Х	х	Х	Х	SO		Х	х	х	х	X	×
	100 ≤ X < 150	X	soo		Х	×	X	Х	S O	•	х	X	×	×	×	×
	150 ≤ X < 160	Х	soo		Х	×	×	Х	X	soo			х	×	X	×
	160 ≤ X < 200	X	so	•	Х	×	X	Х	×	S O		•	х	X	X	×
From	200 ≤ X < 290	X	so	•		X	×	×	×	×	S O	•		×	×	×
REFNET	290 ≤ X < 330	X	Х	soo		×	×	×	×	х	х	•	so		×	×
to REFNET"	330 ≤ X < 420	Х	x	SO	•	х	х	×	×	х	х	х	so	•	х	×
	420 ≤ X < 480	Х	x	Х	soo		х	×	×	х	х	х	so	•	х	×
	480 ≤ X < 640	×	×	×	SO	•	×	×	×	×	×	×	SO	•	×	×
	640 ≤ X < 900	X	×	×	Х	SO		×	×	х	×	×	×	so	•	
	900 ≤ X < 920	Х	х	×	×	so	•	Х	×	х	х	х	×	so		•
	920 ≤	Х	x	X	X	so	•	Х	×	х	X	х	×	×	s O	•
	20-40 class	SO		Х	×	Х	×	S		×	×	×	×	×	×	Х
	50 class	S O	•	Х	×	×	×	so	•	×	×	×	×	×	×	×
	63-80 class	X	soo		×	×	X	Х	soo		×	X	×	×	X	×
From	100-125 class	X	soo		X	×	×	×	SO	•			X	×	X	×
REFNET	140-145 class	X	so		X	×	X	×	SO				X	X	X	×
to indoor unit ^{*2}	180 class	X	so		X	X	×	×	×	so			×	×	×	×
-	200 class	X	so	•	X	×	X	×	X	so		•		X	×	×
						_ ^	_ ^			-	so					

- 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. O: Piping size of conventional R-410A model S: Standard piping size of *VRV* IV Q series

VRV III Q Series Heat Recovery

											Pi	ping siz	е											
Type of piping	class	Liquid							Suction gas								High and low pressure gas							
		φ6.4	\$\phi\$ 9.5	φ _{12.7}	φ _{15.9}	\$ 19.1	φ22.2	φ _{12.7}	\$ 15.9	φ 19.1	φ22.2	φ 25.4	φ 28.6	\$ 34.9	φ 41.3	\$ 9.5	\$12.7	φ _{15.9}	\$\phi\$ 19.1	φ22.2	\$\phi_{25.4}\$	\$\phi_28.6\$	φ3	
	10 class	×	so	•	×	×	×	×	×	×	SO		•	×	×	×	×	×	SO		×	×	Т	
	13 class	×	×	S		×	×	×	×	×	×	S		×	×	×	×	×	S		×	×		
	16 class	×	×	so	•		×	×	×	×	×	×	so	•	×	×	×	×	×	so	•	×	П	
	18 class	×	×	×	SO	•	×	×	×	×	×	×	so		×	×	×	×	×	so	•	×	П	
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	×	×	×	×	×	Т	
	50 ≤ X < 100	×	soe		×	×	×	×	SO		×	×	×	×	×	×	soe		×	×	×	×	Т	
	100 ≤ X < 150	×	so•		×	×	×	×	so	•			×	×	×	×	so	•	×	×	×	×	П	
	150 ≤ X < 160	×	soo		×	×	×	×	×	SO			×	×	×	×	×	soe		×	×	×	Т	
	160 ≤ X < 200	×	so	•	×	×	×	×	×	so		•	×	×	×	×	×	so	•	×	×	×	Т	
From	200 ≤ X < 290	×	SO	•		×	×	×	×	×	so			×	×	×	×	×	S○●		×	×		
REFNET	290 ≤ X < 330	×	×	SO		×	×	×	×	×	×	S	0	×	×	×	×	×	SO		×	×		
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	×	×	×	×	SO•		×	×	×	×	×	×	so		×	×	×	×	×	S	0		
	700 ≤ X < 900	×	×	×	×	SO		×	×	×	×	×	×	SO	•	×	×	×	×	×	S	0	×	
	900 ≤	×	×	×	×	SO		×	×	×	×	×	×	S	0	×	×	×	×	×	×	so	×	
	20-40 class	so•		×	×	×	×	s O •		×	×	×	×	×	×								_	
	50 class	SO	•	×	×	×	×	so	•	×	×	×	×	×	×	1								
_	63 class	×	SO		×	×	×		soe		×	×	×	×	×	1								
From	80 class	×	SO		×	×	×	×	S○●		×	×	×	×	×	1								
BS	100-125 class	×	soo		×	×	×	×	so	•			×	×	×	1								
to indoor unit ²	140-145 class	×	so		×	×	X	×	so				×	×	×	I								
	180 class	×	so		X	×	×	×	×	so			×	×	×	1		/						
	200 class	×	so	•		×	X	×	×	SO		•		×	×	1 .	/							
	250 class	×	SO	•		×	×	×	×	×	SO			×	×	1/								

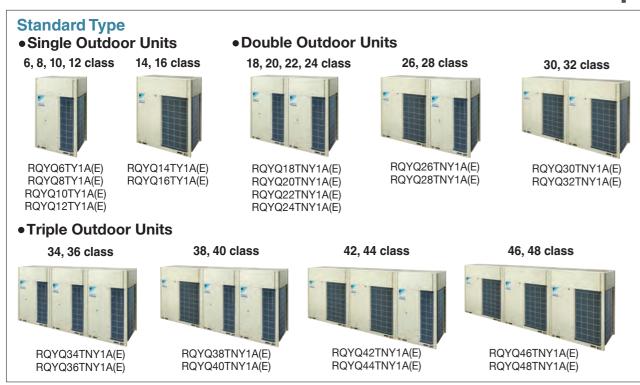
- : Piping size of conventional R-410A model
 S : Standard piping size of VRV III Q series
- Pliping between REFNET. It cannot exceed piping size of upstream side.
 Plping from BS to indoor unit depends on total capacity index of indoor units connected below each REFNET. It cannot exceed piping size of upstream side.
 Plping from BS to indoor unit depends on the capacity of the connected indoor unit. It cannot exceed piping size of upstream side.

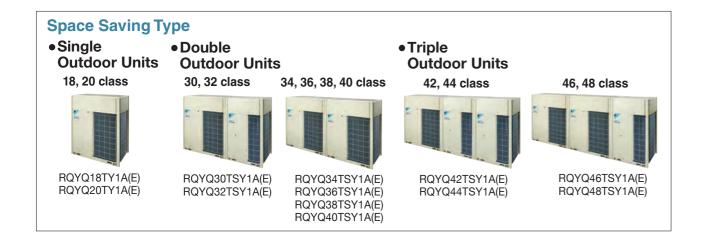
^{*1} Piping between REFNETs depends on total capacity index of indoor units connected below each REFNET. It cannot exceed piping size of upstream side. *2 Piping from REFNET to indoor unit depends on the capacity of the connected indoor unit. It cannot exceed piping size of upstream side



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	DUEDOOD100	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	Brill F22F 100	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	DHFF22P131	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.

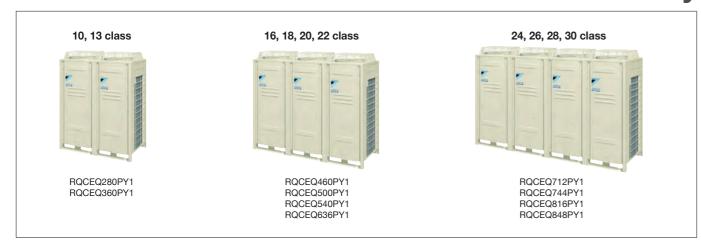
*2 Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outdoor units.

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

- *1 The outdoor unit multi connection piping kit (separately sold) is required for multiple connections.
- *2 Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor units.
- *3 For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outdoor units.
- *4 When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units. And the connection ratio must not exceed 100%.

Variety of Indoor Unit

Variot	y Oi iiia	001		•••													lew I	ineup
T. (2.2	Model Name	Capacity Range(kW)	20 2.2	25 2.8	32 3.6	40 4.5	50 5.6	63 7.1	71 8	80 9	100 11.2	125 14	140 16	145 16.2	160 18	180 20	200 22.4	250 28
Туре	Wodel Name	Capacity Index	20		31.25		50	62.5		80	100	125	140	145	160		200	
Ceiling Mounted Cassette (Round Flow with Sensing)	ew FXFSQ-AVM						•						New capacity					
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE					•	•	•			•	•						
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		•			•	•	 	 	 	 							
4-Way Flow Ceiling Suspended	FXUQ-AVEB			1				1	•	1	•				1			
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		•	•	•	•	•	•	1	•		•						
Ceiling Mounted Cassette (Single Flow)	ew FXEQ-AV36									1	1							
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-TV1B(A)									 								
Slim Ceiling Mounted Duct	FXDQ-PDVE	(700mm width type)					1	1		 	1							
(Standard Sorios)	FXDQ-NDVE	(900 / 1,100mm width type)		1 1 1 1 1 1					 	 	 							
Ceiling Concealed Duct	FXDYQ-MAV1			1				 		•	•	•		•				
Middle Static Pressure Ceiling Mounted Duct	ew FXSQ-PAVE														1			
Ceiling Mounted	FXMQ-PAVE						•											
Duct	ew FXMQ-PV1A			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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	•	1	 	•							
Wall Mounted	FXAQ-PVE		•			•	•	•	 	 								
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	VAM-GJVE Airflow rate 150-2000 m³/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

										Name of the last o						
			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			
Cooling consoit	+.,	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 capacit	ty	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
Heating assessi	4	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 capacit	ty	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
Power	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 TALE		m³/min	119	157	165	178	2	33	157+165	157+178	165+178	178+178	178-	+233	233-	+233
Dimensions (HX	XWXD)	mm		1,657X	930X765		1,657X1	,240X765		(1,657X930X765)	+(1,657X930X765)		(1,657X930X765)+	(1,657X1,240X765)	(1,657X1,240X765)-	+(1,657X1,240X765)
Machine weight	t	kg	18	85	19	95	2	85	185	+195	195-	+195	195-	+285	285-	+300
Sound level		dB(A)	55	56	57	59	60	61	60	(51	62	6	3	6	4
Sound power		dB(A)	75	76	78	79	80	83	80	81	8	32	6.3+10.3	84	8	5
Operation	Cooling	°CDB		-5 to 49								-5 t	o 49			
range	Heating	°CWB		-20 to 15.5								-20 to	15.5			
Refrigerant	Туре			R-410A								R-4	10A			
Helligerant	Charge	kg	5.	.9	6.0	6.3			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	111111	φ 19.1 ((Brazing)	φ 22.2 (Brazing)		φ 28.6 (Brazing)			φ 28.6 (Brazing)						

									1	-
			RQYQ34TNY1A(E)	RQYQ36TNY1A(E)	RQYQ38TNY1A(E)	RQYQ40TNY1A(E)	RQYQ42TNY1A(E)	RQYQ44TNY1A(E)	RQYQ46TNY1A(E)	RQYQ48TNY1A(E)
MODEL	Co	ombination lits	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
Cooling conso		Btu/h	324,000	345,000	362,000	382,000	406,000	423,000	444,000	461,000
Cooling capac	ily	kW	95.0	101	106	112	119	124	130	135
Heating copes	sits ,	Btu/h	365,000	386,000	406,000	427,000	454,000	471,000	498,000	515,000
Heating capac	ily	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 contr	rol	%	5-1	100		4-	100		3-1	00
Casing colour						e (5Y7.5/1)			Ivory white	,
	Type				Hermetically Se	aled Scroll Type			Hermetically Se	aled Scroll Type
Compressor	Motor out	tput 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 rate		ℓ/s	2,749+2,966+2,966	2,966+2,966+2,966	2,616+2,966+3,883	2,966+2,966+3,883	2,966+3,8	883+3,883	3,883+3,8	83+3,883
Alfilow rate		m³/mir	165+178+178	178+178+178	157+178+233	178+178+233	178+2	33+233	233+23	33+233
Dimensions (H	IXWXD)	mm	(1,657X930X765)- +(1,657X	+(1,657X930X765) 930X765)		+(1,657X930X765) ,240X765)		(1,657X1,240X765) 1,240X765)	(1,657X1,240X765)- +(1,657X1	
Machine weigh	ht	kg	195+1	95+195	185+195+300	195+195+285	195+2	85+285	285+28	35+300
Sound level		dB(A)	63	6	64		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	Operation 5				-20 to	15.5			-20 to	15.5
Refrigerant	Туре		R-410A					R-4	10A	
nemgerant	Charge	kg				6.3+10.4+10.4	10.3+10.3+11.7	10.3+10.4+11.7		
Piping	Liquid						<i>ϕ</i> 19.1 (Brazing)		
connections	Gas	mm						-	\$\phi\$ 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

										1					
			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	em, 380-415 V, 50 Hz		
Cooling capaci	·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 capaci	пц	kW	50.0	56.0	83.5	89.5	95.0	100		106	112	117	123	129	134
Heating capaci	it.	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
rieating capaci	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	I KVV	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	100		
Casing colour					Ivory white	e (5Y7.5/1)						Ivory white	e (5Y7.5/1)		
	Type				Hermetically Sea	aled Scroll Type						Hermetically Se	aled Scroll Type		
Compressor	Motor o	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)
A inflammata		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
Airflow 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	30X765)+(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	5		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	o 49			-5 to 49						
range	Heating	°CWB			-20 to	15.5			-20 to 15.5						
Refrigerant	Туре				R-4	10A			R-410A						
rienigerant	Charge	kg	11.7	11.8	6.3+11.7	6.3+11.8	10.4+11.7	11.7+11.7	11.7+11.7 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+11.8				6.3+11.7+11.7		
Piping	Liquid	mm	<i>∮</i> 15.9	(Brazing)		<i>ϕ</i> 19.1(E	Brazing)					<i>∲</i> 19.1(E	Brazing)		
connections	Gas	111111	\$\phi\$ 28.6((Brazing)				φ 41.3(Brazing)				<i>ϕ</i> 41.3(E	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

				- Addressed									
MODEL	Comunits	bination	RQCEQ280PY1 RQEQ140PY1 RQEQ140PY1	RQCEQ360PY1 RQEQ180PY1 RQEQ180PY1	RQCEQ460PY1 RQEQ140PY1 RQEQ140PY1 RQEQ180PY1	RQCEQ500PY1 RQEQ140PY1 RQEQ180PY1 RQEQ180PY1	RQCEQ540PY1 RQEQ180PY1 RQEQ180PY1 RQEQ180PY1	RQCEQ636PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1	RQCEQ712PY1 RQEQ140PY1 RQEQ180PY1 RQEQ180PY1 RQEQ212PY1	RQCEQ744PY1 RQEQ140PY1 RQEQ180PY1 RQEQ212PY1 RQEQ212PY1	RQCEQ816PY1 RQEQ180PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1	RQCEQ848PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1	
Power supply	<u> </u>				3-phase 4-wire syste	em, 380-415 V, 50 Hz				3-phase 4-wire syste	em, 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 capac	ity (*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	
	ta	Btu/h	109,000	136,000	177,000	191,000	205,000	229,000	268,000	276,000	298,000	306,000	
Heating capac	ity	kW	32.0	40.0	52.0	56.0	60.0	67.2	78.4	80.8 87.2			
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	KVV	8.00	10.7	13.4	14.7	16.1	17.7	20.7	21.2 23.1 23.6			
Capacity contr	rol	%	13-100	10-100	8-100		7-100			5-1	00		
Casing colour					Ivory white	e (5Y7.5/1)				Ivory white	e (5Y7.5/1)		
Compressor	Type				Hermetically se	aled scroll type				Hermetically se	aled scroll type		
oon pressor	Motor outpu	ut 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	1833+18	333+1833	1583+1833	+1833+1833	1833+1833	3+1833+1833	
Alfilow rate		m³/min	95+95	110+110	95+95+110	95+110+110	110+1	10+110	95+110	+110+110	110+110)+110+110	
Dimensions (H	XWXD)	mm	(1,680X635X765)-	+(1,680X635X765)	(1	,680X635X765)+(1,680X6	635X765)+(1,680X635X76	65)		(1,680X635X765)+(1,680X635X765)-	, , , , , , , , , , , , , , , , , , , ,	,	
Machine weigh	nt	kg		+175		175+175+175		179+179+179	175+175+175+179	175+175+179+179	175+179+179+179	179+179+179	
Sound level		dB(A)	57	6	1	62	63	65	64	65		66	
Operation	Cooling	°CDB			-5 t					-5 to			
Operation range	Heating	°CWB			-20 to					-20 to			
i di igo	Cooling & Heatir	ng °CWB			-6 to					-6 to 15.5			
Refrigerant	Туре				R-4					R-410A			
	Charge	kg	10.3+10.3	10.6+10.6	10.3+10.3+10.6	10.3+10.6+10.6	10.6+10.6+10.6	11.2+11.2+11.2	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			
Piping Liqu			φ 9.5 (Brazing)	<i>∲</i> 12.7 (E	Brazing)					0/			
connecti Suc		mm	φ 22.2 (Brazing)			<i>ф</i> 28.6 (E	Brazing)		φ 28.6 (Brazing)				
ons High a	and low pressure ga	as		φ 19.1 (Brazing)				φ 25.4 (Brazing)			<i>ϕ</i> 28.6	(Brazing)	

Note: Specifications are based on the following conditions;

^{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.

<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.

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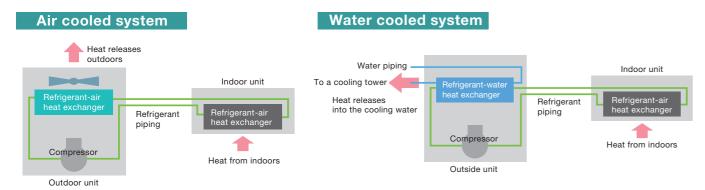
17 IV W SERIES Water Cooled



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.



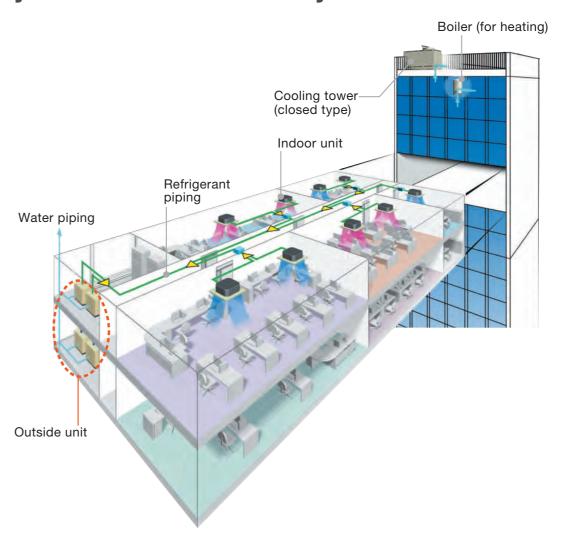
As a water cooled system does not require to exchange heat with outdoor air,

- 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

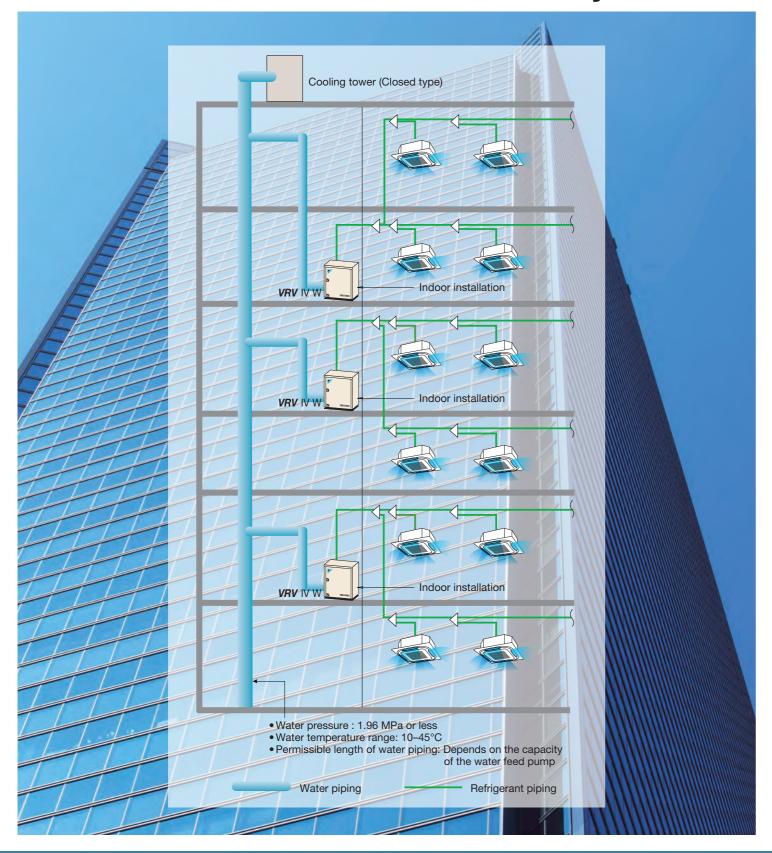


The VRV IV W series combines the characteristics of a water cooled system with the VRV system



- 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.

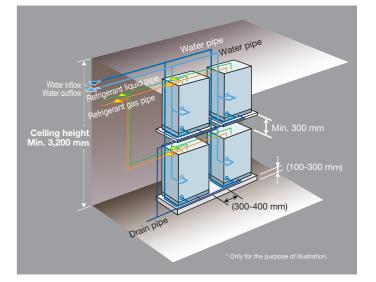


Adaptable to high-rise buildings due to easy installation on each floor

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.



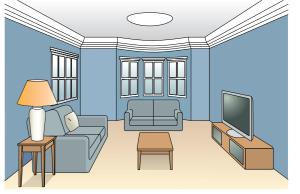


Easy to install in underground shopping malls and subway systems

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.



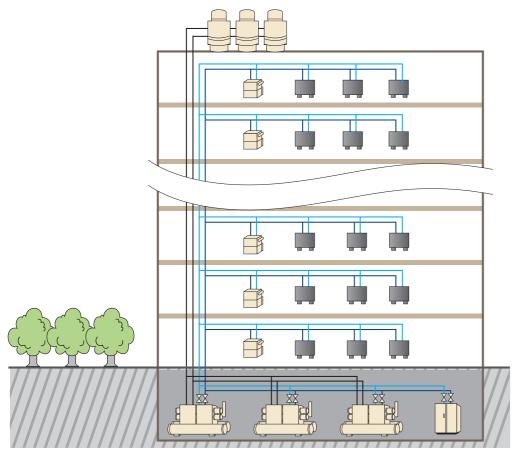
We offer an extensive lineup of small capacity outside units as well as connectable residential indoor units.



VRV IV W SERIES Heat 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?

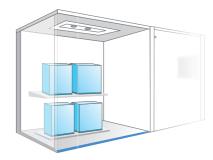
- 4 How to securely transport the air conditioning outside unit without incident?
- 6 How to simplify maintenance of the air conditioning system?

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.



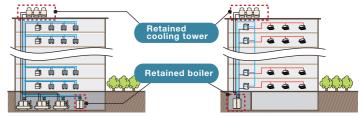
After Retrofit

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

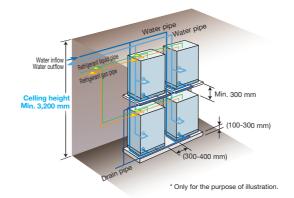


• The modular design featured by the water cooled VRV IV W series enables a free and flexible configuration of the outside units. Outside units may be double stacked to minimize plant space.

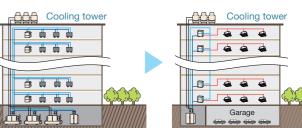
Before Retrofit

Stacking up of the outside units

time and labor.



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.

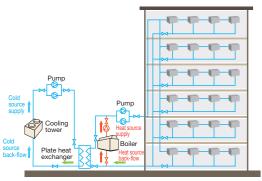
* System diagran

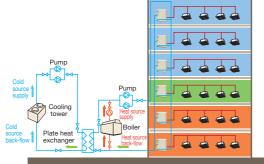
Water Cooled **VRV** IV as a Retrofit Solution



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.





phases is possible.

Phase 1

Renovation in

Phase 2

Phase 3

* System diagram

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.

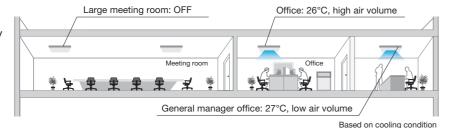


Individual air conditioning comfort can be realized when and where it is actually required.

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.

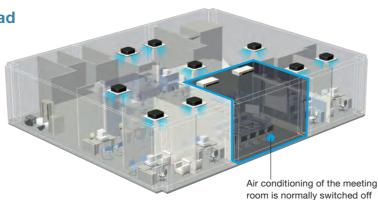


2 Higher efficiency with partial load

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 load performances.

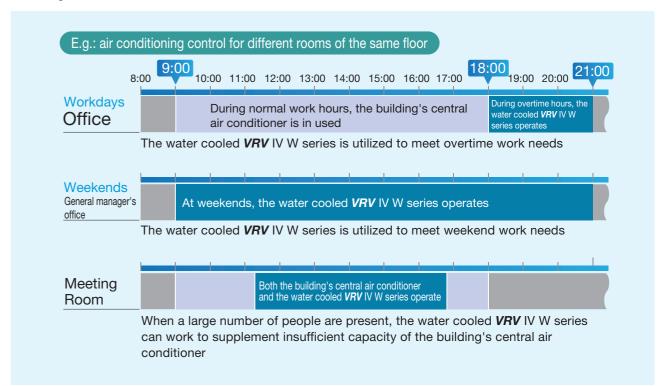


Actual conditions of the floor

3 Suitable as a low load or supplementary system

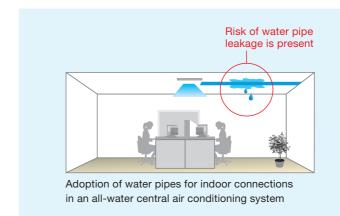
When combined up with a conventional central air conditioning system, the water cooled *VRV* IV W series can easily handle the air conditioning needs for after-hours work while the building's central air conditioner can be utilized during normal work hours. The water cooled *VRV* IV W series can be added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

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



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



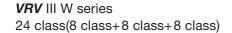
Compact and lightweight

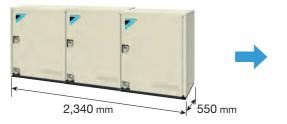
Adoption of a water heat exchanger and optimisation of the refrigerant control circuit has resulted in compact and lightweight equipment.

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.







1.560 mm

VRV W SERIES

24 class(12 class+12 class)

Footprint 1.29 m²

0.86 m²

33% Decrease

34% Decrease

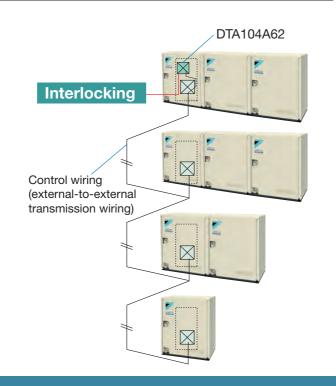
447 kg **Product Weight** 294 kg

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

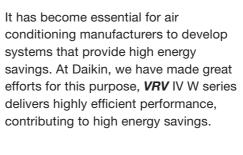






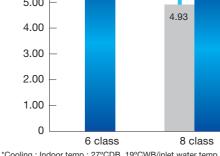
Capacity	class	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Range	kW	16.0	22.4	28.0	33.5	38.4	44.8	50.4	56.0	61.5	67.0	72.8	78.4	84.0	89.4	95.0	101
Conventiona VRV III W ser																	
VRV IV W	VSERIES																

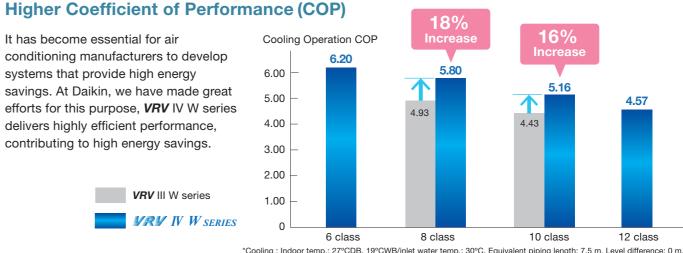
Energy saving



VRV III W series

RY IV W SERIES





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

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.

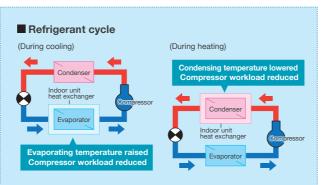
With this excellent technology, running costs are reduced.

How is energy reduced?

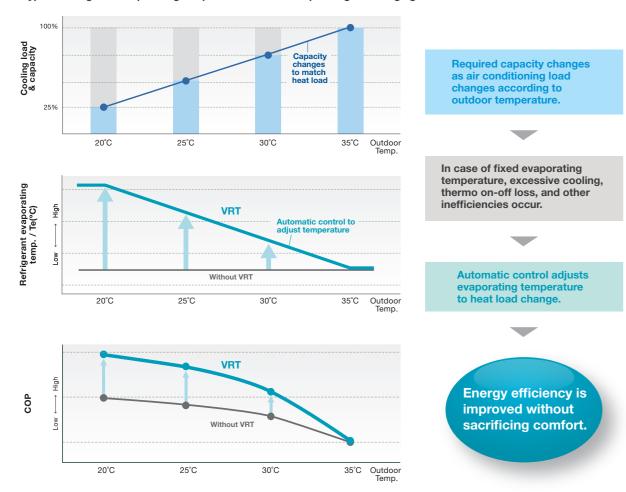
During cooling, the refrigerant evaporating temperature (Te) is raised to minimise the difference with the condensing

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

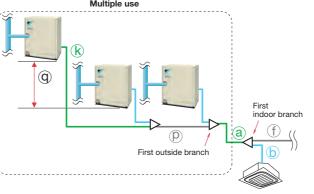


^{*} VRT is only available during either all cooling operation or all heating operation.

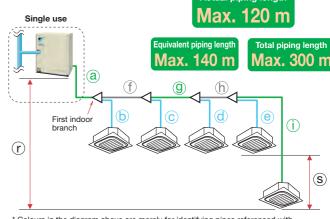
Long refrigerant piping length

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 rest of indoor units are the same as for single use



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

			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 branch	n and the farthest indoor unit	90 m* ¹	f+g+h+i	_
	Between the first outside brand	ch and the last outside unit	10 m	k+p	13 m
Max.	Between the outside units (mul	tiple use)	2 m	q	_
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	_

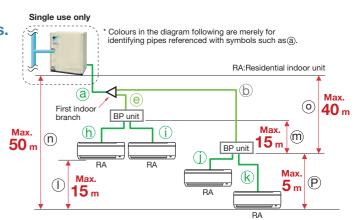
^{*1} No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. The VRV IV W series is easy to extend to 90 m by lessening the conditions from conventional VRV III W models. Be sure to refer to the Engineering Data Book for details of these conditions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

For connection of only residential indoor units.

Max. 100 m

Max. 120 m

Max. 200 m



		piping length	Example	Example piping length
Refrigerant piping length		100 m	a+b+k	120 m
Total piping length		200 m	a+b+e+h+j+k	_
Between the first indoor brane	ch and the farthest indoor unit	50 m* ¹	b+k	_
	If indoor unit capacity index < 60	2 m - 15 m	h,i,j,k	_
	If indoor unit capacity index is 60	2 m - 12 m	h,i,j,k	_
indoor driit	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	_
Between the indoor units		15 m	I	_
Between the outside unit and	the BP unit	40 m	0	_
Between BP units		15 m	m	_
Between the BP unit and the	indoor unit	5 m	р	_
	Total piping length Between the first indoor brand Between BP unit and indoor unit Between the outside unit and the indoor unit Between the indoor units Between the outside unit and Between BP units	Total piping length Between the first indoor branch and the farthest indoor unit Between BP unit and indoor unit Between the outside unit and the indoor unit Between the outside unit and the indoor unit Between the indoor unit Between the outside unit and the BP unit	Refrigerant piping length Total piping length Between the first indoor branch and the farthest indoor unit Between BP unit and indoor unit Between the outside unit and the indoor unit Between the indoor unit Between the outside unit and the indoor unit Between the indoor unit Between the outside unit and the indoor unit Between the outside unit and the BP unit Between BP units Piping length 200 m 50 m*1 If indoor unit capacity index < 60 2 m - 15 m If indoor unit capacity index is 71 2 m - 8 m Between the outside unit and the outside unit is above. 50 m Between the indoor units Between the outside unit and the BP unit 40 m Between BP units	Refrigerant piping length Refrigerant piping length Total piping length Between the first indoor branch and the farthest indoor unit Between BP unit and indoor unit If indoor unit capacity index < 60 2 m - 15 m h,i,j,k If indoor unit capacity index is 60 2 m - 12 m h,i,j,k If indoor unit capacity index is 71 2 m - 8 m h,i,j,k Between the outside unit and the indoor unit If the outside unit is above. Between the indoor units Between the indoor units Between the outside unit and the BP unit Between BP units In the outside unit is below. Between BP units In the outside unit is down and the BP unit Between BP units In the outside unit is down and the BP unit Between BP units In the outside unit and the BP unit In the outside unit is down and the BP unit unit is

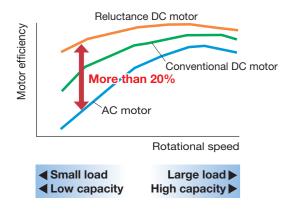
^{*1.} When the piping length exceeds 20 m, the size of the main pipes (the gas side and the liquid side) must be increased. Please refer to Engineering Data Book for details.

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.



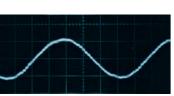
Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory using Daikin products.

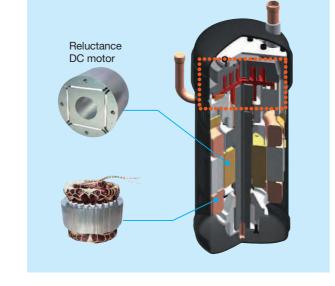
- *1 A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
- *2 The torque created by the change in power between the iron and magnet parts.

Smooth sine wave DC inverter

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

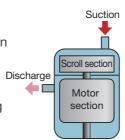






Scroll compressor

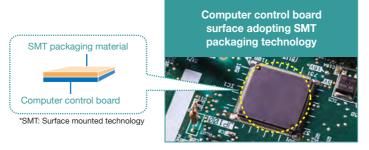
Sucked gas is compressed in the scrolling part before the heated motor, so that the machine compress the non-expanded gas, resulting in high efficiency compression.



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

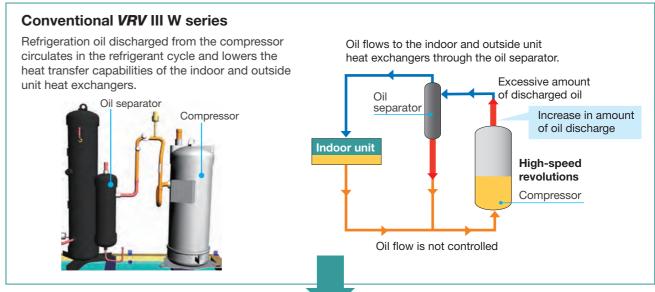


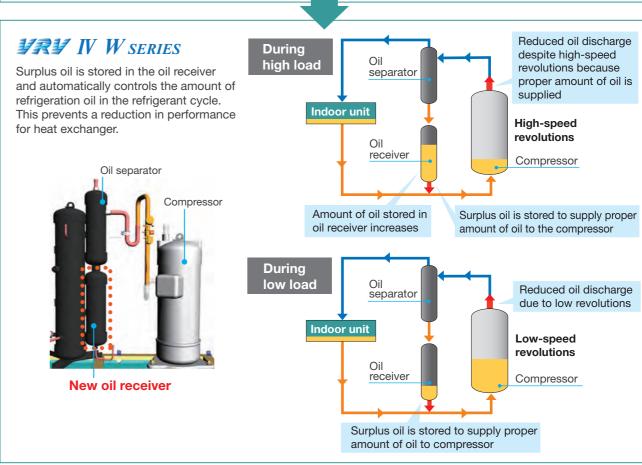
■ Minimize performance degradation from refrigeration oil in all stages of operation

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.





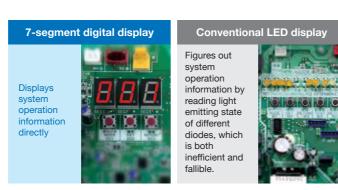
Reliable and Stable System

IPI IV W SERIES Heat Pump / Heat Recovery

Simplified commissioning and after-sales service

Function of information display by luminous digital tube

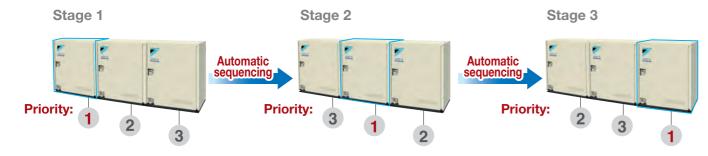
VRV IV W series utilises 7-segment luminous digital tubes to display system operation information, enabling the operational state to be visually displayed whilst facilitating simplified commissioning and after-sales service.



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

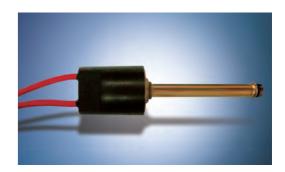
No matter whether the indoor or outside unit accidentally experiences a power interruption during normal operation, the system will keep a record of the operating mode adopted before the power interruption. When the power supply recovers, the air conditioning system will then restore itself back into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

Refrigerant pressure detection technology makes system operation more stable and efficient

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

More stable operation

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



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

More efficient operation

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

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	<u> </u>	dex of connectal	ble indoor units ^{*2}	Maximum number of connectable indoor units
			index	80% ^{*2}	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.

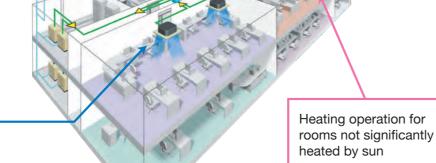
^{*2.} Total capacity index of connectable indoor units must be 80%-130% of the capacity index of the outside unit.

VRV IV W SERIES Heat Pump / Heat Recovery

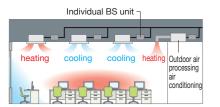
Easily responds to simultaneous heating and cooling needs.

Offers simultaneous cooling and heating operation on the same floor!

Cooling operation for rooms significantly heated by sun

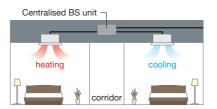


Increasing demand for simultaneous cooling and heating needs



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.

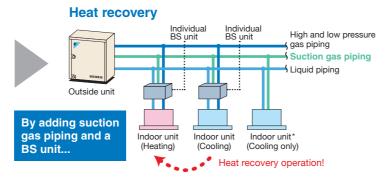


Individual BS unit

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.

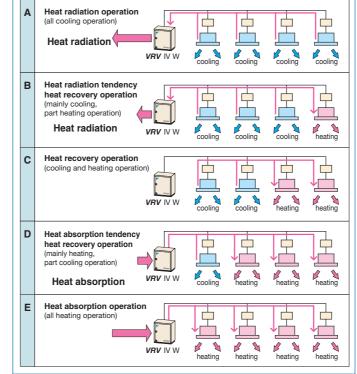
This 2-stage heat recovery operation substantially improves energy efficiency and makes the system the ideal solution to the requirements of modern office buildings, where some areas may require cooling even in winter, depending on the amount of sunshine received and the number of people in the room.

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



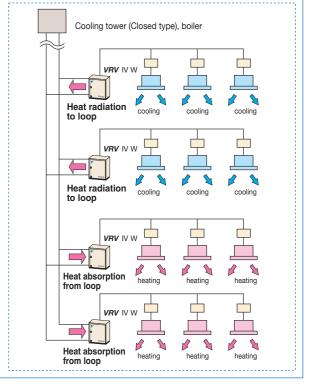
Note: • Above system configurations are for illustration purposes only

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

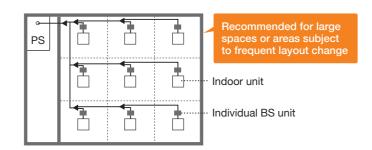
IPI IV W SERIES Heat Pump / Heat Recovery

Individual and centralised BS unit allow greater design flexibility

Individual BS unit



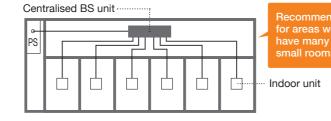
- Compact and flexible installation
- Flexible design
- Low noise



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.

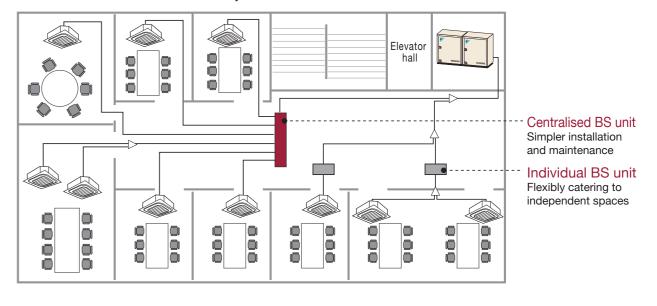


Greater design flexibility achieved by increasing the connection capacity range

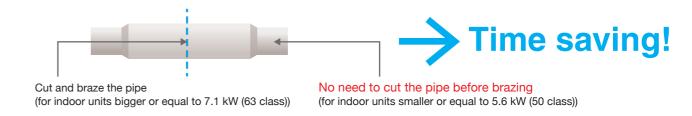


Combined use of a centralised BS unit and individual BS units meets the needs of many design plans.

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 sou	d	Centralised BS unit									
Maximum transiem sou	4 branch	6 branch	8 branch	10 branch	12 branch	16 branch					
New BS units Sound level (dB(A))*		45	47	47 48 48 4							
Conventional BS units	Sound level (dB(A))*	51.5	53.5		_	_					

	Individual BS unit											
h	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

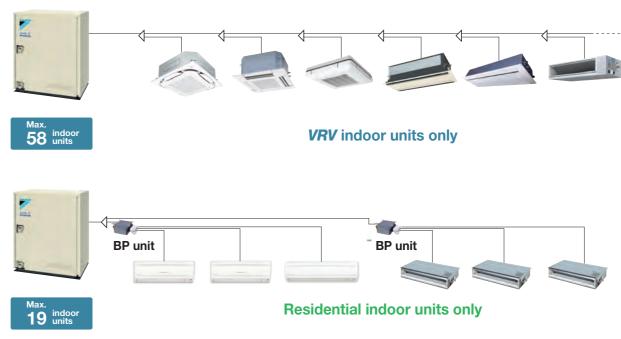
Indoor units can be selected from 2 lineups, both *VRV* and residential indoor units, to match rooms and preferences.

																1	New I	ine
			20	25	32	40	50	63	71	80	100	125	-	145	160	180		-
Type	Model Name	Capacity Range(kW) Capacity Index		2.8	3.6		5.6	7.1 62.5			11.2	14	16	16.2	18	20	22.4	
Ceiling Mounted Cassette (Round Flow with Sensing)	ew FXFSQ-AVM	Capacity index	20		31.25	40	50	02.5	71	80	100	125	New capacity	145	160	180	200	۷:
Ceiling Mounted Cassette Round Flow)	FXFQ-PVE			•	•	•	•	•		•	•	•						
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		•	•	•	•	•											
4-Way Flow Ceiling Suspended	FXUQ-AVEB				1		1			1		 	 	 				
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		•	•	•	•	•	•	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					
Slim Ceiling Mounted Duct	ew FXDQ-PDVE	(700mm width type)					1					i i i	i i i i					
(Standard Sorios)	ew FXDQ-NDVE	(900 / 1,100mm width type)		 	1			•	1			! ! !	! ! ! !					
Ceiling Concealed Duct	FXDYQ-MAV1				 		 		1	•		•	 					
Middle Static Pressure Ceiling Mounted Duct	ew FXSQ-PAVE								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			•	•					
Ceiling Mounted	ew FXMQ-PAVE								1	•								
Duct	ew FXMQ-PV1A			 	 		 		 	1		 	 					
Outdoor-Air Processing Unit	FXMQ-MFV1				1		1		1	1	: : : : :		: : : : : :				•	
Ceiling Suspended	FXHQ-MAVE			1 1 1 1 1	•		 	•	1 1 1 1 1	1	•	1 1 1 1 1	1 1 1 1 1					
Wall Mounted	FXAQ-PVE			•				•					 	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					
Concealed Floor Standing	FXNQ-MAVE		•					•					 					
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Airflow rate 500-1000 m³/h															
Heat Reclaim Ventilator	VAM-GJVE	00	Airflow rate 150-2000 m³/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)						
	CTXG-PVMAW							
Wall	CTXG-PVMAS							
Mounted	FTXS-KVMA							
	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 94 for the maximum number of connectable indoor units.

Specifications

VRV IV W SERIES

■ VRV IV W Series Outside Units

RWEYQ-T

Heat Pump / Heat Recovery

				61											
MODEL			RWEYQ6TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ14TYM	RWEYQ16TYM	RWEYQ18TYM	RWEYQ20TYM	RWEYQ22TYM	RWEYQ24TYM			
Oamshimatian .	!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, 380-415 V/380 V, 50/60 Hz						
0		Btu/h	54,600	76,400	95,500	114,000	131,000	153,000	172,000	210,000	229,000				
Cooling capacity		kW	16.0	22.4	28.0	33.5	38.4	44.8	50.4	56.0	61.5	67.0			
		Btu/h	61,400	85,300	107,000	128,000	147,000	171,000	193,000	215,000	235,000	256,000			
Heating capacity		kW	18.0	25.0	31.5	37.5	43.0	50.0	56.5	63.0	69.0	75.0			
Power	Cooling	kW	2.58	3.86	5.43	7.33	6.44	7.72	9.29	10.9	12.8	14.7			
consumption	Heating	kW	2.69	3.98	5.60	7.87	6.67	7.96	9.58	11.2	13.5	15.7			
Casing colour			lvory white (5Y7.5/1)					Ivory white (5Y7.5/1)							
Dimensions (HxW	/xD)	mm	1,000 × 780 × 550						(1,000 × 78	0 × 550) × 2					
Сатачалан	Туре		Hermetically sealed 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			
Defrisevent nining	Liquid						φ 12.7	(Flare)	<i>ϕ</i> 15.9	(Flare)	φ 19.1	(Flare)			
Refrigerant piping connections	Suction gas *1	mm	<i>ф</i> 19.1 (E	Brazing)	φ 22.2 (E	Brazing)			φ 28.6 (l	Brazing)					
connections	High and low pressure gas		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)					
Mateu pipina	Water inlet			PT1 1/4B in	itenal thread				(PT1 1/4B) × 2	2 intenal thread					
Water piping connections	Water outlet			PT1 1/4B in	itenal thread				(PT1 1/4B) × 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	146 × 2 (148 × 2) 146 + 147 (148 + 149) 147 × 2 (149 × 2)							
Sound level		dB(A)	49	50	51	53		53 54 55 56							
Operation range	Inlet water temp.)	°C		10 t	o 45				101	to 45					
Capacity control		%	23-	100	19-	100	23	-100	20-100		19-100				
Defrieses	Туре			R-4	10A				R-4	110A					
Refrigerant	Charge	kg	3	.5	4	2	3.5	3.5 + 3.5 3.5 + 4.2 4.2 + 4.2							

MODEL			RWEYQ26TYM	RWEYQ28TYM	RWEYQ30TYM		RWEYQ32TYM	RWEYQ34TYM	RWEYQ36TYM	7		
			RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM		RWEYQ10TYM RWEYQ10TYM RWEYQ12TYM					
Combination (units		RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM		RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM	٦		
			RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM		RWEYQ12TYM RWEYQ12TYM RWEYQ12TYM					
Power supply			3-phase	4-wire system, 380-415 V/380 V,	50/60 Hz		3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
Caaling canacity		Btu/h	248,000	268,000	287,000		305,000	324,000	345,000	1.		
Cooling capacity		kW	72.8	78.4	84.0		89.5	95.0	101	7		
Lipoting consoits		Btu/h	278,000	300,000	322,000		345,000	365,000	386,000	٦		
Heating capacity		kW	81.5	88.0	94.5		101	107	113	٦		
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	7		
Casing colour				Ivory white (5Y7.5/1)				Ivory white (5Y7.5/1)				
Dimensions (HxW	/xD)	mm		(1,000 × 780 × 550) × 3				$(1,000 \times 780 \times 550) \times 3$		٦		
0	Туре			Hermetically sealed scroll type				Hermetically sealed scroll type				
Compressor	Motor output	kW	2.8 × 2 + 3.7	2.8 + 3.7 × 2	3.7 × 3		$3.7 \times 2 + 4.7$	3.7 + 4.7 × 2	4.7 × 3	٦		
Defriserent nining	Liquid			∮19.1 (Flare)								
Refrigerant piping	Suction gas *1	mm		φ 34.9 (Brazing)				φ 34.9 (Brazing)				
connections	High and low pressure ga	as		φ 28.6*2, φ 34.9*3 (Brazing)				φ 28.6*2, φ 34.9*3 (Brazing)				
Mateu piping	Water inlet			(PT1 1/4B) × 3 intenal thread				(PT1 1/4B) × 3 intenal thread				
Water piping	Water outlet			(PT1 1/4B) × 3 intenal thread				(PT1 1/4B) × 3 intenal thread				
connections	Drain outlet			(PS1/2B) × 3 intenal thread				(PS1/2B) × 3 intenal thread		3		
Machine weight (Operating weight)	kg	146 × 2 + 147 (148 × 2 + 149)	146 + 147 × 2 (148 + 149 × 2)	147 × 3 (149 × 3)		147 × 3 (149 × 3)					
Sound level		dB(A)	55	Į.	56		57 58					
Operation range	(Inlet water temp.)	°C		10 to 45			10 to 45					
Capacity control		%	21-100	20-100	19-100		19-100					
Defrieswent	Туре		R-410A				R-410A					
Refrigerant	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					

. 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
- 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

Water Cooled System Suitable for Residential Houses INI WS SERIES New **RWXYQ-A Heat Pump** 3 class - 6 class (8 kW) (16 kW)

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.

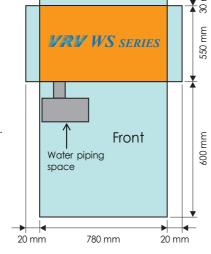
- * The unit is designed for indoor installation only.
- Small footprint & lightweight
- Minimal service & installation space required
- Stackable flat top design



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.



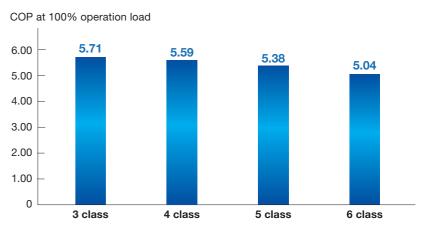
Single phase electric power supply

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

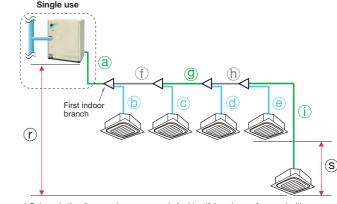
*Cooling: Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m. Level difference: 0 m.

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	_
Max. allowable level difference	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.



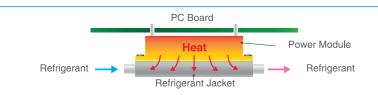
Tube in tube structure for simple installation and maintenance



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.



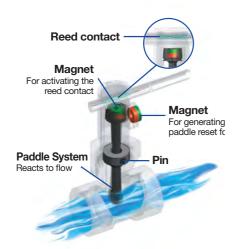
Easy maintenance

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

														1	New I	ineup
			20	25	32	40	50	63	71	80	100	125	140	145	160	180
Туре	Model Name	Capacity Range(kW)		2.8			5.6				11.2			16.2		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								 				New capacity	 		
Ceiling Mounted Cassette (Round Flow)	FXFQ-PVE			•	•				 		•		! ! ! ! !	 		
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-A2VEB		•	•	•	•	•	 	 	 		1	1			
4-Way Flow Ceiling Suspended	FXUQ-AVEB			 		 	 	 		 	•	 	1			
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE		•	•	•	•	•	•	 			•	 	 		
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36			•	•				1 1 1 1 1 1 1	1 1 1 1 1 1 1		1	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		 	 	 		
Slim Ceiling Mounted Duct	FXDQ-PDVE	(700mm width type)	•	•	•		1	 	 	1		1	1			
(Ctandard Carica)	FXDQ-NDVE	(900 / 1,100mm width type)		1		•	•		 	1		1	1	1		
Ceiling Concealed Duct	FXDYQ-MAV1			! ! ! ! ! !		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		•	•	 	•		
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVE								 		•					
Ceiling Mounted	FXMQ-PAVE				•									 		
Duct	FXMQ-PV1A			1		1	1	 	 	 		1	 			
Ceiling Suspended	FXHQ-MAVE			! ! ! ! !	•	 	 		! ! ! ! !	 	•	! ! ! ! !	1	1		
Wall Mounted	FXAQ-PVE		•	•	•				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1				
Floor Standing	FXLQ-MAVE		•						! ! ! !		: : : : : :	: : : : : : :	1	 		
Concealed Floor Standing	FXNQ-MAVE			•	•	•	•	•	1 1 1 1 1 1	1		1				

Specifications

VRV WS SERIES

■ VRV WS Series Outside Units

RWXYQ-A

Heat Pump

			RWXYQ3AV1 RWXYQ4AV1 RWXYQ5AV1 RWXYQ6AV1									
MODEL			RWXYQ3AV1	RWXYQ6AV1								
Power supply			1-Phase, 220-240 V, 50 Hz									
Cooling capacity		Btu/h	27,300	38,200	47,800	54,600						
Cooling Capacity		kW	8.0	11.2	14.0	16.0						
Heating conseits		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	e (5Y7.5/1)							
Dimensions (HxW	/xD)	mm	1,000×780×550									
Compressor	Туре		Hermetically sealed swing type									
Compressor	Motor output	kW	1.92									
Refrigerant piping	Liquid	mm		<i>ϕ</i> 9.5	(Flare)							
connections	Suction gas			φ15.9	(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	rnal 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									
Defilement	Туре		R-410A									
Refrigerant	Charge	kg	2.2	2.	2.7							
Rated water flow	(Range of water flow)	L/min	30 (15 to 45)	45) 40 (20 to 60) 50 (25 to 75) 57 (28.5 to								

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 connectable	e indoor units ⁻¹	
Model name	kW	class	Capacity index		Combination (%) ⁻¹		Maximum number of connectable indoor units
				50%*1	100%³	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

^{*1.} Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outside unit.

Indoor Unit Lineup

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

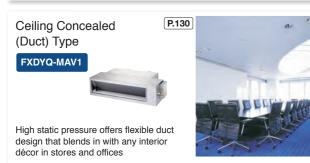




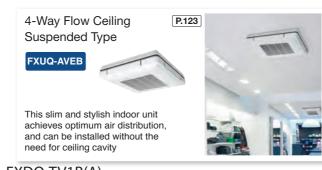




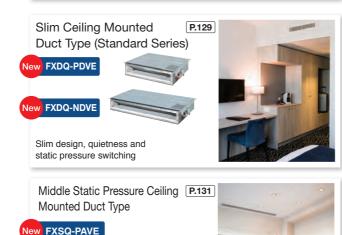






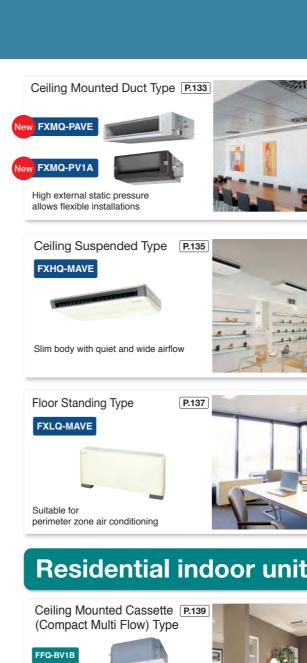


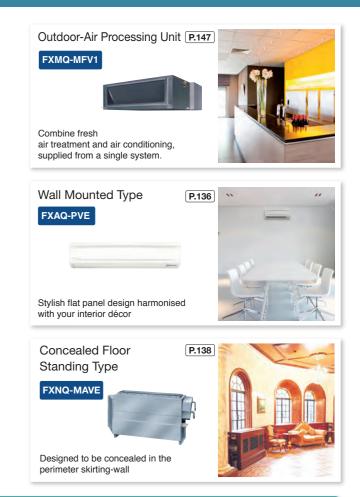




Middle external static pressure

and slim design allow flexible installations







Slim Ceiling

Mounted Duct Type













New FXFSQ-A

Ceiling Mounted Cassette (Round Flow with Sensing) Type

Round flow with sensing



New Panel variations (Option)

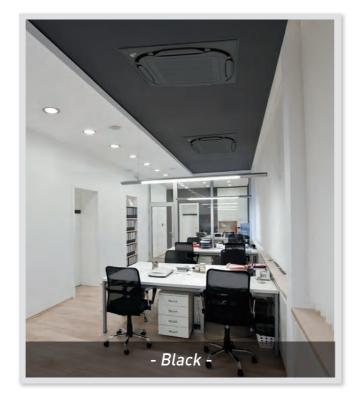


Standard panel with sensing BYCQ125EEF (Fresh White)



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				1-phase, 220-240 V/220-230 V, 50/60 Hz										
Btu/h		9,600 12,300		15,400	19,100	24,200	30,700	38,200	47,800	54,600				
Cooling capa	icity		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0		
Heating cons	ait.		Btu/h	10,900	10,900 13,600		21,500	27,300	34,100	42,700	54,	600		
Heating capa	спу		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16	6.0		
Cooling		Cooling	134/	0.0	128	0.035	0.056	0.061	0.092	0.164	0.170	0.194		
Power consur	mption	Heating	kW	0.0	126	0.034	0.056	0.060	0.092	0.144	0.159	0.183		
Casing					Galvanised steel plate									
			l/s	217/208/192/183/167		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	/ML/L)	m³/min	13/12.5/11.5/11/10		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	I/ML/L)	dB(A)	30/29.5/28.5/28/27		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 (I	H×W×D)	mm			256×8	40×840				298×840×840			
Machine weig	ght		kg		19		24	2	2	2	5	26		
	Liquid (l	Flare)			φ 6	6.4		φ 9.5						
Piping connections	Gas (Fla	are)	mm		<i>φ</i> 1:	2.7		φ15.9						
	Drain	<u> </u>					VP25 (Exte	rnal Dia, 32/Inter	nal 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.

Decoration Panel (Option)

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

Function List

Remote controller	Wired	BRC1E63	_
Remote controller	Wireless	_	BRC7M634F(K)
Dual sensors		0	
Direct airflow		0	
Sensing sensor low mo	de	0	
Sensing sensor stop m	ode	0	
Circulation airflow		0	
Individual airflow direct	ion control	0	
Switchable 5 step fan s	speed	0	0
Auto airflow rate		0	0
Auto swing		0	0
Swing pattern selection	1	0	0
High ceiling application	1	0	

New FXFSQ-A

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

■ Draft prevention function (default: OFF) Heating

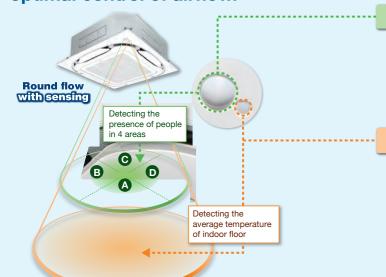
Ceiling Mounted Cassette (Round Flow with Sensing) Type

Daikin Advanced Sensing Functions¹

Dual sensors*1

*1. Applicable when wired remote controller BRC1E63 is used

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

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

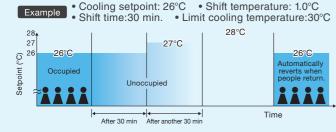
*3. The infrared floor sensor detects at the floor surface

Sensing sensor functions*4*5

Sensing sensor low mode (default: OFF)

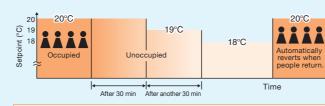
When there are no people in a room, the set temperature is shifted automatically.

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.



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

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



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

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

Sensing sensor stop mode (default: OFF)

When there are no people in a room, the system stops automatically. 6-7

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 controller
- *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.

When human presence 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.

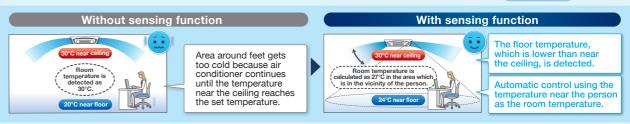
Comfort and energy saving preventing over cooling/heating*9

Auto airflow function*8

Direct Airflow Cooling

*9.Airflow direction and airflow rate should be set to "Auto".

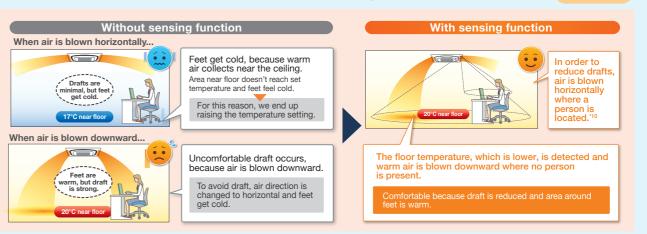
Floor temperature is detected and over cooling prevented. Cooling



Energy savings

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

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



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

To increase comfort, Auto airflow rate mode controls the airflow in accordance with the difference between floor and ceiling temperatures. When there is a large difference between the ceiling and floor temperatures, the airflow rate is automatically increased. When the difference becomes small, the airflow rate is automatically reduced.

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

New FXFSQ-A

Ceiling Mounted Cassette (Round Flow with Sensing) Type

™ Circulation Airflow*1.2

*1. Applicable when wired remote controller BBC1E63 is used. *2. Not applicable when using individual airflow direction control.

Cooling

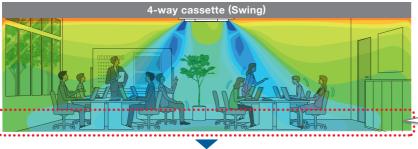


Heating



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

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.



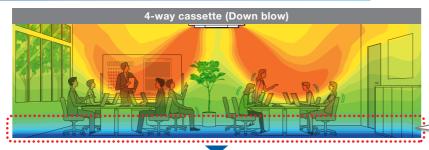
Approx. 5% energy savings by reducing uneven temperatures

*3.Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor

> 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:5°C Airflow rate and air direction high / Down blow

Areas around walls and feet are cold.



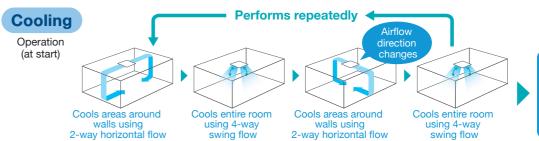
Approx. 15% energy savings by reducing uneven temperatures

*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.

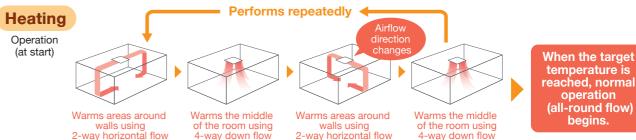
Configurations of Circulation Airflow

Note: Results may vary depending on equipment conditions.



temperature is reached, normal operation (all-round flow)

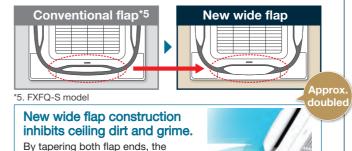
When the target



Three Technologies That Achieved Circulation Airflow



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



Conventional flap*5 *5. FXFQ-S model 30° air direction When set to 20° the

Optimizing airflow angle (Horizontally)

The airflow angle was made more horizontal.



A more horizontal 20° flow is realized.

Cannot blow more than

3 Increased velocity in

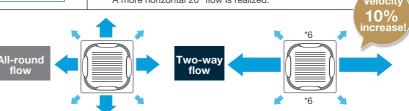
airflow that causes dirty ceilings is

2-way flow (Strongly)

directed downward.

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.

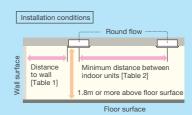


[Table 1]

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	wali trom indoo	r unit	
Indoor unit capacity	FXFSQ 25-50	FXFSQ 63/80	FXFSQ 100-140
Maximum distance	1.5m-4m	1.5m-5m	1.5m-7m
[Table 2] Minimum dis	stance between	indoor units	
Indoor unit capacity	FXFSQ 25-50	FXFSQ 63/80	FXFSQ 100-140

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

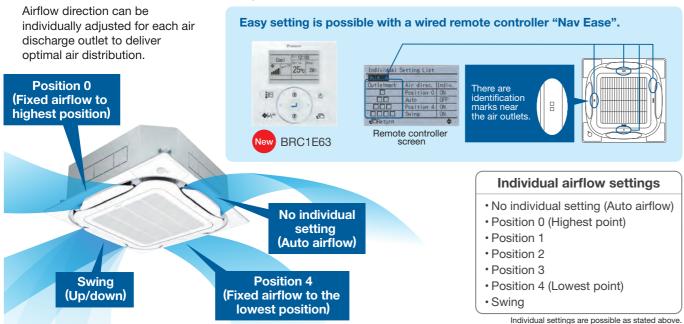
airflow route gets

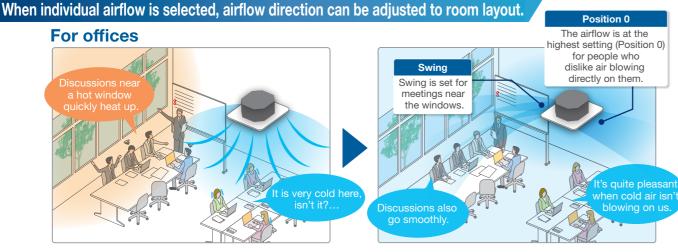
Ceiling Mounted Cassette (Round Flow with Sensing) Type

Individual Airflow Direction Control*

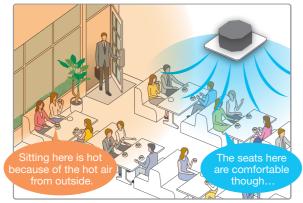
*1. Applicable when wired remote controller BBC1F63 is used.

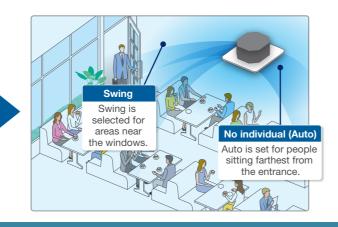
Comfortable air conditioning for all room layouts and conditions





For shops and restaurant



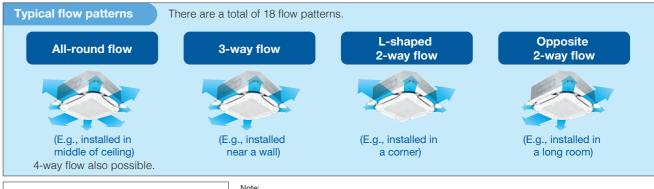


Other Functions

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



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.
- 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	

Note:

¹Air direction is set to the standard position when the unit is shipped from the factory. The position can be changed from the remote controller.

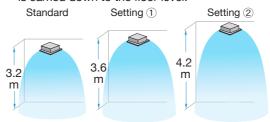
²Closing of the corner discharge outlets is recommended.

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				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		
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		
ht High celling (1)					3.6 m	3.9 m	4.0 m	4.2 m		
High ceiling 2	3.5 m	4.0 m	3.5 m		4.2 m	4.5 m	4.2 m	_		
	High ceiling 1	All round flow Standard 2.7 m High ceiling 1 3.0 m		FXFSQ25-80A	Standard 2.7 m 3.1 m 3.0 m 3.5 m High ceiling 1 3.0 m 3.4 m 3.8 m	FXFSQ25-80A F) All round 4-way 3-way 2-way flow f	FXFSQ15-80A	FXFSQ25-80A FXFSQ100-140		

No

- ·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.

Ceiling Mounted Cassette (Round Flow with Sensing) Type

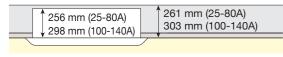
New FXFSQ-A

Quick and Easy Installation

Lightweight

All models can be installed without using a lifter.

Installable in tight ceiling spaces



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.

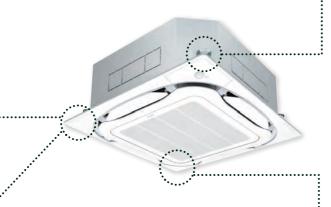
If the wireless remote controller is installed. a signal receiver unit is housed in one of the adjuster pockets



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.



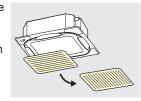
Temporary placement of control box lid

Because the control box lid can be temporarily hung on the unit, there is no need to climb down the



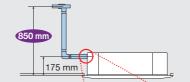
Installed in any direction

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.



Drain pump

Equipped as standard accessory with 850 mm lift.

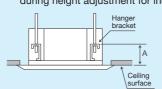


Transparent drain socket



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				
Standard panel	125-130mm				
Chamber option*+ standard panel	175-180mm				
*High-efficiency filter, ultra long fresh air intake	g-life filter, and				

Easy Maintenance

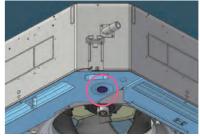
Drain pan and drain water check

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)

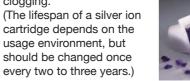
See page 182

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.



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

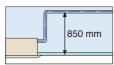
360° airflow improves temperature distribution and offers a comfortable living environment.

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





- * As of April 2004,
- 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.



ROUND FLOW

- 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.



Specifications

	MODEL			FXFQ25PVE	FXFQ32PVE	FXFQ40PVE	FXFQ50PVE	FXFQ63PVE	FXFQ80PVE	FXFQ100PVE	FXFQ125PVE
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling capac	sits		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800
Cooling capac	Cooling capacity		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
Heating capac	Lleating conscitu		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600
rieating capac	Jity		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Power consun	antion	Cooling	kW	0.0	33	0.047	0.052	0.066	0.093	0.187	0.209
rower consum	Ιριιοι	Heating	kW	0.0)27	0.034	0.038	0.053	0.075	0.174	0.200
Casing							Galvanised	steel plate			
Airflow rate (H	ILI/LI/I\		l/s	216/191/166		250/216/183	266/225/183	316/275/225	350/300/250	533/433/333	550/466/375
Allilow rate (I	II I/I I/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						340×840	
Machine weig	ht		kg		19).5			22	:	25
D''.	Liquid	l (Flare)			∮ 6	.4			ϕ 9).5	
Piping connections	Gas (Flare)	mm		<i>φ</i> 12	2.7			<i>φ</i> 1	5.9	
00111100110110	Drain					VP2	5 (External Dia,	32/Internal Dia	, 25)		
	Model Panel Colour						BYCP1	25K-W1			
Panel							Fresh	white			
(Option)	Dimensio	ons(HxWxD)	mm		-		50X95	0X950			
	Weigh	nt	kg				5	.5			

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

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

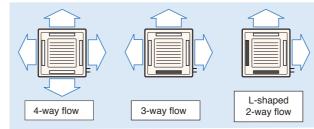
Quiet, compact, and designed for user comfort



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

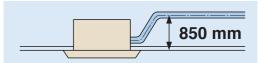


•2-, 3-, and 4-way airflow patterns are available, enabling installation in the corner of a room



*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	L		FXZQ20A2VEB	FXZQ25A2VEB	FXZQ32A2VEB	FXZQ40A2VEB	FXZQ50A2VEB			
Power supply				1-phase, 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 capacity -		Btu/h	8,500	10,900	13,600	17,100	21,500				
rieating capat	oity		kW	2.5	3.2	4.0	5.0	6.3			
Power consun	antion	Cooling	kW	0.0)43	0.045	0.059	0.092			
rower consum	F	Heating	kW	0.0	036	0.038	0.053	0.086			
Casing						Galvanised steel plate					
Airflow rate (H	1/N/1/1		ℓ/s	145/125/108	150/133/108	167/142/117	192/158/133	242/208/167			
All llow rate (I	I/ IVI/ 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	i.5	16	6.5	18.5			
D'	Liquid ((Flare)				<i>ϕ</i> 6.4					
Piping connections	Gas (F	lare)	mm			<i>ϕ</i> 12.7					
	Drain				VP20	External Dia, 26/Internal I	Dia, 20)				
	Model			·		BYFQ60C2W1W	·				
Panel	Colour	Colour				White (N9.5)					
(Option)	Dimensions	s(HxWxD)	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

Indoor Unit Lineup

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
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198 mm for all models that gives the unified impression even when models with different capacities are installed in the same area.
- With adoption of the individual flap control, airflow direction adjustment can be individually set for each air outlet. 5 directions of airflow and auto-swing can be selected with wired remote controller BRC1E62, which realises the optimum air distribution.



• Control of the airflow rate has been improved from 2-step to 3-step control. Auto airflow rate control can be selected with wired remote controller BRC1E62.



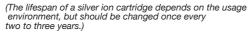
 Built-in electronic expansion valve eliminates the need for a BEV unit, which improves flexibility of installation



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



 An antibacterial treatment that uses silver ions has been applied to the drain pan, preventing the growth of slime, mould and bacteria that cause blockages and odours.





Specifications

	MODEL		FXUQ71AVEB	FXUQ100AVEB	
Power supply	ower supply		1-phase, 220-240 V/220-230 V, 50/60 Hz		
Cooling capac	si+s,	Btu/h	27,300	38,200	
Cooling capac	ліу	kW	8.0	11.2	
Heating capac	si+v.	Btu/h	30,700	42,700	
neating capac	ліц	kW	9.0	12.5	
Power consun	Cooling	kW	0.090	0.200	
rower consum	Heating	kW	0.073	0.179	
Casing			Fresh v	vhite	
Airflow rate (H	/N / / I \	ℓ/s	375/325/267	517/433/350	
Alfilow rate (F	/ IVI/ L)	m³/min	22.5/19.5/16	31/26/21	
Sound level (H	I/M/L)	dB(A)	40/38/36	47/44/40	
Sound power	(H/M/L)	dB(A)	58/56/54	65/62/58	
Dimensions (H	l×W×D)	mm	198×950	0×950	
Machine weig	ht	kg	26	27	
D: :	Liquid (Flare)		ϕ 9.5	5	
Piping connections	Gas (Flare)	mm	φ15.	9	
COMMODITION	Drain		VP20 (External Dia, 2	26/Internal Dia. 20)	

Note: Specifications are based on the following conditions:

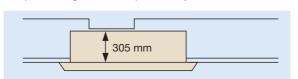
- •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m
 •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- •Capacity of indoor unit is only for reference. Actual capacity 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

Ceiling Mounted Cassette (Double Flow) Type **FXCQ-M**

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



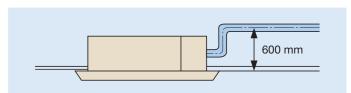
•The thin unit (only 305 mm high) can be installed in a ceiling space as narrow as 350 mm. All models feature a compact design with a depth of only 600 mm.



(When a high-efficiency filter is attached, the unit's height is

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

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



- •Two types of optional high-efficiency filter are available (65% and 95%, colourimetric method).
- •A long-life filter (maintenance free up to one year*) is equipped as standard accessory.
- * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³
- Major maintenance work can be performed by removing the panel. A flat-type suction grille and a detachable blade make cleaning easy.

Specifications

	MODE	EL		FXCQ20MVE	FXCQ25MVE	FXCQ32MVE	FXCQ40MVE	FXCQ50MVE	FXCQ63MVE	FXCQ80MVE	FXCQ125MVE		
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	30,700	47,800				
· · ·		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0			
Heating capacity Bi		Btu/h	8,500	10,900	3,600	17,100	21,500	27,300	34,100	54,600			
rieating capac	ily		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0		
Power consumption Cooling		kW	0.077	0.0	92	0.1	30	0.106	0.209	0.256			
rower consum	iption	Heating	kW	0.044	0.0	159	0.0	97	0.126	0.176	0.223		
Casing			Galvanised steel plate										
Airflow rate (H	/1.)		ℓ/s	116/83	150/108		200/150		275/216	433/350	550/416		
Allilow rate (i i	/ L)		m³/min	7/5	9/6	6.5	12	2/9	16.5/13	26/21	33/25		
Sound level (H	I/L)	240 V	dB(A)	34/29	36/30		37/	/32	39/34	41/36	46/40		
Dimensions (H	l×W×D)	mm	305×775×600			305×9	990×600	305×1,175×600	305×1,6	65×600		
Machine weigh	nt		kg		26.0		31.0	32.0	35.0 47.0 48.0				
D	Liquid	d (Flare)				∮ 6.4				<i>ф</i> 9.5			
Piping connections	Gas (F	Flare)	mm			<i>ϕ</i> 12.7				<i>ф</i> 15.9			
30111100110110	Drain					VP2	5 (External Dia,	32/Internal Dia	, 25)				
Model				BYBC32G-W1		BYBC	50G-W1	BYBC63G-W1	BYBC1	25G-W1			
Panel Colour						White (1	0Y9/0.5)						
(Option)	Dimensio	ons(H×W×D)	mm		53×1,030×680)	53×1,2	245×680	53×1,430×680 53×1,920		20×680		
	Weigh	nt	kg		8.0		8	3.5	9.5	12	.0		

- Note: Specifications are based on the following conditions;

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

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

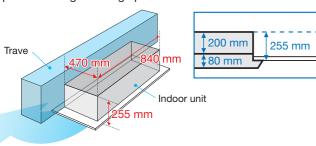
 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 - Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

Ceiling Mounted Cassette (Single Flow) Type

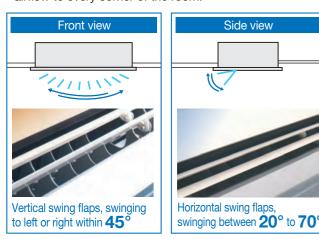
New FXEQ-A

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.



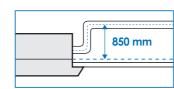
- ●Control of airflow rate can be selected from 5-step control and quiet operation mode, which provides comfortable airflow.
- •DC motor is adopted both in the fan and drain pump of the indoor unit, not only enhancing the energy saving performance, but also reducing the operating sound and the vibration 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.



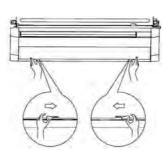
•The novel smooth panel design makes dust difficult to accumulate, thus causing the cleaning more conveniently.



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

I	IODEL		FXEQ20AV36	FXEQ25AV36	FXEQ32AV36	FXEQ40AV36	FXEQ50AV36	FXEQ63AV36			
Power supply	/		1-phase, 220-240 V, 50 Hz								
0 "	Cooling capacity		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			
	-14.	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300			
Heating capa	CITY	kW	2.5	3.2	4.0	5.0	6.3	8.0			
Power	Coolin	g kW	0.026	0.027	0.034	0.046	0.048	0.067			
consumption	Heatin	g KVV	0.022	0.023	0.030	0.042	0.044	0.063			
Casing					Galvanised	steel plate					
	Coolin	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	Coolii	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/ML	/L) Heatin	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			
	Пеаш	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	Coolin	g dD(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/ML	/L) Heatin	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 (I	H×W×D)	mm		200×8	10×470		200×1,240×470				
Machine weig	ght	kg		17		18	2	3			
	Liquid (Flare)			<i>ϕ</i> 6.4			∮ 9.5			
Piping connections	Gas (Flare)	mm			<i>∲</i> 12.7			≠ 15.9			
Drain					PVC26 (External Dia	, 26/Internal Dia, 20)					
Model				BYEP	40AW1		BYEP	63AW1			
Panel Colour					Fresh	white					
(Option)	Dimensions(H×W	D) mm		80×95	0×550		80×1,350×550				
1	Weight	kg		8	.0		10	0.0			

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.

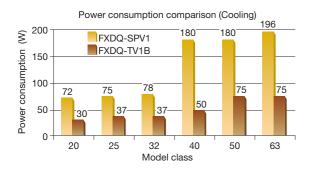
180x1,122x70

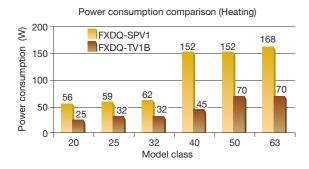
New FXDQ-T

Slim and compact design for easy and flexible installation

New 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.



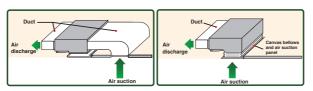




 Slim and compact design with a height of only 200 mm allows for installation in drop ceilings with ceiling voids of as little as 240 mm in height. The depth is also only 450 mm making it suitable for installation in limited spaces such as wardrobes.



• Features rear or bottom return to suite site constraints.

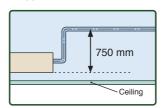




Air filter included

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.





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

lew 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.



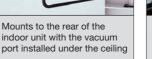
Model	Compatibility	HxWxD (mm)
BDG20A09	20-32 Class	180x722x70
BDG20A15	40-50 Class	180x922x70

BDG20A20 63 Class

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.







the filter removing dust which is collected in the dust box



the dust via the vacuum port

BAF20A62 20-32 Class 210x840x188 BAE20A82 40-50 Class 210x1,040x188 BAE20A102 63 Class 210x1,240x188

New 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	Cooling capacity		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	Power Cooling		0.030	0.0	37	0.050	0.0	75		
consumption	Heating	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	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	l x W x D)	mm		200×700×450		200×90	00×450	200×1,100×450		
Machine weig	ht	kg		18		2	1	24		
	Liquid (Flare)				<i>ϕ</i> 6.4			≠ 9.5		
Piping	Gas (Flare)	mm			<i>ϕ</i> 12.7			<i>ϕ</i> 15.9		
connections	Drain				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 based on the total capacity index. (See Engineering Data Book for details.)

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

 - * 1 : Values are based on external static pressure of 10 Pa. For FXIQ=TV1BA models, +0.005kW 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).

FXDYQ-MA

Indoor Unit Lineup

Slim Ceiling Mounted Duct Type (Standard Series) FXDQ-PD/ND

Slim design, quietness and static pressure switching

Suitable to use in drop-ceilings! • Only 700 mm in width



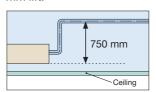
- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller BRC1E63.
- Low operation sound level.
- External static pressure selectable by remote controller switching make this indoor unit a very comfortable and flexible model
- 10 Pa-30 Pa/factory set: 10 Pa for FXDQ-PD models.
- 15 Pa-44 Pa/factory set: 15 Pa for FXDQ-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	FXDQ63NDVE		
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling consoit	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 capaci	h.,		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300		
пеанну сарасн	Ly		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	iption	Heating	kW	0.0	067	0.070	0.147	0.152	0.168		
Casing				Galvanised steel plate							
Airflancements (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		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		
00111100110113	Drain					VP20 (External Dia,	26/Internal Dia, 20)				

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- 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 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

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

N	ODEL		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 capacity	Dooling capacity		8.8	11.2	13.9	16.0			
Hooting consoits	eating capacity		33,800	42,700 54,600		62,800			
neating capacity		kW	9.9	12.5	16.0	18.4			
Power consump	Cooling		0.415	0.700	0.780	0.880			
rower consump	Heating	kW	0.415	0.700 0.780		0.880			
Casing				Galvanised	d steel plate				
Airflow rate (H)		ℓ/s	510	778	852	957			
Alfilow rate (n)		m³/min	30.6	46.7	51.1	57.4			
External static p	essure	Pa		1:	20 *1				
Sound level (H/L) 240 V	dB(A)	45	46	48	51			
Dimensions (Hx	V×D)	mm	360×1168×869		360×1478×899				
Machine weight		kg	50	60	65	66			
l	Liquid (Flare)			ϕ	9.5				
Piping connections	as (Flare)	mm		<i>φ</i> 1	15.9				
	rain			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

New FXSQ-PA

Middle external static pressure and slim design allow flexible installations

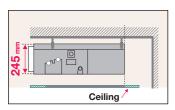


Installation flexibility

Slim design

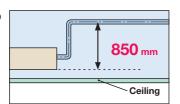
•With a height of only 245 mm, installation is possible even in buildings with narrow ceiling spaces.





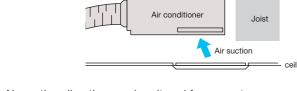
Standard DC drain pump

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

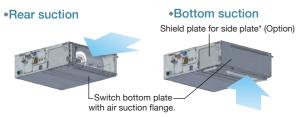


Bottom suction possible

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



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



*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

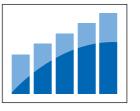
Switchable airflow rate

 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	4/32/30	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	88.5/35	4	43/40/36



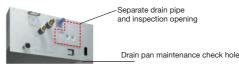
Easy installation

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

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

cause blockages and odours.



 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					
Cooling on	nacity	,	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 ca	naoita	,	Btu/h	8,500	10,900	13,600	17,100	21,500	
nealing ca	распу		kW	2.5	3.2	4.0	5.0	6.3	
Power consu	mntion	Cooling	kW	0.05	8 *1	0.066 * 1	0.101 *1	0.075 * 1	
rower consu	приоп	Heating	kW	0.05	3 *1	0.061 *1	0.096*1	0.070 *1	
Casing				Galvanised steel plate					
Airflow rat	~ (LI/N	4/1.)	ℓ/s	150/12	25/108	158/133/116	250/208/175	283/242/192	
Alfilow fat	e (n/iv	/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 st	atic pr	essure	Pa	30-150 (50) *2				50-150 (50) *2	
Sound leve	I (H/M/	/L)	dB(A)	33/3	0/28	34/32/30	36/33/30	34/32/29	
Sound pow	/er (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 (Ext	ernal Dia, 32/Intern	al Dia, 25)		

	MODEL		FXSQ63PAVE	FXSQ80PAVE	FXSQ100PAVE	FXSQ125PAVE	FXSQ140PAVE		
Power sup	ply		1-phase, 220-240 V/220 V, 50/60 Hz						
Cooling capacity		Btu/h	24,200	30,700	38,200	47,800	54,600		
Cooling Ca	Cooling capacity		7.1	9.0	11.2	14.0	16.0		
Heating of	nooity	Btu/h	27,300	34,100	42,700	54,600	61,400		
Heating ca	распу	kW	8.0	10.0	12.5	16.0	18.0		
Power consu	Cooling	kW	0.106 *1	0.126 *1	0.151*1	0.206 *1	0.222 *1		
I OWEI COIISC	Heating	kW	0.101 *1	0.121 *1	0.146*1	0.201 *1	0.217 *1		
Casing			Galvanised steel plate						
Airflow rat	+o (∐/M/L)	ℓ/s	350/292/242	383/325/267	533/450/375	617/525/433	650/558/467		
All llow la	le (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 (50)* ²						
Sound leve	l (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	is (H×W×D)	mm	245×1,0	000×800	245×1,4	400×800	245×1,550×800		
Machine v	/eight	kg	35	37	46	47	52		
	Liquid (Flare)				<i>φ</i> 9.5				
Piping connections Gas (Flare)		mm			<i>∮</i> 15.9				
	Drain			VP25 (Exte	ernal Dia, 32/Intern	al Dia, 25)			

•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

nditions.

- ★1: Power consumption values are based on conditions of rated external static pressure
- *2: External static pressure can be modified using a remote controller that offers thirteen (FXSQ20-40PA), 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

New 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 FXMQ20-32PA 30 Pa - 160 Pa for FXMQ40PA 50 Pa - 200 Pa for FXMQ50-125PA

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

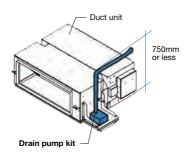
50 Pa - 210 Pa for FXMQ180P

50 Pa - 250 Pa for FXMQ200-250P

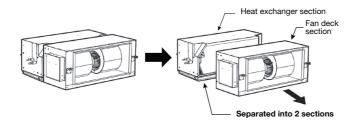
- •The adopted DC fan motor is much more energy efficient than a conventional AC motor, yielding an approximate 20% decreased in energy consumption (FXMQ125PA).
- ●FXMQ20-140PA models are only 300mm in height making it ideal for use in modern commercial and medium density apartment development where 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 FXMQ20-140PA models.



•A built-in drain pump with 700mm lift is equipped as a standard accessory for FXMQ20-140PA models. For FXMQ160-250P 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 FXMQ160-250P models can be separated into 2 sections for convenient handling and easier installation through openings in the



Specifications

M	ODEL		FXMQ20PAVE	FXMQ25PAVE	FXMQ32PAVE	FXMQ40PAVE	FXMQ50PAVE			
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz							
,		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 capacity		Btu/h	8,500	10,900	13,600	17,100	21,500			
rieating capacity		kW	2.5	3.2	4.0	5.0	6.3			
Power consumpt	on Cooling	kW	0.0)56	0.060	0.151	0.128			
	*1 Heating	kW	0.0)44	0.048	0.139	0.116			
Casing					Galvanised steel plate					
Airflow rate (HH/	1/I)	ℓ/s	150/12	25/108	158/133/116	267/216/183	300/275/250			
Allilow rate (Fill I/	1/ _)	m³/min	9/7.5/6.5		9.5/8/7	16/13/11	18/16.5/15			
External static pr	essure*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\	V×D)	mm		300x550x700		300x700x700	300x1,000x700			
Machine weight		kg		25		27	35			
Dining	quid (Flare)				∮ 6.4					
Piping Gas	as (Flare)	mm			<i>ϕ</i> 12.7					
	rain			VP25 (External Dia, 32/Internal	Dia, 25)				

MOI	DEL		FXMQ63PAVE	FXMQ80PAVE	FXMQ100PAVE	FXMQ125PAVE	FXMQ140PAVE			
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling capacity —		Btu/h	24,200	30,700	38,200	47,800	54,600			
		kW	7.1	9.0	11.2	14.0	16.0			
Heating capacity		Btu/h	27,300	34,100	42,700	54,600	61,400			
		kW	8.0	10.0	12.5	16.0	18.0			
Power consumption	Cooling	kW	0.138	0.185	0.215	0.284	0.405			
*1	Heating	kW	0.127	0.173	0.203	0.272	0.380			
Casing				Galvanised steel plate						
Airflow rate (HH/H/L	\	l/s	325/292/267	417/375/333	533/450/383	650/550/466	766/649/533			
All llow rate (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 press	sure*2	Pa	50-200 (100)				50-140 (100)			
Sound level (HH/H/	L)	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	Machine weight		3	35	4	46				
Liqu	id (Flare)				φ9.5					
Piping Gas (F	(Flare)	mm			<i>ϕ</i> 15.9					
connections	n			VP25 (External Dia. 32/Internal	Dia. 25)				

MODEL			FXMQ160PV1A	FXMQ180PV1A	FXMQ200PV1A	FXMQ250PV1A			
Power supply				1-phase, 220)-240 V, 50 Hz	95,500 28.0 107,500 31.5 0.810 0.810			
Cooling conscity Btu/h		Btu/h	61,400 68,200		76,400	95,500			
Cooling capacity		kW	18.0	20.0	22.4	95,500 28.0 107,500 31.5 0.810 0.810 1,400/1,200/1,000 84.0/72.0/60.0 0 (150) 46/42.5/39 74			
Heating capacity		Btu/h	68,200	76,400	85,300	107,500			
nealing capacity		kW	20.0	22.4 25.0		31.5			
Power consumpt	ion Cooling	kW	0.6	50	0.640	0.810			
	*1 Heating	kW	0.6	50	0.640	0.810			
Casing			Galvanized steel plate						
Airflow roto (UU/	J/I \	l/s	1,120/955/790	1,160/995/820	1,200/1,025/850	1,400/1,200/1,000			
All llow rate (nn/	1/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 pr	essure*2	Pa	60-217 (138)	60-217 (138) 50-210 (130)		50-250 (150)			
Sound level (HH	H/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 (Hx\	V×D)	mm	470x1,1	33x919	470x1,333x919				
Machine weight		kg	7(0	79	85			
D L	iquid		φ9.5 (Flare)		φ 9.5 (Brazing)				
	as	mm	∮15.9 (Flare)	φ 19.1 ((Brazing)	φ 22.2 (Brazing)			
Airflow rate (HH/H/L External static press Sound level (HH/H/I Sound power (H) Dimensions (HxWx Machine weight	rain			BSP 3/4 internal	thread (OD <i>\$\phi\$</i> 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 obseed on the total capacity of indoor unit is only for reference. Actual capacity of indoor unit is obseed on the total capacity of indoor unit is only for reference. Actual capacity of indoor unit is obseed on the total capacity of indoor unit is only for reference. Actual capacity of indoor unit is obseed on the total capacity of indoor unit is only indoor unit is only indoor unit is only for reference. Actual capacity of indoor unit is obseed on the total capacity of indoor unit is only indoor unit indoor unit is only for example of 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 fifthteen (FXMQ160-250P) levels of control.

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

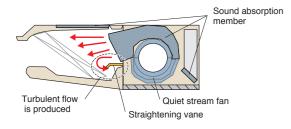
Ceiling Suspended Type

FXHQ-MA

Slim body with quiet and wide airflow

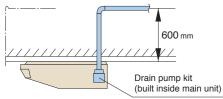
Adoption of QUIET STREAM FAN

Uses the quiet stream fan and many more advanced technologies

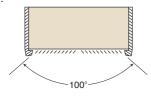


Installation is easy

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



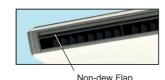
Wide air discharge openings produce a spreading 100°



Maintenance is easy

Non-dew Flap with no implanted bristles

Bristle-free Flap minimises contamination and makes cleaning simpler.



· Easy-to-clean flat design

- •Maintenance is easier because everything can be performed from below the unit.
- •A long-life filter (maintenance free up to one year*) is equipped as standard accessory.
- * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³

Wall Mounted Type

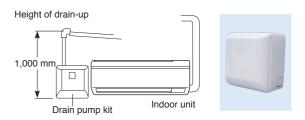
FXAQ-P

Stylish flat panel design harmonised with your interior décor



- •Stylish flat panel design creates a graceful harmony that enhances any interior space.
- •Flat panel can be cleaned with only the single pass of a cloth across their smooth surface. Flat panel can also be easily removed and washed for more thorough cleaning.
- •Drain pan and air filter can be kept clean by mould-proof
- Vertical auto-swing realises efficiency of air distribution. The louvre closes automatically when the unit stops.
- •5 steps of discharge angle can be set by remote controller.

- •Discharge angle is automatically set at the same angle as the previous operation when restarting. (Initial setting: 10° for cooling and 70° for heating)
- Flexible installation
- Drain pipe can be fitted to from either left or right sides.
- Drain pump kit is available as optional accessory, which lifts the drain 1,000 mm from the bottom of the unit.



Specifications

MODEL			FXHQ32MAVE	FXHQ32MAVE FXHQ63MAVE FXHQ100M			
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity	Cooling consoits		12,300	24,200	38,200		
Cooling Capacity		kW	3.6	7.1	11.2		
Heating capacity		Btu/h	13,600	27,300	42,700		
rieating capacity	kW		4.0	8.0	12.5		
Power consumption	Cooli	ng kW	0.111	0.115	0.135		
rower consumption	Heati	ng kW	0.111	0.115	0.135		
Casing			White (10Y9/0.5)				
Airflow rate (H/L)		ℓ/s	200/166	200/166 291/233 4			
All llow rate (11/L)		m³/min	12/10	17.5/14	25/19.5		
Sound level (H/L)		dB(A)	36/31	39/34	45/37		
Dimensions (H×W	/×D)	mm	195×960×680	195×1,160×680	195×1,400×680		
Machine weight		kg	24.0	28.0	33.0		
D'	Liquid (Flar	9)	∮ 6.4	φ9.5			
Piping connections	Gas (Flare)	mm	<i>ϕ</i> 12.7	φ15	5.9		
0011100110113	Drain			VP20 (External Dia, 26/Internal Dia, 20)			

- Note: Specifications are based on the following conditions;

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

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

 -Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity of indoor. (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

Specifications

ı	MODEL		FXAQ20PVE	FXAQ25PVE	FXAQ32PVE	FXAQ40PVE	FXAQ50PVE	FXAQ63PVE		
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 capacit	,	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300		
nealing capacit	/	kW	2.5	3.2	4.0	5.0	6.3	8.0		
Power consump	Cooling	kW	0.019	0.028	0.030	0.020	0.033	0.050		
rower consump	Heating	kW	0.029	0.034	0.035	0.020	0.039	0.060		
Casing			White (3.0Y8.5/0.5)							
Airflow rate (LL/L)		l/s	125/75	133/83	142/91	200/150	250/200	316/233		
Airflow rate (H/L)		m³/min	7.5/4.5	8/5	8.5/5.5	12/9	15/12	19/14		
Sound level (H/I	_)	dB(A)	35/31	36/31	38/31	39/34	42/37	47/41		
Dimensions (Hx	W×D)	mm		290×795×238		290×1,050×238				
Machine weight		kg	11.0 14.0							
B	_iquid (Flare)		φ6.4					∮ 9.5		
COTTRECTIONS	Gas (Flare)	mm						φ15.9		
	Orain		VP13 (External Dia, 18/Internal Dia, 13)							

Note: Specifications are based on the following conditions:

- . Specifications are based on the following contailions,
 -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.

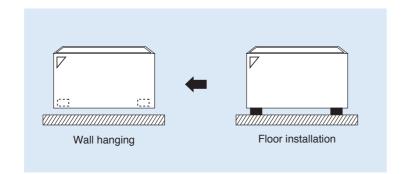
Floor Standing Type

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

MO	DEL		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		
lieating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0		
Power consumptio	Cooling	kW	0.0)49	0.090		0.110			
rower consumptio	Heating	kW	0.049		0.090		0.110			
Casing			FXLQ: Ivory white (5Y7.5/1)							
Airflow rate (H/L)		l/s	116/100		133/100	183/141	233/183	266/200		
Allilow rate (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 (H×W	<d)< td=""><td>mm</td><td>600×1,0</td><td>000×222</td><td colspan="2">600×1,140×222</td><td colspan="2">600×1,420×222</td></d)<>	mm	600×1,0	000×222	600×1,140×222		600×1,420×222			
Machine weight		kg	25	5.0	30.0		36	3.0		
Liq	uid (Flare)		φ6.4				φ9.5			
Piping Ga	s (Flare)	mm			<i>ϕ</i> 12.7			<i>ϕ</i> 15.9		
Dra	in				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 obased on the total capacity index. (See Engineering Data Book for details.)

-Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m.

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

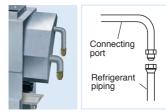
Concealed Floor Standing Type

FXNQ-MA

Designed to be concealed in the perimeter skirting-wall



- •The unit is concealed in skirting-wall of perimeter, that enables to create high class interior design.
- •The connecting port faces downward, greatly facilitating on-site piping work.



- A long-life filter (maintenance free up to one year*) is equipped as standard accessory.
- * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³

Specifications

MODEL			FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE			
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling capacity		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 consump	Cooling	kW	0.0	049	0.090		0.110				
rower consump	Heating	kW	0.049		0.090		0.110				
Casing			FXNQ: Galvanised steel plate								
Airflow rate (H/	`	ℓ/s	116/100		133/100	183/141	233/183	266/200			
Allilow rate (II/	-)	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	N×D)	mm	610×9	30×220	610×1,070×220		610×1,350×220				
Machine weight		kg	19.0		23.0		27	7.0			
District I	iquid (Flare)		φ6.4				<i>ϕ</i> 9.5				
connections	Gas (Flare)	mm	φ12.7			<i>ϕ</i> 15.9					
)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 based on the total capacity index. (See Engineering Data Book for details.)

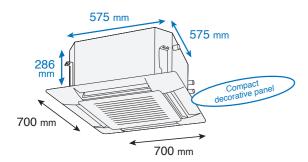
-Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m.

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

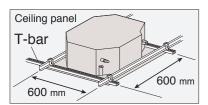
Ceiling Mounted Cassette (Compact Multi Flow) Type FFQ-B

Quiet, compact, and designed for user comfort

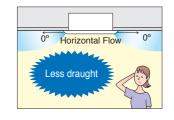
•Designed to fit 600 mm wide ceiling grids



•T-bar grid does not need to be cut.



•Low draft performance is designed for your comfort.



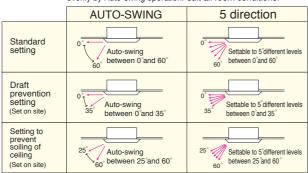


Cables should be

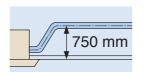
Note: Wireless remote controllers and signal

Comfortable across all areas

Conditioned air is distributed Adjustable airflow angle to evenly by Auto-swing operation. suit all room conditions.



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



Specifications

MODEL			FFQ25BV1B	FFQ35BV1B	FFQ50BV1B	FFQ60BV1B			
Power supply			1-phase, 220-240 V, 50 Hz						
Airflow rate (H)	m³/min(ℓ/s)	9.0 (150)	9.0 (150) 10.0 (167)		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 :	steps				
Temperature of	control			Microcom	puter control				
Dimensions (F	Dimensions (H×W×D) mm		286x575x575						
Machine weig	ht	kg	17.5						
District.	Liquid (Flare)			¢	66.4				
Piping connections	Gas (Flare)	mm	ϕ 9	<i>φ</i> 1	φ12.7				
COMMODIONO	Drain		VP20 (External Dia. 26/Internal Dia. 20)						
Heat insulation	n		Both liquid and gas pipes						
	Model		BYFQ60B3W1						
Panel	Colour		White						
(Option)	Dimensions(HxWxD)	mm		55x7	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

Slim Ceiling Mounted Duct Type

FDXS-C

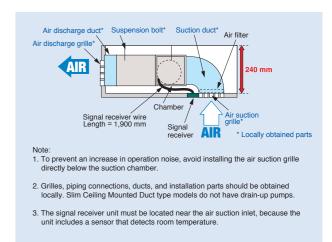
Slim and smooth design suits your shallow ceiling



•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	er 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 (H	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	Fan speed 5 steps, quiet and automatic							
Temperature of	control		Microcomputer control					
Dimensions (H	H×W×D)	mm	200x900x620			200x1,100x620		
Machine weig	ht	kg	25 27		30			
D''	Liquid (Flare)			φ	6.4			
Piping connections	Gas (Flare)	mm	φ 9	9.5	<i>ϕ</i> 12.7			
00111100110110	Drain		VP20 (External Dia. 26/Internal Dia. 20)					
Heat insulatio	n		Both liquid and gas pipes					
External station	pressure	Pa	40					

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).

Wall Mounted Type

CTXG-P

Elegant appearance with European style



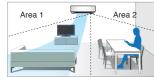
- Elegant Appearance with Curved Panel •The sleek design of the CTXG-P indoor unit features a uniquely European style. This elegant body
- houses state-of-the-art technology which delivers superior performance. The CTXG-P series

offers a versatile choice for home-owners. designers and architects alike.



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





If a person is detected in area 2, airflow

Comfort Airflow Mode

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

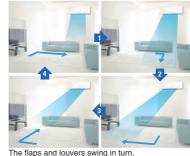
During heating operation, the flap turns vertically downwards to drive warm air to the floor.



•3D Airflow

•3D Airflow combines Vertical and Horizontal Auto-Swing to reduce indoor temperature fluctuation. This function circulates air to every part of a room for uniform cooling or

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



Specifications

	MODEL			CTXG25PVMAW	CTXG25PVMAW CTXG25PVMAS CTXG35PVMAW CTXG35PVMAS CTXG50PVMAW CTXG50PVM						
Power supply 1-phase, 220-240 V/220-230 V, 50/60 Hz											
Front panel co	Front panel colour			White	Silver	White	Silver	White	Silver		
Airflow roto /II	. (Cooling	m³/min(ℓ/s)	8.3 (138)	10.6	10.6 (177)		(180)		
Airflow rate (H	l)	Heating	1117111111 (2/5)	10.4	(173)	11.9	(198)	12.4	(207)		
Sound level (H/	/1 /01 \	Cooling	4D(A)	38/2	5/21	45/2	6/22	46/3	5/32		
Souria level (n/	/L/SL) [I	Heating	dB(A)	41/28/21		45/29/22		47/35/32			
Sound power ((H)	Cooling	JD(A)	54		61		62			
Souria power ((1 1)	Heating	dB(A)	57		61		63			
Fan speed				5 steps, quiet and automatic							
Temperature c	control			Microcomputer control							
Dimensions (H	H×W×D)		mm	303x998x212							
Machine weigh	ht		kg		12						
D'ata	Liquid	(Flare)		ϕ 6.4							
Piping connections	Gas (F	-lare)	mm	ϕ 9.5 ϕ 12.7					2.7		
	Drain			φ18.0							
Heat insulation	n					Both liquid a	nd gas pipes				

Residential Indoor Units with connection to BP units

Wall Mounted Type

FTXS-K(A)

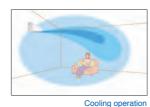
Stylish flat panel harmonises with your interior décor

 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.



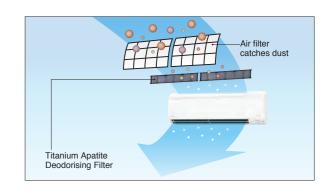


Heating operation

Standard Option

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.

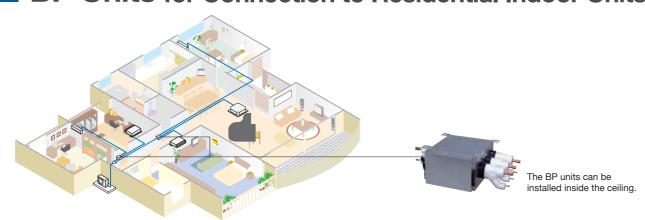


This filter is not a medical device. Benefits such as the adsorption of odours and allergens and deodorisation of odours are only effective for substances which are directly attached to the Titanium Apatite Deodorising Filter.

Specifications

IV	IODEL		FTXS20KVMA	FTXS25KVMA	FTXS35KVMA	FTXS50KAVMA	FTXS60KAVMA	FTXS71KAVMA		
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz							
Front panel colo	ur				WI	nite				
Airflow rate (H)	Cooling	m³/min(ℓ/s)	9.7 (9.7 (161)		14.7 (245)	16.2 (270)	17.4 (290)		
All llow rate (H)	Heating	3	10.5	(175)	11.5 (191)	16.2 (270)	17.4 (290)	21.5 (358)		
Cound lovel /11/1	Cooling	3 dD(A)	38/2	5/22	42/26/23	44/35/32	45/36/33	46/37/34		
Sound level (H/L/	Heating	dB(A)	39/28/25		42/29/26	42/33/30	44/35/32	46/37/34		
Sound power (H	Cooling	JD(A)	54		58	60	61	62		
Souria power (H	Heating	dB(A)	55		5	58	60	62		
Fan speed			5 steps, quiet and automatic							
Temperature cor	ntrol			Microcomputer control						
Dimensions (Hx	W×D)	mm	295x800x215			290x1,050x250				
Machine weight		kg		9	10	12				
L	iquid (Flare)			φ			∮6.4			
Piping connections	as (Flare)	mm		∮ 9.5	φ1		2.7	<i>ϕ</i> 15.9		
	Orain	7	I.D <i>ϕ</i> 14.0xO.D <i>ϕ</i> 18.0			<i>φ</i> 18.0				
Heat insulation	Heat insulation Both liquid and gas pipes									

BP Units for Connection to Residential Indoor Units



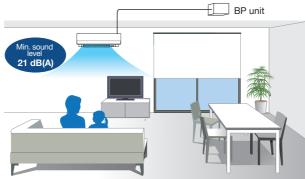
Connectable to Residential Indoor Units

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



Quiet Operating Sound

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 21 dB(A). Together these features ensure your system continues to operate as quietly as possible.



Specifications

MODEL

Α

mm

kg

mm

Power supply

Number of ports

Running current

Machine weight

Power consumption

Dimensions (HXWXD)

Number of wiring connections

Liquid

Gas

Connectable indoor units

Min. rated capacity of

connectable indoor units

Note: * Total auxiliary piping length

Branch



BPMKS967A3



Max. rated capacity of connectable indoor units

BPMKS967A3

3 (connectable to 1-3 indoor units)

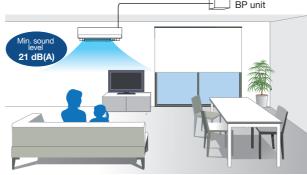
3 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP),

4 for interunit wiring (BP-indoor unit)

φ6.4X3

φ15.9X3

Expansion valves tend to create refrigerant passing



1-phase, 220-240 V/220-230 V, 50/60 Hz

0.05

φ9.5X1

 ϕ 19.1X1

Both liquid and gas pipes

2.0 kW class to 7.1 kW class

BPMKS967A2

2 (connectable to 1-2 indoor units)

2 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 3 for interunit wiring (BP-indoor unit)

φ6.4X2

φ15.9X2

14.2

BS Units for Heat Recovery

Specifications — Individual BS Unit



4 branch

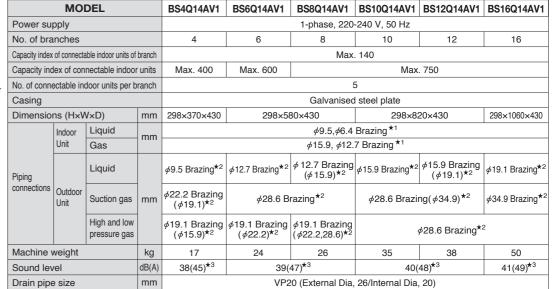


	MOI	DEL		BSQ100AV1	BSQ100AV1 BSQ160AV1 BSQ250AV					
Power sup	ply				1-phase, 220-240 V, 50 Hz					
No. of bra	nches			1						
Total capacity index of connectable indoor units				20 to 100	More than 100 but 160 or less	More than 100 but 250 or less				
No. of connectable		e indoor unit	s	Max. 5	Max. 8	Max. 8				
Casing				Galvanised steel plate						
		mm	207×388×326							
	Indoor	Liquid	mm	φ9.5 (Brazing) *1	φ9.5 (Brazing)	ϕ 9.5 (Brazing)				
D'ata	Unit	Gas	1 1111111	φ15.9 (Brazing) *1	φ15.9 (Brazing) *2	φ22.2 (Brazing) *3				
connections	0	Liquid		φ9.5 (Brazing)	φ9.5 (Brazing)	ϕ 9.5 (Brazing)				
Piping O	Outdoor Unit	Suction gas	mm		φ15.9 (Brazing) *2	φ22.2 (Brazing) *3				
	OTHE	High and low pressure gas			φ12.7 (Brazing) *2	φ19.1 (Brazing) ★3				
Machine v	veight		kg	11	11	14				
Sound lev	el		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



- 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

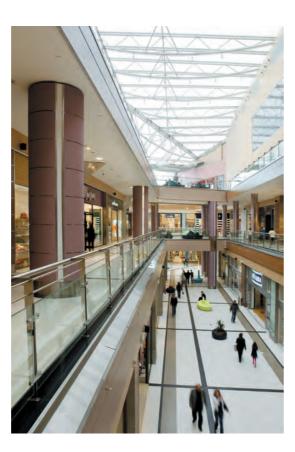
Air Handling Unit

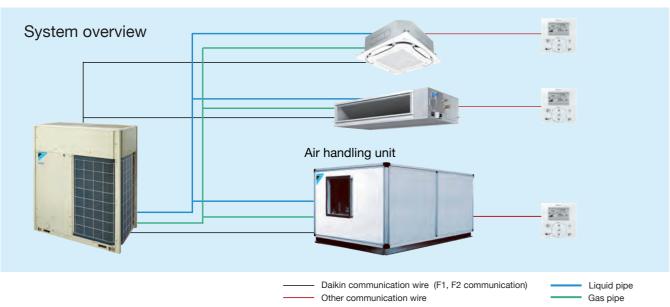
Integrate your air handling unit in a total solution for large size spaces such as factories and large stores.

AHUR Capacity range : 6 – 60 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.

Air Treatment Equipment Lineup



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

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

		Outdoor-Air		Heat Recla	im Ventilator						
	Wiring After-cool & After-heat Control Acchange Element fier Afficiency Filter	Processing Unit	VKM-GAM Type	VKM-GA Type	VAM-GJ Type						
		Ventilation Humidification Air Processing*	Ventilation	Humidification Processing*	Ventilation Hymidiffication						
			00.		00						
	Refrigerant Piping	Connectable	Connectable Connectable								
Connections with <i>VRV</i> system	Wiring	Connectable	Conne	ctable	Connectable						
	After-cool & After-heat Control	Available	Avail	able	Not available						
Heat Excha	nge Element	_	Energy savings obtained		Energy savings obtained						
Humidifier		_	Fitted	_	_						
High Efficier	ncy Filter	Option	Opt	ion	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						
				-34-	150 m³/h 250 m³/h 350 m³/h						
Airflow Rate			500 ו	m-/n	500 m³/h 650 m³/h						
AIIIIUW Hale			800 ו	m³/h	800 m³/h						
		1080 m³/h	1000		1000 m ³ /h						
		1680 m³/h			1500 m ³ /h						
		2100 m³/h			2000 m ³ /h						
		2100 m ⁻ /n									

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

Outdoor-Air Processing Unit

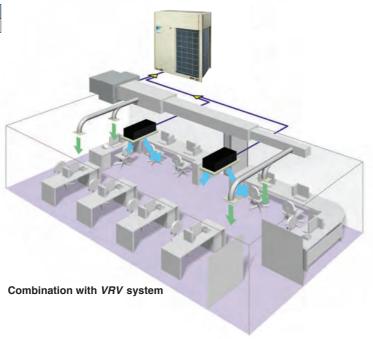
Combine fresh air treatment and air conditioning, supplied from a single system.

Lineup

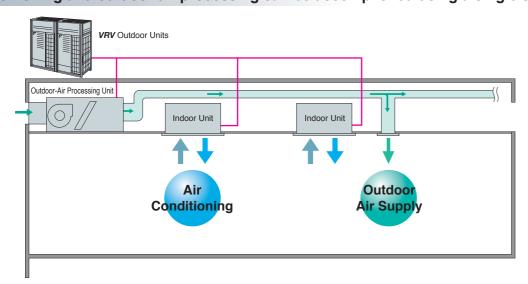
Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity Index	125	200	250



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.

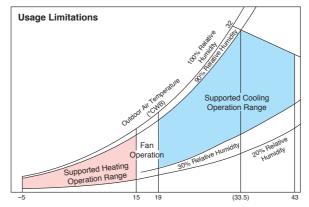
- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
- When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must 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	1-phase 220-240 V (also required for indoor units), 50 Hz						
Power supply Cooling capacity *1 Heating capacity *1 Power consumption Casing Dimensions (HxWxD) Motor output Airflow rate External static pressure Air filter Liquid Refrigerant piping Drain Machine weight Sound level *3 240 V	Btu/h	47,800	76,400	95,500							
	kW	14.0	22.4	28.0							
Power supply Cooling capacity *1 Heating capacity *1 Power consumption KW Power consumption Casing Dimensions (HxWxD) Motor output Airflow rate External static pressure Pefrigerant piping Cas Cas Air filter Liquid Gas mm Drain Machine weight KW But/h Ref ma/mir pinal Cas ma/mir pinal Cas mm Drain Machine weight Kg Sound level *3 Aux W Air Machine weight Kg Sound level *3 Aux W But/h kW But/h kW	Btu/h	30,400	47,400	59,400							
Tieating C	арасну і		kW	8.9	13.9	17.4					
Power co	nsumption		kW	0.359	0.548	13.9 17.4 0.548 0.638 Galvanised steel plate 470X1,380X1,100 0.380 466 583 28 35					
Casing					Galvanised steel plate						
Dimensio	ns (HxWxD)		mm	470X744X1,100	470X1,38	30X1,100					
Fan A	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)						
	Gas		mm	φ 15.9 (flare)	ϕ 19.1 (brazing)	ϕ 22.2 (brazing)					
r-r5	Drain		mm		PS1B female thread						
Machine	weight		kg	86	12	23					
Sound le	vel *3	240 V	dB(A)	43	4	8					
Connecta	able outdoor units *	4		6 class and above	8 class and above	10 class and above					
Operation ra	ange		Cooling		19 to 43°C						
(Fan mode of	pperation between 15 an	id 19°C)	Heating		-5 to 15°C						
Range of	the discharge		Cooling		13 to 25°C						
temperati			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)

 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.

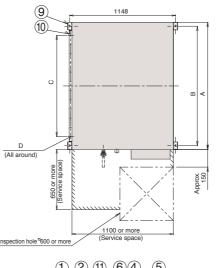
 Select a dust collection efficiency (gravity method) of 50% or more.

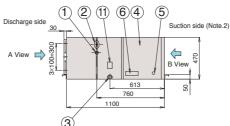
 3. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

 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
- 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.

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				

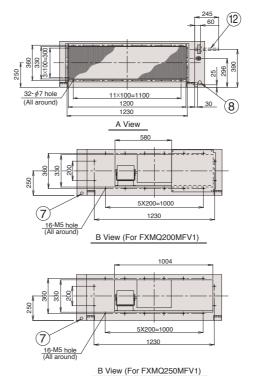
Table of dimensions

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

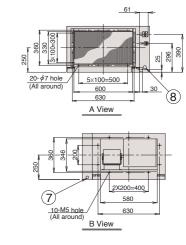
- 1. The attached piping in the diagram is for FXMQ200MFV1 and FXMQ250MFV1 only. The gas piping connection port (② in the diagram) has a different bore form with FXMQ125MFV1.
- 2. An air filter is not supplied with this unit. Be sure to mount an air filter in the suction side.[Use a filter with dust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



FXMQ200/250MFV1



FXMQ125MFV1



Options

Indoor unit

		Model	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1				
	Operation remo	te controller	BRC1E63						
ntro	Central remote	controller	DCS302CA61						
00/c	Unified ON/OFF	controller	DCS301BA61						
atior	Schedule timer		DST301BA61						
Operation/control	Wiring adaptor for electrical appendices (1)			KRP2A61					
	Wiring adaptor fo	or electrical appendices (2)	KRP4AA51						
	Long-life replace	ement filter	KAFJ371L140	KAFJ371L280					
er's	High-efficiency	Colourimetric method 65%	KAFJ372L140	KAFJ372L280					
ŧ		Colourimetric method 90%	KAFJ373L140	KAFJ3	73L280				
	Filter chamber	*1	KDJ3705L140	KDJ37	05L280				
PΝ	/12.5 filtration unit	*2	BAF429A20A						
PN	//2.5 with activate	d carbon filtration unit *2	BAF429A20AC						
Dr	ain pump kit		KDU30L250VE						
Ad	laptor for wiring			KRP1B61					

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

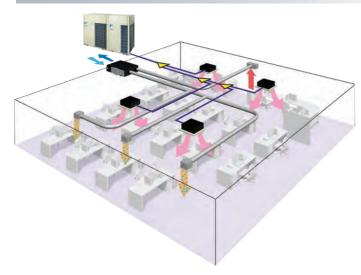
 Dimensions and weight of the equipment may vary depending on the options used.

 Some options may not be usable due to the equipment installation conditions, so please confirm prior to ordering.
 - *2. Refer to page 160-162 for details.

- . Some options may not be used in combination.
- Operating sound may increase somewhat depending on the options used.

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 Name	VKM50GAV1	VKM80GAV1	VKM100GAV1						
Capacity Index	31.25	50	62.5						



Humidifier

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

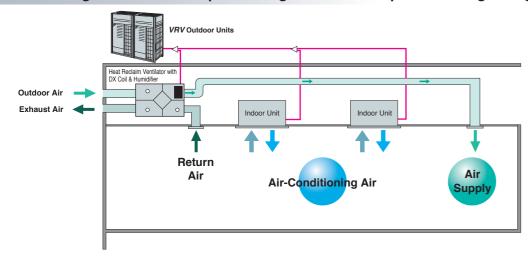
DX-coil

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

High static pressure

High external static pressure means enhanced design flexibility.

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

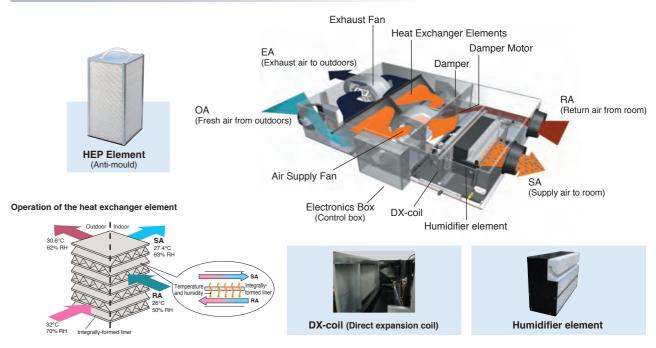


Connection Conditions

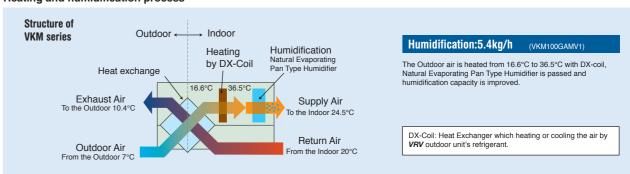
The following restrictions must be observed in order to maintain the indoor units connected to the same system

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

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



Heating and humidification process



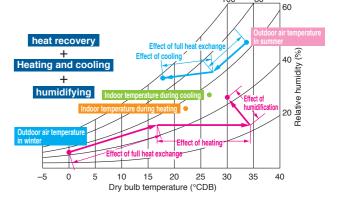
Efficient outdoor air introduction with heat exchanger and cooling/heating operation

Indoor unit with outdoor air treatment

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

Other features

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



Specifications

	ı	MODEL			VKM50GAMV1*	VKM80GAMV1 *	VKM100GAMV1*	VKM50GAV1	VKM80GAV1	VKM100GAV1		
Refrigerant					R-410A							
Power Supply							1-phase, 220-2	40 V, 50 Hz				
		Liltro bigb	Airflow rate	Airflow rate (m3/h)/(ℓ/s)		750/208	950/263	500/138	750/208	950/263		
		Ultra-high	Static pressure	Pa	160	140	110	180	170	150		
Airflow Rate & Static Pressure (Note 7)		High	Airflow rate	(m ³ /h)/(ℓ/s)	500/138	750/208	950/263	500/138	750/208	950/263		
		High	Static pressure	Pa	120	90	70	150	120	100		
		1	Airflow rate	(m3/h)/(l/s)	440/122	640/177	820/227	440/122	640/177	820/227		
Power Supply Airflow Rate & S Pressure (Note: Power Consump Fan Type Motor Output Sound Level (Note: (220/230/240 V) Humidification C Temp. Exchange Efficiency Enthalpy Exchar Efficiency (Cooli		Low	Static pressure	Pa	100	70	60	110	80	70		
		Heat	Ultra-high		560	620	670	560	620	670		
Power Concumption		exchange	High	w	490	560	570	490	560	570		
		mode	Low	1	420	470	480	420	470	480		
Power Consumpt	lion		Ultra-high		560	620	670	560	620	670		
		Bypass	High	w	490	560	570	490	560	570		
		mode	Low	-	420	470	480	420	470	480		
Fan Type							Sirocc	o Fan				
				kW	0.280 × 2	0.280 x 2	0.280 x 2	0.280 × 2	0.280 × 2	0.280 × 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 (Not	to 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		
Sound Level (Note (220/230/240 V)	16 3)		Ultra-high			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 35/35.5/36	36/37/37.5	37/37.5/38	36/36.5/37	37.5/38/39	38/38.5/39		
		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		
Humidification Ca	apacity (N	lote 4)		kg/h	2.7	4.0	5.4	_				
		Ultra-high		1.5	76	78	74	76	78	74		
Temp. Exchange		High	gh		76	78	74	76	78	74		
Efficiency		Low		%	77.5	79	76.5	77.5	79	76.5		
		Ultra-high	ra-high		64	66	62	64	66	62		
Enthalpy Exchange		High		%	64	66	62	64	66	62		
Efficiency (Coolin	ig)	Low		-	67	68	66	67	68	66		
		Ultra-high			67	71	65	67	71	65		
Enthalpy Exchan		High		%	67	71	65	67	71	65		
Efficiency (Heatin	ng)	Low		"	69	73	69	69	73	69		
Casing		12011					Galvan ised					
	al						Self-Extinguishab					
						Air to Air Cros	s Flow Total Heat (S		eat) Eychange			
							pecially Processed					
							Multidirectional		01			
	Cooling	(Note 2)			2.8	4.5	5.6	2.8	4.5	5.6		
	F-	(Note 3)		kW	3.2	5.0	6.4	3.2	5.0	6.4		
	7 localing	Height			387	387	387	387	387	387		
Dimensions		Width		mm	1,764	1,764	1,764	1,764	1,764	1,764		
Dirilolidiolid		Depth		111111	832	1,704	1,214	832	1,214	1,704		
Connection Duct	Diameter	<u> </u>		mm	\$32 \$200	,	250	<i>\$</i> 200	φ2			
Connection Duct	Diameter		Net	11/111	Ψ200 102	120	125	96	109	114		
Machine Weight			Gross (Note 8)	kg	102	120	134	30	109	114		
			Around Unit		107	129		0%RH or less				
Unit Ambient Cor	ndition											
Onit Ambient Cor	idition		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: 20°CDB, Outdoor temperature: 7°CDB, 6°CWB

 4. Humidifying capacity is based on the following conditions: Indoor temperature: 20°CDB, 15°CWB, Outdoor temperature: 7°CDB, 6°CWB

 5. The operating sound measured at the point 1.5 m below the centre of the unit is converted to that measured in an anechoic chambar built in accordance with the JIS C 1502 conditions. The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value.
 - 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

 - 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.
 - Sound.

 For operation in a quiet room, it is required to take measures to lower the sound.

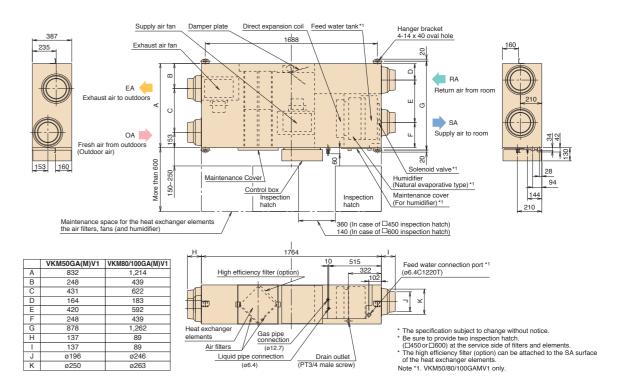
 7. Airflow rate can be changed over to Low mode or High mode.

 8. In case of holding full water in humidifier.
- 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
- In healing operation, ineezing of the outcoor units coil increases. Healing 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.
 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.)
 When connecting the indoor unit directly to the duct, always use the same system on the indoor unit
 as with the outdoor unit proferor group-linked operation and make the first dust connecting.
- as with the outdoor unit, perform group-linked operation, and make the direct duct connection settings from the remote controller. (Mode No. "17 (27)" First code No. "5" Second code No. "6".) Also, do not connect to the outlet side of the indoor unit. Depending on the fan strength and static pressure, the unit might back up.
- ★ Feed clean water (city water, tap water or equivalent). Dirty water may clog the valve or cause dirt deposits in the water container, resulting in poor humidifier performance. (Never use any cooling tower water and heating-purpose water.) Also, if the supply water is hard water, use a water softener because of short life.
- * Life of humidifying element is about 3 years (4,000 hours) under the supply water conditions of Life of indindingly elements a sound of years (4,000 hours) under the supply water 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		VKM50/80/100GA(M)V1														
	Remote controller					BRC1E63 *1														
			Reside	ntial central remote controller	DCS303A51 *2															
		ntralised htrolling	Centr	al remote controller		DCS302CA61														
		evice	Unifie	ed ON/OFF controller							DC	S301B	A61							
ø			Sche	edule timer							DS	T301B/	461							
device		Wiring appen		otor for electrical							K	RP2A6	31							
	5	For hum	nidifier	running ON signal output	KRP50-2															
≝	daptor	For heater control kit			BRP4A50															
Controlling	Board A	For wi	ring	Type (indoor unit of VRV)	FXFSQ-A	FXFQ-P	FXZQ-A2	FXCQ-M	$I \vdash X \vdash () \perp \Delta$	FXDQ-PD FXDQ-ND	FXDQ-T	FXSQ-PA	FXDYQ-M(A)	FXMQ-PA	FXMQ-P	FXUQ-A	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	
	PC				KRP1C11A★	KRP1C63★	KRP1BA57★	KRP1B61★	-	KRP1B56★	KRP1	C64★	KRP1B61	KRP1C64★	KRP1C67★	-	KRP1BA54	-	KRP1B61	
								Note 2, 3 KRP1B96	-	Note 4, 5 KRP1BA101	BRP9A90	Note 2, 3 KRP4A98	-	Note 2, 3 KRP4A97	BRP9A90	KRP1BA97	Note 3 KRP1CA93	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.
 Installation box★ is necessary for each adaptor.
- 6. *1 Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When operating interlocked
- with other air conditioners, use the remote controllers of the air conditioners.

 *2 For residential use only. When connected with a Heat Reclaim Ventilator (VKM), you can only switch the power ON/OFF. Cannot be used with other centralised control equipment.

Ite	m	Туре	VKM50GA(M)V1	VKM80GA(M)V1	VKM100GA(M)V1		
on	Silencer		_	KDDM:	24B100		
function	Silencer	Nominal pipe diameter mm	_	φ 250 mm			
	Air suction/	White	K-DGL200B	K-DGL250B			
onal		Nominal pipe diameter mm	φ200	<i>ф</i> 2	50		
dition	High efficiency	filter	KAF242H80M	KAF242H100M			
Ad	Air filter for rep	lacement	KAF241G80M	KAF241G100M			
Flexible duct (1 m) Flexible duct (2 m)			K-FDS201D	K-FD:	S251D		
			K-FDS202D	K-FD:	S252D		

■ 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 Higher External Static Pressure* **Enhanced Energy Saving Functions**

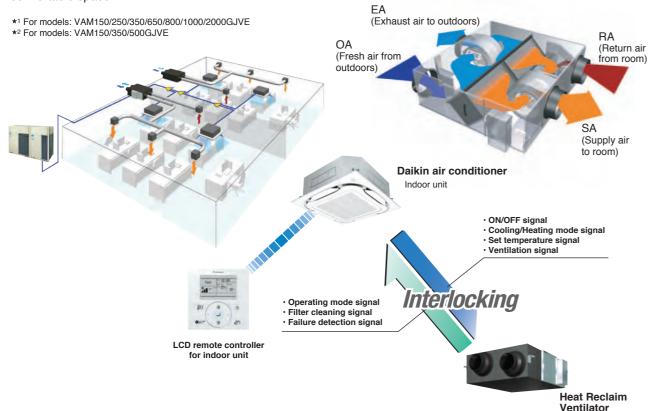




Heat Reclaim Ventilator remote controller BRC301B61 (Option)

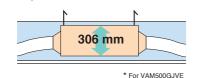
* This remote controller is used in case of independent operation of Heat Reclaim Ventilator

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

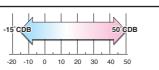


Energy Conservation

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

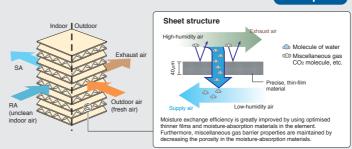
This unit recovers heat energy lost through ventilation and curbs room temperature changes caused by ventilation, thereby conserving energy and reducing the load on the air conditioning

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.

Air Conditioning Load Reduced by Approximately

- · 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

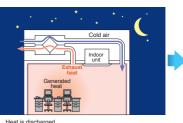
Nighttime free cooling operation is an energy-conserving function that works at night when air conditioners are off. By ventilating rooms containing office equipment that raises the room

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.

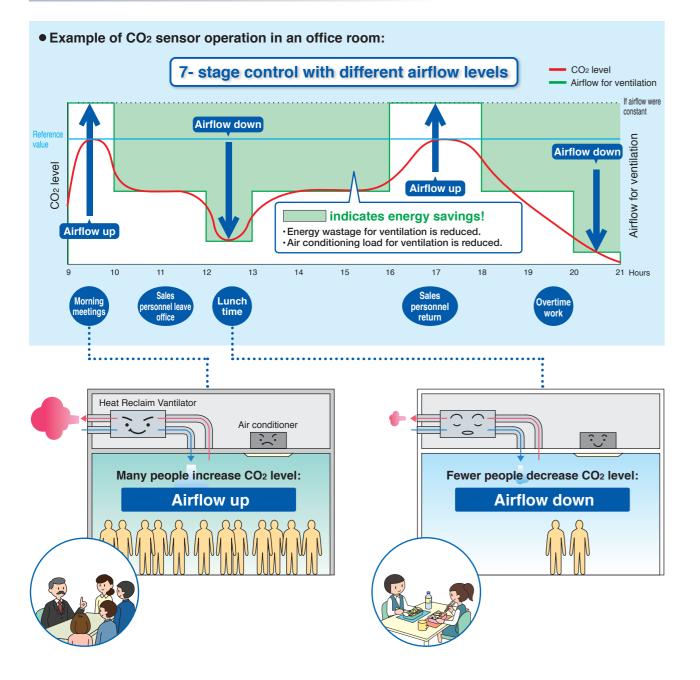


approx. **5%**

■ 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

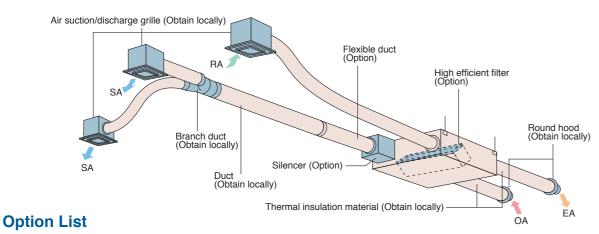
	MODEL			VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE		
Power Su	upply						1-phase, 22	20-240 V/220 \	V, 50/60 Hz					
		Ultra-High		79	75	79	74	75	72	78	72	77		
Temp. Ex Efficiency		nge High		79	75	79	74	75	72	78	72	77		
Liliciericy	(Low		84	79	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		Low		76	74	77	74	71.5	67.5	72.5	67	75		
Efficiency		Ultra-High		66	63	66	55	61	61	64	61	62		
	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	ge High W	111	120	182	225	300	517	567	991	1,151			
Power	Mode	Low		57	60	122	128	196	435	476	835	966		
Consumption	ion Bypass	Ultra-High		125	137	200	248	342	599	635	1,145	1,289		
	Mode	High	W	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		
Sound Level	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		
	vel 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		
	Bypass	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		
	Mode	<u> </u>	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				Galvanised steel plate										
	n Material			Self-extinguishable polyurethane foam								I		
	ons (HXWXD)		mm	278×810×551 306×879×800				338×973×832	387×1,111×832	387×1,111×1,214	785×1,619×832	785×1,619×1,214		
Machine			kg	24 32 45 55 67 129 157										
	change System			Air to air cross flow total heat (Sensible heat+latent heat) exchange										
	change Element	Mater	ıal		Specially processed nonflammable paper Multidirectional fibrous fleeces									
Air Filter							Multidire		fleeces					
1	уре	lini iri	1	450	050	252	500	Sirocco fan	200	4.000	4.500	0.000		
		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		
A	irflow Rate	Low Ultra-High		100 41	155 69	230 97	320 138	500 180	700 222	860 277	1,320 416	1,720 555		
Fan		<u> </u>	ℓ/s						222			555		
		High	Ł/S	41 27	69 43	97 63	138 88	180 138	194	277	416 366	477		
		Low Ultra-High		120	70	169	105	85	194	168	112	116		
	external Static	High	Pa	106	54	141	66	53	92	110	73	58		
P	ressure	Low	l a	56	24	67	32	35	72	85	56	45		
-	Motor Output	LOW	LAM											
Motor Output kW				0.03		0.09	_	0.140×2		80×2		350 350		
Connoct	Connection Duct Diameter mm Unit Ambient Condition				$\phi 100$ $\phi 150$ $\phi 200$ $\phi 250$ $\phi 350$									

- 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.
- 9. Sound level from the discharge port causes the value to be approximately 8 dB(A) (models with the airflow rate of less than 150 to 500 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



Type VAM150 · 250 · 350 · 500 · 650 · 800 · 1000 · 1500 · 2000 GJVE Heat Reclaim Ventilator remote controller BRC301B61 DCS303A51 Note Residential central remote controlle DCS302CA6 Central remote controller DCS301BA61 Unified ON/OFF controller device DST301BA61 Schedule timer Wiring adaptor for electrical KRP2A61 appendices KRP50-2 For humidifier KRP50-2A90 (Mounted electric component assy of Heat Reclaim Ventilator) Installation box for adaptor PCB For heater control kit BRP4A50 |FXDQ-PD| |FXDQ-ND||FXDQ-T||FXSQ-PA||FXDYQ-MA||FXMQ-PA||FXMQ-P||FXUQ-A||FXHQ-MA||FXAQ-P Type For wiring (indoor unit of **VRV**) FXFSQ-A|FXFQ-P|FXZQ-A2|FXCQ-M|FXEQ-A FXDQ-ND KRP1B56★ KRP1C64★ KRP1B6 Note 4, 5 KRP1BA101 BRP9A90 Note 2, 3 KRP4A98 Note 2, 3 KRP4A97 BRP9A90 KRP1BA97 Note 3 KRP1CA93 KRP4AA93 Installation box for adaptor PCB★ KRP1H98A KRP1H98 KRP1B96

- Note: 1. Installation box

 is necessary for each adaptor marked

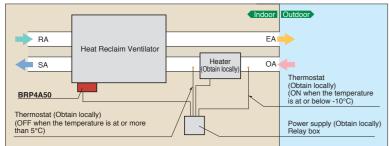
 ...
 - 2. Up to 2 adaptors can be fixed for each installation box.
 - 3. Only one installation box can be installed for each indoor unit
 - Up to 2 installation boxes can be installed for each indoor unit
- 6. *1 Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When operating interlocked

Item		Туре	VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE	
la L	Silencer			_		KDDM24B50	K	DDM24B10	0	KDDM24	B100X2	
Additional function		Nominal pipe diameter mm		_		φ 20	00		φ 250			
ig er	High efficie	ency filter	KAF24	2H25M	KAF24	2H50M	KAF242H65M	KAF242H80M	KAF242H100M	KAF242H80MX2	KAF242H100MX2	
~ ~	Air filter for	r replacement	KAF24	1H25M	KAF24	1H50M	KAF241H65M	KAF241H80M	KAF241H100M	KAF241H80MX2	KAF241H100MX2	
Flexible	e duct (1 m)		K-FDS101D	K-FDS	S151D	K-FDS	S201D		K-FDS	S251D		
Flexible	e duct (2 m)		K-FDS102D	K-FDS102D K-FDS152D K-FDS202D K-FDS						S252D		
Duct a	dantor			_								
Ducta	Nominal pipe diameter m			-								
CO ₂ se	ensor			BRYMA65 BRYMA100 B								
PM2.5	filtration un	it*	BAF249A150	AF249A150 BAF249A300 BAF249A350 BAF249A500 — BAF429A20A								
PM2.5 v	with activated	d carbon filtration unit*	BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C			BAF429	A20AC		

*Refer to page 160-162 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.

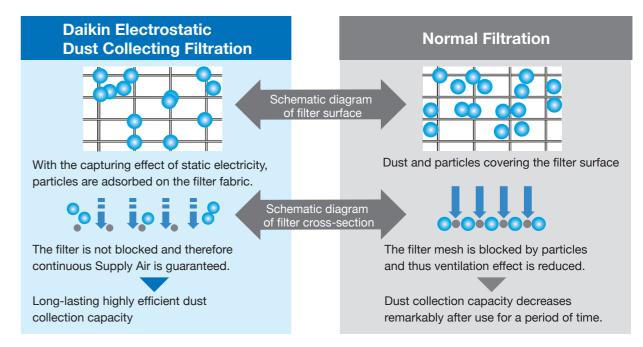
- 1. The front filter effectively removes large particles.
- 2. The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently.



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.

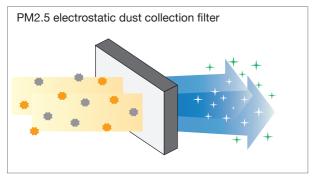
The filter is difficult to be blocked by particles and has good ventilation and long life span.



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 $2.5 \mu m$.





^{*}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.

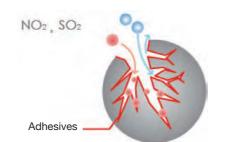
Note: Surface area of active carbon: $700~\text{m}^2/\text{g}$ Given a newspaper page of 40.6 cm wide by 54.6 cm long, each gram of active carbon has a surface area of 3,000 newspaper pages.

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 Ve	ntilator Models		VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	
Dimensions (H ×	W × D)	mm	220 x 603 x 366	220 x 603 x 366	300 x 623 x 366	300 x 623 x 366	
Connection Duct	nection Duct Diameter		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 higher				
	Filter Material No. 3		BAF24	4A300	BAF244A500		

Note: 1. Annual usage: 400 hrs/month x 12 months = 4,800 hrs

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

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 Ve	entilator Models		VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	
Dimensions (H >	× W × D)	mm	220×603×366	220×603×366	300×623×366	300×623×366	
Connection Duc	t 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				
PIVIZ.5 FIILEI	Filtration Efficiency ²		99% or higher				
	Filter Material No. 3		BAF244A300 BAF244A500			4A500	
A -4541	Initial Pressure Drop	Pa	3	5	5	9	
Activated Carbon Filter	Filter Lifetime		1 year				
Carbon Filler	Filter Material No. 3		BAF244A300C BAI			244A500C	
Total Initial Pressure D	Prop for PM2.5 with Activated Carbon Filtration Unit	37	35	36	51		

Note: 1. Annual usage: 400 hrs / month × 12 months = 4,800 hrs.

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

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)







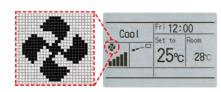


This simple, contemporary remote controller with fresh white colour matches your interior design. The clear, backlight display with large easy-to-read text makes navigation easy and provides one-touch control over your in-home comfort.

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.

See and the see an



Energy saving

Setpoint range set

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



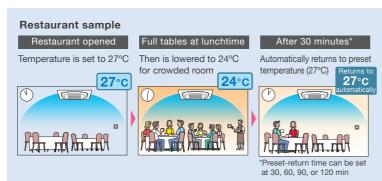
Off timer

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

Setpoint auto reset

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





Convenience

Setback (default: OFF)

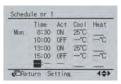
Maintains the room temperature in a specific range during unoccupied period by temporarily starting air conditioner that was turned OFF.

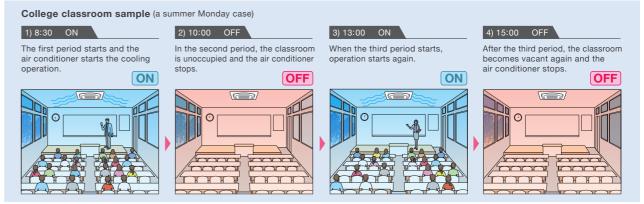
	Setback temperature	Recovery differential
Cooling	33 — 37°C	-2 — -8°C
Heating	10 — 15°C	+2 — +8°C

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

Weekly schedule

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





New

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 and FXUQ-A series.

New

•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)

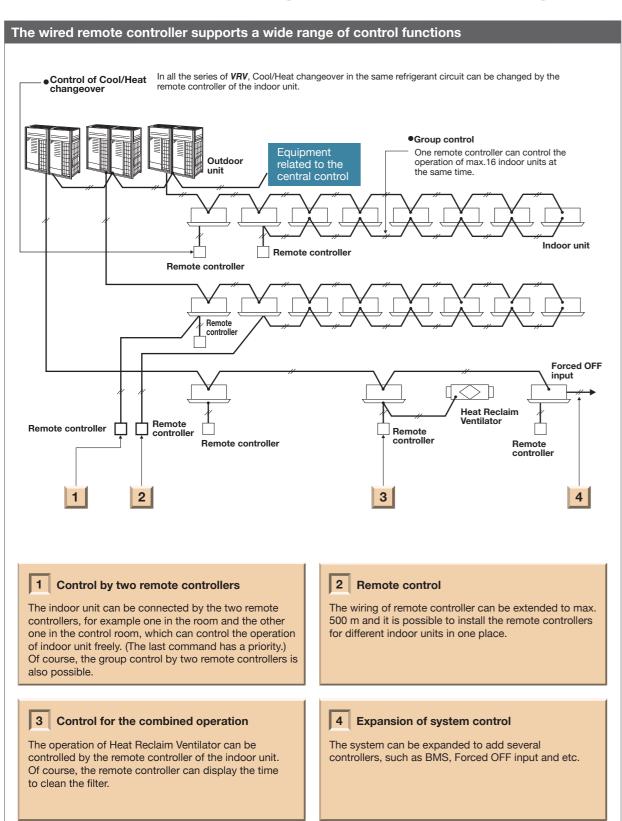
Airflow rate is automatically controlled in accordance to the difference between room temperature and set temperature.

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



Control Systems

■ Individual Control Systems for *VRV* Systems



Wireless remote controller (Option)



- •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

Backlight LCD of new wireless remote controller





Pressing the backlight button helps operating in dark rooms





BRC7M635F BRC7M634F

- 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 186 for the name of each model.

Simplified remote controller (Option)



Exposed type (BRC2C51)



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



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

Wide variation of remote controllers for VRV indoor units

	F.	XF(S)Q	FXZQ	FXUQ	FXCQ	FXEQ	FXDQ	FXDYQ	FXSQ	FXMQ	FXHQ	FXAQ	FXL(N)Q	FXVQ	FXB(P)Q
"Nav Ease" (Wired remote controller) (BRC	C1E63)	•	•				•	•	•	•	•	•	•		•
"Nav Ease" (Wired remote controller) (BRC	C1F61)														
Wireless remote controlle (Installed type signal receiver u		•	•		•						•	•			
Wireless remote controllo (Separate type signal receiver to															•
Simplified remote controlle (Exposed type) (BRC	er (2C51)						•	•	•	•			•		•
Simplified remote controlle (Concealed type: for Hotel use) (BRC	er 03A61)						•		•	•					•

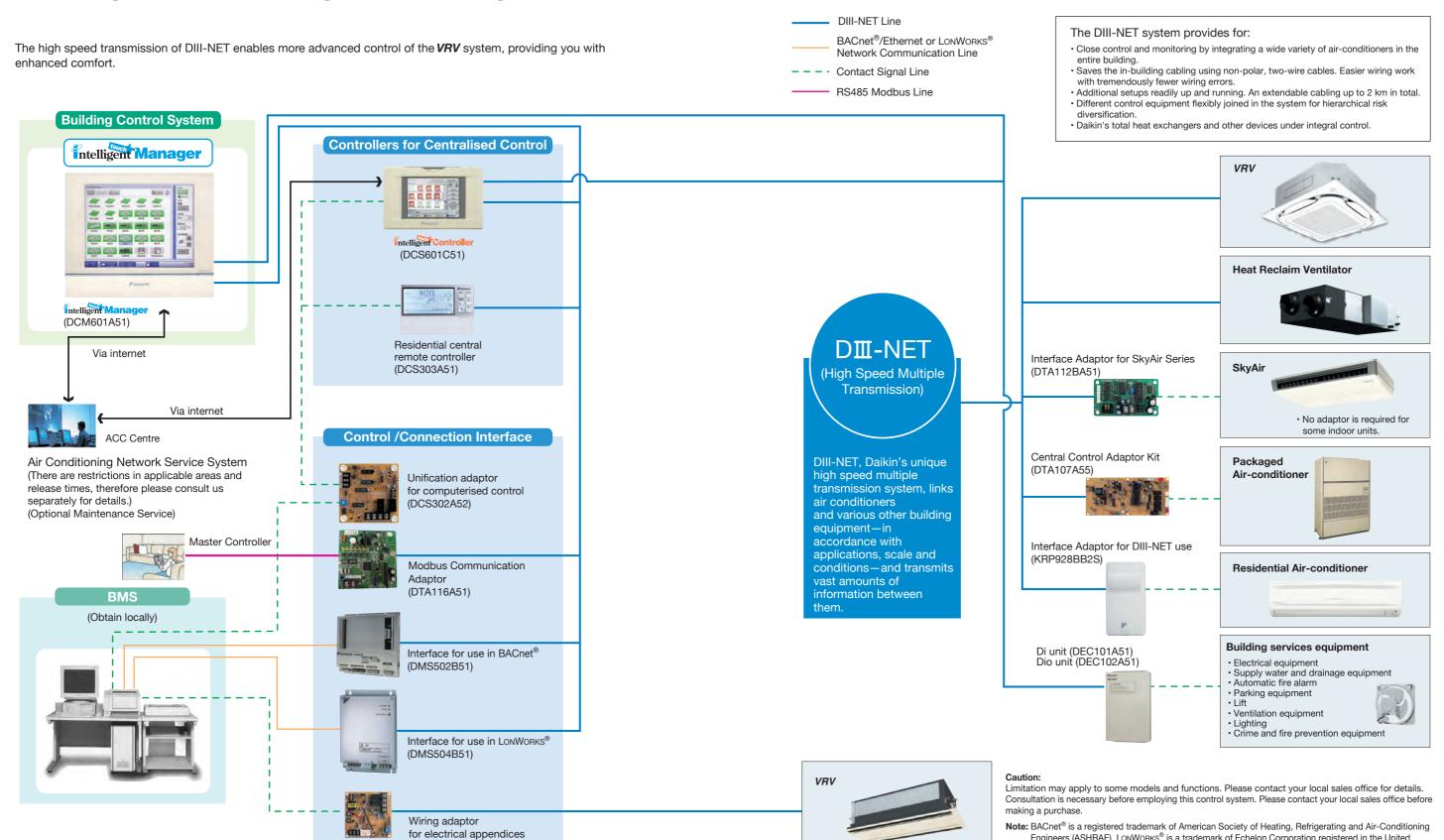
^{*}Refer to page 186 for the name of each model.

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

States and other countries

Control Systems

■ Integrated Building Monitoring System



(KRP2A61/62/53)

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.



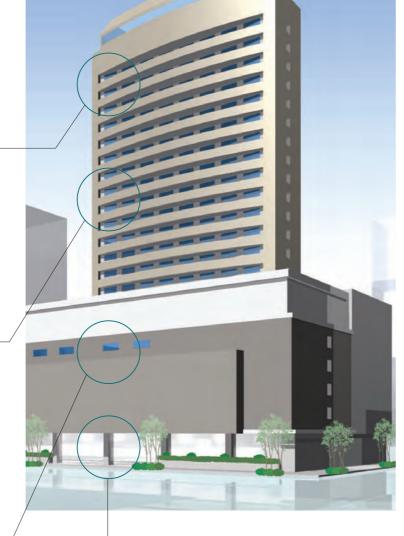


Air-conditioning control for large spaces

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

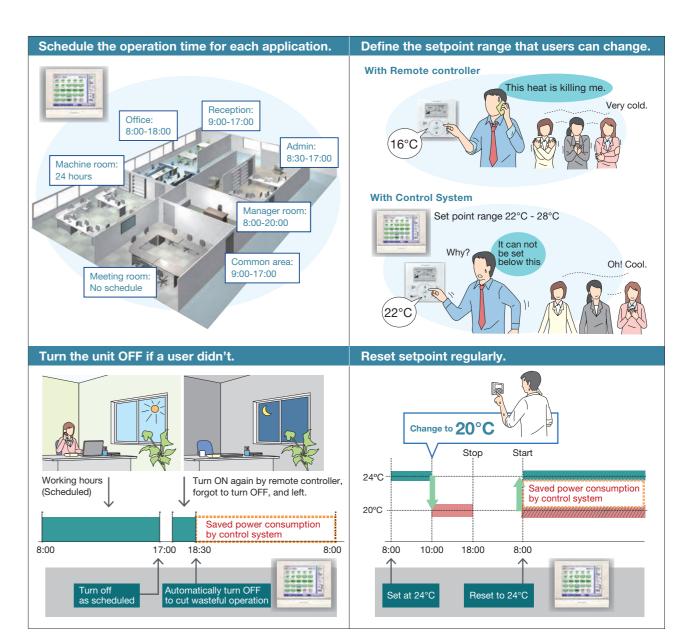
intelligent Touch Manager maximises the advantages of VRV features

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.

DALI-compatible

Please contact your local sales office for details.

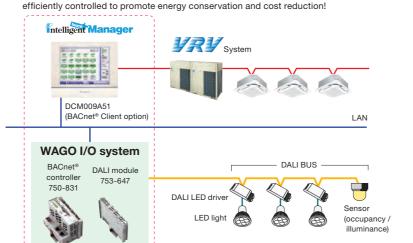
Lighting control achieved by the intelligent Touch Manager

[Operation]

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

[Monitoring]

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



Air conditioning and lighting for which power consumption is high can be

[Overview of control]

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

Easy maintenance and energy saving by lighting control

Case1

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

 Failing to switch off lights is prevented



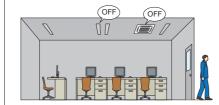


Optimal illuminance reduces energy

Case2

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

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



Case3

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

Lighting maintenance becomes easier and



Tenant Management (PPD* Option)

Reporting the power consumption of VRV system for each tenant

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

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

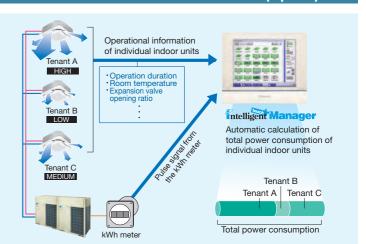
Operational information of individual indoor units are monitored, based on distribution of power consumption of outdoor units.

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

It is easy to output PPD data.

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

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



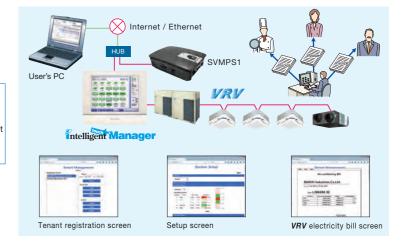
Air conditioning bills can be issued by one click

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

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

[Main functions]

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



Effective service functions offered to tenants

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

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

It is not necessary to move where a remote controller is located with this feature.

VRV system in other rooms can be operated, and their status can be checked.

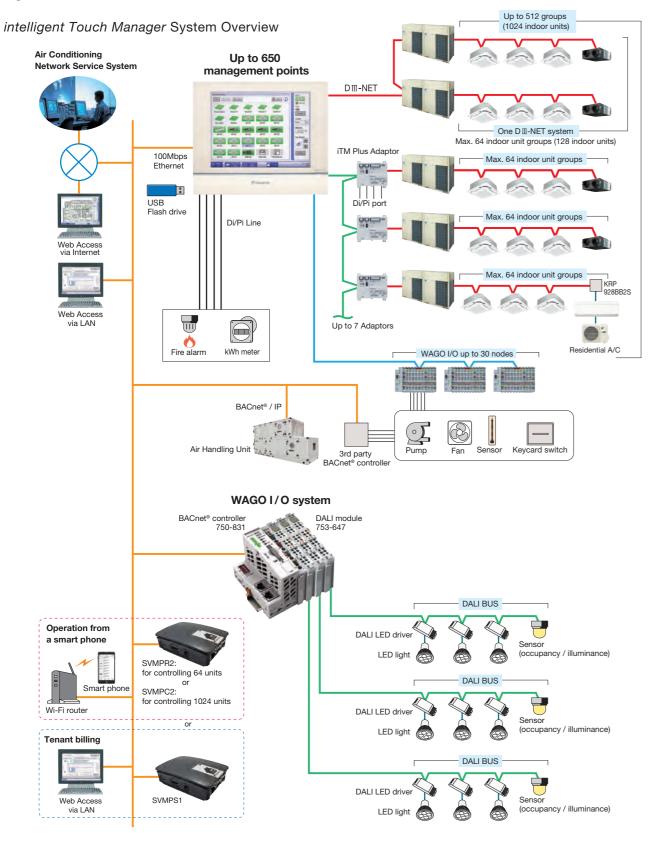
It is also possible to check if air conditioners in other rooms remain switched on etc., helping achieve energy saving.



Control Systems

Advanced Control Systems for VRV Systems

System structure



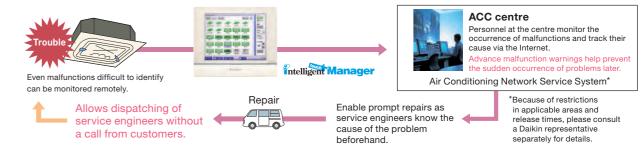
Air Conditioning Network Service System

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

Enhanced convenience with link to the Air Conditioning Network Service System

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



Daikin Offers a Variety of Control Systems

Convenient controllers that offer more freedom to administrators



Intelligent Controller

Ease of use and expanded control functions

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

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



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

(Interface for use in BACnet®)



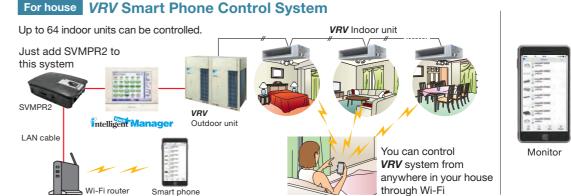
Facilitating the network integration of **VRV** system and LONWORKS®

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. LONWORKS® is a trademark of Echelon Corporation registered in the United States and other countries

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





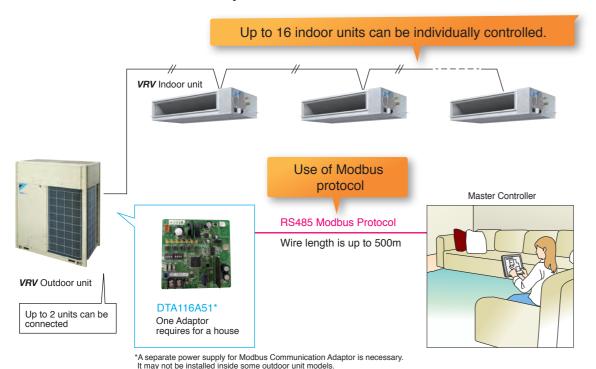


Control

Control Systems

Advanced Control Systems for VRV Systems

Modbus Communication Adaptor



Functions

- WOTHO	
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) Reset filter sign of indoor units				
Filter sign reset					
Retrieve system information					
Connected indoor units	DIII-NET address of connected indoor units can be retrieved.				

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

VRV Smart Phone Control System

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



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

VRV Tablet Controller: SVMPC1

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

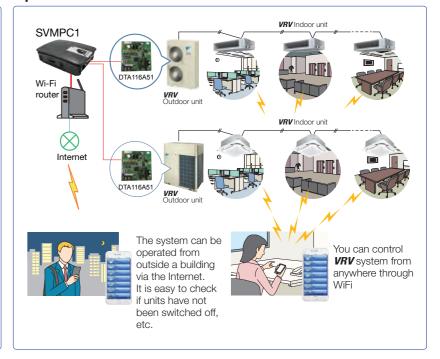
Simple and easy but powerful enough

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



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

Up to 32 indoor units can be monitored and controlled.



■ Functions

*: only admin user can set

Category	Function	Detail
Access security	User login	User name, password
	Device registration	Registered device(Tablet, Smartphone) can access through the internet
Main screen	Status monitoring	On/Off, Setpoint, Operation mode, Fan step, Flap, Error, Error code, Room Temperature
	Manual operation	On/Off, Setpoint, Operation mode, Fan step, Flap
Automatic	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
System setting	Language	English, Spanish, Portuguese, Thai, Vietnam, Simplified Chinese, Traditional Chinese
	Password setting	
	User administration*	Add/Modify/Delete user, Set User name, Password, Accessible points
	Point setting*	Set point name, Select icon

■ Specifications

- Оросинов		
Category	Specification	Detail
Connectable	Number of indoor units	Max 32 (with additional DTA116A51)
units	Number of DTA116A51	Max 2
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

Outdoor Units

WRV H SERIES High-COP Type

No.	Type		RXYQ12AH RXYQ14AH RXYQ16AH RXYQ18AH RXYQ20AH	RXYQ22AH	RXYQ24AH	RXYQ26AH RXYQ28AH RXYQ30AH RXYQ32AH RXYQ34AH RXYQ36AH	
1	Distributive piping	REFNET header		M22H, 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, KHRP26A73		
2	Pipe size red	lucer	- KHRP26M73TP, KHRP26M				
3	Outdoor unit	multi connection piping kit	BHFP22P100 BHFP22P151				
4	Cool/Heat se	elector	KRC19-26A				

Option PCB

No.	Туре	RXYQ12AH RXYQ14AH RXYQ16AH	RXYQ18AH RXYQ20AH RXYQ22AH	RXYQ24AH RXYQ26AH RXYQ28AH	RXYQ30AH RXYQ32AH RXYQ34AH	RXYQ36AH	
1	DIII-NET expander adaptor			DTA109A51			
2	External control adaptor	DTA109A61					
3	Modbus communication adaptor	DTA116A51					

VRV H SERIES Standard Type

No. Item		RXYQ6A RXYQ12A RXYQ8A RXYQ14A RXYQ10A RXYQ16A		RXYQ18A RXYQ20A	RXYQ22A			
Distributive REFNET header piping			KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)					
REFNET joint		KHRP26A22T, KHRP26A33T KHRP26A22T, KHRP26A33T, KHRP26A72T						
Outdoor unit multi connection piping kit			- BHFP22F					
3	Cool/Heat se	elector		KRC1	9-26A			
No.	Item	Туре	RXYQ24A	RXYQ26A RXYQ28A RXYQ30A RXYQ32A RXYQ34A RXYQ36A	RXYQ40A RXYO RXYQ42A RXYO	Q46A RXYQ54A Q48A RXYQ56A Q50A RXYQ58A Q52A RXYQ60A		

	Item			RXYQ34A RXYQ36A	RXYQ44A	RXYQ52A	RXYQ60A
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H (Max. 8 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)				
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T				
2	2 Pipe size reducer		KHRP26M73TP, KHRP26M73HP				
3	3 Outdoor unit multi connection piping kit B			22P100		BHFP22P151	
4 0-101-4-1-4-9				KDO4	0.004		

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 ★	DTA109A61					
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 REYQ28TA REYQ30TA	REYQ32TA REYQ34TA REYQ36TA	
		3 Pipes	REFNET header	KI (M	KHRP25M33H, KHRP25M72H (Max. 8 branch) (Max. 8 branch) KHRP25M73H (Max. 8 branch)			
1	Distributive		REFNET joint	KHRP25A22T, KHRP2	25A33T, KHRP25A72T	5A33T, KHRP25A72T	, KHRP25A73T	
,	piping	2 Pipes	REFNET header		HRP26M33H, KHRP26M7; ax. 8 branch) (Max. 8 bran	KHRP26M33H, (Max. 8 branch) (KHRP26 (Max. 8 b	Max. 8 branch) 6M73H	
			REFNET joint		2T			
2	Pipe size red	ucer		KHRP25M72TP KHRP2				KHRP25M73TP, M73HP
3	Outdoor unit	multi conne	ection piping kit	BHFP26P90 BHFP26P136				

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		Туре	REYQ6TA REYQ8TA REYQ10TA	REYQ12TA REYQ14TA REYQ16TA REYQ18TA REYQ20TA	REYQ22TA	REYQ24TA	REYQ26TA REYQ32T REYQ28TA REYQ34T REYQ30TA REYQ36T
	REFNET header		KHRP25M33H (Max. 8 branch)				KHRP25M33H, KHRP25M72H (Max. 8 branch) (Max. 8 branc KHRP25M73H (Max. 8 branch)	
1	Distributive		REFNET joint	KHRP25A22T, KHRP25A33T		KHRP25A33T, 25A72T		P25A22T, KHRP25A33T, P25A72T, KHRP25A73T
,	piping	2 Pipes	REFNET header	KHRP26M33H (Max. 8 branch)		P26M33H, KHRP26M72H 8 branch) (Max. 8 branch)		KHRP26M33H, KHRP26M72 (Max. 8 branch) (Max. 8 branc KHRP26M73H (Max. 8 branch)
			REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A221 KHRP26A331 KH		HRP26A72T	
2	Pipe size red	ucer		-	KHRP25M72TP		KHRP25M72TP, KHRP25M73T KHRP26M73HP	
3	Outdoor unit multi connection piping kit			-	-		BHFP.	26P90

	No.		Туре		REYQ38TA REYQ44TA REYQ50TA REYQ REYQ40TA REYQ46TA REYQ52TA REYQ					
		Item			REYQ42TA	REYQ48TA	REYQ54TA	REYQ60TA		
			3 Pipes	REFNET header			25M72H, KHRP25M73H 3 branch) (Max. 8 branch)			
	4	Distributive	itive	REFNET joint						
	'	piping	2 Pipes	REFNET header						
				REFNET joint		KHRP26A22T, KHRP	26A33T, KHRP26A72T			
	2	Pipe size red	ucer		KHRP25M72TP, KHRP25M73TP, KHRP26M73HP					
[3	Outdoor unit	multi conne	ection piping kit		BHFP	26P136	·		

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 ★	DTA109A51					
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		KRC1	9-26A		-	-	
1-1	Fixing box		KJB111A –					
2	REFNET header	KHRP26M22H (Max. 4 branch)						
2	nerne i neader	KHRP26M33H (Max. 8 branch)						
3	REFNET joint		KHRP2	6A22T		KHRP26A22T,	KHRP26A33T	
4	Central drain plug		KKPJ5G280			KKPJ	5G280	
5	Fixture for preventing overturning	KKTP5B112 KP			KPT-60B160	KPT-60B160 KKTP5B112		
6	Wire fixture for preventing overturning	– K-KYZP15C						

VRV IV Q SERIES Heat Pump (Standard Type)

No.	Item	Туре	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 selec	ctor		KRC19-26A		

No.	Type		RQYQ18TN(E) RQYQ20TN(E)	RQYQ22TN(E)	RQYQ24TN(E) RQYQ28TN(E) RQYQ30TN(E) RQYQ32TN(E)			
1	Distributive piping	REFNET header	(Max. 4 branch) KHRP	KHRP26M33H (Max. 8 branch), 26M72H 3 branch)	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP	26A33T, KHRP26A72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
2	Pipe size reducer			_	KHRP26M73TP, KHPR26M73HP			
3	Outdoor unit mu	ti connection piping kit	BHFP22P100					
4	Cool / Heat selec	ctor	KRC19-26A					

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) (Max. 8 branch)					
	piping	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T						
2	Pipe size reduce	er	KHRP26M73TP, KHPR26M73HP						
3	Outdoor unit mu	lti connection piping kit	BHFP22P151						
4	Cool / Heat sele	ctor	KRC19-26A						

IV IV Q SERIES Heat Pump (Space Saving Type)

No.	Item Type		RQYQ18T(E) RQYQ20T(E)			
1	Disinbutive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)			
	piping	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T			
2	Cool / Heat selector		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		KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T						
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP							
3	Outdoor unit conne	Outdoor unit connection piping kit		BHFP22P100						
4	Cool / Heat selector		KRC19-26A							

No.	Item	Туре	RQYQ42TS(E) RQYQ44TS(E) RQYQ46TS(E) RQYQ48TS(E)				
1	Disinbutive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch)				
	p.p.i.g	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T				
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP				
3	Outdoor unit conne	ection piping kit	BHFP22P151				
4	Cool / Heat selector	or	KRC19-26A				

□ P □ III-Q Heat Recovery

No.	Type		RQCEQ280P RQCEQ360P	RQCEQ460P RQCEQ500P	RQCEQ540P RQCEQ636P	RQCEQ712P RQCEQ744P RQCEQ816P RQCEQ848P	
	Distributive piping	REFNET header	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		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	je kit	BHGP26A1×2	BHGP	26A1×3	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	9-26A (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.	Type		RWQ3A	RWQ4A	RWQ5A	RWQ6A			
1	Distributive piping	REFNET header		KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)					
	p.pg	REFNET joint	KHRP26A22T						

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 material of all discharge outlet		For usage	of 2-way flow		KDBH552C160		
3	Panel spacer					KDBP55H160FA		
	Fresh air intake kit		Chamber	Without T-duct joint	KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) ⁵			
4			type 2,3	With T-duct joint	KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) ⁵			
			Direct inst	tallation type 4		KDDP55X160A		
5	High-efficiency filter unit ⁶		(Colorimetric method 65%)		KAFP5	556C80	KAFP556C160	
5	(Including filte	er chamber)	(Colorimetric method 90%)		KAFP5	557C80	KAFP557C160	
6	Panlacament	high-efficiency filter 6,7	(Colorimetric method 65%)		KAFP5	552B80	KAFP552B160	
0	neplacement	riigii-eiliciericy liiter	(Colorimet	tric method 90%)	KAFP5	553B80	KAFP553B160	
7	Filter chambe	r			KDDFP55C160			
8	Replacement	long-life filter			KAFP551K160			
9	Ultra long-life	filter unit (Including filter o	chamber) ⁶		KAFP55C160			
10	Replacement ultra long-life filter 6.7				KAFP55H160H			
11	Branch duct chamber ¹				KDJP	KDJP55C80 KDJP55		
12	Insulation kit for high humidity 6,8				KDTP	55K80	KDTP55K160	

- 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 I	XFQ32P	FXFQ40P	FXFQ50P	FXFQ63P	FXFQ80P	FXFQ100P	FXFQ125P
1	Decoration panel			BYCP125K-W1							
2	Sealing material of air dis	scharge outlet					KDBH5	5K160F			
3	Panel spacer						KDBP5	5H160FA			
		High efficiency	filter unit 65%			KAFP	556C80			KAFP5	56C160
		High efficiency filter unit 90%				KAFP	557C80			KAFP5	57C160
		Replacement high efficiency filter 65%				KAFP	552B80			KAFP5	52B160
4	Filter related	Replacement high efficiency filter 90%		KAFP553B80				KAFP5	53B160		
7		Filter chamber					KDDFF	255C160			
		Long life replacement filter		KAFP551K160							
		Ultra long-life filter unit		KAFP55C160							
		Replacement u	Itra long-life filter	KAFP55H160H							
		Chamber type	Without T-duct joint		KDDP:	55B160 (Con	nponents: KD	DP55C160-1	, KDDP55B16	60-2) *1	
5	Fresh air intake kit	Chamber type	With T-duct joint		KDDP5	5B160K (Cor	nponents: KD	DP55C160-1	, KDDP55B16	60K2) *1	
		Direct installati	on type	KDDP55X160A							
6	Branch duct chamber			KDJP55B80				KDJP	55B160		
7	Chamber connection kit			KKSJ55KA160							
8	Insulation kit for high hun	ation kit for high humidity			KDTP55K80 KDTP55			55K160			

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) $\rightleftharpoons 15~hr/day \times 28~day/month \times 12~month/year$

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

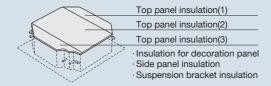
High-efficiency filter unit

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



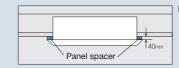
Insulation kit for high humidity

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

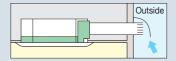
Sealing material block air discharge openings not used in 2-way or 3-way blow.

Branch duct chamber

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

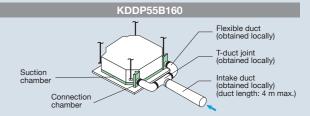
Fresh air intake kit Note 1.2

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.

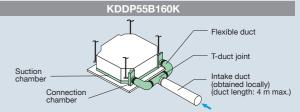


The units can be installed in the following different ways

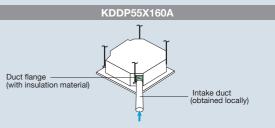
Chamber type (without T-duct joint) Note 3.4.5



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 necessarv.

■ 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 dischar	rge outlet	BDBHQ44C60					
3	Sensor kit		BRYQ60A2W					
4	Replacement long-life filter	KAFQ441BA60						
5	Fresh air intake kit	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		FXCQ20M FXCQ25M FXCQ32M	FXCQ40M FXCQ50M	FXCQ63M	FXCQ80M FXCQ125M
1			BYBC32G-W1	BYBC50G-W1	BYBC63G-W1	BYBC125G-W1
		High efficiency filter 65% ★1	KAFJ532G36	KAFJ532G56	KAFJ532G80	KAFJ532G160
	Filter related	High efficiency filter 90% ★1	KAFJ533G36	KAFJ533G56	KAFJ533G80	KAFJ533G160
	Filter chamber bo	Filter chamber bottom suction	KDDFJ53G36	KDDFJ53G56	KDDFJ53G80	KDDFJ53G160
		Long life replacement filter	KAFJ531G36	KAFJ531G56	KAFJ531G80	KAFJ531G160

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

Ceiling Mounted Cassette (Single Flow) Type

No.	Type	FXEQ20A FXEQ25A	FXEQ32A FXEQ40A	FXEQ50A FXEQ63A
1	Decoration panel	BYEP40AW1		BYEP63AW1

Slim Ceiling Mounted Duct Type (Standard Series)

No.	Item Type	FXDQ20PD	FXDQ25PD	FXDQ32PD	FXDQ40ND	FXDQ50ND	FXDQ63ND
1	Insulation kit for high humidity		KDT25N32		KDT2	25N50	KDT25N63

Ceiling Concealed (Duct) Type

No.	Type Type	FXDYQ80MA	FXDYQ100MA	FXDYQ125MA	FXDYQ145MA
1	Run/fault status PCB	KRP1B5X			

Middle Static Pressure Ceiling Mounted Duct Type

No.	Item	Туре	FXSQ20PA FXSQ25PA FXSQ32PA	FXSQ40PA	FXSQ50PA FXSQ63PA FXSQ80PA	FXSQ100PA FXSQ125PA	FXSQ140PA
-	1 High efficiency filter *1	65%	KAFP632B36	KAFP632B56	KAFP632B80	KAFP632B160	KAF632B160B
'		90%	KAFP633B36	KAFP633B56	KAFP633B80	KAFP633B160	KAF633B160B
2	Filter chamber (for rear suction) *1		KDDFP63B36	KDDFP63B56	KDDFP63B80	KDDFP63B160	KDDF63B160B
3	Long-life filter *1		KAFP631B36	KAFP631B56	KAFP631B80	KAFP631B160	KAF631B160B
		White	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25	K160W
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		KDBD63A160			_	

Note: *1. If installing high efficiency filter and long-life filter to the unit, filter chamber is required. *2. This option is a set of KDAP25A140A and KDBHP37A160.

Ceiling Mounted Duct Type

No.	Item	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	KAF372AA56	KAF372AA80	KAF372AA160	
		90%	KAF373AA36	KAF373AA56	KAF373AA80	KAF373AA160	
3	Filter chamber		KDDF37AA36	KDDF37AA56	KDDF37AA80	KDDF37AA160	
4	Long life replacement filter		KAF371AA36	KAF371AA56	KAF371AA80	KAF371AA160	
5	Long life filter chamber kit		KAF375AA36	KAF375AA56	KAF375AA80	KAF375AA160	_
		White	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W	
6	Service panel	Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
	Brown	Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T	
7	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A	

Ceiling Suspended Type

No.	Item Type	FXHQ32MA	FXHQ63MA FXHQ100MA		
1	Drain pump kit	KDU50N60VE	KDU50N125VE		
2	Replacement long-life filter (Resin net)	KAF501DA56	KAF501DA80 KAF501DA112		
3	L-type piping kit (for upward direction)	KHFP5MA63	KHFP5	KHFP5MA160	

Wall Mounted Type

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

Floor Standing Type

	No.	Item Type	FXLQ20MA	FXLQ25MA	FXLQ32MA	FXLQ40MA	FXLQ50MA	FXLQ63MA
ı	1	Long life replacement filter	KAFJ3	61K28	KAFJ3	61K45	KAFJ3	861K71

Concealed Floor Standing Type

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

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

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		BYFQ60B3W1				
2	Replacement long-life fil	lter	KAFQ441BA60				
3	Fresh air intake kit	Direct installation type		KDDQ44	1XA60		
4	Sealing material for air of	lischarge outlet		KDBH44	1BA60		
5	Panel spacer			KDBQ44	BA60A		

Slim Ceiling Mounted Duct Type

No.	Item Type	FDXS25C	FDXS35C	FDXS50C	FDXS60C
1	Insulation kit for high humidity		KDT25N50		KDT25N63

Wall Mounted Type

No.	Type	CTXG25P CTXG35P CTXG50P	FTXS20K(A) FTXS25K(A) FTXS35K(A)
1	Titanium apatite deodorising filter	KAF9	70A46
2	Dust collection filter (PM 2.5) with frame	BAFP046A42	-
3	Dust collection filter (PM 2.5) without frame	BAFP046A41	-

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	KHRP2	6A22T

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	KDDN26A4	KDDN26A8	KDDN26A12	KDDN26A16		

Control Systems

Operation Control System Optional Accessories

For VRV indoor unit use



No.	Type		FXFSQ-A	FXFQ-P	FXZQ-A2	FXUQ-A	FXCQ-M	FXEQ-A	FXDQ-T	FXDQ-PD FXDQ-ND
1	Remote Wireless		BRC7M634F (Fresh White) / BRC7M634K (Black)	BRC7F634F	BRC7F530W	BRC7CB58	BRC7C62	BRC4M61	BRC	4C65
2	"Nav Ease" (Wired re	mote controller)	BRC1E63 Note 6	BRC1E	63 _{Note 7}	BRC1E63 Note 6,7	BRC1E63	BRC1F61	BRC1E	63 Note 7
3	Simplified remote controller (Exposed type)				-	_			BRC	2C51
4	Remote controller for ho	otel use (Concealed type)	_						BRC	3A61
5	Adaptor for wiring		★KRP1C11A	★KRP1C63	★KRP1BA57	_	★KRP1B61	_	★KRP1C64	★KRP1B56
6-1	Wiring adaptor for ele	ectrical appendices (1)	_	★KRP2A62	★KRP2A526	_	★KRP2A61	_	★KRP2A61	★KRP2A53
6-2	Wiring adaptor for ele	ectrical appendices (2)		★KRP4AA53 ★K			★KRP4AA51	_	★ KRP4AA51	★KRP4A54
7	Remote sensor (for in	ndoor temperature)	KRCS01-5B		BRCS01A-4		BRCS01A-1	BRCS	01A-4	BRCS01A-1
8	Installation box for adaptor PCB 🕏		Note 2, 3 KRP1H98A	Note 2, 3 KRP1H98	Note 4, 5 KRP1BA101	KRP1BA97	Note 2, 3 KRP1B96	-	BRP9A90	Note 4, 5 KRP1BA101
9	External control adaptor for outdoor unit		*DTA104A62 —		_	★DTA104A61	-	★DTA104A61	★DTA104A53	
10	Adaptor for multi tenant		7	*DTA114A61 —			_			
11	Multi tenancy kit				-	_			KRP114A3 Note 2	_

No.	Item	Туре	FXDYQ-M(A)	FXSQ-PA	FXMQ-PA	FXMQ-P	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA
1	Remote controller	Wireless	BRC4C62	BRC4C65	BRC4	4C65	BRC7EA63W	BRC7EA618	BRC4C62
2	"Nav Ease" (Wired re	mote controller)		BRC1E63 Note 7	,		BRC	1E63	
3	Simplified remote co	ntroller (Exposed type)		BRC	2C51		-	_	BRC2C51
4	Remote controller for hotel use (Concealed type)			BRC3A61			-	BRC3A61	
5	Adaptor for wiring		KRP1B61	★KRF	P1C64	★KRP1C67	KRP1BA54	_	KRP1B61
6-1	Wiring adaptor for ele	ectrical appendices (1)	KRP2A61	★KRF	P2A61	★KRP2A62	★KRP2A62	★KRP2A61	KRP2A61
6-2	Wiring adaptor for ele	ectrical appendices (2)	KRP4AA51	★KRP	4AA51	★ KRP4AA52	★KRP4AA52	★KRP4AA51	KRP4AA51
7	Remote sensor (for in	ndoor temperature)	BRCS01A-1	CS01A-1 BRCS01A-4					
8	Installation box for adaptor PCB ☆		_	Note 2, 3 KRP4A98	Note 2, 3 KRP4A97	BRP9A90	Note 3 KRP1CA93	Note 2, 3 KRP4AA93	_
9	External control adaptor for outdoor unit		DTA104A61	★DTA1	04A61	_	★DTA104A62	★DTA104A61	DTA104A61
10	Adaptor for multi tenant		-	_ ★ DTA1		14A61	_	★DTA114A61	_

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.
 Installation box☆ is necessary for each adaptor.

6. Some function can be set only via wired remote controller BRC1E63. Cannot be set via other remote controllers. Please refer to page 112 for function list details.
7. Auto airflow rate can be set only via wired remote controller BRC1E63. Cannot be set via other remote controllers.

8. Only one adaptor can be fixed for installation box.

Control Systems

Operation Control System Optional Accessories

For residential indoor unit use

No.	Type		FFQ-B	FDXS-C	CTXG-P FTXS-K(A)	
1	Remote controller Wired Note 1		BRC1E63	BRC944B2 Note 2		
'	hemote controller	Wireless	BRC7E530W		_ Note 3	
2	Wired remote	Length 3 m (shielded wire)	-	BRCW	901A03	
	controller cord	Length 8 m (shielded wire)	-	BRCW	901A08	
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 i	ndoor temperature)	BRCS01A-1		_	
7	Wiring adaptor for time clock/remote controller Note 5 (Normal open pulse contact/normal open contact)		_	KRP41	I3AB1S	
8	Remote controller lo	ss prevention chain	_	KKF917A4 KKF910A4		
9	Interface adaptor for DIII-NET use		DTA112BA51	KRP928BB2S		

- Note: 1. Wiring for wired remote controller should be obtained locally.

 2. 3 m (BRCW901A03) or 8 m (BRCW901A08) length wired remote controller cord is necessary.

 3. A wireless remote controller is a standard accessory for FDXS, CTXG 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	Adaptors required to connect products other than those of the VAV S	
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	inclained on the product and to 50 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 \star adaptor must be obtained locally.

- For residential use only. Cannot be used with other centralised control equipment.
 No adaptor is required for some indoor units.

Building Management System

No.	Item				Model No.	Function
1	intelligent Touch	Basic	Hardware	intelligent Touch Controller	DCS601C51	Air-Conditioning management system that can be controlled by a compact all-in-one unit.
1-1	Controller	Option Hardwar		DIII-NET plus adaptor	DCS601A52	Additional 64 groups (10 outdoor units) is possible.
1-2	Electrical box wit	th earth t	erminal (4 b	locks)	KJB411A	Wall embedded switch box.
2		Basic	Hardware	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 Smart Phone Control System for residence
2-7		Hardware	*1 SVM series	SVMPC2	• VRV Smart Phone Remote Controller for building	
2-8					*5 SVMPS1	Tenant Billing System with PPD
2-9	VRV Smart Phon	e Contro	l System		SVMPR1	• VRV Smart Phone Control System for residence with DTA116A51.
2-10	VRV Tablet Cont	roller			SVMPC1	• VRV Tablet Controller for small size building with DTA116A51.
2-11	Di unit				DEC101A51	8 pairs based on a pair of ON/OFF input and abnormality input.
2-12	Dio unit				DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input.
3		*2 Interf	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	l DIII board		DAM411B51	Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.
3-2	Communication	Optiona	l Di board		DAM412B51	Expansion kit, installed on DMS502B51, to provide 16 more wattmeted pulse input points. Not usable independently.
4	interface	*3 Interface for use		in LONWORKS®	DMS504B51	Interface unit to allow communications between <i>VRV</i> and BMS. Operation and monitoring of air-conditioning systems through LonWorks® communication.
5		*6 Modbus Communication Adaptor		DTA116A51	Use of the Modbus protocol enables the connection of the VRV system with a variety of Modbus communication systems from other manufacturers.	
5-1		Mounting plate		BKS26A	• When installing DTA116A51 into outdoor units of 14 class or larger.	
6	Contact/ analogue signal	Unificat	ion adaptor	for computerised	★ DCS302A52	Interface between the central monitoring board and central control units.

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

 *2. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

 *3. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.

 *4. Installation box for★ adaptor must be obtained locally.

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

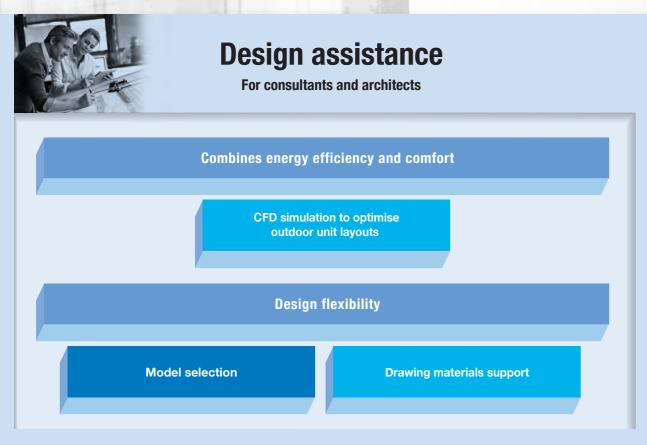
 *6. Cannot apply for VRV R series.

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).







- 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 the trademark of Daikin Industries, Ltd., which is derived from the technology we call "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."