

VRV-0318-A

Cooling Only 50 Hz R-410A



Exceeding Boundari Innovative Energy Sa



First launched in Japan in 1982, the Daikin **VRV** by world markets for over 35 years. Now, Daikin the new **VRV** X and A series. By combining the tec **VRV**, VRT and VAV, we have attained both energy comfortable air conditioning.

VRV+VRT

URV X series / A-series



VRV Xeefiee/Acefiee movie

Energy savings

Uniting **VRV**, VRT and VAV technologies

Automatic refrigerant charge function

- Optimised operation efficiency
- Higher installation quality
- Easier installation

es with vings

system has been embraced proudly introduces hnologies of savings and

+VAV

High reliability

- •New inverter PC board
- Double backup operation
- •Refrigerant cooling for PC board

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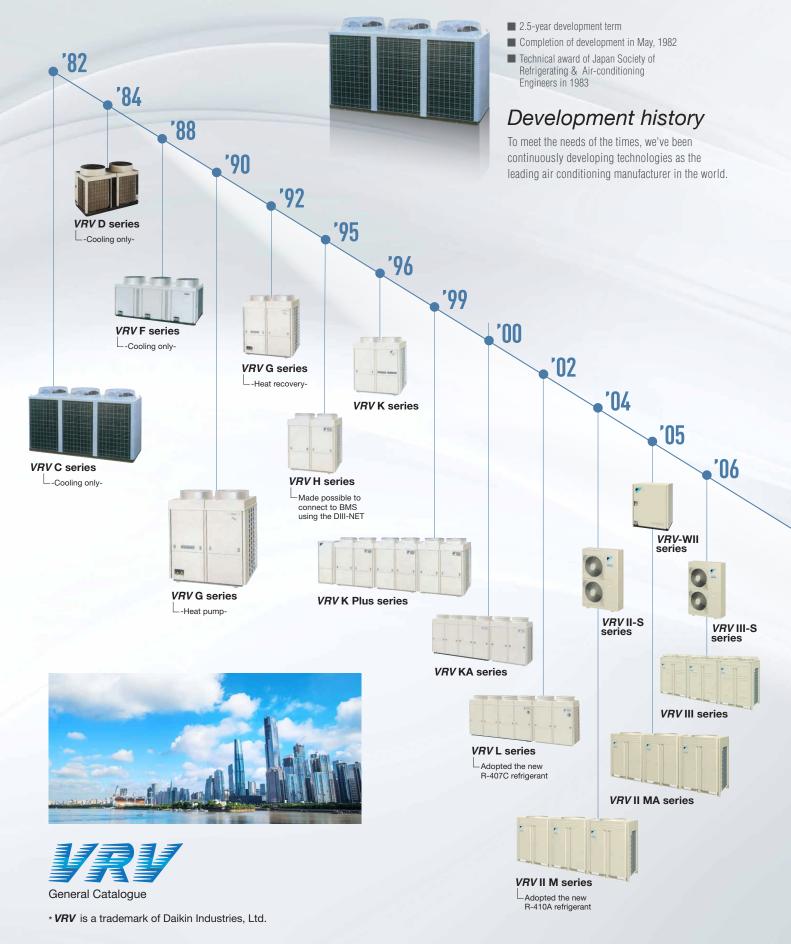
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* VRV is a trademark of Daikin Industries, Ltd.

The 1st Generation

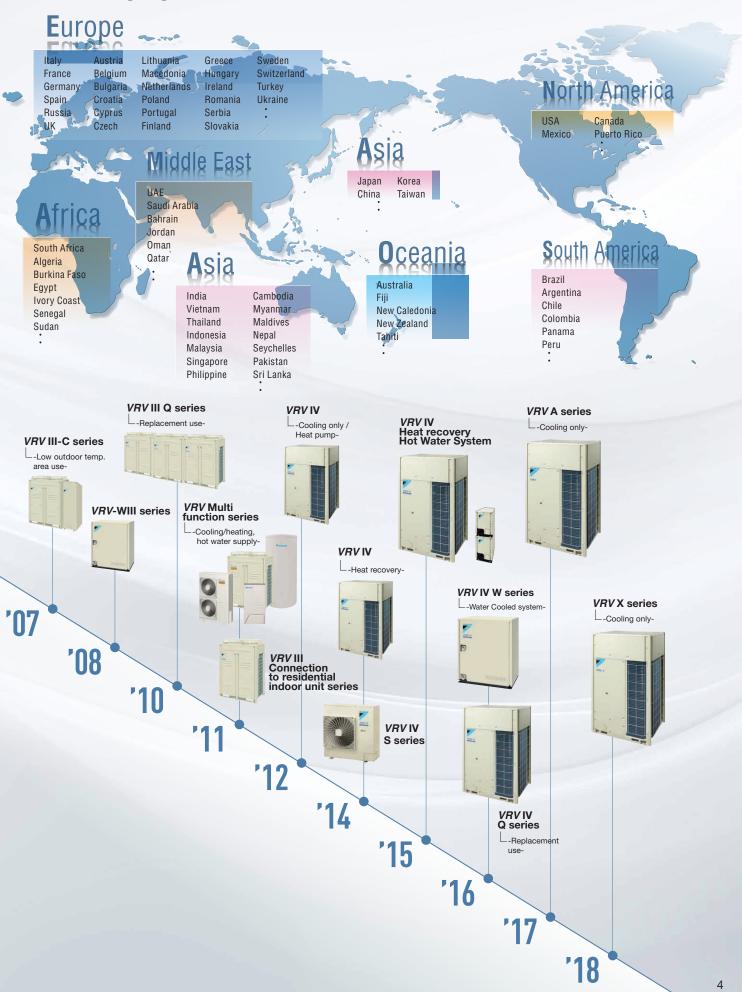
VRV series released in 1982

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



Expansion of the country of sale

Sales is undergoing in more than 70 countries



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.

Software Technology

VRT Smart Control

Refrigerant Control

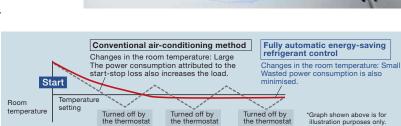
Energy saving & comfortable environment

For property

OWNERS

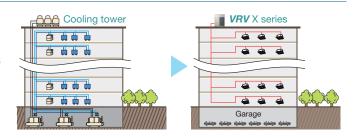
Based on the idea of using only as much space as absolutely required, Daikin first launched its commercial multi-split air conditioning systems in 1982. Since then, customers have benefitted from much increased energy efficiency. Now, our revolutionary new systems dramatically reduce energy with VRT 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

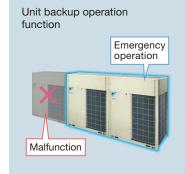
Daikin **VRV** outdoor unit goes beyond just highly reliable compressors with a backup system that ensures continued operation.

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.



Compressor backup operation function





For

Comfortable environment

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

Residential Indoor Units

CONSULTANT

OFFICES

and DESIGN

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

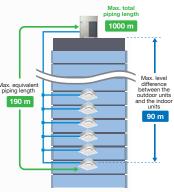




Varied lineup of models

System applications range from family residences to large commercial buildings. With 26 types of indoor unit 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.

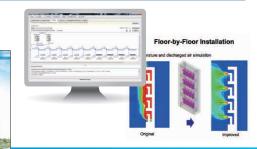
Compatible with engineering software

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.







Automatic Refrigerant Charge Function

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and the closing of shut-off valves by simply pressing a switch after pre-charging. Simplified installation eliminates excessive and insufficient refrigerant charge amounts due to calculation mistakes, and this has led to higher installation quality.

Lightweight and compact large-capacity single units

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

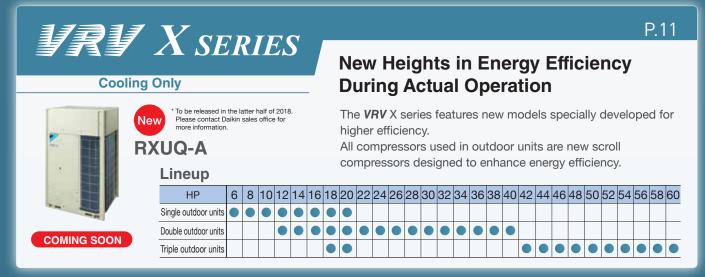
Simple piping, easy wiring



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

Wide variety of series models to supply total air solutions

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



YRY A series



Achieves space saving & excellent performance to meet the needs in various buildings

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

P.29

P.45

Enicup																												
HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
Single outdoor units																												
Double outdoor units																												
Triple outdoor units																												

YRY IV S series

Linoun

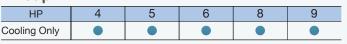
Cooling Only

RXMQ-A

Especially designed for residential houses, small offices and shops

VRV IV S series 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 5 models to suit your needs.

Lineup



YRY IV Q series

RQQ-T

Lineup

Cooling Only

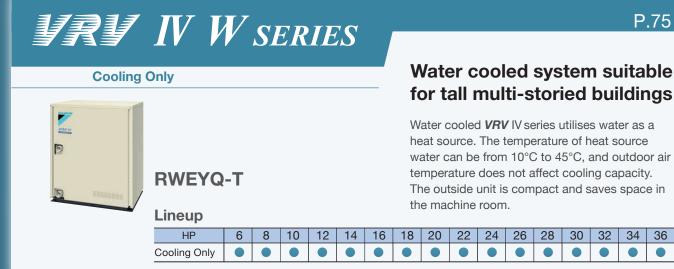


For quick & high quality	
replacement use	

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

This minimises inconveniences to activities and users in the building.

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





Cooling Only

RWHQ-T



P.95 Comfortable air conditioning

and energy-efficient hot water heating

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

Lineup

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

P.55

36

Wide range indoor unit lineup creating

VRV indoor units

			00	05	00	10	50	00		0.0	100	105	110	000		New I	
Туре	Model Name	Capacity Range	20 0.8 HP	25 1 HP	32 1 25 HP	40 1.6 HP	50 2 HP	63 2.5 HP	71 3 HP	80 3.2 HP	100 4 HP	125 5 HP	140 6 HP	200 8 HP	250 10 HP	400 16 HP	50 20 F
		Capacity Index	20		31.25			62.5	71	80							
Ceiling Mounted Cassette (Round Flow with Sensing)	New FXFSQ-AVM								 				New capacity				
Ceiling Mounted Cassette (Round Flow)	New FXFQ-AVM								- 				New capacity		 		1
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE								 			1 1 1 1 1 1				1 1 1 1 1	
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE								 							1 1 1 1	1
Ceiling Mounted Cassette Corner	FXKQ-MAVE						- - - - - - - - - - - - - - - - - - -		 								1
	FXDQ-PDVE (with drain pump)						1	1 1 1 1	1	1		1	1		1	1	
Slim Ceiling	New FXDQ-PDVET (without drain pump)	(700mm width type)					1		1	1		1	1		 	1 1 1	
Mounted Duct (Standard Series)	(with drain pump)									1 1 1 1		1	 		 	1 1 1	
	(with drain pump)	(900 / 1,100mm width type)			 				 	- - - - -		- - - - -				- - - - - -	1
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1																
Viddle Static	New FXSQ-PAVE																
Ceiling Mounted	New FXMQ-PAVE								 						1	1	1
Duct	FXMQ-MVE9			1	I I I I		 	1 1 1 1	 	1 1 1		 	1			1 1 1 1	
Outdoor-Air Processing Unit	FXMQ-MFV1				 		 	1 1 1 1 1	 							I I I I I I	
4-Way Flow Ceiling Suspended	FXUQ-AVEB						 										
Ceiling Suspended	FXHQ-MAVE	-					 		 								
Wall Mounted	FXAQ-PVE								1 1 1 1 1 1								
Floor Standing	FXLQ-MAVE																1
Concealed Floor Standing	FXNQ-MAVE								 	1 1 1 1 1 1		- - - - - - - - - - - - - - - - - - -	 		 	 	
Floor Standing	FXVQ-NY1				 		1	1 1 1 1	1 1 1 1	1			1				
Duct	FXVQ-NY16 (high static pressure type)				 		 		 				 		 		
Clean Room	FXBQ-PVE																
Air Conditioner	FXBPQ-PVE						1 1 1 1		 						1		
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Airf	flow	rate	500-	1000	m³/h	1						!		
Heat Reclaim Ventilator	VAM-GJVE	001	Airf	low	rate	150-2	2000	m³/h	1								
Air Handling Unit	AHUR														6–120	нр	

various comfortable airflow

Residential indoor units with connection to BP units

			25	35	50	60	71
Туре	Model Name			3.5	5.0		
		Capacity Index		35	50	60	71
Slim Ceiling Mounted Duct	FDKS-EAVMB	(700 mm width type)			1 1 1 1 1 1		1 1 1 1 1 1
Mounted Duct	FDKS-C(A)VMB	(900/1,100 mm width type)					1 1 1 1 1 1
	FTKJ-NVMMW						1 1 1 1 1
	FTKJ-NVMMS						1 1 1 1 1
Wall Mounted	FTKS-DVM						1 1 1 1 1 1
	FTKS-BVMA						
	FTKS-FVM						

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



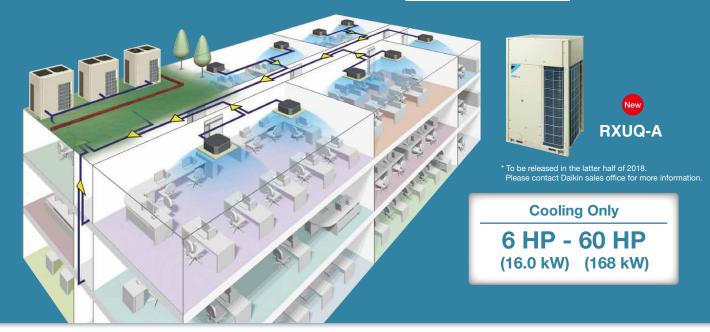






VRV X SERIES

New Heights in Energy



Greater energy savings during low-load operation

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

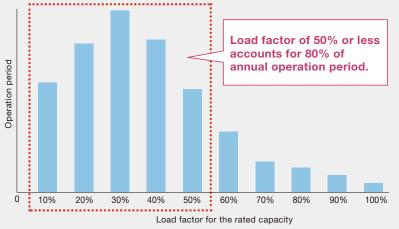
Using data gathered from actual operation, Daikin discovered that air conditioning systems operate at a load factor of 50% or less for 80% of their annual operation period.

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

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

•Correlation between the load factor for the rated capacity and operation time (in office buildings in Singapore)

According to a survey by Daikin (based on Air Conditioning Network Service System data)



Higher Coefficient of Performance (COP) COP for 10 HP 8.84_8.42_8.19 9 Cooling Operation COP 8 7.37 7 6.43 5.69 6 5.08 5 4.45 4 3 0 30% 40% 50% 60% 70% 80% 90% 100% Load



* Simulation conditions :

- · Location : Bangkok, Thailand
- System : Outdoor unit (10 HP) x 1
 Indoor unit (2 HP, Round Flow with Sensing type) x 5 Operation time : 8:00-20:00 5 days/week
- Outdoor units :
- New model : RXUQ10A (VRV X series) Conventional model : RXQ10T (VRV IV)

VRV IV (RXQ10T)

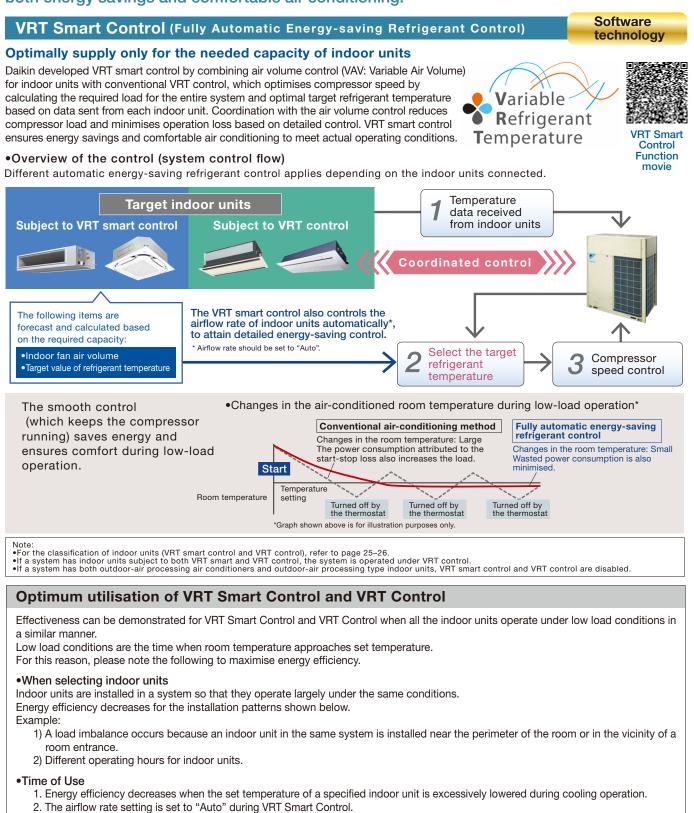
VRV X series

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

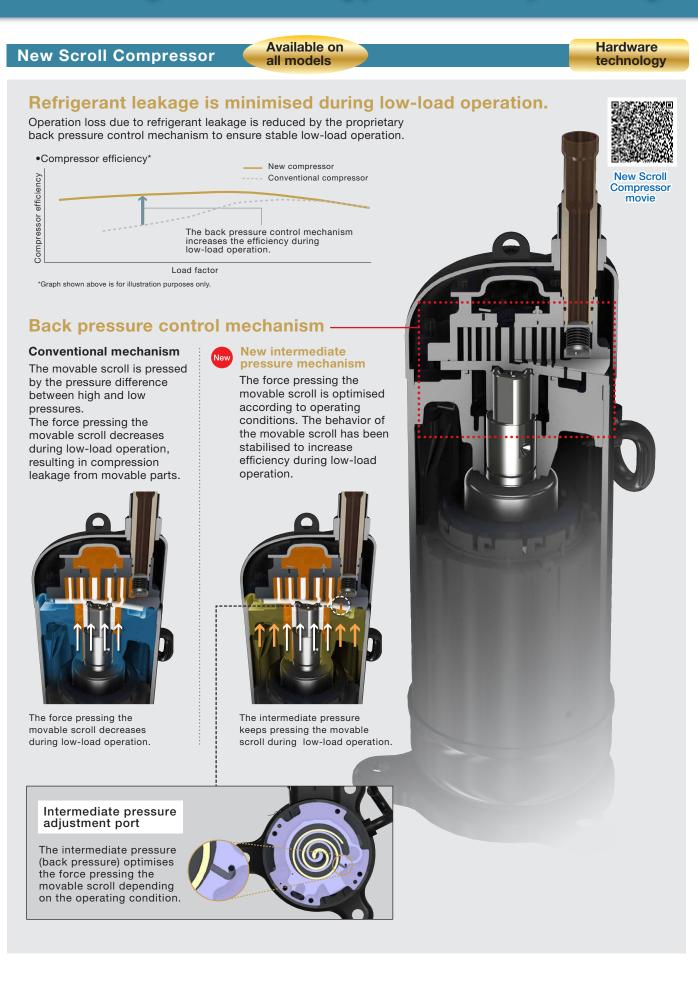
VRV X series

Advanced technologies for greater energy savings VRV+VRT+VA

By uniting advanced **software** and **hardware** technologies for greater energy savings during actual operation and combining the technologies of *VRV*, VRT and VAV, we have attained both energy savings and comfortable air conditioning.



New Heights in Energy Efficiency During





Advanced oil temperature control

Standby power consumption is reduced

The advanced oil temperature control reduces standby power consumption by up to 65.4%* 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.

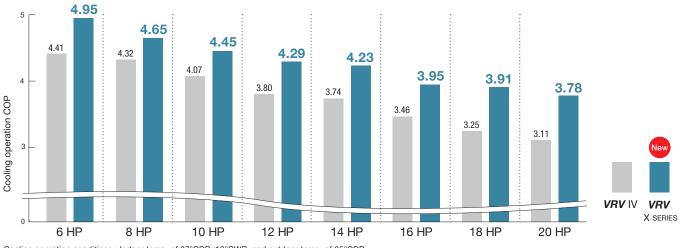
* Operation calculation conditions: VRV X series 14 HP

Location: Singapore

Operation time: 08:00-18:00 on weekdays

Higher efficiency is provided during rated operation.

COP at 100% operation load



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

Extensive product lineup

•The VRV X series achieves higher efficiency in a design that is more compact and lightweight than the VRV IV High-COP type, and the capacity of the lineup has been further expanded. (12 HP-50 HP \rightarrow 6 HP-60 HP)

	VRV IV High-COP type (18HP)	New URU X SERIES (18 HP)	
	COP 4.40	► 4.54 3% Increase	
	Installation space 2.13 m ²	1.66 m ² 22% Decrease	
2,790 mm 765 mm	Product weight 555 kg 💻	► 400 kg 28% Decrease	2,170 mm 765 mm

Lineup																											Ne	əw lir	neup
HP)	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
	Single outdoor units								•																				
VRV X SERIES	Double outdoor units																												
	Triple outdoor units																												

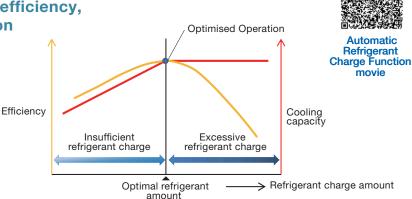
Excellent Operational Performance

Automatic refrigerant charge function

Contribute to optimised operation efficiency, higher quality and easier installation

Optimised operation efficiency

The automatic refrigerant charge function automatically determines the optimal amount of refrigerant to be charged. This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



Higher quality and easier installation

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and the closing of shut-off valves by simply pressing a switch after pre-charging.

Simplified installation eliminates excessive and insufficient refrigerant charge amounts due to calculation mistakes, and this has led to higher installation quality.

VRV IV 1 2 3 5 Regularly check refrigerant **Recalculate** refrigerant Charge refrigerant Complete by manually Calculate necessary refrigerant amount from amount from final weight on weighing scale closing valves when proper design drawing installation drawing weight is reached **VRV** X series

2 3 Automatic completion by proper refrigerant amount Calculation of necessary Pre-charge of refrigerant* Start of automatic refrigerant amount from refrigerant charge operation Monitoring refrigerant charging is design drawing unnecessary No recalculation of charge amounts due to minor design changes locally *Pre-charge amount changes according to conditions, and pre-charging is unnecessary when necessary refrigerant

Even if a refrigerant leak occurs from local piping after installation, the proper refrigerant amount can still be charged without needing to calculate the necessary amount.

Starting the automatic refrigerant charge operation again will ensure that optimum operation efficiency and installation quality are maintained.

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 downsizing.

- 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 continues.
- Durability of the inverter printed circuit board improved by changing the electrolytic capacitors for the compressor to film capacitors.

Conventional inverter

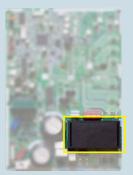
amount is 4 kg and under.

Please refer to Engineering Data Book for details.



Electrolytic capacitors

New inverter PC board



Film capacitor

VRV X SERIES

Comfort Low operation sound

High efficiency heat exchanger helps to achieve low operation sound.

			Sour	nd level (dB(A))
	6 HP	8/10 HP	12 HP	14/16 HP
VRV X SERIES	54	56	58	59

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.

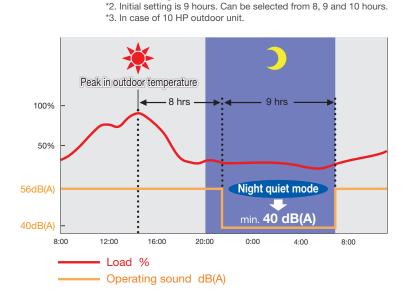
Streamlined air grille It promotes the discharge of swirling airflow, further reducing the pressure loss.

Nighttime quiet operation function

For areas where there are stringent limitations to sound levels, the outdoor unit sound level can be reduced during the nighttime, to meet the requirement.

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.



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.

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



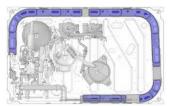
Refined Design Meets Advanced

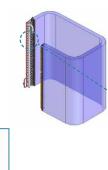
Realising compact technology with performance

Highly integrated heat exchanger

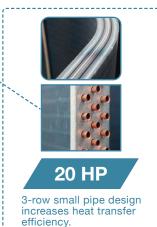
The unique 4-sided all round heat exchanger ensure sufficient surface area for the heat exchanger. This improves the heat exchanger performance without increasing the footprint.

4-sided heat exchanger





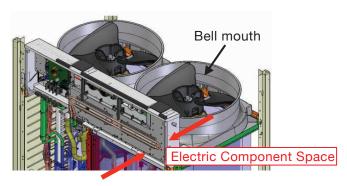
Waffle Fin A waffled-shaped fin with fin pitch of 1.4 mm was adopted to realise sufficient heat exchanger area for optimum unit efficiency. High efficiency heat exchanger is realised by reducing airflow resistance with adoption of small cooling tubes with a diameter of Φ 7.





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

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.

Electrical component



Technologies

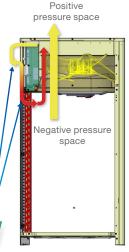


Sufficient cooling for electrical component

The **VRV** X 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

igh pressure



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.

Even negative pressure space	

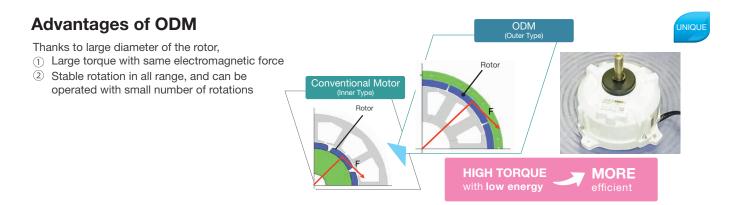
High reliability at high ambient temperature

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.



Outer Rotor DC Motor (ODM)

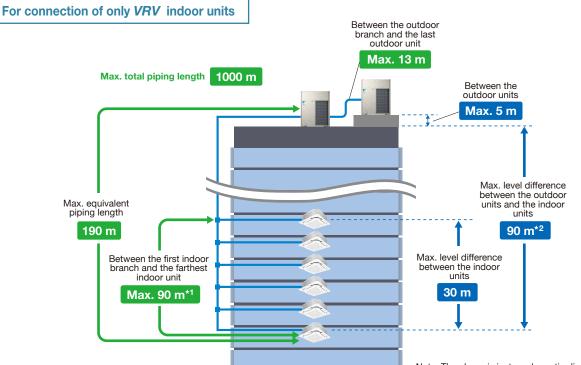
Only Daikin has adapted an ODM with the feature of stable rotation and volumetric efficiency.



Flexible System Design

More options for installation location Long piping length

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



Note: I	he abo	ove is	just a	schematic	diagram.	

	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 X 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%-20	0%

Connection ratio = Total capacity index of the indoor units

Capacity index of the outdoor units

Conditions of VRV indoor unit connection capacity

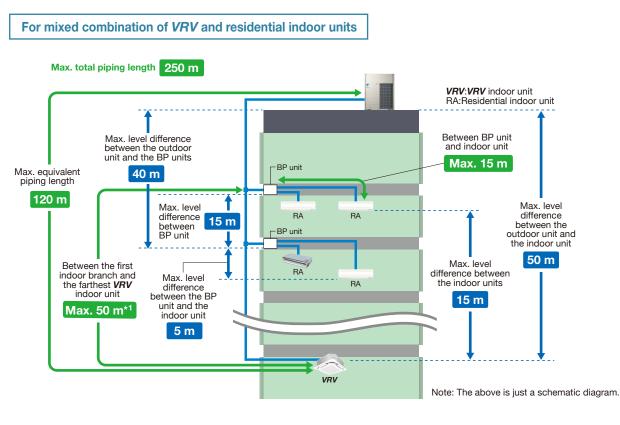
Applicable VRV indoor units	FXDQ, FXSQ, FXMQ-PA, FXAQ, FXB(P)Q models	Other VRV indoor unit models*1
Single outdoor units		200%
Double outdoor units	200%	160%
Triple outdoor units		130%

*1 For the FXF(S)Q25 and FXVQ models, maximum connection ratio is 130% for the entire range of outdoor units.

Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.

*Refer to page 24 for outdoor unit combination details.

VRV X series



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

	Actual piping length (Equiv	/alent)	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					
Maximum allowable level difference		ranch and the farthest BP unit or ranch and the farthest VRV indoor unit	50 m*1					
	Between outdoor unit and	5 m						
	Between the indoor units	Between the indoor units						
	Between BP units		15 m					
	Between the outdoor unit	If the outdoor unit is above.	50 m					
	and the indoor unit	If the outdoor unit is below.	40 m					
	Between the outdoor unit	and the BP unit	40 m					
	Between the BP unit and t	he indoor unit	5 m					

*1. If the piping length between the first indoor branch and BP unit or VRV indoor unit is over 20 m, it is necessary to increase the gas and liquid piping size between the first indoor branch and BP unit or VRV indoor unit. If the piping diameter of the sized up piping exceeds the diameter of the piping before the first indoor branch kit, then the latter also requires a liquid piping and gas piping size up. Please refer to Engineering Data Book for details.

*When a mixed combination of *VRV* and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 50% to 130%. Refer to page 24 for outdoor unit combination details.

High external static pressure

VRV X 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.



opening/angle of louvre
Outstanding heat dissipation effect in both hierarchical and intensive arrangement



Reliable and Stable System

More accurate test operation and stable system

Efficient automatic test operation

Daikin VRV X 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.
- Confirms piping length to optimise operation.
- Automatically checks whether the stop valve in each outdoor unit is in normal status to ensure the smooth operation of air conditioning system.

Simplified commissioning and after-sales service

Function of information display by luminous digital tube

VRV X 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.



SMT packaging material

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

Conventional LED display

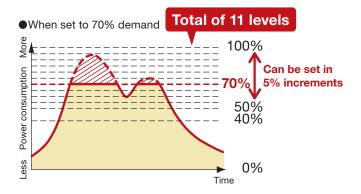
Advanced control main PC board

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.

I-demand function

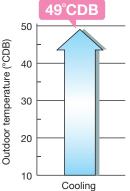
Limit to power consumption can be set precisely to one of 11 levels. Peak power cut-off can be accomplished according to each user situation. *Set on the circuit board of the outdoor unit.



Computer control board *SMT: Surface mounted technology Wide operation temperature

range up to 49°C The versatile operation range of the VRV X 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.



Computer control board surface adopting SMT

packaging technology

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



Automatic check



Automatic sequencing operation

During start-up, Daikin VRV X 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 1Stage 2Stage 3



Double backup operation functions

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

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

Unit backup operation function

If one of the unit in a multiple outdoor system malfunctions, the other outdoor units provide emergency operation until repairs can be made. * For systems composed of two or more outdoor units. Malfunction

Compressor backup operation function

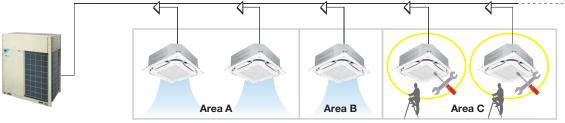
The outdoor unit is equipped with two compressors. Even if one compressor malfunctions, the other compressor provides emergency operation, reducing the risk of air conditioning shutdown due to compressor failure. (The capacity is saved during backup operation.)

* For a single outdoor unit system RXUQ14-20AYM models. On-site settings are required using the printed circuit board of the outdoor unit.



Ease of Maintenance

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



* Field setting is required.

This feature does not apply to residential indoor unit connection and is not applicable for all situations. For more information, please contact Daikin sales office.

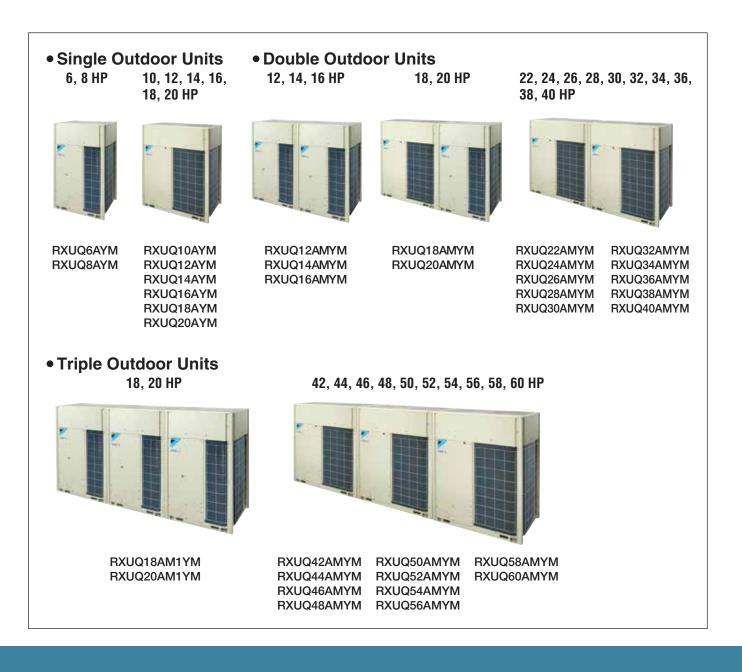
Outdoor Unit Lineup

VRV X Series Outdoor Units 😡 COMING SOON

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

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

Lineup																											N	ew lir	neup
HP)	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
	Single outdoor units		•						•																				
VRV X SERIES	Double outdoor units																												
	Triple outdoor units																												





VRV X series

Outdoor Unit Combinations

For connection of VRV indoor units

HP	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 HP	16.0	150	RXUQ6A	RXUQ6A	-	75 to 195 (300)	9 (15)
8 HP	22.4	200	RXUQ8A	RXUQ8A	-	100 to 260 (400)	13 (20)
10 HP	28.0	250	RXUQ10A	RXUQ10A	-	125 to 325 (500)	16 (25)
12 HP	33.5	300	RXUQ12A	RXUQ12A	-	150 to 390 (600)	19 (30)
14 HP	40.0	350	RXUQ14A	RXUQ14A	-	175 to 455 (700)	22 (35)
16 HP	45.0	400	RXUQ16A	RXUQ16A	-	200 to 520 (800)	26 (40)
18 HP	50.0	450	RXUQ18A	RXUQ18A	-	225 to 585 (900)	29 (45)
20 HP	56.0	500	RXUQ20A	RXUQ20A	-	250 to 650 (1,000)	32 (50)
12 HP	32.0	300	RXUQ12AM	RXUQ6A + RXUQ6A		150 to 390 (480)	19 (24)
14 HP	38.4	350	RXUQ14AM	RXUQ6A + RXUQ8A		175 to 455 (560)	22 (28)
16 HP	44.8	400	RXUQ16AM	RXUQ8A + RXUQ8A	BHFP22P100	200 to 520 (640)	26 (32)
18 HP	50.4	450	RXUQ18AM	RXUQ8A + RXUQ10A		225 to 585 (720)	29 (36)
20 HP	55.9	500	RXUQ20AM	RXUQ8A + RXUQ12A		250 to 650 (800)	32 (40)
18 HP	48.0	450	RXUQ18AM1	RXUQ6A × 3	BHFP22P151	225 to 585 (585)	29 (29)
20 HP	54.4	500	RXUQ20AM1	RXUQ6A × 2 + RXUQ8A		250 to 650 (650)	32 (32)
22 HP	61.5	550	RXUQ22AM	RXUQ10A + RXUQ12A		275 to 715 (880)	35 (44)
24 HP	67.0	600	RXUQ24AM	RXUQ12A × 2		300 to 780 (960)	39 (48)
26 HP	73.5	650	RXUQ26AM	RXUQ12A + RXUQ14A		325 to 845 (1,040)	42 (52)
28 HP	78.5	700	RXUQ28AM	RXUQ12A + RXUQ16A		350 to 910 (1,120)	45 (56)
30 HP	83.5	750	RXUQ30AM	RXUQ12A + RXUQ18A	BHFP22P100	375 to 975 (1,200)	48 (60)
32 HP	89.5	800	RXUQ32AM	RXUQ12A + RXUQ20A		400 to 1,040 (1,280)	52 (64)
34 HP	96.0	850	RXUQ34AM	RXUQ14A + RXUQ20A		425 to 1,105 (1,360)	55 (64)
36 HP	101	900	RXUQ36AM	RXUQ16A + RXUQ20A		450 to 1,170 (1,440)	58 (64)
38 HP	106	950	RXUQ38AM	RXUQ18A + RXUQ20A		475 to 1,235 (1,520)	61 (64)
40 HP	112	1,000	RXUQ40AM	RXUQ20A × 2		500 to 1,300 (1,600)	64 (64)
42 HP	117	1,050	RXUQ42AM	RXUQ12A × 2 + RXUQ18A		525 to 1,365 (1,365)	
44 HP	123	1,100	RXUQ44AM	RXUQ12A × 2 + RXUQ20A		550 to 1,430 (1,430)	
46 HP	130	1,150	RXUQ46AM	RXUQ12A + RXUQ14A + RXUQ20A		575 to 1,495 (1,495)	
48 HP	135	1,200	RXUQ48AM	RXUQ12A + RXUQ16A+ RXUQ20A		600 to 1,560 (1,560)]
50 HP	140	1,250	RXUQ50AM	RXUQ12A + RXUQ18A + RXUQ20A	BHFP22P151	625 to 1,625 (1,625)	
52 HP	146	1,300	RXUQ52AM	RXUQ12A + RXUQ20A × 2		650 to 1,690 (1,690)	64 (64)
54 HP	152	1,350	RXUQ54AM	RXUQ14A + RXUQ20A × 2]	675 to 1,755 (1,755)]
56 HP	157	1,400	RXUQ56AM	RXUQ16A + RXUQ20A × 2]	700 to 1,820 (1,820)	1
58 HP	162	1,450	RXUQ58AM	RXUQ18A + RXUQ20A × 2]	725 to 1,885 (1,885)]
60 HP	168	1,500	RXUQ60AM	RXUQ20A × 3	1	750 to 1,950 (1,950)	1

Note: *1. For multiple connection, 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 19 for notes on connection capacity of indoor units.

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

				Total capacity index of connectable indoor units ²				
Model name ^{*1}	kW	HP	Capacity index		Combination (%) ^{"2}	Maximum number of connectable indoor units		
			indox	50%	100%	130%		
RXUQ6AYM	16.0	6	150	75	150	195	9	
RXUQ8AYM	22.4	8	200	100	200	260	13	
RXUQ10AYM	28.0	10	250	125	250	325	16	
RXUQ12AYM	33.5	12	300	150	300	390	19	
RXUQ14AYM	40.0	14	350	175	350	455	22	
RXUQ16AYM	45.0	16	400	200	400	520	26	
RXUQ18AYM	50.0	18	450	225	450	585	29	
RXUQ20AYM	56.0	20	500	250	500	650	32	

Note: *1. Only single outdoor unit (RXUQ6-20AYM) can be connected.

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

Indoor Unit Lineup

Enhanced range of choices

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

VRV indoor units			,	w line		VR	art V	RT sn	nart c			VRT control					
Туре	Model Name	Capacity Range	20	25 1 HP	32 1 25 HP	40 1.6 HP	50 2 HP	63 2.5 HP	71 3 HP	80 3.2 HP	100 4 нр	125 5 HP		200 8 HP	250 10 HP	400 16 HP	+
		Capacity Index			31.25		50	62.5		80	100	125		200		400	
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVM	Tart 6							 				New capacity				
Ceiling Mounted Cassette (Round Flow)	FXFQ-AVM	Tart 🧑							 				New capacity			1 1 1 1 1	
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE	RT							- 		 						
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE								 		 						
Ceiling Mounted Cassette Corner	FXKQ-MAVE						 		 		 				 	 	
N		Tart					1 1 1 1 1		1 1 1 1 1								
Slim Ceiling Mounted Duct		T (700mm width type)					 		 	 	 				 	1 1 1 1	
(Standard Series)	(with drain pump)	Tart Sart		1	1					1							1
N	(without drain pump)	(900 / 1,100mm width type)														
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1 V	RT							- 								
Middle Static Pressure Ceiling Mounted Duct	W FXSQ-PAVE	Tart							 								
Ceiling Mounted	FXMQ-PAVE	Tart							1						1	1	1
Duct		RT		1 1 1 1	 		1 1 1 1	1 1 1 1	 	1 1 1 1	 	 	1 1 1 1			 	
Outdoor-Air Processing Unit	FXMQ-MFV1			 			1 		1 		1 1 1 1 1 1						
4-Way Flow Ceiling Suspended	FXUQ-AVEB V	RT			 		- 										
Ceiling Suspended	FXHQ-MAVE V	RT					 		 								
Wall Mounted	FXAQ-PVE V	RT															
Floor Standing	FXLQ-MAVE V	RT							 		 						
Concealed Floor Standing	FXNQ-MAVE V	RT							 		 						
	FXVQ-NY1	RT		1			1		1		1						
Floor Standing Duct	FXVQ-NY16 (high static pressure type)	RT					 		 		 				-		
Clean Room	FXBQ-PVE	RT							1		1					1	
Air Conditioner	FXBPQ-PVE V	RT					1		1		 					1	
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Air	flow	rate	500-	1000	m³/h	1								
Heat Reclaim Ventilator	VAM-GJVE	001	Air	flow	rate	150-2	2000	m³/h	1								
Air Handling Unit	AHUR	1													6–120) HP	

6.0

60

VRV X series

Residential indoor units with connection to BP units Model Name Rated Capacity (kW)

(700 mm width type)

V (900/1,100 mm width type) 25

35

50

Capacity Index

Note: BP units are necessary for residential indoor units. Only single outdoor unit (RXUQ6-20AYM) can be connected.

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

VRV indoor unit only system

FDKS-EAVMB

FTKJ-NVMMW

FTKJ-NVMMS

FTKS-DVM

FTKS-BVMA

FTKS-FVM

FDKS-C(A)VMB VRT

Slim Ceiling

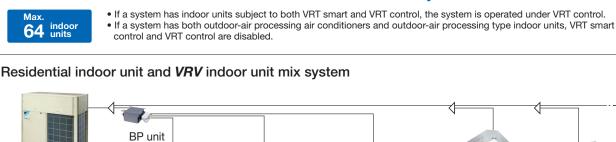
Mounted Duct

Wall

Mounted



• BP units are necessary for residential indoor units. Only single outdoor unit (RXUQ6-20AYM) 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 1 BP unit BP unit Residential indoor units only 32 indoor units • BP units are necessary for residential indoor units. Only single outdoor unit (RXUQ6-20AYM) can be connected. • If a system has only residential indoor units, the system is operated under VRT control.











VRV indoor units



Specifications

VRV X Series Outdoor Units*

RXUQ-A

			11 C 1		BAYM RXUQ10AYM RXUQ12AYM RXUQ14AYM RXUQ16AYM RXUQ18AYM RXUQ20AYM									
MODEL			RXUQ6AYM	RXUQ8AYM	RXUQ10AYM	RXUQ12AYM	RXUQ14AYM	RXUQ16AYM	RXUQ18AYM	RXUQ20AYM				
			-	—	_	—	_	_	—	—				
Combination	units		—	—	—	—	—	_	—	—				
			—	—	—	—	—	—	—	—				
Power supply	у				3-phase 4-w	rire system, 38	0-415 V/380 V,	50 Hz/60 Hz						
Cooling capa	acity	Btu/h	54,600	76,400	95,500	114,000	136,000	154,000	171,000	191,000				
	lolly	kW	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0				
Power consu	Imption	kW	3.23	4.82	6.29	7.81	9.46	11.4	12.8	14.8				
Capacity cor	ntrol	%	23-100	19-100	13-100	12-100	10-100	9-100	8-100	7-100				
Casing colou	ır				•	Ivory white	e (5Y7.5/1)							
Compressor	уре				ŀ	lermetically se	aled scroll type	Э						
N N	lotor output	kW	0.55	5×1			0.75	5×2						
Airflow rate		m³/min	119	17	78	191	21	8	26	68				
Dimensions ((H×W×D)	mm	1,657×9	930×765			1,657×1,	240×765						
Machine wei	ght	kg	18	15	2	15	27	75	29	91				
Sound level		dB(A)	54	5	6	58	5	9	61	65				
Operation ra	nge	°CDB				10 t	o 49							
Refrigerant	Туре				R-410A									
Reingerant	Charge	kg	6.4	6.6	7.1	7.3	8.5	8.6	11	.7				
Piping	Liquid	mm		φ9.5 (Brazing)	·		φ12.7 (Brazing)		φ15.9 (l	Brazing)				
connections	Gas	mm	φ19.1 (E	3razing)	φ22.2 (Brazing)		(þ28.6 (Brazing)					

				RXUQ28AMYM RXUQ30AMYM RXUQ32AMYM RXUQ34AMYM RXUQ36AMYM RXUQ38AMYM RXUQ40AMYM									
MODEL			RXUQ28AMYM	RXUQ30AMYM	RXUQ32AMYM	RXUQ34AMYM	RXUQ36AMYM	RXUQ38AMYM	RXUQ40AMYM	I			
			RXUQ12AYM	RXUQ12AYM	RXUQ12AYM	RXUQ14AYM	RXUQ16AYM	RXUQ18AYM	RXUQ20AYM				
Combination	units		RXUQ16AYM	RXUQ18AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM				
			—	—		<u> </u>			—				
Power supply				3-	phase 4-wire sy	stem, 380-415 V/	/380 V, 50 Hz/60	Hz					
Cooling capao	oity	Btu/h	268,000	285,000	305,000	328,000	345,000	362,000	382,000				
Cooling capac	Sity	kW	78.5	83.5	89.5	96.0	101	106	112	l			
Power consur	mption	kW	19.3	20.6	22.6	24.3	26.3	27.6	29.6				
Capacity cont	trol	%		5-100			4-1	100					
Casing colour	r					vory white (5Y7.5	(1/ز						
Compressor Ty	уре				Herme	etically sealed scr	roll type			I			
Mc	otor output	kW				(0.75×2)+(0.75×2	2)						
Airflow rate		m³/min	191+218	191-	+268	218-	+268	268-	+268				
Dimensions (H	H×W×D)	mm			(1,657×1,2	240×765)+(1,657>	×1,240×765)						
Machine weig	ght	kg	215+275	215+	+291	275+	+291	291-	+291	I			
Sound level		dB(A)	62	63		6	66		68	í			
Operation ran	ige	°CDB				10 to 49				I			
Defrigerent	Туре			R-410A									
Refrigerant	Charge	kg	7.3+8.6	7.3+8.6 7.3+11.7 8.5+11.7 8.6+11.7 11.7+11.7									
Piping	Liquid	mm		φ19.1 (Brazing)									
connections	Gas	mm			φ34.9 (Brazing)			ф41.3 ((Brazing)				

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

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

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions 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. *Preliminary specifications. Subject to change without notice.

VRV X series

COMING SOON

			TI	
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RXUQ12AMYM	RXUQ14AMYM	RXUQ16AMYM	RXUQ18AMYM	RXUQ20AMYM	RXUQ18AM1YM	RXUQ20AM1YM	RXUQ22AMYM	RXUQ24AMYM	RXUQ26AMYM	
RXUQ6AYM	RXUQ6AYM	RXUQ8AYM	RXUQ8AYM	RXUQ8AYM	RXUQ6AYM	RXUQ6AYM	RXUQ10AYM	RXUQ12AYM	RXUQ12AYM	
RXUQ6AYM	RXUQ8AYM	RXUQ8AYM	RXUQ10AYM	RXUQ12AYM	RXUQ6AYM	RXUQ6AYM	RXUQ12AYM	RXUQ12AYM	RXUQ14AYM	
-	—	—	—	—	RXUQ6AYM	RXUQ8AYM	—	—	_	
			3-phase 4-v	vire system, 380	0-415 V/380 V, 5	50 Hz/60 Hz				
109,000	131,000	153,000	172,000	191,000	164,000	186,000	210,000	229,000	251,000	
32.0	38.4	44.8	50.4	55.9	48.0	54.4	61.5	67.0	73.5	
6.46	8.05	9.64	11.1	12.6	9.69	11.3	14.1	15.6	17.3	
11-100	10-100	9-100	8-100	7-100	8-100	7-100	6-1	00	5-100	
Ivory white (5Y7.5/1)										
Hermetically sealed scroll type										
(0.55×1)+(0.55×1) (0.55×1)+(0.75×2) (0.55×1)+(0.55×1)+(0.55×1) (0.75×2)+(0.75×2)										
119+119	119+178	178-	⊦178	178+191	119+119+119	119+119+178	178+191	191+191	191+218	
(1,657×93	0×765)+(1,657×	<930×765)	(1,657×930×765)+	(1,657×1,240×765)	(1,657×930×765)+(1,657×5	930×765)+(1,657×930×765)	(1,657×1,24	0×765)+(1,657>	<1,240×765)	
	185+185		185-	+215	185+18	5+185	215-	+215	215+275	
57	58	5	9	60	59	6	0	61	62	
				10 te	o 49					
				R-4	10A					
6.4+6.4	6.4+6.6	6.6+6.6	6.6+7.1	6.6+7.3	6.4+6.4+6.4	6.4+6.4+6.6	7.1+7.3	7.3+7.3	7.3+8.5	
	φ12.7 (Brazing)					φ19.1 (Brazir				
			ф28.6 (Brazing)				ф34.9 (І	Brazing)	



RXUQ42AMYM	RXUQ44AMYM	RXUQ46AMYM	RXUQ48AMYM	RXUQ50AMYM	RXUQ52AMYM	RXUQ54AMYM	RXUQ56AMYM	RXUQ58AMYM	RXUQ60AMYM
RXUQ12AYM	RXUQ12AYM	RXUQ12AYM	RXUQ12AYM	RXUQ12AYM	RXUQ12AYM	RXUQ14AYM	RXUQ16AYM	RXUQ18AYM	RXUQ20AYM
RXUQ12AYM	RXUQ12AYM	RXUQ14AYM	RXUQ16AYM	RXUQ18AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM
RXUQ18AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM	RXUQ20AYM
			3-phase 4-v	vire system, 380	0-415 V/380 V,	50 Hz/60 Hz			
399,000	420,000	442,000	459,000	476,000	496,000	519,000	536,000	553,000	573,000
117	123	130	135	140	146	152	157	162	168
28.4	30.4	32.1	34.1	35.4	37.4	39.1	41.1	42.4	44.4
3-100 2-100							100		
	Ivory white (5Y7.5/1)								
Hermetically sealed scroll type									
	(0.75×2)+(0.75×2)+(0.75×2)								
191+191+268 191-		191+21	18+268 191+268+268		218+268+268		268+268+268		
(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)									
215+215+291		215+27	275+291 215+2		91+291 275+29		91+291 291+2		91+291
64	66		67		68		69		70
10 to 49									
	R-410A								
7.3+7.3+11.7 7.3+8.5+11		7.3+8.5+11.7	7.3+8.6+11.7 7.3+11.7+11.7		8.5+11.7+11.7 8.6+11.7+11.7		11.7+11.7+11.7		
φ19.1 (Brazing)									
φ41.3 (Brazing)									

VRV A series

Saves Space and



Greater energy savings during low-load operation

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

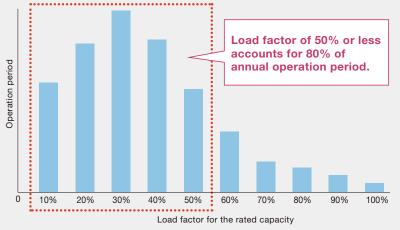
Using data gathered from actual operation, Daikin discovered that air conditioning systems operate at a load factor of 50% or less for 80% of their annual operation period.

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

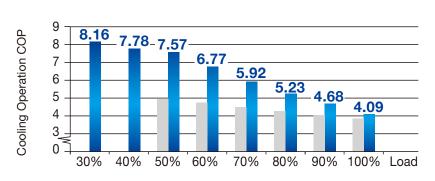
Utilising these technologies, Daikin's new *VRV* A series raises the standard of energy efficiency.

•Correlation between the load factor for the rated capacity and operation time (in office buildings in Singapore)

*According to a survey by Daikin (based on Air Conditioning Network Service System data)



Higher Coefficient of Performance (COP) COP for 10 HP





* Simulation conditions :

- Location : Bangkok, Thailand
- System : Outdoor unit (10 HP) x 1
 Indoor unit (2 HP, Round Flow with Sensing type) x 5
- Operation time : 8:00-20:00 5 days/week
- Outdoor units :
- New model : RXQ10A (*VRV* A series) Conventional model : RXQ10T (*VRV* IV)
 - **VRV** IV (RXQ10T)

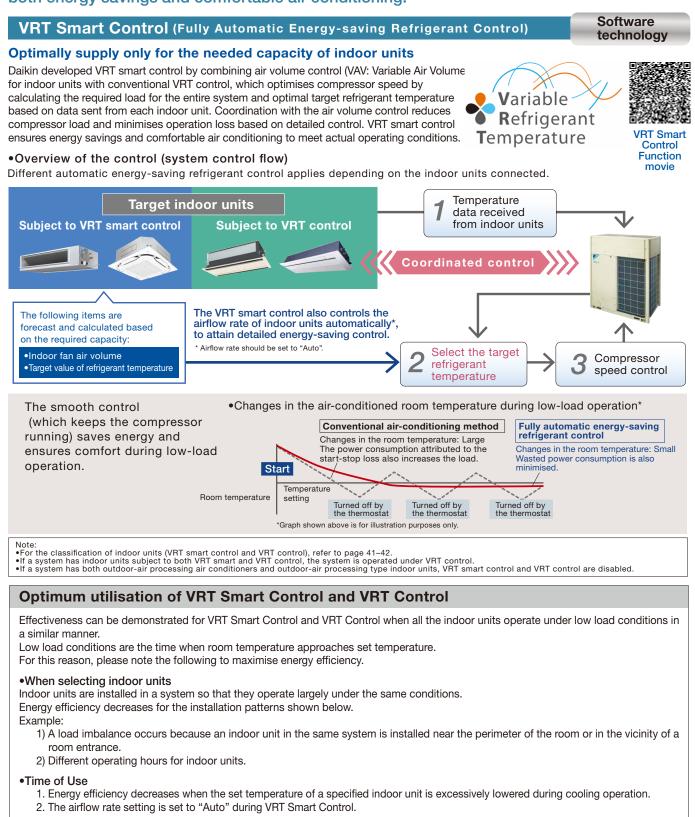
URV A series

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

Delivers Excellent Performance VRV A series

Advanced technologies for greater energy savings

By uniting advanced **software** and **hardware** technologies for greater energy savings during actual operation and combining the technologies of *VRV*, VRT and VAV, we have attained both energy savings and comfortable air conditioning.



VRV+VRT+VA

Achieves Space Saving & Excellent Performance

New Scroll

Compressor movie

Hardware **New Scroll Compressor*** technology **Refrigerant leakage is minimised during low-load operation.** Operation loss due to refrigerant leakage is reduced by the proprietary back pressure control mechanism to ensure stable low-load operation. Compressor efficiency* New compressor ---- Conventional compressor efficiency Compressor The back pressure control mechanism increases the efficiency during low-load operation. Load factor *Graph shown above is for illustration purposes only. Back pressure control mechanism **Conventional mechanism New intermediate** Now pressure mechanism The movable scroll is pressed The force pressing the by the pressure difference movable scroll is optimised between high and low according to operating pressures. conditions. The behavior of The force pressing the the movable scroll has been movable scroll decreases stabilised to increase during low-load operation, efficiency during low-load resulting in compression operation. leakage from movable parts. Intermediate pressure adjustment port The intermediate pressure (back pressure) optimises the force pressing the movable scroll depending on the operating condition.

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

The intermediate pressure keeps pressing the movable scroll during low-load operation.

* The new mechanism is used in RXQ10,12,14 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 A series 14 HP Location: Singapore Operation time: 08:00-18:00 on weekdays.

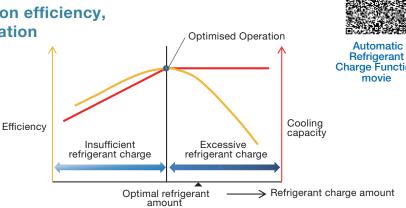


Automatic refrigerant charge function

Contribute to optimised operation efficiency, higher quality and easier installation

Optimised operation efficiency

The automatic refrigerant charge function automatically determines the optimal amount of refrigerant to be charged. This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.





Charge Function

Higher quality and easier installation

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and the closing of shut-off valves by simply pressing a switch after pre-charging.

Simplified installation eliminates excessive and insufficient refrigerant charge amounts due to calculation mistakes, and this has led to higher installation quality.

VRV IV 1 2 3 4 5 Calculate necessary Recalculate refrigerant Charge refrigerant Regularly check refrigerant Complete by manually refrigerant amount from amount from final weight on weighing scale closing valves when proper design drawing installation drawing weight is reached VRV A series

2 3 Automatic completion by proper refrigerant amount Calculation of necessary Pre-charge of refrigerant* Start of automatic refrigerant amount from refrigerant charge operation Monitoring refrigerant charging is design drawing unnecessary No recalculation of charge amounts due to minor design changes locally *Pre-charge amount changes according to conditions, and pre-charging is unnecessary when necessary refrigerant

Even if a refrigerant leak occurs from local piping after installation, the proper refrigerant amount can still be charged without needing to calculate the necessary amount.

Starting the automatic refrigerant charge operation again will ensure that optimum operation efficiency and installation quality are maintained.

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 downsizing.

- 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 continues.
- Durability of the inverter printed circuit board improved by changing the electrolytic capacitors for the compressor to film capacitors.

Conventional inverter

amount is 4 kg and under.

Please refer to Engineering Data Book for details.



Electrolytic capacitors

New inverter PC board



Film capacitor

Excellent Operational Performance

Comfort

Low operation sound

High efficiency heat exchanger helps to achieve low operation sound.

	Sound level (dB(A))				
	6/8 HP	10 HP	12 HP	14/16 HP	
VRV A 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.

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



Streamlined scroll fan

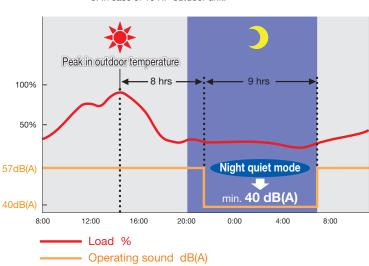
The curvature of each fan blade edge reduces both vibration and pressure loss.



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 HP 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

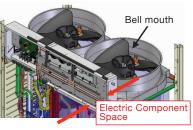
The unique 4-sided all round heat exchanger ensures sufficient surface area for the heat exchanger. This improves the heat exchanger performance without increasing the footprint.

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.

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.



Sufficient cooling for electrical components

The VRV A 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 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.

Outer Rotor DC Motor (ODM)

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

igh pressure

Advantages of ODM

Thanks to the large diameter of the rotor.

- 1) Large torgue with same electromagnetic force
- \bigcirc Stable rotation in all ranges and can be operated with small number of rotations

4-sided heat exchanger High efficiency heat exchanger is realised by reducing airflow resistance with adoption of small cooling tubes with a diameter of Φ 7.



3-row small pipe design increases

heat transfer efficiency.

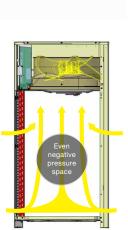
Easy maintenance Electrical components

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

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.



Power Module

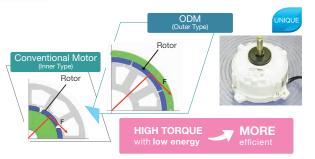
Refrigerant
 Refrigerant Jacket

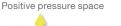




Control board failure ratio at stable operation is reduced

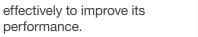
PC Board





Negative pressure

space

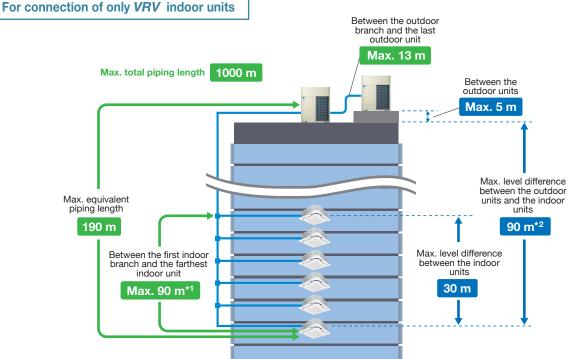




Flexible System Design

More options for installation location Long piping length

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



Note: The above is just a schemati	c diagram.
------------------------------------	------------

	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 A series is easy to extend to 90 m by lessening the conditions from conventional VRV IV models. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.

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

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio			
50%-200%			

Connection ratio = Total capacity index of the indoor units

Capacity index of the outdoor units

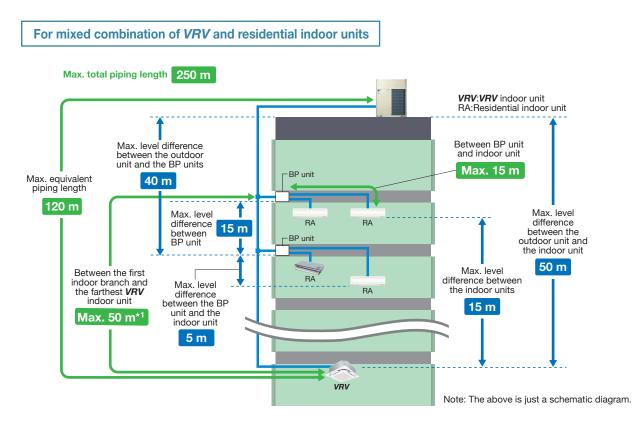
Conditions of VRV indoor unit connection capacity

Applicable VRV indoor units	FXDQ, FXSQ, FXMQ-PA, FXAQ, FXB(P)Q 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 and FXVQ models, maximum connection ratio is 130% for the entire range of outdoor units.

Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.

*Refer to page 40 for outdoor unit combination details.



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
	Between the first indoor be between the first indoor be	50 m*1	
	Between outdoor unit and	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
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	he indoor unit	5 m

*1. If the piping length between the first indoor branch and BP unit or VRV indoor unit is over 20 m, it is necessary to increase the gas and liquid piping size between the first indoor branch and BP unit or VRV indoor unit. If the piping diameter of the sized up piping exceeds the diameter of the piping before the first indoor branch kit, then the latter also requires a liquid piping and gas piping size up. Please refer to Engineering Data Book for details.

*When a mixed combination of *VRV* and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 50% to 130%. Refer to page 40 for outdoor unit combination details.

High external static pressure

VRV A 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.



opening/angle of louvre
Outstanding heat dissipation effect in both hierarchical and intensive arrangement



Reliable and Stable System

More accurate test operation and stable system

Efficient automatic test operation

Daikin VRV A 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.



Automatic check

Simplified commissioning and after-sales service

Function of information display by luminous digital tube

VRV A 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.



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

Conventional LED display

Wiring check

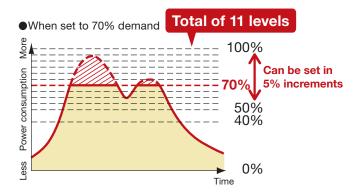
Advanced control main PC board

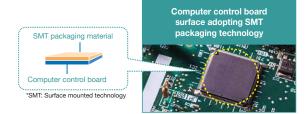
SMT* packaging technology

- 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.

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.

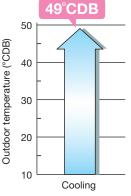




Wide operation temperature range up to 49°C

The versatile operation range of the VRV A 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 operation.



Automatic sequencing operation

During start-up, Daikin VRV A 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 1Stage 2Stage 3



Double backup operation functions

Daikin *VRV* A 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

If one of the units in a multiple outdoor system malfunctions, the other outdoor units provide emergency operation until repairs can be made. * For systems composed of two or more outdoor units. Malfunction Emergency operation

Compressor backup operation function

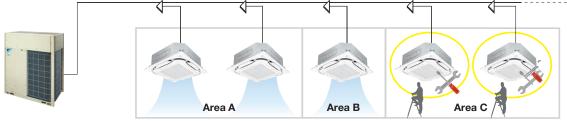
The outdoor unit is equipped with two compressors. Even if one compressor malfunctions, the other compressor provides emergency operation, reducing the risk of air conditioning shutdown due to compressor failure. (Capacity is saved during backup operation.)

* For single outdoor unit system RXQ16-20AYM models. On-site settings are required using the printed circuit board of the outdoor unit.



Ease of Maintenance

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



* Field setting is required.

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

Outdoor Unit Lineup

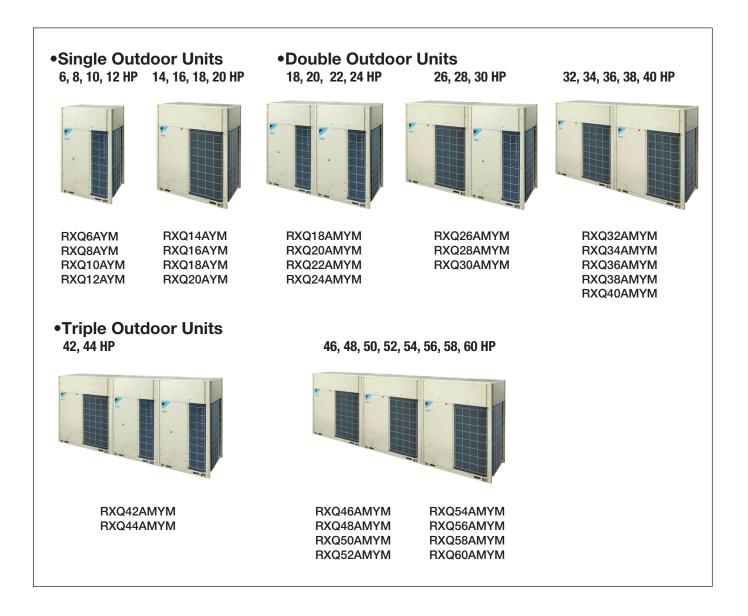
🛛 VRV A Series Outdoor Units 🔤

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

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

Lineup

HP		6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
	Single outdoor units																												
VRV A SERIES	Double outdoor units																												
	Triple outdoor units																											•	



Outdoor Unit Combinations

For connection of VRV indoor units

HP	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 HP	16.0	150	RXQ6A	RXQ6A	-	75 to 195 (300)	9 (15)
8 HP	22.4	200	RXQ8A	RXQ8A	-	100 to 260 (400)	13 (20)
10 HP	28.0	250	RXQ10A	RXQ10A	-	125 to 325 (500)	16 (25)
12 HP	33.5	300	RXQ12A	RXQ12A	-	150 to 390 (600)	19 (30)
14 HP	40.0	350	RXQ14A	RXQ14A	-	175 to 455 (700)	22 (35)
16 HP	45.0	400	RXQ16A	RXQ16A	-	200 to 520 (800)	26 (40)
18 HP	50.0	450	RXQ18A	RXQ18A	-	225 to 585 (900)	29 (45)
20 HP	56.0	500	RXQ20A	RXQ20A	-	250 to 650 (1,000)	32 (50)
18 HP	50.4	450	RXQ18AM	RXQ8A + RXQ10A		225 to 585 (720)	29 (36)
20 HP	55.9	500	RXQ20AM	RXQ8A + RXQ12A		250 to 650 (800)	32 (40)
22 HP	61.5	550	RXQ22AM	RXQ10A + RXQ12A		275 to 715 (880)	35 (44)
24 HP	67.0	600	RXQ24AM	RXQ12A × 2		300 to 780 (960)	39 (48)
26 HP	73.5	650	RXQ26AM	RXQ12A + RXQ14A		325 to 845 (1,040)	42 (52)
28 HP	78.5	700	RXQ28AM	RXQ12A + RXQ16A		350 to 910 (1,120)	45 (56)
30 HP	83.5	750	RXQ30AM	RXQ12A + RXQ18A	BHFP22P100	375 to 975 (1,200)	48 (60)
32 HP	90.0	800	RXQ32AM	RXQ14A + RXQ18A		400 to 1,040 (1,280)	52 (64)
34 HP	95.0	850	RXQ34AM	RXQ16A + RXQ18A		425 to 1,105 (1,360)	55 (64)
36 HP	100	900	RXQ36AM	RXQ18A × 2		450 to 1,170 (1,440)	58 (64)
38 HP	106	950	RXQ38AM	RXQ18A + RXQ20A		475 to 1,235 (1,520)	61 (64)
40 HP	112	1,000	RXQ40AM	RXQ20A × 2		500 to 1,300 (1,600)	
42 HP	117	1,050	RXQ42AM	RXQ12A × 2 + RXQ18A		525 to 1,365 (1,365)	
44 HP	123	1,100	RXQ44AM	RXQ12A × 2 + RXQ20A		550 to 1,430 (1,430)	
46 HP	130	1,150	RXQ46AM	RXQ14A × 2 + RXQ18A		575 to 1,495 (1,495)	
48 HP	135	1,200	RXQ48AM	RXQ14A + RXQ16A + RXQ18A		600 to 1,560 (1,560)	
50 HP	140	1,250	RXQ50AM	RXQ14A + RXQ18A × 2	BHFP22P151	625 to 1,625 (1,625)	64 (64)
52 HP	145	1,300	RXQ52AM	RXQ16A + RXQ18A × 2	DHFP22P131	650 to 1,690 (1,690)	1
54 HP	150	1,350	RXQ54AM	RXQ18A × 3]	675 to 1,755 (1,755)]
56 HP	156	1,400	RXQ56AM	RXQ18A × 2 + RXQ20A	1	700 to 1,820 (1,820)	1
58 HP	162	1,450	RXQ58AM	RXQ18A + RXQ20A × 2	1	725 to 1,885 (1,885)	
60 HP	168	1,500	RXQ60AM	RXQ20A × 3]	750 to 1,950 (1,950)	1

Note: *1. For multiple connection, 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.

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

				Total capacity	y index of connectable	indoor units ²	
Model name ^{*1}	kW	HP	Capacity index		Combination (%)" ²		Maximum number of connectable indoor units
			Index	50%	100%	130%	
RXQ6AYM	16.0	6	150	75	150	195	9
RXQ8AYM	22.4	8	200	100	200	260	13
RXQ10AYM	28.0	10	250	125	250	325	16
RXQ12AYM	33.5	12	300	150	300	390	19
RXQ14AYM	40.0	14	350	175	350	455	22
RXQ16AYM	45.0	16	400	200	400	520	26
RXQ18AYM	50.0	18	450	225	450	585	29
RXQ20AYM	56.0	20	500	250	500	650	32

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

Indoor Unit Lineup

Enhanced range of choices

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

VRV indoor units					w line		VRT	art V	RT sm	nart co				vni ,	VRT o	or units contro		
Tupe	Model Name		Capacity Range	20 0.8 HP	25 1 нр	32 1 25 HP	40 1 6 HP	50 2 нр	63 2 5 HP	71 з нр	80 з 2 нр	100 л нр	125 5 HP		200 8 HP	250 10 HP	400 16 HP	-
Туре	Model Name		Capacity Hange	20		31.25		2 HP	2.5 FP 62.5		3,2 HP 80	4 HP	э пр 125		200	250	400	
Ceiling Mounted Cassette (Round Flow with Sensing)	wFXFSQ-AVM	VRT smart								 				New capacity				
Ceiling Mounted Cassette (Round Flow)	FXFQ-AVM	VRT smart								 				New capacity				
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE	VRT								- 			 			 		
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE	VRT								 								
Ceiling Mounted Cassette Corner	FXKQ-MAVE	VRT								 			 			1	 	
N		VRT smart																
Slim Ceiling Nounted Duct		VRT smart	(700mm width type)					 		 	1 1 1 1		 			 	1 1 1 1	
(Standard Series)	(with drain pump)	VRT smart														1		1
N	(without drain pump)	VRT smart	(900 / 1,100mm width type)		1 1 1 1					1 1 1 1	1 1 1 1		1 1 1			 	1 1 1 1	
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1	VRT								- 								
Middle Static Pressure Ceiling Mounted Duct	ew FXSQ-PAVE	VRT smart								 						 		
Ceiling Mounted	W FXMQ-PAVE	VRT smart								1						1	1	1
Duct	FXMQ-MVE9	VRT			1 1 1 1		 	 	1 1 1 1	1 1 1 1	1 1 1 1	 	 				 	
Outdoor-Air Processing Unit	FXMQ-MFV1							 		1 	1 1 1 1 1							
4-Way Flow Ceiling Suspended	FXUQ-AVEB	VRT																
Ceiling Suspended	FXHQ-MAVE	VRT	-							 								
Wall Mounted	FXAQ-PVE	VRT																
Floor Standing	FXLQ-MAVE	VRT								 								
Concealed Floor Standing	FXNQ-MAVE	VRT	F							 			1 1 1 1 1					
	FXVQ-NY1	VRT			1			1	1	1	1							
Floor Standing Duct	FXVQ-NY16 (high static pressure type)	VRT							1 1 1 1	 	1 1 1 1					-		
Clean Room	FXBQ-PVE	VRT								1							1	
Air Conditioner	FXBPQ-PVE	VRT			1					1	1						1	1
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1			Air	flow	rate {	500- ⁻	1000	m³/h	1								
Heat Reclaim Ventilator	VAM-GJVE		00	Air	flow	rate ⁻	150-2	2000	m³/h	1								
Air Handling Unit	AHUR													(6–120) HP	

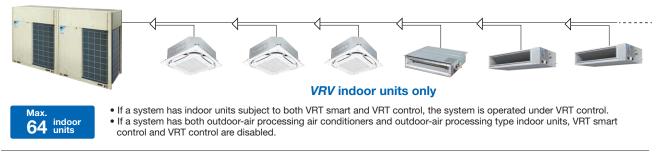
			25	35	50	60	71
Туре	Model Name	Rated Capacity (kW)	2.5	3.5	5.0	6.0	7.1
		Capacity Index	25	35	50	60	71
Slim Ceiling Mounted	FDKS-EAVMB VRT	(700 mm width type)					
Duct	FDKS-C(A)VMB	(900/1,100 mm width type)					
	FTKJ-NVMMW VRT						
	FTKJ-NVMMS VRT	-					
Wall Mounted	FTKS-DVM VRT						
	FTKS-BVMA VRT	- 12					
	FTKS-FVM VRT						

Residential indoor units with connection to BP units

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

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

VRV indoor unit system



Mixed residential and VRV indoor unit system



Residential indoor unit system



Specifications

VRV A Series Outdoor Units

RXQ-A

MODEL			RXQ6AYM	RXQ8AYM	RXQ10AYM	RXQ12AYM	RXQ14AYM	RXQ16AYM	RXQ18AYM	1
Combination	n unito		_	_	—	—	_	—	—	
Combination			—	—	—	-	—	—	—	
Power suppl	ly			3	3 phase 4-wire sys	stem, 380-415V/	380V, 50Hz/ 60H	Hz		1
Cooling our	a situ	Btu/h	54,600	76,400	95,500	114,000	136,000	154,000	171,000	1
Cooling capa		kW	16.0	22.4	28.0	33.5	40.0	45.0	50.0	1
Power consu	umption	kW	3.38	5.17	6.84	8.70	10.7	12.9	15.3	
Capacity co	Introl	%	25-100	20-100	13-100	12-100	11-100	10-100	10-100	
Casing colou	ur		1		lv	vory white (5Y7.5/	/1)			
	Туре		ı		Herme	etically sealed scr	roll type			1
Compressor	Motor output	kW	2.3×1	3.4×1	4.5×1	5.6×1	6.4×1	(3.5×1)+(3.5×1)) (4.0×1)+(4.0×1)	
Airflow rate		m³/min	119	1	78	191		257	·	1
Dimensions	(H×W×D)	mm	ı	1,657×9	J30×765			1,657×1,240×765	,5	1
Machine wei	ight	kg	17	75	18	85	215	26	260	1
Sound level		dB(A)	5	56	57	59	F	60	61	1
Operation ra	ange	°CDB	ı			10 to 49				1
Defrigerent	Туре					R-410A				1
Refrigerant	Charge	kg	5	5.9	6.7	6.8	7.4	8.2	8.4	1
Piping	Liquid	mm	1	φ9.5 (Brazing)			φ12.7 (Brazing)	·	φ15.9 (Brazing)	1
connections	s Gas	mm	φ19.1 /	(Brazing)	φ22.2 (Brazing)		ф28.6 (Е	Brazing)		

MODEL			RXQ32AMYM	RXQ34AMYM	RXQ36AMYM	RXQ38AMYM	RXQ40AMYM	RXQ42AMYM	RXQ44AMYM			
			RXQ14AYM	RXQ16AYM	RXQ18AYM	RXQ18AYM	RXQ20AYM	RXQ12AYM	RXQ12AYM			
Combinatio	n units		RXQ18AYM	RXQ18AYM	RXQ18AYM	RXQ20AYM	RXQ20AYM	RXQ12AYM	RXQ12AYM			
			—	—	_	—	—	RXQ18AYM	RXQ20AYM			
Power supp	bly	_		3	phase 4-wire sy	stem, 380-415V/	380V, 50Hz/ 60H	lz				
Cooling cap	a city	Btu/h	307,000	324,000	341,000	362,000	382,000	399,000	420,000			
Cooling cap	acity	kW	90.0	95.0	100	106	112	117	123			
Power cons	umption	kW	26.0	28.2	30.6	33.0	35.4	32.7	35.1			
Capacity co	ontrol	%	5-100	5-100	5-100	4-100	3-100	4-100	3-100			
Casing colo	ur				Ivo	ry white (5Y7.5/1)					
	Туре				Hermeti	cally sealed scro	ll type					
Compressor	Motor output	kW	(6.4×1)+(4.0×1) +(4.0×1)	(3.5×1)+(3.5×1) +(4.0×1)+(4.0×1)	(4.0×1)+(4.0×1) +(4.0×1)+(4.0×1)	(4.0×1)+(4.0×1) +(3.8×1)+(6.3×1)	(3.8×1)+(6.3×1) +(3.8×1)+(6.3×1)	(5.6×1)+(5.6×1) +(4.0×1)+(4.0×1)	(5.6×1)+(5.6×1) +(3.8×1)+(6.3×1)			
Airflow rate	1	m³/min		257+257		257+297	297+297	191+191+257	191+191+297			
Dimensions	(H×W×D)	mm		(1,657×1,24	40×765)+(1,657×	1,240×765)		· · · · · ·	(1,657×930×765)+ 240×765)			
Machine we	eight	kg	215+260	260-	+260	260+285	285+285	185+185+260	185+185+285			
Sound level		dB(A)		64		66	68	65	67			
Operation ra	ange	°CDB				10 to 49						
Defilment	Туре			R-410A								
Refrigerant	Charge	kg	7.4+8.4	8.2+8.4	8.4+8.4	8.4+11.8	11.8+11.8	6.8+6.8+8.4	6.8+6.8+11.8			
Piping	Liquid	mm				φ19.1 (Brazing)						
connections	Gas	mm	ф34.9 (І	Brazing)			φ41.3 (Brazing)					

Note: Specifications are based on the following conditions;

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

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

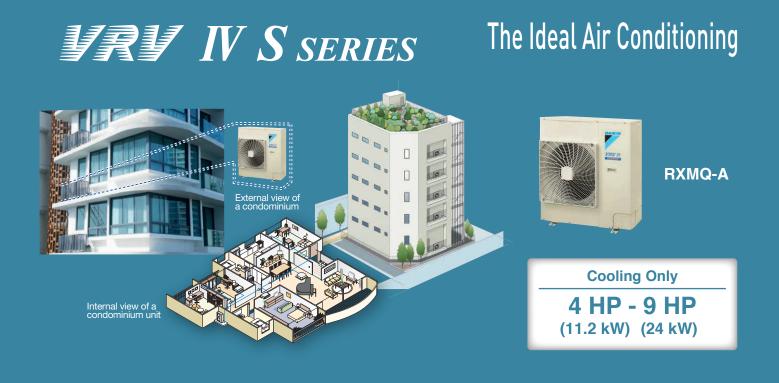
During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

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

1							
RXQ20AYM	RXQ18AMYM	RXQ20AMYM	RXQ22AMYM	RXQ24AMYM	RXQ26AMYM	RXQ28AMYM	RXQ30AMYM
_	RXQ8AYM	RXQ8AYM	RXQ10AYM	RXQ12AYM	RXQ12AYM	RXQ12AYM	RXQ12AYM
_	RXQ10AYM	RXQ12AYM	RXQ12AYM	RXQ12AYM	RXQ14AYM	RXQ16AYM	RXQ18AYM
		3 phase	e 4-wire system, 38	0-415V/ 380V, 50H	z/ 60Hz		
191,000	172,000	191,000	210,000	229,000	251,000	268,000	285,000
56.0	50.4	55.9	61.5	67.0	73.5	78.5	83.5
17.7	12.0	13.9	15.5	17.4	19.4	21.6	24.0
7-100	7-100	7-100	6-100	6-100	6-100	5-100	5-100
			Ivory white	(5Y7.5/1)			
			Hermetically sea	aled scroll type			
(3.8×1)+(6.3×1)	(3.4×1)+(4.5×1)	(3.4×1)+(5.6×1)	(4.5×1)+(5.6×1)	(5.6×1)+(5.6×1)	(5.6×1)+(6.4×1)	(5.6×1)+(3.5×1) +(3.5×1)	(5.6×1)+(4.0×1) +(4.0×1)
297	178+178	178-	+191	191+191		191+257	
1,657×1,240×765		(1,657×930×765)+	+(1,657×930×765)		(1,657×9	30×765)+(1,657×1,	240×765)
285	175-	+185	185-	+185	185+215	185-	+260
65	60	6	1	62		63	
			10 t	o 49			
			R-4	10A			
11.8	5.9+6.7	5.9+6.8	6.7+6.8	6.8+6.8	6.8+7.4	6.8+8.2	6.8+8.4
		φ15.9 (Brazing)				φ19.1 (Brazing)	
	ф28.6 (Е	Brazing)			ф34.9 (Е	Brazing)	

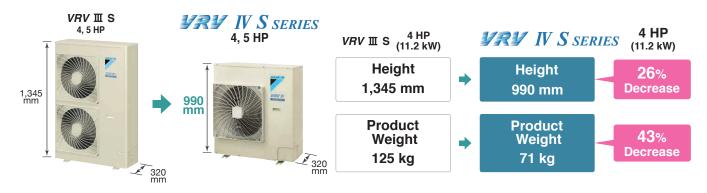


	RXQ46AMYM	RXQ48AMYM	RXQ50AMYM	RXQ52AMYM	RXQ54AMYM	RXQ56AMYM	RXQ58AMYM	RXQ60AMYM
	RXQ14AYM	RXQ14AYM	RXQ14AYM	RXQ16AYM	RXQ18AYM	RXQ18AYM	RXQ18AYM	RXQ20AYM
	RXQ14AYM	RXQ16AYM	RXQ18AYM	RXQ18AYM	RXQ18AYM	RXQ18AYM	RXQ20AYM	RXQ20AYM
	RXQ18AYM	RXQ18AYM	RXQ18AYM	RXQ18AYM	RXQ18AYM	RXQ20AYM	RXQ20AYM	RXQ20AYM
		·	3 phase	e 4-wire system, 38	30-415V/ 380V, 50H	z/ 60Hz		
	444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000
	130	135	140	145	150	156	162	168
	36.7	38.9	41.3	43.5	45.9	48.3	50.7	53.1
	3-100	3-100	3-100	3-100	3-100	3-100	2-100	2-100
				lvory wh	ite (5Y7.5/1)			
				Hermetically s	sealed scroll type			
	(6.4×1)+(6.4×1) +(4.0×1)+(4.0×1)	(6.4×1)+(3.5×1)+(3.5×1) +(4.0×1)+(4.0×1)	(6.4×1)+(4.0×1)+(4.0×1) +(4.0×1)+(4.0×1)	(3.5×1)+(3.5×1)+(4.0×1) +(4.0×1)+(4.0×1)+(4.0×1)	(4.0×1)+(4.0×1)+(4.0×1) +(4.0×1)+(4.0×1)+(4.0×1)		(4.0×1)+(4.0×1)+(3.8×1) +(6.3×1)+(3.8×1)+(6.3×1)	(3.8×1)+(6.3×1)+(3.8×1) +(6.3×1)+(3.8×1)+(6.3×1)
			257+257+257			257+257+297	257+297+297	297+297+297
			(1,657×1,2	240×765)+(1,657×1	,240×765)+(1,657×	1,240×765)		
	215+215+260	215+2	60+260	260+2	60+260	260+260+285	260+285+285	285+285+285
		6	5		66	68	69	70
				10 t	io 49			
				R-4	410A			
	7.4+7.4+8.4	7.4+8.2+8.4	7.4+8.4+8.4	8.2+8.4+8.4	8.4+8.4+8.4	8.4+8.4+11.8	8.4+11.8+11.8	11.8+11.8+11.8
_				ф19.1 (Brazing)			
				ф41.3 (Brazing)			



Compact & Lightweight Design

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





Enhanced lineup

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

VRV IV S series



Lineup

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

Wide variety of indoor units

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

Elegant appearance with European style





FTKJ-N series indoor unit





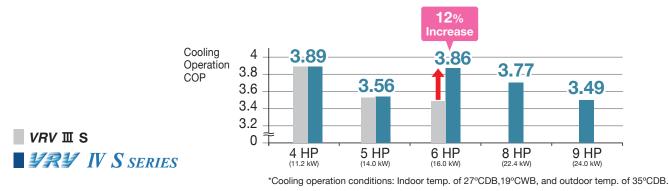


5 models

Main Features

Energy saving **Higher Coefficient of Performance (COP)**

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



Quiet operation Nighttime quiet operation function

Operation sound level selectable from 3 steps for the night mode

Mode 1. Automatic mode

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

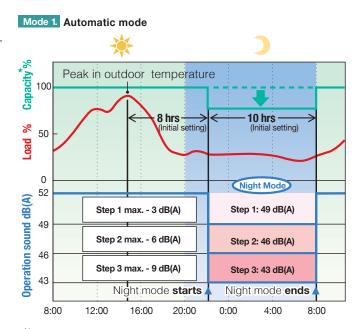
Mode 2. Manual mode

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

Mode 3. Combined mode

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

- *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 HP outdoor unit during cooling operation



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.

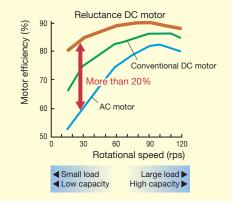
Cutting-edge Technologies **URV** IN S SERIES

Collection of cutting-edge technologies realises efficient and quiet operation

The high efficiency compressor to achieve a higher COP

1 Compressor equipped with Reluctance DC motor

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





Sine wave DC inverte

8, 9 HP

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

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

>> Smooth sine wave DC inverter

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

RXMQ 4, 5, 6AVE

>> Swing compressor ------

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



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.



With the bent blade edge Without the bent blade edge

Escaping eddies are sucked in by the bent blade edges, reducing overall turbulence.

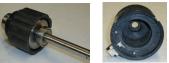
RXMQ8, 9AY1

>> The structural scroll Suction 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.

3 DC fan motor

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

DC fan motor structure

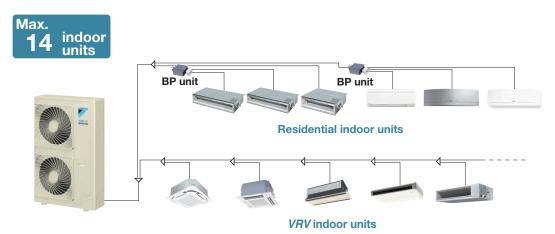


Design Flexibility and Simplified Installation

Connectable up to 14 indoor units

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

Note: Total capacity index of connectable indoor units must be 50-130% of the capacity index of the outdoor unit. Refer to page 54 for the maximum number of connectable indoor unit.



Automatic test operation

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

Simple wiring and piping connection

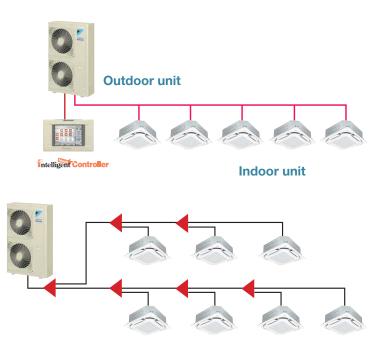
Unique piping and wiring systems make it possible to install a VRV IV S series quickly and easily.

>> Super wiring system

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

>> REFNET piping system

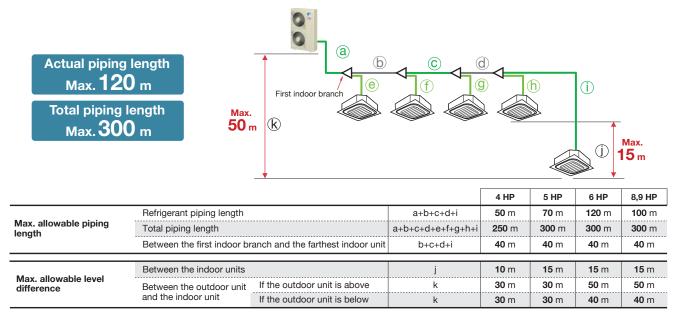
Daikin's advanced REFNET piping system makes installation easy. Only two main refrigerant lines are required in any one system. REFNET greatly reduces the imbalances in refrigerant flow between units, while using small-diameter piping.



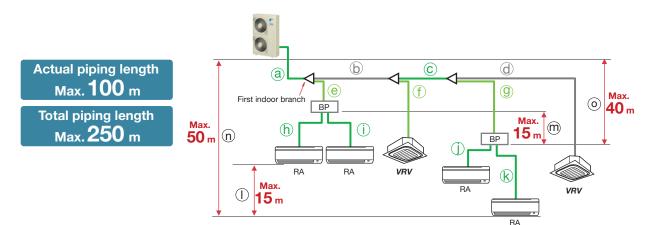
Makes the long piping design possible

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

When only VRV indoor units are connected



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



				4 HP	5 HP	6-9 HP
	Refrigerant piping length		a+b+c+g+k, a+b+c+d	50 m	70 m	100 m
Max. allowable piping	Total piping length		a+b+c+d+e+f+g+h+i+j+k	250 m	250 m	250 m
length	The first indoor branch - th	e 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	BP unit - indoor unit	If indoor unit capacity index is 60	h, i, j, k	2 m– 12 m	2 m– 12 m	2 m– 12 m
length		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		1	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

Indoor Unit Lineup

Enhanced range of choices

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

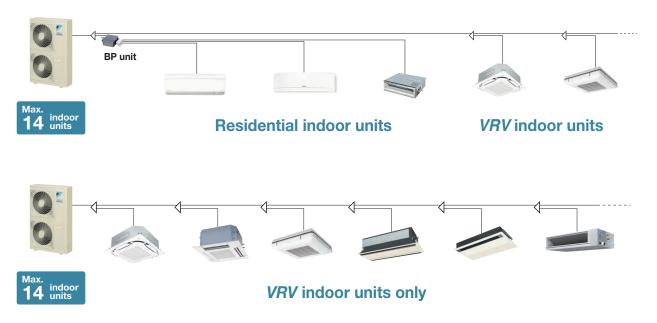
/RV indoor units					_									Vew I	
			20	25	32	40	50	63	71	80	100	125	140	200	250
Туре	Model Name	Capacity Range Capacity Index	0.8 HP 20	1 HP 25	1.25 HP 31.25		2 HP 50	2.5 HP 62.5		3.2 HP 80	4 HP 100	5 HP 125		8 HP 200	10 H 250
Ceiling Mounted Cassette Round Flow with Sensing)	New FXFSQ-AVM												New capacity		200
Ceiling Mounted Cassette Round Flow)	New FXFQ-AVM								 				New capacity	 	
Ceiling Mounted Cassette Compact Multi Flow)	FXZQ-MVE							1	 		11 	1		1 1 1 1 1 1	
Ceiling Mounted Cassette Double Flow)	FXCQ-MVE										 			 	
Ceiling Mounted Cassette Corner	FXKQ-MAVE										1				
	New FXDQ-PDVE (with drain pump)							1	 				- - - -		
Slim Ceiling	New FXDQ-PDVET (without drain pump)	(700mm width type)					 		 		 			1	1
Mounted Duct Standard Series)	New FXDQ-NDVE (with drain pump)				1 1 1				 	 	 	 	 	1 1 1 1	
	(with drain pump) FXDQ-NDVET (without drain pump)	(900 / 1,100mm width type)							 		 			1 1 1 1	1
Slim Ceiling Aounted Duct Compact Series)	FXDQ-SPV1										 				
Aiddle Static Pressure Ceiling Aounted Duct	New FXSQ-PAVE														
Ceiling Mounted	New FXMQ-PAVE								 					1	
Duct	FXMQ-MVE9				 	I I I I	 	 	 	 	1 	 	 		
Dutdoor-Air Processing Unit	FXMQ-MFV1						 		 		1 1 1 1 1 1				
I-Way Flow Ceiling Suspended	FXUQ-AVEB														
Ceiling Suspended	FXHQ-MAVE											1		 	
Wall Mounted	FXAQ-PVE										 			 	
Floor Standing	FXLQ-MAVE								1 1 1 1 1		1 1 1 1 1 1			1 1 1 1 1	
Concealed Floor Standing	FXNQ-MAVE														
Floor Standing Duct	FXVQ-NY1														
Clean Room	FXBQ-PVE										1				
Air Conditioner	FXBPQ-PVE				1						 	1	1	1	
Heat Reclaim Ventilator	VAM-GJVE							m³/h					<u>.</u>		

			25	35	50	60	71
Туре	Model Name	Rated Capacity (kW)	2.5	3.5	5.0	6.0	
		Capacity Index	25	35	50	60	71
Slim Ceiling Mounted Duct	FDKS-EAVMB	(700 mm width type)					
Mounted Duct	FDKS-C(A)VMB	(900/1,100 mm width type)					
	FTKJ-NVMMW						
	FTKJ-NVMMS	-					
Wall Mounted	FTKS-DVM						
	FTKS-BVMA						
	FTKS-FVM						

Residential indoor units with connection to BP units

Note: BP units are necessary for residential indoor units.

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



*Refer to page 54 for the maximum number of connectable indoor units.

Specifications

Po

С

Po Са Са

Сс

Ai Di M Sc O

Re

Pi

VRV IV S series

	_	_					Cooling Onl
мс	DEL		RXMQ4AVE	RXMQ5AVE	RXMQ6AVE	RXMQ8AY1	RXMQ9AY1
Power supply			1-pha	se, 220-230 V/220 V, 5	0/60 Hz	3-phase, 380	–415 V, 50 Hz
		Btu/h	38,200	47,800	54,600	76,400	81,900
Cooling capacity		kW	11.2	14.0	16.0	22.4	24.0
Power consumpti	on Cooling	kW	2.88	3.93	4.14	5.94	6.88
Capacity control		%	24 to 100	16 to	o 100	20 to	b 100
Casing colour					Ivory white (5Y7.5/1)		
	Туре		Her	metically sealed swing	type	Hermetically se	ealed scroll type
Compressor	Motor output	kW	1.92	3.0	3.5	3.8	4.8
Airflow rate	1	m³/min	7	6	106	1,	40
Dimensions (H×W	/×D)	mm	990×94	40×320	1,345×900×320	1,430×9	940×320
Machine weight		kg	71	80	102	1	31
Sound level (Cool	ing)	dB(A)	52	53	55	57	58
Operation range	Cooling	°CDB			-5 to 46		1
	Туре				R-410A		
Refrigerant	Charge	kg	2.9	3.4	3.6	5	.8
	Liquid			∮ 9.5 (Flare)	1	\$ 9.5 (E	Brazing)
Piping connection	is Gas	mm	¢ 15.9	(Flare)	¢ 19.1 (Flare)	¢ 19.1 (Brazing)	¢ 22.2 (Brazing)

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

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

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

VRV IV Q SERIES For quick & high



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

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

The VRV IV Q series concept

Reusing existing refrigerant piping minimizes:

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

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

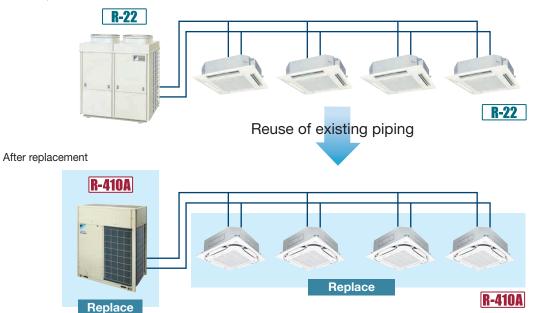
- The system is automatically charged with the proper amount of refrigerant even when the length of the existing piping is unknown.
- Equipment automatically performs a sequence of tasks from refrigerant charging to test operation.

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

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

quality replacement use VRV IV Q series

Before replacement



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

Quick & High Quality replacement

Enhanced lineup

2 types up 48 HP

Energy saving

Higher COP and VRT technology

Variety of indoor unit

Multiple functions for greater comfort

Convenient control system

Advanced energy-saving management

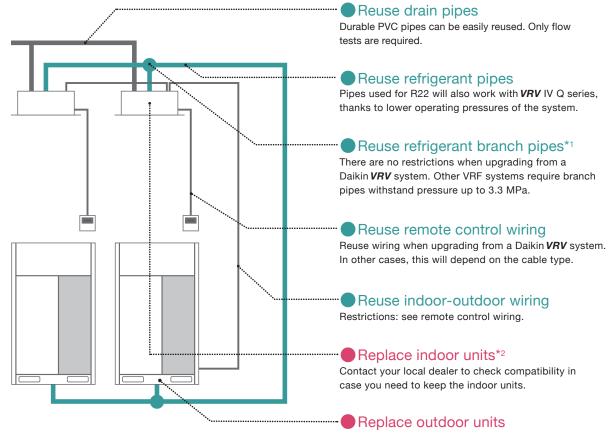
Quick, Quality and Economical

Reuse

Simple use of existing refrigerant piping.

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

Even applicable for non-DAIKIN systems! The Daikin low-cost upgrade solution



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

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

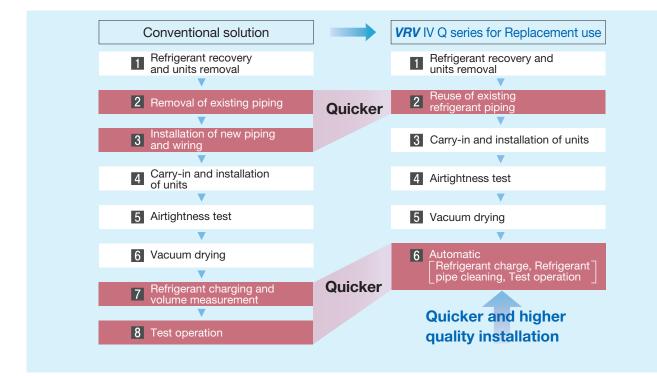
Automatic

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

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

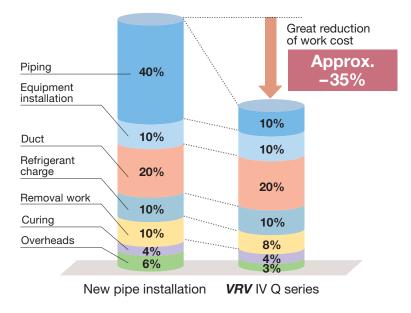
Time saving

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



Cost saving

Work costs for pipe removal, installation and insulation account for much of the total cost. By the reuse of existing piping, 35% of cost down can be realized compared to installing new pipes. ■ Cost details (10 HP example)



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





Easy installation on each floor for use in tall buildings

Small and light, significantly reducing constraints during carry-in



Can be carried on a cart



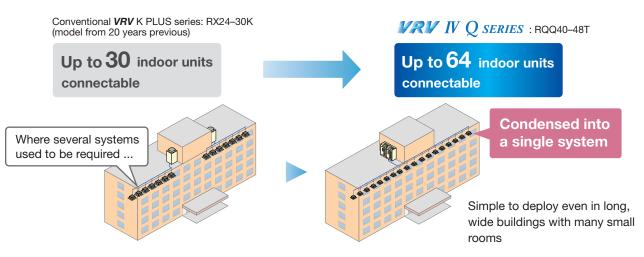
Can be transported easily by elevator

System flexibility

An increased number of connectable indoor units in a single system

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

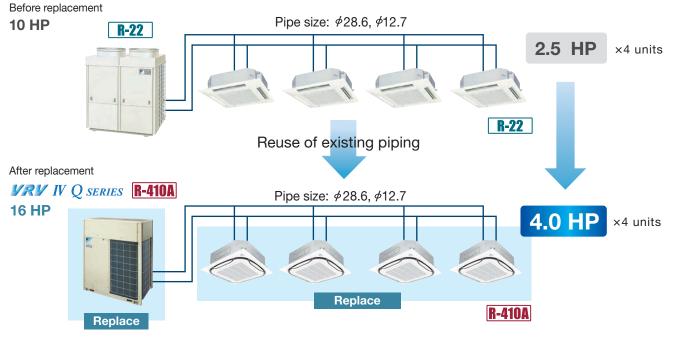
The number of connectable indoor units has been drastically increased from 30 to 64.



Enables increased capacity

System can be upgraded using existing piping

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



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

Main Features

Enhanced Lineup

2 types up to 48 HP

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

48 HP	Single outdoo	or unit		
of 2 types saving itdoor units o 48 HP to y of needs.	VRV II Q	SERIES	VRV IV	Q SERIES
	8, 10, 12 HP	14, 16 HP	6, 8, 10, 12 HP	14, 16, 18, 20 HP
	1 type	e only	2 type of Sta and Space	
8 10 12 14	16 18 20 2	2 24 26 28	30 32 34 36 38 40	42 44 46 48

Lineup

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

Compact & Light Weight Design

New Space Saving type with refined design

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

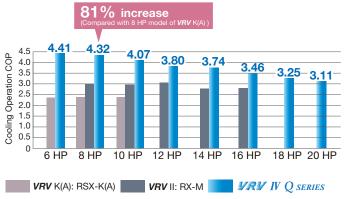


Energy Saving

Higher Coefficient of Performance (COP)

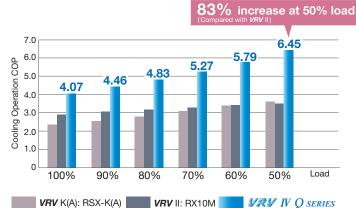
COP at 100% operation load

VRV IV Q series delivers highly efficient performance, contributing to high energy savings.



COP for 10 HP

Improved efficiency during long operation under low load



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

VRT-Variable Refrigerant Temperature URV IV Q series

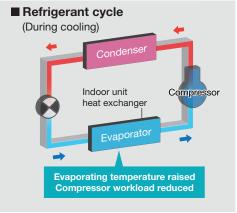
State-of-the-art energy saving technology for VRV system

Customise your VRV system for optimal annual efficiency

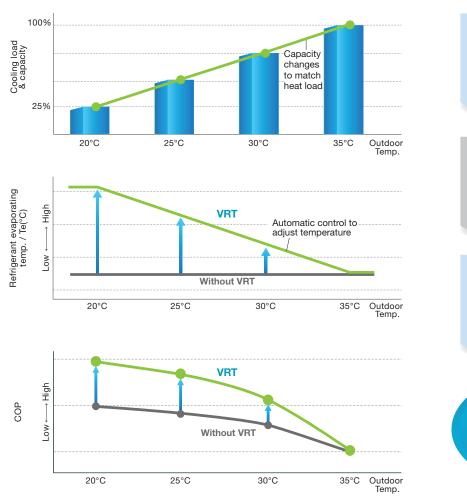
The new *VRV* IV Q series now features VRT technology. VRT automatically adjusts refrigerant temperature to individual building and climate requirement, thus further improving annual energy efficiency and maintaining comfort. With this excellent technology, running costs are reduced.

How is energy reduced?

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



■ 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.

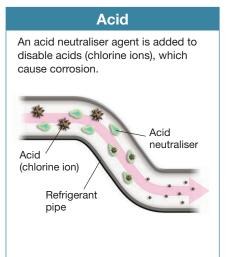
Automatic control adjusts evaporating temperature to heat load change.

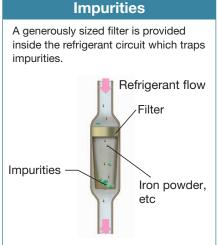
Energy efficiency is improved without sacrificing comfort.

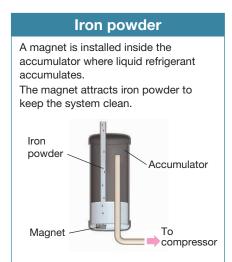
Advanced Technologies Achieve

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. VRV IV Q series Only







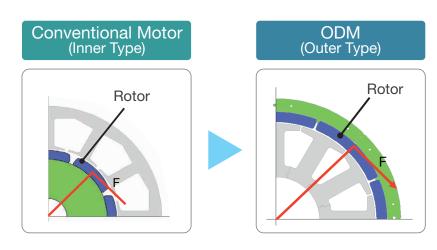
Outer Rotor DC Motor (ODM)

Only Daikin adapted ODM with feature ofstable rotation and volumetric efficiency

Advantages of ODM

Thanks to large diameter of the rotor,

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





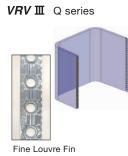
UNIQUE

63

Excellent Performance VRV IV Q series

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.



SMT: Surface mounted technology

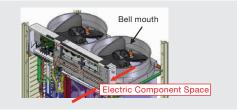
Computer control board surface adopting SMT packaging technology

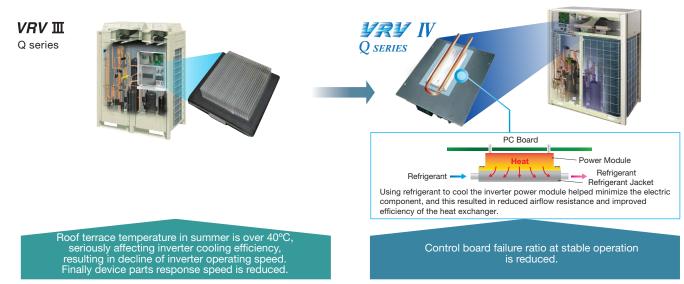


Refrigerant cooling technology, ensures stability of PCB temperature

Improved inner design to increase smooth airflow

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





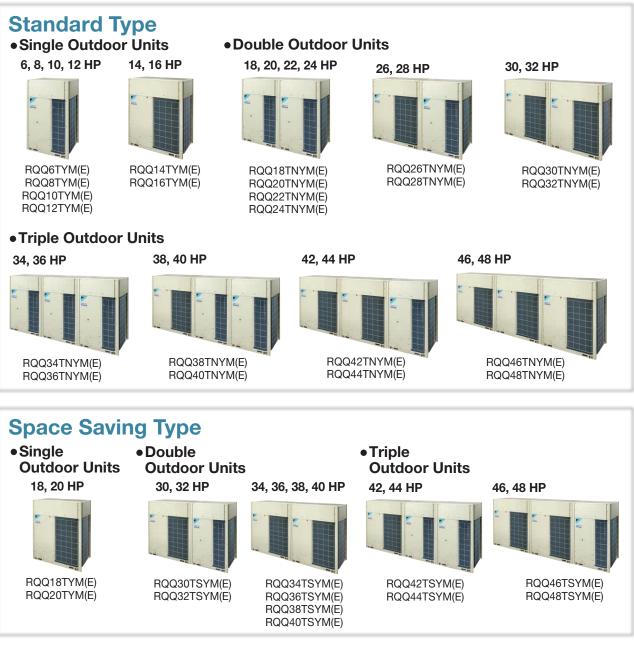
Improve reliability at high ambient temperature

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

Outdoor Unit Lineup

Enhanced lineup to 2 types

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



Lineup

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

Indoor Unit Lineup

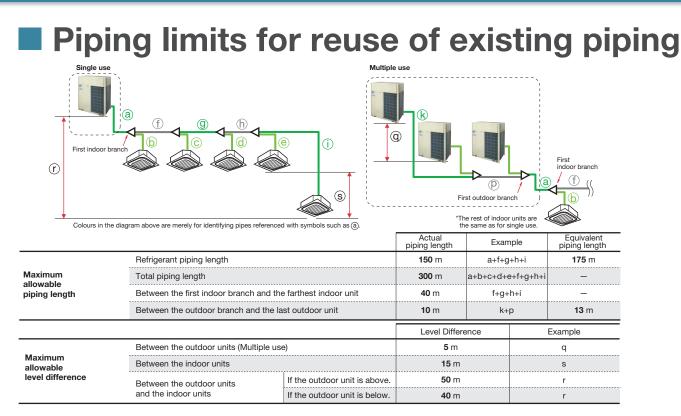
URV IV Q series

Variety of indoor unit

																lew l	ineu
		Or an a the Damage	20	25	32	40	50	63	71	80	100	125	140	200	250	400	500
Туре	Model Name	Capacity Range Capacity Index	0.8 HP 20	1 HP 25	1.25 HP 31.25		2 HP 50	2.5 HP 62.5		3.2 HP 80	4 HP 100	5 HP 125	6 HP 140	8 HP 200	10 HP 250	16 HP 400	20 F 50
Ceiling Mounted Cassette (Round Flow with Sensing)	New FXFSQ-AVM												New capacity				
Ceiling Mounted Cassette (Round Flow)	New FXFQ-AVM		 						 				New capacity				
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE																
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE								1								
Ceiling Mounted Cassette Corner	FXKQ-MAVE						- - - - - - - - - - - - - - - - - - -										
	New FXDQ-PDVE (with drain pump)					1	- - - - -	1 1 1	1	1	1	1 1 1	- - - -	1			
Slim Ceiling	FXDQ-PDVET (without drain pump)	(700mm width type)				1	1	1		1		1		1	1	1	
Mounted Duct (Standard Series)	FXDQ-NDVE (with drain pump)		1	I I I I	 				 	1 1 1	 	1 1 1 1	1 1 1 1	 	 	 	1 1 1 1
	(With out an pump)	(900 / 1,100mm width type)		 	 				 	 	 	1 1 1 1 1	 	 	 	 	
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1																
Middle Static Pressure Ceiling Mounted Duct	New FXSQ-PAVE																
Ceiling Mounted	New FXMQ-PAVE								1					 	 	 	1
Duct	FXMQ-MVE9		1	 		1				1			-			 	1
Outdoor-Air Processing Unit	FXMQ-MFV1				- 	 	- 	 	- - - - - - - - -								
4-Way Flow Ceiling Suspended	FXUQ-AVEB							- - - - -									
Ceiling Suspended	FXHQ-MAVE		 														
Wall Mounted	FXAQ-PVE								- - - - - - - - -								
Floor Standing	FXLQ-MAVE																
Concealed Floor Standing	FXNQ-MAVE																
Floor Standing	FXVQ-NY1		 	1	1	1	 	1	1								
Duct	FXVQ-NY16 (high static pressure type)		 				1 1 1 1									 	
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Air	flow	rate	500-	1000	m³/h	1						:		
Heat Reclaim Ventilator	VAM-GJVE	001	Air	flow	rate	150-:	2000	m³/h	n								

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

Guidelines for reuse of existing refrigerant piping



Reusability of existing piping for VRV IV Q series

The second state									Piping siz	е						
Type of piping	Capacity				uid							Gas				
		∲ 6.4	\$ 9.5 ¢	\$\$12.7	\$\$15.9	\$19.1	¢22.2	\$12.7	\$\$15.9	\$19.1	\$22.2	\$\$25.4	\$\$\$.6	\$\$4.9	\$\$41.3	\$\$4.
	6 HP	х	SOO			X	х	х	X	SO				х	x	×
	8 HP	х	SO			х	х	х	X	SO				х	X	×
	10 HP	х	SO			х	х	х	X	X	SO			х	x	×
	12 HP	х	X	SO	•	X	х	х	X	X	x	х	SO		x	×
	14 HP	х	X	SO		X	х	х	X	X	х	х	SO		х	×
	16 HP	х	X	SO		х	х	х	X	X	х	х	SO	•	X	×
	18 HP	х	X	X	SO		х	х	X	X	х	х	so		X	×
	20 HP	х	X	×	so		X	×	X	X	X	х	SO		X	×
	22 HP	х	X	X	SO		х	х	X	X	х	х	SO		x	×
	24 HP	х	x	×	SO		х	х	X	Х	х	х	х	SO	•	×
Main piping	26 HP	х	X	×	×	SO		х	X	X	X	х	X	SO	•	×
	28 HP	х	×	×	X	SO	•	×	×	×	×	х	×	SO	•	×
	30 HP	х	×	×	X	SO	•	×	×	×	×	х	×	SO	•	X
	32 HP	х	×	×	×	SO	•	×	X	X	X	х	×	SO	•	×
	34 HP	х	X	×	×	SO		х	X	X	х	х	X	SO		×
	36 HP	х	X	×	×	SO		×	X	Х	х	х	х	X	SO	•
	38 HP	х	X	×	×	so		х	X	X	х	х	×	x	SO	•
	40 HP	х	X	×	×	SO	•	×	X	X	X	х	×	X	SO	•
	42 HP	х	X	×	×	SO	•	×	×	X	X	х	×	×	SO	•
	44 HP	х	×	×	×	SO	•	×	X	X	X	х	×	X	SO	•
	46 HP	х	X	×	×	so		х	X	X	X	х	X	X	SO	•
	48 HP	х	X	X	×	so		х	х	X	X	х	X	X	SO	
	< 100	х	SOO		х	х	х	х	SOO		X	х	X	X	X	×
	$100 \le X < 150$	х	SOO		×	X	х	×	SO		X	х	×	X	X	×
	$150 \le X < 160$	х	SOO		×	х	х	х	х	SOO			х	х	X	×
	$160 \le X \le 200$	х	SO		×	×	х	х	X	SO			X	х	X	×
From	$200 \le X < 290$	х	SO			х	х	х	X	X	SO			х	X	×
REFNET	$290 \le X < 330$	х	X	soo		х	х	х	X	Х	X		SO		х	×
to REFNET 1	$330 \le X < 420$	х	X	SO		х	х	х	X	х	х	х	SO	•	х	×
	$420 \le X < 480$	х	X	×	SOO		x	х	×	X	x	х	SO	•	x	×
	$480 \le X < 640$	х	X	×	SO		х	х	х	X	х	х	SO		x	×
	$640 \le X \le 900$	х	X	×	X	SOO		х	х	Х	х	х	х	SO		
	$900 \le X < 920$	х	X	×	×	SO		х	×	X	х	х	X	SO		•
	920 ≤	х	X	×	×	SO		х	×	X	х	х	X	х	SO	
	20-40 class	SOO		×	×	X	х	S 🔴		X	х	х	х	X	X	×
	50 class	SO		×	×	X	х	SO		X	х	х	х	X	X	×
	63-80 class	х	SOO		×	X	х	0	S●	×	x	х	×	×	x	X
From	100-125 class	х	SOO		×	X	x	×	SO				×	×	x	X
REFNET	140 class	х	SO		×	x	х	х	SO				×	x	x	X
o indoor unit ^{*2}		х	SO		X	x	х	х	X	SO				X	X	×
	250 class	х	SO		X	×	х	х	X	X	SO			х	x	X
	400 class	х	×	SO		×	х	x	×	X	×	×	SO		x	X
	500 class	х	×	SO			X	х	X	X	X	×	SO		X	X

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

: 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. × : Not possible

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

Outdoor Unit Combinations VRV IV Q SERIES

Outdoor Unit Combinations

Standard Type

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units ^{*3}	Maximum number of connectable indoor units*2
6	16.0	150	RQQ6T	RQQ6T	—	75 to 195	9
8	22.4	200	RQQ8T	RQQ8T	—	100 to 260	13
10	28.0	250	RQQ10T	RQQ10T	—	125 to 325	16
12	33.5	300	RQQ12T	RQQ12T	—	150 to 390	19
14	40.0	350	RQQ14T	RQQ14T	—	175 to 455	22
16	45.0	400	RQQ16T	RQQ16T	—	200 to 520	26
18	50.4	450	RQQ18TN	RQQ8T + RQQ10T		225 to 585	29
20	55.9	500	RQQ20TN	RQQ8T + RQQ12T		250 to 650	32
22	61.5	550	RQQ22TN	RQQ10T + RQQ12T		275 to 715	35
24	67.0	600	RQQ24TN	RQQ12T × 2	BHFP22P100	300 to 780	39
26	73.5	650	RQQ26TN	RQQ12T + RQQ14T	BHFP22P100	325 to 845	42
28	78.5	700	RQQ28TN	RQQ12T + RQQ16T		350 to 910	45
30	85.0	750	RQQ30TN	RQQ14T + RQQ16T		375 to 975	48
32	90.0	800	RQQ32TN	RQQ14T + RQQ18T		400 to 1,040	52
34	95.0	850	RQQ34TN	RQQ10T + RQQ12T × 2		425 to 1,105	55
36	101	900	RQQ36TN	RQQ12T × 3		450 to 1,170	58
38	106	950	RQQ38TN	RQQ8T + RQQ12T + RQQ18T		475 to 1,235	61
40	112	1,000	RQQ40TN	RQQ12T × 2 + RQQ16T	BHFP22P151	500 to 1,300	
42	119	1,050	RQQ42TN	RQQ12T + RQQ14T + RQQ16T	DHFP22P131	525 to 1,365	
44	124	1,100	RQQ44TN	RQQ12T + RQQ16T × 2]	550 to 1,430	64
46	130	1,150	RQQ46TN	RQQ14T × 2 + RQQ18T]	575 to 1,495	
48	135	1,200	RQQ48TN	RQQ14T + RQQ16T + RQQ18T		600 to 1,560	

Note: *1 For multiple connection of 18 HP systems and above, the outdoor unit multi connection piping kit (separately sold) is required.

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

*3 When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units. And the connection ratio must not exceed 100%.

Space Saving Type

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*3	Maximum number of connectable indoor units*2
18	50.0	450	RQQ18T	RQQ18T	-	225 to 585	29
20	56.0	500	RQQ20T	RQQ20T	-	250 to 650	32
30	83.5	750	RQQ30TS	RQQ12T + RQQ18T		375 to 975	48
32	89.5	800	RQQ32TS	RQQ12T + RQQ20T		400 to 1,040	52
34	95.0	850	RQQ34TS	RQQ16T + RQQ18T	BHFP22P100	425 to 1,105	55
36	100	900	RQQ36TS	RQQ18T x 2	DHIFZZFIOU	450 to 1,170	58
38	106	950	RQQ38TS	RQQ18T + RQQ20T		475 to 1,235	61
40	112	1,000	RQQ40TS	RQQ20T x 2		500 to 1,300	
42	117	1,050	RQQ42TS	RQQ12T x 2 + RQQ18T		525 to 1,365	
44	123	1,100	RQQ44TS	RQQ12T x 2 + RQQ20T	BHFP22P151	550 to 1,430	64
46	129	1,150	RQQ46TS	RQQ12T + RQQ16T + RQQ18T	BHFF22P151	575 to 1,495	
48	134	1,200	RQQ48TS	RQQ12T + RQQ18T x 2		600 to 1,560	

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

*2 Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor units. *3 When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing

units must not exceed 30% of the capacity index of the outdoor units. And the connection ratio must not exceed 100%.

Specifications

Outdoor Units

Standard Type

MODEL			RQQ6TYM(E)	RQQ8TYM(E)	RQQ10TYM(E)	RQQ12TYM(E)	RQQ14TYM(E)	RQQ16TYM(E)
Combination	units		_	_	_	_	_	
Power supply	/			3 phase 4-	wire system, 38	0-415V/ 380V, 5	0Hz/ 60Hz	
Cooling capa	city	Btu/h	54,600	76,400	95,500	114,000	136,000	154,000
Cooling cape	loity	kW	16.0	22.4	28.0	33.5	40.0	45.0
Power consu	mption	kW	3.63	5.18	6.88	8.82	10.7	13.0
Capacity cor	trol	%	20-100	20-100	16-100	15-100	11-100	10-100
Casing colou	r				lvory white	e (5Y7.5/1)		
	Туре			Н	ermetically Sea	aled Scroll Typ	e	
Compressor	Motor output	kW	2.4X1	3.4X1	4.1X1	5.2X1	(2.9X1)+(3.3X1)	(3.6X1)+(3.7X1)
Airflow rate		m³/min	119	157	165	178	233	233
Dimensions (HxWxD)	mm	1,657X930X765	1,657x930x765	1,657x930x765	1,657x930x765	1,657x1,240x765	1,657X1,240X765
Machine wei	ght	kg	185	185	195	195	285	285
Sound level		dB(A)	55	56	57	59	60	61
Operation rai	nge	°CDB			-5 t	o 49		
Refrigerant	Туре				R-4	10A		
neingerant	Charge	kg	5.9	5.9	6.0	6.3	10.3	10.4
Piping	Liquid	mm		ϕ 9.5 (Brazing)			ϕ 12.7 (Brazing)	
connections	Gas	mm	<i>∳</i> 1 (Bra	9.1 zing)	∕¢22.2 (Brazing)		∕Ø28.6 (Brazing)	

Note : 1. Models with (E) are the outdoor units with anti-corrosion specifications. Please refer to Engineering Data Book for details. 2. Specifications are based on the following conditions;

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

VRV IV Q series

RQQ18TNYM(E)	RQQ20TNYM(E)	RQQ22TNYM(E)	RQQ24TNYM(E)	RQQ26TNYM(E)	RQQ28TNYM(E)	RQQ30TNYM(E)	RQQ32TNYM(E)		
RQQ8TYM(E)	RQQ8TYM(E)	RQQ10TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ14TYM(E)	RQQ14TYM(E)		
RQQ10TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ14TYM(E)	RQQ16TYM(E)	RQQ16TYM(E)	RQQ18TYM(E)		
	3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz								
172,000	191,000	210,000	229,000	251,000	268,000	290,000	307,000		
50.4	55.9	61.5	67.0	73.5	78.5	85.0	90.0		
12.1	14.0	15.7	17.6	19.5	21.8	23.7	26.1		
8-100	8-100	8-100	8-100	6-100	6-100	5-100	5-100		
			Ivory white	e (5Y7.5/1)					
	_	ŀ	lermetically Se	aled Scroll Type	e				
(3.4X1)+ (4.1X1)	(3.4X1)+ (5.2X1)	(4.1×1)+ (5.2×1)	(5.2X1)+ (5.2X1)	(5.2×1)+ (2.9×1)+ (3.3×1)	(5.2X1)+(3.6X1)+ (3.7X1)	(2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1)	(2.9X1)+(3.3X1)+ (4.4X1)+(4.0X1)		
157+165	157+178	165+178	178+178	178+233	178+233	233+233	233+233		
(1,657×930×765)+ (1,657×930×765)	(1,657X930X765)+ (1,657X930X765)	(1,657×930×765)+ (1,657×930×765)	(1,657×930×765)+ (1,657×930×765)	(1,657X930X765)+ (1,657X1,240X765)	(1,657X930X765)+ (1,657X1,240X765)	(1,657x1,240x765)+ (1,657x1,240x765)	(1,657×1,240×765)+ (1,657×1,240×765)		
185+195	185+195	195+195	195+195	195+285	195+285	285+285	285+285		
60	61	61	62	63	63	64	64		
			-5 te	o 49					
			R-4	10A					
5.9+6.0	5.9+6.3	6.0+6.3	6.3+6.3	6.3+10.3	6.3+10.4	10.3+10.4	10.3+10.5		
ϕ 15.9 (Brazing)	∮15.9 (Brazing)	∮15.9 (Brazing)	∮15.9 (Brazing)	∳19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	ϕ 19.1 (Brazing)		
∳28.6 (Brazing)	∳28.6 (Brazing)	∳28.6 (Brazing)	∳34.9 (Brazing)	∳34.9 (Brazing)	ϕ 34.9 (Brazing)	∳34.9 (Brazing)	∲34.9 (Brazing)		

Specifications

Outdoor Units

Standard Type

MODEL		RQQ34TNYM(E)	RQQ36TNYM(E)	RQQ38TNYM(E)	RQQ40TNYM(E)	RQQ42TNYM(E)	RQQ44TNYM(E)			
Combination units			RQQ10TYM(E)	RQQ12TYM(E)	RQQ8TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)		
			RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ14TYM(E)	RQQ16TYM(E)		
			RQQ12TYM(E)	RQQ12TYM(E)	RQQ18TYM(E)	RQQ16TYM(E)	RQQ16TYM(E)	RQQ16TYM(E)		
Power supply			3 phase 4-wire system, 380-415V/ 380V, 50Hz/ 60Hz							
Btu		Btu/h	324,000	345,000	362,000	382,000	406,000	423,000		
Cooling capa	icity	kW	95.0	101	106	112	119	124		
Power consumption		kW	24.5	26.5	29.4	30.6	32.5	34.8		
Capacity control %		%	5-100	5-100	4-100	4-100	4-100	4-100		
Casing colour			Ivory white (5Y7.5/1)							
Туре			Hermetically Sealed Scroll Type							
Compressor	Motor output	kW	(4.1X1)+(5.2X1)+ (5.2X1)	(5.2X1)+(5.2X1)+ (5.2X1)	(3.4x1)+(5.2x1)+ (4.4x1)+(4.0x1)	(5.2X1)+(5.2X1)+ (3.6X1)+(3.7X1)	(5.2X1)+(2.9X1)+ (3.3X1)+(3.6X1)+ (3.7X1)	(5.2X1)+(3.6X1)+ (3.7X1)+(3.6X1)+ (3.7X1)		
Airflow rate		m³/min	165+178+178	178+178+178	157+178+233	178+178+233	178+233+233	178+233+233		
Dimensions (HxWxD)		mm	(1,657×930×765)+ (1,657×930×765)+ (1,657×930×765)	(1,657×930×765)+ (1,657×930×765)+ (1,657×930×765)	(1,657×930×765)+ (1,657×930×765)+ (1,657×1,240×765)	(1,657×930×765)+ (1,657×930×765)+ (1,657×1,240×765)	(1,657×930×765)+ (1,657×1,240×765)+ (1,657×1,240×765)	(1,657×930×765)+ (1,657×1,240×765)+ (1,657×1,240×765)		
Machine weight		kg	195+195+195	195+195+195	185+195+285	195+195+285	195+285+285	195+285+285		
Sound level dB		dB(A)	63	64	64	65	65	65		
Operation range °CDB		°CDB	-5 to 49							
Refrigerant	Туре				R-4	10A				
Reirigerant	Charge	kg	6.0+6.3+6.3	6.3+6.3+6.3	5.9+6.3+10.5	6.3+6.3+10.4	6.3+10.3+10.4	6.3+10.4+10.4		
Piping connections	Liquid	mm	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)		
	Gas	mm	∳34.9 (Brazing)	∕¢41.3 (Brazing)	∮41.3 (Brazing)	∕≠41.3 (Brazing)	∕≠41.3 (Brazing)	∕¢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.
 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.

Space Saving Type

 RQQ46TNYM(E)	RQQ48TNYM(E)								
 RQQ14TYM(E)	RQQ14TYM(E)								
RQQ14TYM(E)	RQQ16TYM(E)								
RQQ18TYM(E)	RQQ18TYM(E)								
3 phase 4-wire system, 38	0-415V/ 380V, 50Hz/ 60Hz								
444,000	461,000								
130	135								
36.8	39.1								
3-100 3-100									
Ivory white	e (5Y7.5/1)								
Hermetically Se	aled Scroll Type								
(2.9X1)+(3.3X1)+ (2.9X1)+(3.3X1)+ (4.4X1)+(4.0X1)	(2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1)+ (4.4X1)+(4.0X1)								
233+233+233	233+233+233								
(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)	(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)								
285+285+285	285+285+285								
66	66								
-5 to	o 49								
R-410A									
10.3+10.3+10.5	10.3+10.4+10.5								
∮19.1 (Brazing)	∮19.1 (Brazing)								
 ∳41.3 (Brazing)	∕¢41.3 (Brazing)								

MODEL			RQQ18TYM(E)	RQQ20TYM(E)		
Combination	units		_	_		
Power supply	/		3 phase 4-wire system, 38	0-415V/ 380V, 50Hz/ 60Hz		
Cooling capa	oity	Btu/h	171,000	191,000		
Cooling capa	ony	kW	50.0	56.0		
Power consu	mption	kW	15.4	18.0		
Capacity con	trol	%	10-100	8-100		
Casing colou	r		lvory white	e (5Y7.5/1)		
	Туре		Hermetically Se	aled Scroll Type		
Compressor	Motor output	kW	(4.4X1)+(4.0X1)	(4.6X1)+(5.5X1)		
Airflow rate		m³/min	233	268		
Dimensions (H×W×D)	mm	1,657x1,240x765	1,657x1,240x765		
Machine weig	ght	kg	285	320		
Sound level		dB(A)	62	65		
Operation rar	nge	°CDB	-5 to	o 49		
Refrigerant Type			R-4	10A		
Refrigerant Charge		kg	10.5	11.8		
Piping	Liquid	mm	∮15.9 (Brazing)	∮15.9 (Brazing)		
connections Gas		mm	∕≠28.6 (Brazing)			

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

2. Specifications are based on the following conditions;

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

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

Specifications

Outdoor Units

Space Saving Type

MODEL			RQQ30TSYM(E)	RQQ32TSYM(E)	RQQ34TSYM(E)	RQQ36TSYM(E)	
			RQQ12TYM(E)	RQQ12TYM(E)	RQQ16TYM(E)	RQQ18TYM(E)	
Combination	units		RQQ18TYM(E)	RQQ20TYM(E)	RQQ18TYM(E)	RQQ18TYM(E)	
			· -		í — '	—	
Power supply	у		3 pha	ase 4-wire system, 380	,0-415V/ 380V, 50Hz/	60Hz	
		Btu/h	285,000	305,000	324,000	341,000	
Cooling capa	city	kW	83.5	89.5	95.0	100	
Power consur	Imption	kW	24.2	26.8	28.4	30.8	
Capacity con	itrol	%	6-100	5-100	5-100	5-100	
Casing colour	ır		1	Ivory white	∋ (5Y7.5/1)		
	Туре		1	Hermetically Sea	aled Scroll Type		
Compressor	Motor output	kW	(5.2X1)+(4.4X1)+ (4.0X1)	(5.2X1)+(4.6X1)+ (5.5X1)	(3.6X1)+(3.7X1)+ (4.4X1)+(4.0X1)	(4.4X1)+(4.0X1)+ (4.4X1)+(4.0X1)	
Airflow rate		m³/min	178+233	178+268	233+233	233+233	
Dimensions (H	H×W×D)	mm	(1,657x930x765)+ (1,657x1,240x765)	(1,657x930x765)+ (1,657x1,240x765)	(1,657x1,240x765)+ (1,657x1,240x765)	(1,657X1,240X765)+ (1,657X1,240X765)	
Machine weig	ght	kg	195+285	195+320	285+285	285+285	
Sound level		dB(A)	64	66	65	65	
Operation rar	nge	°CDB	1	-5 to	ל 49		
Refrigerant	Туре		1	R-41	10A		
Reingerant	Charge	kg	6.3+10.5	6.3+11.8	10.4+10.5	10.5+10.5	
Piping	Liquid	mm	∳19.1 (Brazing)	∳19.1 (Brazing)	∳19.1 (Brazing)	∳19.1 (Brazing)	
connections	Gas	mm	∳34.9 (Brazing)	∳34.9 (Brazing)	∳34.9 (Brazing)	∳41.3 (Brazing)	

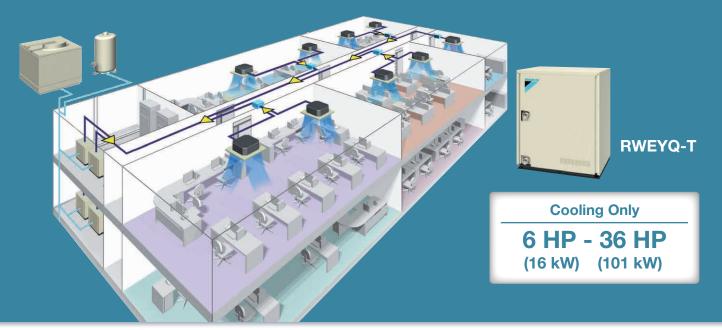
Note : 1. Models with (E) are the outdoor units with anti-corrosion specifications. Please refer to Engineering Data Book for details. 2. Specifications are based on the following conditions;

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

VRV IV Q series

RQQ38TSYM(E)	RQQ40TSYM(E)	RQQ42TSYM(E)	RQQ44TSYM(E)	RQQ46TSYM(E)	RQQ48TSYM(E)			
RQQ18TYM(E)	RQQ20TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)			
RQQ20TYM(E)	RQQ20TYM(E)	RQQ12TYM(E)	RQQ12TYM(E)	RQQ16TYM(E) RQQ18TYM				
_	—	RQQ18TYM(E)	RQQ20TYM(E)	RQQ18TYM(E)	RQQ18TYM(E)			
	3 phas	e 4-wire system, 38	0-415V/ 380V, 50H	z/ 60Hz				
362,000	382,000	399,000	420,000	440,000	457,000			
106	112	117	123	129	134			
33.4	36.0	33.0	35.6	37.2	39.6			
4-100	4-100	4-100	4-100	4-100	4-100			
		Ivory white	e (5Y7.5/1)					
		Hermetically Se	aled Scroll Type					
(4.4×1)+(4.0×1)+ (4.6×1)+(5.5×1)	(4.6×1)+(5.5×1)+ (4.6×1)+(5.5×1)	(5.2×1)+(5.2×1)+ (4.4×1)+(4.0×1)	(5.2×1)+(5.2×1)+ (4.6×1)+(5.5×1)	(5.2×1)+(3.6×1)+ (3.7×1)+(4.4×1)+ (4.0×1)	(5.2×1)+(4.4×1)+ (4.0×1)+(4.4×1)+ (4.0×1)			
233+268	268+268	178+178+233	178+178+268	178+233+233	178+233+233			
(1,657×1,240×765)+ (1,657×1,240×765)	(1,657×1,240×765)+ (1,657×1,240×765)	(1,657x930x765)+ (1,657x930x765)+ (1,657x1,240x765)	(1,657x930x765)+ (1,657x930x765)+ (1,657x1,240x765)	(1,657X930X765)+ (1,657X1,240X765)+ (1,657X1,240X765)	(1,657×930×765)+ (1,657×1,240×765)+ (1,657×1,240×765)			
285+320	320+320	195+195+285	195+195+320	195+285+285	195+285+285			
67	68	65	67	66	66			
		-5 t	o 49					
		R-4	10A					
10.5+11.8	11.8+11.8	6.3+6.3+10.5	6.3+6.3+11.8	6.3+10.4+10.5	6.3+10.5+10.5			
∳19.1 (Brazing)	∳19.1 (Brazing)	ϕ 19.1 (Brazing)	∳19.1 (Brazing)	∳19.1 (Brazing)	∳19.1 (Brazing)			
∳41.3 (Brazing)				∳41.3 (Brazing)	∕¢41.3 (Brazing)			

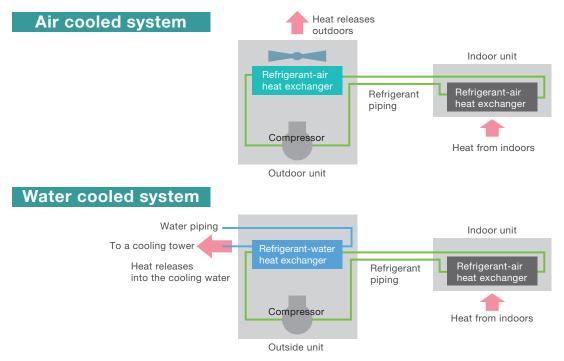
VRV IV W SERIES Water Cooled



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

What is a water cooled system?

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



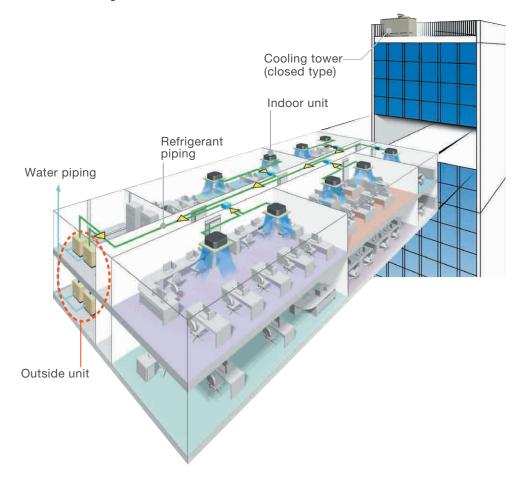
As a water cooled system does not require to exchange heat with outdoor air, • Outside units can be installed indoors, for example, on basement floors.

→High installation flexibility

• The air conditioning operation is stable even when the outdoor air temperature is high. →Improved comfort

Inverter Series

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



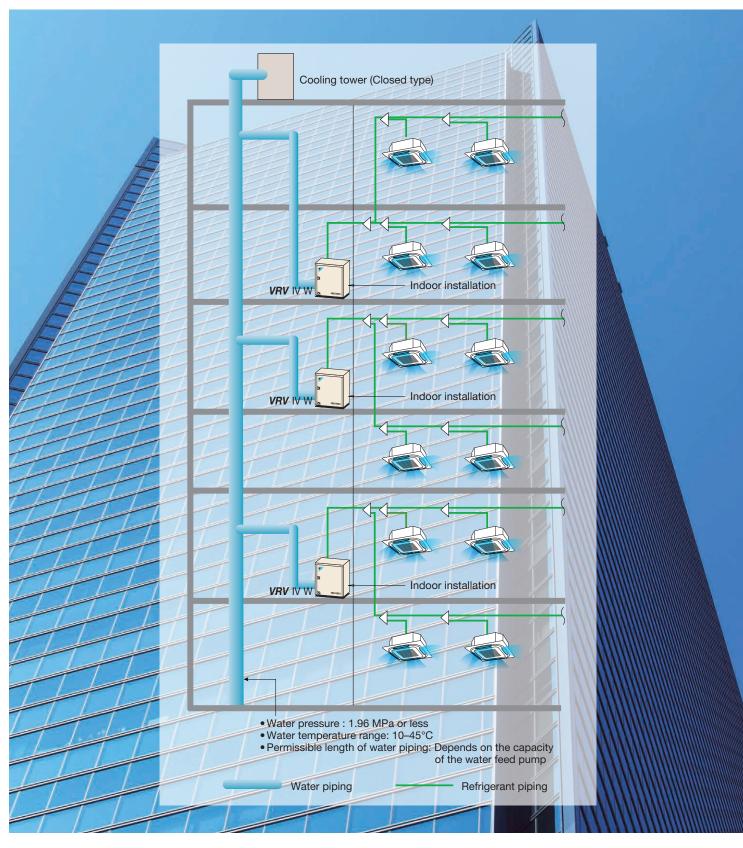
- Individual air conditioning is achieved via on-demand operation in each room.
- Outside units can be installed anywhere in a building if they can be connected with water piping.
- The length of the refrigerant piping can be minimized by installing outside units in proximity to indoor units.

 $\left[\text{ The system can easily fit into long building floors.} \right]$

- [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.

Design Flexibility

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



URU IV W series

No balcony

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

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

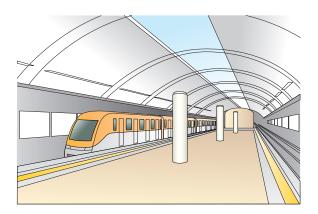


Refrigerant liquid pipe Nater Pipe Nater Pipe Nater Pipe A minimum of 300 mm (100 to 300 mm) Drain Pipe

* Only for the purpose of illustration.

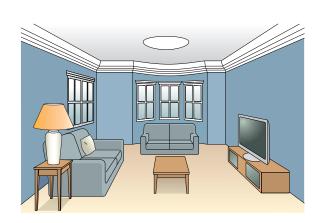
Easy to install in underground shopping malls and subway systems

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



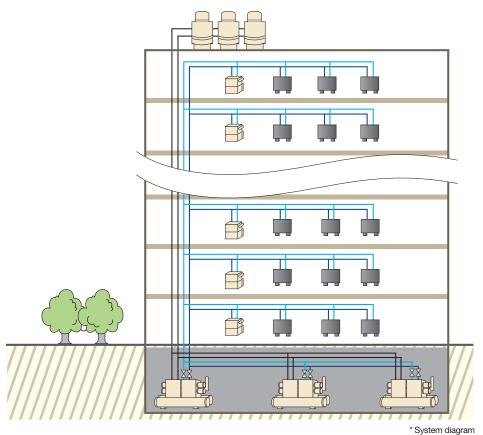
Also recommended for condominiums and detached houses

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



Renovation of an Air Conditioning System

Rising problems for old, conventional water system



System ulagi

?

Why is renovation necessary?

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

Troublesome issues in renovation?

- 1 How to avoid damaging the building structure?
- 2 How to reduce the impact on tenants during renovation?
- 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/Renovation

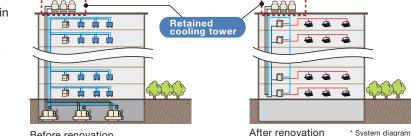
Problems with existing water systems can be solved with minimal construction work.

Indoor installation solves the puzzle of proper placement of outdoor units

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

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

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



Before renovation

After renovation

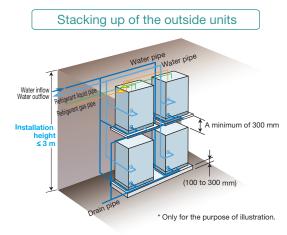
/RV IV W SERIES

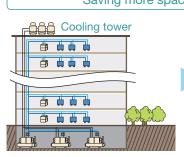
3 The compact outside units facilitate the renovation process and saves space for the outside unit area

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

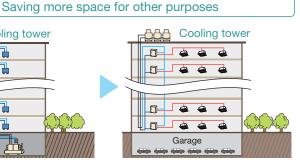


• The modular design featured by the water cooled VRV IV W series enables a free and flexible configuration of the outside units. Outside units can be arranged with one on top of another, saving space for other purposes.





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

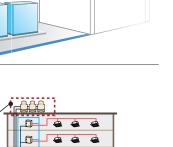


With the water cooled VRV IV W series, the outside units are modular design and can be arranged more freely and flexibly, saving part of the outside unit room for purposes such as business or car parking.

* System diagram

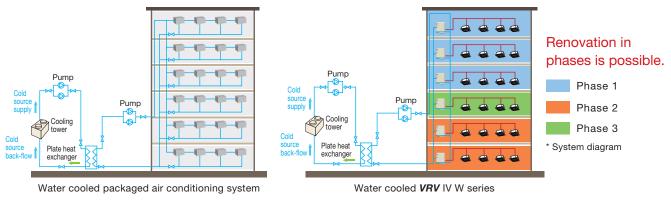


VRV IV W SERIES



4 Floor by floor renovation without disturbing other tenants

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



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

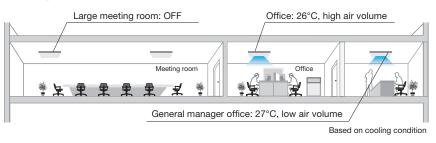
The outside units and indoor units of the water cooled VRV IV W series are connected by refrigerant pipes. As the VRV indoor units and the diameter of refrigerant pipes are significantly smaller than duct and water pipes, less ceiling space is occupied and more floor height is saved. Less work is needed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



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

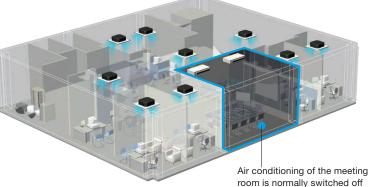
1 Independent control provides greater comfort and convenience

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



2 Higher efficiency with partial load

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



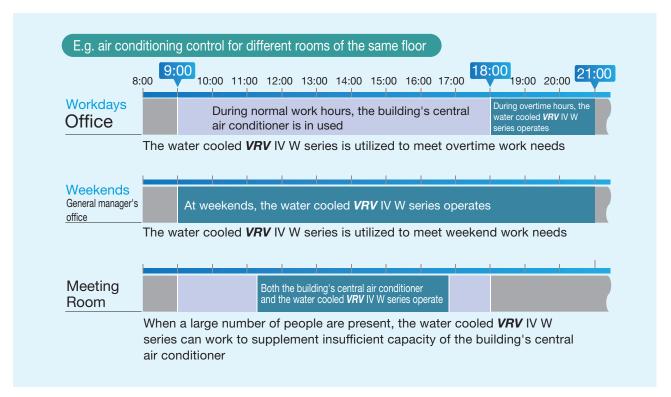
Actual conditions of the floor

room is normally switched off

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

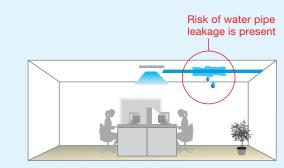
When teaming up with a conventional central air conditioning system, the water cooled *VRV* IV W series can easily handle the air conditioning needs for working after-hours while the building's central air conditioner can be utilized during normal work hours. The water cooled *VRV* IV W series can be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

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



4 Connection using refrigerant pipes eliminate the risk of water leakage

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



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



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

Easy Installation

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.

1,000 1,000 1,000 146 kg* (*For 6 HP, 8 HP) 550 mm Footprint : 0.43 m² Product Weight : 146 kg

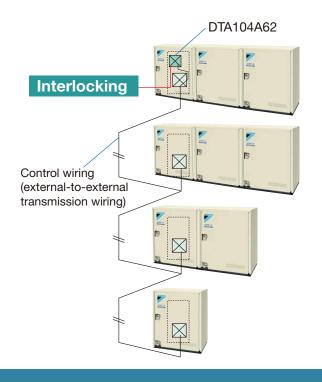
VRV III W series **VRV** IV W SERIES 24 HP(8 HP+8 HP+8 HP) 24 HP(12 HP+12 HP) 550 mm 1,560 mm 2.340 mm ["]550 mm 33% Decrease Footprint 1.29 m² 0.86 m² **Product Weight** 447 kg 294 kg 34% Decrease

Enhanced usability

Centralised interlocking function

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

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

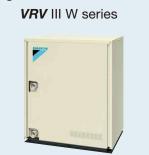


Energy Saving

Enhanced lineup

Wider capacity range from 6 to 36 HP

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



Single outside unit

8 HP, 10 HP

VRV IV W SERIES



6 HP, 8 HP, 10 HP, 12 HP

VRV IV W series



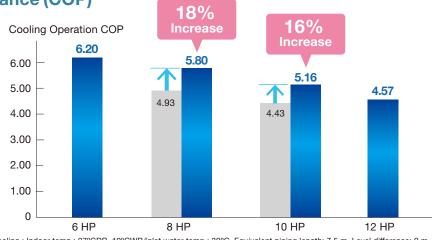
Capacity Range	HP kW	6 16.0	8 22.4	10 28.0	12 33.5	14 38.4	16 44.8	18 50.4	20 56.0	22 61.5	24 67.0	26 72.8	28 78.4	30 84.0	32 89.4	34 95.0	36 101
Conventiona VRV III W se																	
VRV IV N	Vseries																

Energy saving

Higher Coefficient of Performance (COP)

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

> VRV III W series VRV IV W SERIES



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

VRT-Variable Refrigerant Temperature

State-of-the-art energy saving technology

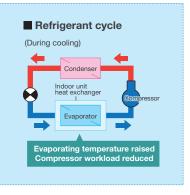
Customise your VRV system for optimal annual efficiency

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.

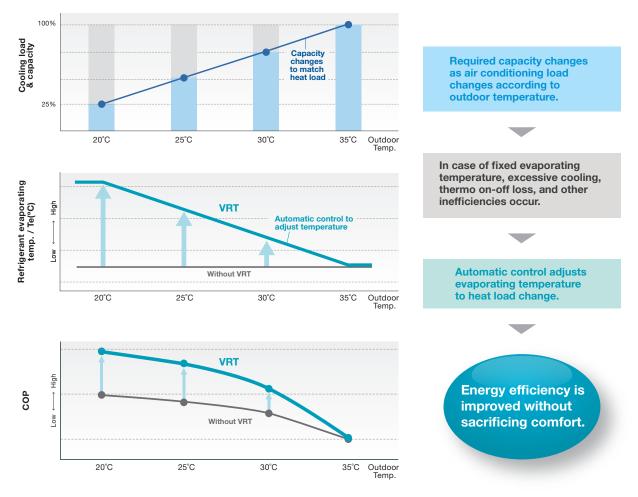
How is energy reduced?

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





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

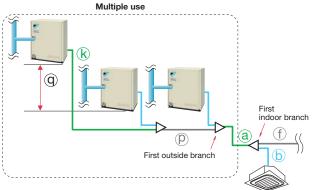


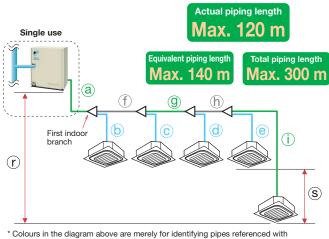
More Flexible System Design JRJ IV W SERIES

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.





RA

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

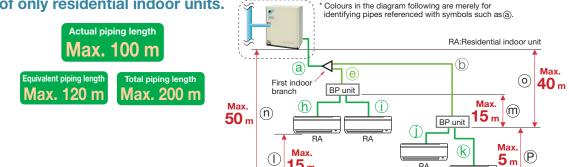
			Actual piping length	Example	Equivalent piping length
	Refrigerant piping length		120 m	a+f+g+h+i	140 m
Max. allowable	Total piping length		300 m	a+b+c+d+e+f+g+h+i	-
piping length	Between the first indoor branc	h and the farthest indoor unit	90 m* ¹	f+g+h+i	_
	Between the first outside brand	ch and the last outside unit	10 m	k+p	13 m
Max.	Between the outside units (mu	Itiple 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	_

symbols such as(a)

*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.

Single use only

For connection of only residential indoor units.



15 m

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

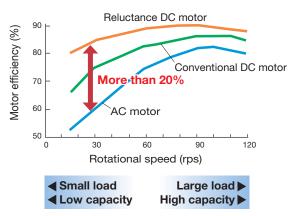
*1. When the piping length exceeds 20 m, the size of the main pipes (the gas side and the liquid side) must be increased. Please refer to Engineering Data Book for details.

Advanced Technologies Achieve

High efficiency compressor to achieve a high COP

Compressor equipped with Reluctance DC motor

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

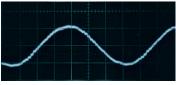


Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory using Daikin products.

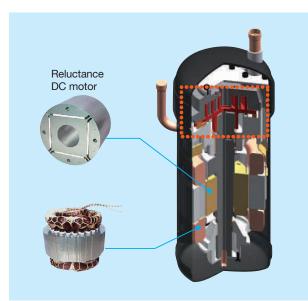
- *1 A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
- *2 The torque created by the change in power between the iron and magnet parts.

Smooth sine wave DC inverter

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

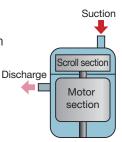


Sine wave DC inverter



Scroll compressor

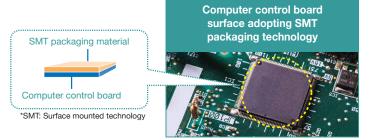
Sucked gas is compressed in the scrolling part before the heated motor, so that the Dis machine compress the non-expanded gas, resulting in high efficiency compression.



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.

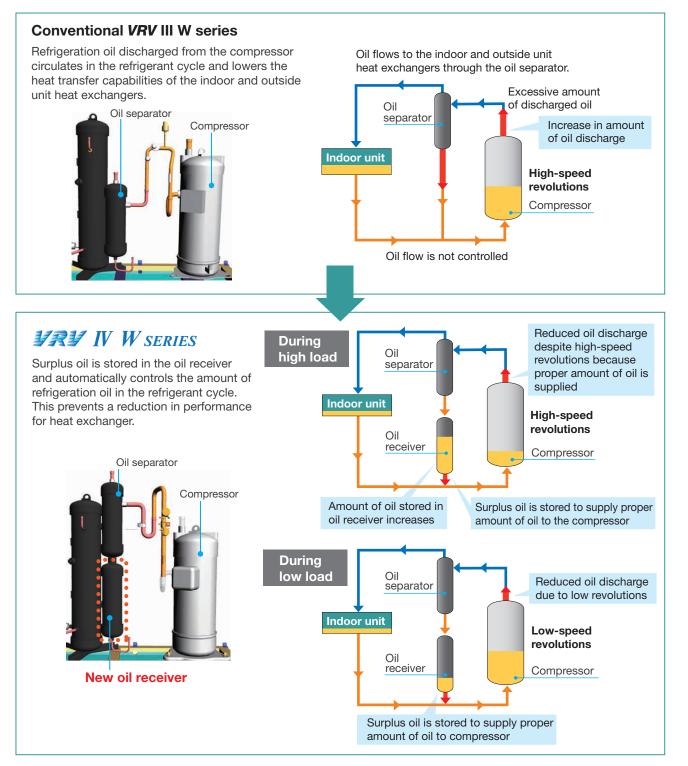


Excellent Performance **VRV** IN W SERIES

Minimize performance degradation from refrigeration oil in all stages of operation

Newly designed oil receiver

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



Reliable and Stable System

Simplified commissioning and after-sales service

Function of information display by luminous digital tube

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





Conventional LED display

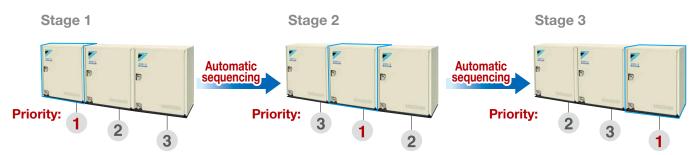
Figures out system operation information by reading light emitting state of different diodes, which is both inefficient and fallible.



Outside unit sequencing technology

Automatic sequencing operation

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



Reliable and convenient air conditioning system

Auto-restart technology after power interruption

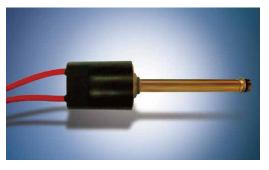
Whether the indoor or outside unit accidentally experiences a power interruption during normal operation or not, the system will keep a record of the operating mode adopted before the power interruption. When the power supply recovers, the air conditioning system will then restore itself back into the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

Refrigerant pressure detection technology makes system operation more stable and efficient

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

More stable operation

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



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

More efficient operation

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

Outside Unit Combinations

For connection of only VRV indoor units

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

*1. An outside unit multi connection piping kit (option) is necessary for multiple connections of 14 HP systems and above.

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

For connection of only residential indoor units

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

*1. Only single outdoor unit (RWEYQ6-12T) can be connected.

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

Indoor Unit Lineup

Enhanced range of choices

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

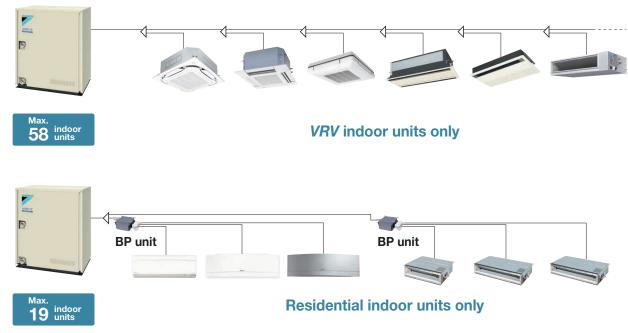
14

/RV indoor units															1	lew l	ineı
Туре	Model Name	Capacity Range	20 0.8 HP	25 1 HP	32 1.25 HP	40 1.6 HP	50 2 HP	63 2.5 HP	71 3 HP	80 3.2 HP	100 4 HP	125 5 HP	140 6 HP	200 8 HP	250 10 HP	400 16 HP	500 20 F
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	50
Ceiling Mounted Cassette Round Flow with Sensing)	New FXFSQ-AVM												New capacity				
Ceiling Mounted Cassette Round Flow)	New FXFQ-AVM								 				New capacity				
Ceiling Mounted Cassette Compact Multi Flow)	FXZQ-MVE								 		 				 		
Ceiling Mounted Cassette Double Flow)	FXCQ-MVE								 								
Ceiling Mounted Cassette Corner	FXKQ-MAVE						 		 								
	FXDQ-PDVE (with drain pump)						1	- - - -	- - - - -		, , , ,				 		
Slim Ceiling	New FXDQ-PDVET (without drain pump)	(700mm width type)					 	1	 		 	1	1		 		
Mounted Duct Standard Series)	New FXDQ-NDVE (with drain pump)								I I I I	 	 	1 1 1 1	 		1 1 1 1		
	New FXDQ-NDVET (without drain pump)	(900 / 1,100mm width type)							 								1 1 1 1
Slim Ceiling Aounted Duct Compact Series)	FXDQ-SPV1								- - - - - - -								
Aiddle Static Pressure Ceiling Aounted Duct	New FXSQ-PAVE								 								
Ceiling Mounted	FXMQ-PAVE																
Duct	FXMQ-MVE9						- - - - -		1	- - - -	- 	1	1				
Dutdoor-Air Processing Unit	FXMQ-MFV1				 		 		 		1 1 1 1 1						
4-Way Flow Ceiling Suspended	FXUQ-AVEB																
Ceiling Suspended	FXHQ-MAVE	_					 		 			- - - - - - - - -					
Vall Mounted	FXAQ-PVE								 								
Floor Standing	FXLQ-MAVE								 	- - - - - - - -	 	1	- - - - - - - - - - - - - - - - - - -		 		
Concealed Floor Standing	FXNQ-MAVE																
loor Standing	FXVQ-NY1						 		 	1					•		
Floor Standing Duct	FXVQ-NY16 (high static pressure type)				1		 	1	 	 			1				
Heat Reclaim Ventilator vith DX-Coil and Humidifier	VKM-GA(M)V1		Airf	flow	rate :	500-	1000	: m³/h	1								
Heat Reclaim Ventilator	VAM-GJVE	001	Airf	low	rate [·]	150-:	2000	m³/h	1								

			25	35	50	60	71
Туре	Model Name	Rated Capacity (kW)		3.5	5.0	6.0	7.1
		Capacity Index	25	35	50		71
Slim Ceiling	FDKS-EAVMB	(700 mm width type)					
Mounted Duct	FDKS-C(A)VMB	(900/1,100 mm width type)					
	FTKJ-NVMMW						
	FTKJ-NVMMS						
Wall Mounted	FTKS-DVM						
	FTKS-BVMA						
	FTKS-FVM		1 1 1 1 1 1 1				

Residential indoor units with connection to BP units

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



*Refer to page 90 for the maximum number of connectable indoor units.

Specifications

Outside Units

Cooling Only

				D B							
MODEL			RWEYQ6TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ12TYM					
			-	-	-	-					
Combination u	inits		-	-	-	-					
			-	-	-	-					
Power supply				3-phase 4-wire system, 3	80-415 V/380 V, 50/60 Hz	2					
Cooling capacity		Btu/h	54,600	76,400	95,500	114,000					
Obbiling capacity		kW	16.0	22.4	28.0	33.5					
Power consumpti	on	kW	2.58	3.86	5.43						
Casing colour				Ivory white	e (5Y7.5/1)						
Dimensions (H×W	/×D)	mm		1,000 × 7	780 × 550						
Compressor	Туре										
Compressor	Motor output	kW	1.9	2.8	3.7	4.7					
Refrigerant piping	Liquid				·						
connections	Suction gas *1	mm	∮19.1 (E	Brazing)	\$ 22.2 (E	Brazing)					
oonneetterie	High and low pressure gas		∲19.1 (Br	azing) *2	∮22.2 (Br	azing) *2					
Water piping	Water inlet			PT1 1/4B in	ternal thread						
connections	Water outlet			PT1 1/4B in	ternal thread						
	Drain outlet			PS1/2B int	ernal thread						
Machine weight (Operating weight)	kg	146	146 (148) 147 (149)							
Sound level		dB(A)	49	50	51	53					
Operation range (Inlet water temp.)	°C		10 t	o 45						
Capacity control		%	23-	23-100 19-100							
Refrigerant	Туре										
charge	Charge	kg	3	.5	4	.2					

MODEL			RWEYQ26TYM	RWEYQ28TYM	RWEYQ30TYM			
			RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM			
Combination u	inits		RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM			
			RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM			
Power supply			3-phase	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				
Cooling capacity		Btu/h	248,000	268,000	287,000			
Cooling capacity		kW	72.8	78.4	84.0			
Power consumpti	ion	kW	13.2	14.7	16.3			
Casing colour				Ivory white (5Y7.5/1)				
Dimensions (H×W	√×D)	mm		(1,000 × 780 × 550) × 3				
Compressor	Туре			Hermetically sealed scroll type				
Compressor	Motor output	kW	2.8 × 2 + 3.7	2.8 + 3.7 × 2	3.7 × 3			
Refrigerant piping	Liquid			¢19.1 (Flare)				
connections	Suction gas *1	mm		∮ 34.9 (Brazing)				
	High and low pressure gas							
	Water inlet			(PT1 1/4B) × 3 internal thread				
Water piping connections	Water outlet			(PT1 1/4B) × 3 internal thread				
	Drain outlet			(PS1/2B) × 3 internal thread				
Machine weight (0	Operating weight)	kg	146 × 2 + 147 (148 × 2 + 149)	146 + 147 × 2 (148 + 149 × 2)	147 × 3 (149 × 3)			
Sound level		dB(A)	55	56	6			
Operation range (Inlet water temp.)	°C		10 to 45				
Capacity control		%	21-100	20-100	19-100			
Refrigerant	Туре			R-410A				
charge	Charge	kg	3.5 + 3.5 + 4.2	3.5 + 4.2 + 4.2	4.2 + 4.2 + 4.2			

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.
 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.

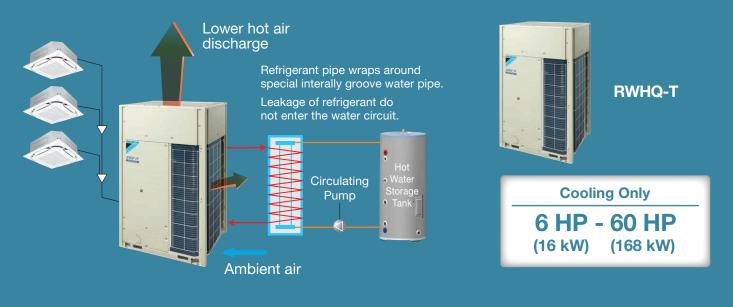
This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).
 Hold ambient temperature at 0-40°C and humidity at 80%RH or less. Heat rejection from the casing: 0.51 kW/6-8 HP/hour, 0.58 kW/10-12 HP/hour.
 Connectable to closed type cooling tower only. *1: In the case of cooling only system, suction gas pipe is not used. *2: In the case of cooling only system.

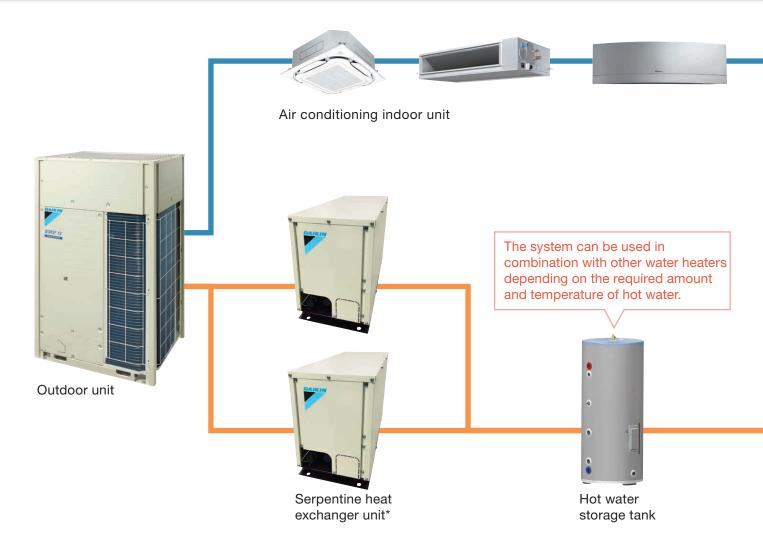
		E B			
RWEYQ14TYM	RWEYQ16TYM	RWEYQ18TYM	RWEYQ20TYM	RWEYQ22TYM	RWEYQ24TYM
RWEYQ6TYM	RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM
RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM
-	-	-	-	-	-
		3-phase 4-wire system, 3	80-415 V/380 V, 50/60 Hz		
131,000	153,000	172,000	191,000	210,000	229,000
38.4	44.8	50.4	56.0	61.5	67.0
6.44	7.72	9.29	10.9	12.8	14.7
		lvory white	e (5Y7.5/1)		
		(1,000 × 780	0 × 550) × 2		
		Hermetically se	aled scroll type		
1.9 + 2.8	2.8 × 2	2.8 + 3.7	3.7 × 2	3.7 + 4.7	4.7 × 2
<i>¢</i> 12.7	(Flare)	\$ 15.9	(Flare)	¢ 19.1	(Flare)
		<i>∲</i> 28.6 (E	Brazing)		
		∮ 28.6 (Br	azing) *2		
		(PT1 1/4B) × 2	internal thread		
		(PT1 1/4B) × 2	internal thread		
		(PS1/2B) × 2	internal thread		
146 × 2	(148 × 2)	146 + 147 (148 + 149)		147 × 2 (149 × 2)	
 5	3	5	4	55	56
		10 te	o 45		
 23-	100	20-100		19-100	
		R-4	10A		
 3.5 -	- 3.5	3.5 + 4.2		4.2 + 4.2	

RWEYQ32TYM	RWEYQ34TYM	RWEYQ36TYM
RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM
RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM
RWEYQ12TYM	RWEYQ12TYM	RWEYQ12TYM
3-pha	se 4-wire system, 380-415 V/380 V, 5	50/60 Hz
305,000	324,000	345,000
89.5	95.0	101
18.2	20.1	22.0
	lvory white (5Y7.5/1)	
	(1,000 × 780 × 550) × 3	
	Hermetically sealed scroll type	
3.7 × 2 + 4.7	3.7 + 4.7 × 2	4.7 × 3
	¢19.1 (Flare)	
	\$ 34.9 (Brazing)	
	∮34.9 (Brazing) *2	
	(PT1 1/4B) \times 3 internal thread	
	(PT1 1/4B) × 3 internal thread	
	(PS1/2B) \times 3 internal thread	
	147 × 3 (149 × 3)	
	57	58
	10 to 45	
	19-100	
	R-410A	
	4.2 + 4.2 + 4.2	

 $\boldsymbol{\cdot} \textsc{Be}$ sure to refer to the Engineering Data Book for facility design.

URV IV HEAT RECOVERY Suitable for





different business applications **URV** IN HEAT RECOVERY HOT WATER SYSTEM

Flexible combination of *VRV* IV indoor units achieves comfort and aesthetic



Extremely energy-efficient energy source

HOT WATER SUPPLY





The energy-efficient system recovers waste heat

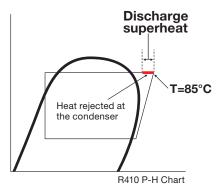
Waste heat from air conditioning (which usually released into the ambience) is recovered to heat water.

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

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



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



Air conditioning combined with hot water supply Compact system

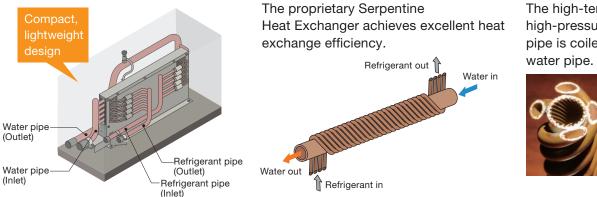
Energy to supply hot water Cost-effective

Hot water temperature Up to 65 °C

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

as energy to heat water.

The Serpentine Heat Exchanger Unit recovers heat.



The high-temperature, high-pressure refrigerant pipe is coiled around the

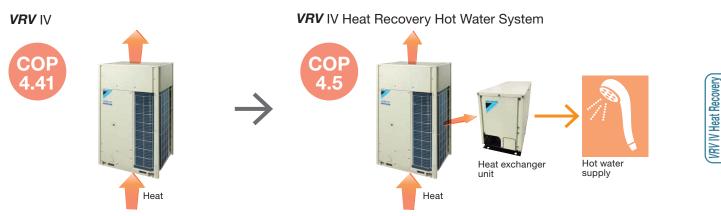


Refrigerant leakage does not contaminate water.

Increased energy efficiency of the outdoor unit

The waste heat from air conditioning is transferred to heat water.

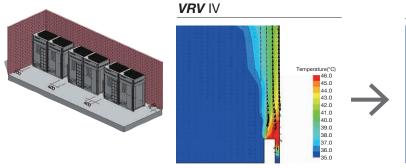
This mechanism reduces the amount of heat processed by the outdoor unit, resulting in better operation efficiency.



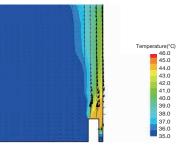
* Comparison of air conditioning using a 6 HP outdoor unit

Reducing short circuits

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



VRV IV Heat Recovery Hot Water System



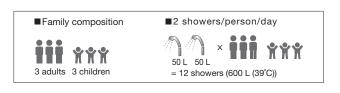
* Comparison of air conditioning using a 6 HP outdoor unit

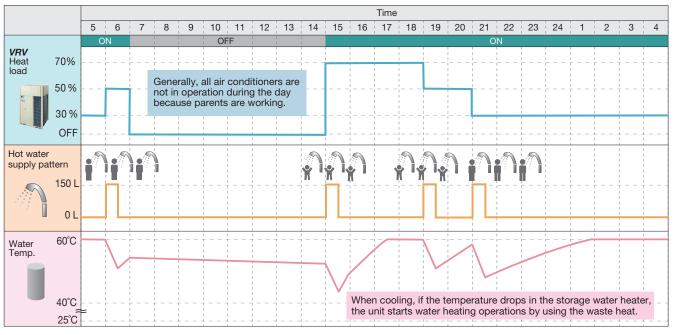
Hot Water System

Innovative and reliable system

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

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





Air conditioner load conditions

Operation time: 16 hours/day

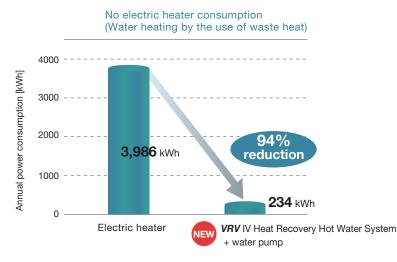
Water-heating load Tank capacity: 200 L

Boiling temperature: 25°C to 60°C (tap water)

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

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

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



VRV IV Heat Recovery Hot Water Controller

Features

Convertible Remote Controller

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

Anti-Bacteria

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

Vacation Mode

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



Auto Restart

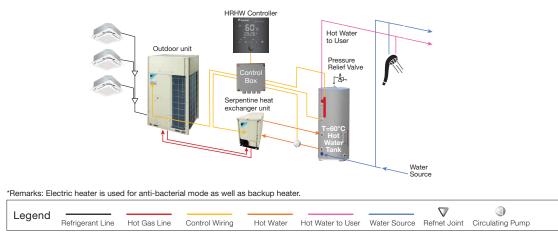
When power supply is restored after a failure, the system would revert to the last operational function.

Safety-Error Code

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

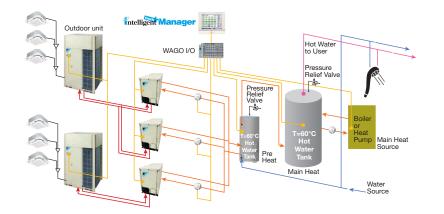
VRV IV Heat Recovery Hot Water System overview

Schematic Diagram For Residential Application



VRV IV Heat Recovery Hot Water System

Schematic Diagram For Commercial Application



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

Legend							∇	۲
	Refrigerant Line	Hot Gas Line	Control Wiring	Hot Water	Hot Water to User	Water Source	Refnet Joint	Circulating Pump

One of the Proposed Commercial Schematic Diagrams

Indoor Unit Lineup

Enhanced range of choices

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

VRV indoor units

VRV indoor units																New I	
Туре	Model Name	Capacity Range	20 0.8 HP	25 1 HP	32 1.25 HP	40 1.6 HP	50 2 HP	63 2.5 HP	71 3 HP	80 3.2 HP	100 4 HP	125 5 HP	140 6 HP	200 8 HP	250 10 HP	400 16 HP	500 20 H
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140 New	200	250	400	500
Ceiling Mounted Cassette (Round Flow with Sensing)	New FXFSQ-AVM								 				capacity		 		1
Ceiling Mounted Cassette (Round Flow)	New FXFQ-AVM												New capacity				
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE										 						
Ceiling Mounted Cassette (Double Flow)	FXCQ-MVE										 		 	 			
Ceiling Mounted Cassette Corner	FXKQ-MAVE						 										
	FXDQ-PDVE (with drain pump)						 		 	1	 	1	1	1			1
Slim Ceiling	FXDQ-PDVET (without drain pump)	(700mm width type)					 	1	 	 	 	1	1	I I I I		1	1
Mounted Duct (Standard Series)	New FXDQ-NDVE (with drain pump)		-	 	1 1 1 1				 	1 1 1 1	 	1	 	 	 	 	1
	New FXDQ-NDVET (without drain pump)	(900 / 1,100mm width type)	 	1 1 1 1	 				 		 	 		1 1 1 1			
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1																
Middle Static Pressure Ceiling Mounted Duct	New FXSQ-PAVE																
Ceiling Mounted	New FXMQ-PAVE													 		1	
Duct	FXMQ-MVE9		-	1			1	1	1		 	- - - - -	1				
Outdoor-Air Processing Unit	FXMQ-MFV1			1 1 1 1 1			 		 		 						
4-Way Flow Ceiling Suspended	FXUQ-AVEB				 										 		
Ceiling Suspended	FXHQ-MAVE			- 			 		 			1			 		
Wall Mounted	FXAQ-PVE									- - - - - -	- - - - - - - -						
Floor Standing	FXLQ-MAVE									1 1 1 1 1 1	 						
Concealed Floor Standing	FXNQ-MAVE										 				 		
Floor Standing	FXVQ-NY1		 	 	1		 	1	 	1 1 1	 		1				
Duct	FXVQ-NY16 (high static pressure type)		 	I I I I			 	1	 	1	 	 		I I I I		1	
Clean Room	FXBQ-PVE		 								1						
Air Conditioner	FXBPQ-PVE			1							 	1		1	1	1	
Heat Reclaim Ventilator with DX-Coil and Humidifier	VKM-GA(M)V1		Air	flow	rate	500-	1000	m³/h									
Heat Reclaim Ventilator	VAM-GJVE	0.07	Air	flow	rate	150-2	2000	m³/h									
Air Handling Unit	AHUR												6–120) HP			
			1														

			25	35	50	60	71
Туре	Model Name	Rated Capacity (kW)	2.5	3.5	5.0	6.0	7.1
		Capacity Index	25	35	50	60	71
Slim Ceiling Mounted Duct	FDKS-EAVMB	(700 mm width type)	•	•			
Mounted Duct	FDKS-C(A)VMB	(900/1,100 mm width type)	•	•	•	•	
	FTKJ-NVMMW						
	FTKJ-NVMMS		•	•	•		
Wall Mounted	FTKS-DVM		•				
	FTKS-BVMA						
	FTKS-FVM						•

Residential indoor units with connection to BP units









Note: BP units (BPMKS967A2/3) are necessary for residential indoor units. *Some model names might differ and some products might not be available depending on the country of sale. For further information, please contact one of our sales companies.

Specifications

Outdoor Units

High-COP Type

MODEL			RWHQ12THYM	RWHQ14THYM	RWHQ16THYM	RWHQ18THYM	RWHQ20THYM	RWHQ22THYM	RWHQ24THYM
			RWHQ6TYM	RWHQ6TYM	RWHQ8TYM	RWHQ6TYM	RWHQ6TYM	RWHQ6TYM	RWHQ8TYM
Combination	units		RWHQ6TYM	RWHQ8TYM	RWHQ8TYM	RWHQ6TYM	RWHQ6TYM	RWHQ8TYM	RWHQ8TYM
						RWHQ6TYM	RWHQ8TYM	RWHQ8TYM	RWHQ8TYM
Power supply	/			3-pha	se 4-wire sys	stem, 380–4 ⁻	15/380 V, 50	/60 Hz	
Cooling capa	oity	Btu/h	109,000	131,000	153,000	164,000	186,000	207,000	229,000
Cooling capa	City	kW	32.0	38.4	44.8	48.0	54.4	60.8	67.2
Power consu	mption	kW	7.10	8.68	10.3	10.7	12.2	13.8	15.4
Capacity con	trol	%	10-100	10-100	10-100	7-100	7-100	7-100	7-100
Casing colou	r				lvory	/ white(5Y7.	5/1)		
	Туре			Hermetically Sealed Scroll Type					
Compressor	Motor output	kW	(2.4x1)+ (2.4x1)	(2.4x1)+ (3.4x1)	(3.4x1)+ (3.4x1)	(2.4x1)+ (2.4x1)+ (2.4x1)	(2.4x1)+ (2.4x1)+ (3.4x1)	(2.4x1)+ (3.4x1)+ (3.4x1)	(3.4x1)+ (3.4x1)+ (3.4x1)
Airflow rate		m³/min	119+119	119+157	157+157	119+119+119	119+119+157	119+157+157	157+157+157
Dimensions (HxWxD)	mm	(1,657x930x765)+ (1,657x930x765)		(1,657x930x765)+ (1,657x930x765)	(1,657x930x765)+	(1,657x930x765)+	(1,657x930x765)+	(1,657x930x765)+
Machine weig	ght	kg	185+185	185+185	185+185	185+185+185	185+185+185	185+185+185	185+185+185
Sound level		dB(A)	58	59	59	60	60	60	61
Operation rar	nge	°CDB				15 to 49			
Refrigerant	Туре					R-410A			
nemgerant	Charge	kg	6.4+6.4	6.4+6.4	6.4+6.4	6.4+6.4+6.4	6.4+6.4+6.4	6.4+6.4+6.4	6.4+6.4+6.4
Piping connections	Liquid	mm	∳12.7 (Brazing)	∮12.7 (Brazing)	∳12.7 (Brazing)	∮15.9 (Brazing)	∮15.9 (Brazing)	∮15.9 (Brazing)	∮15.9 (Brazing)
(Indoor unit)	Gas	mm	∕≠28.6 (Brazing)	∕⁄ 28.6 (Brazing)	∕¢28.6 (Brazing)	∮28.6 (Brazing)	∕≠28.6 (Brazing)	∕28.6 (Brazing)	∮34.9 (Brazing)
Piping connections /Heat	Inlet pipe	mm	¢1	9.1(Brazing)	×2)		¢19.1(Bi	razingx3)	
exchanger unit	Outlet pipe	mm	¢1	9.1(Brazing)	×2)		∳19.1(Bi	razingX3)	

Note: Specifications are based on the following conditions;

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

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

RWHQ26THYM	RWHQ28THYM	RWHQ30THYM	RWHQ32THYM	RWHQ34THYM	RWHQ36THYM	RWHQ38THYM	RWHQ40THYM
RWHQ8TYM	RWHQ8TYM	RWHQ8TYM	RWHQ8TYM	RWHQ8TYM	RWHQ8TYM	RWHQ12TYM	RWHQ12TYM
RWHQ8TYM	RWHQ8TYM	RWHQ10TYM	RWHQ12TYM	RWHQ12TYM	RWHQ14TYM	RWHQ12TYM	RWHQ14TYM
RWHQ10TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ14TYM	RWHQ14TYM	RWHQ14TYM	RWHQ14TYM
		3-phase 4	-wire system, 3	380–415/380 V,	50/60 Hz		
248,000	267,000	286,000	305,000	327,000	348,000	365,000	389,000
72.8	78.3	83.9	89.4	95.9	102	107	114
17.5	19.2	21.3	23.0	24.9	26.7	28.7	30.5
6-100	6-100	5-100	5-100	5-100	4-100	4-100	4-100
			Ivory white	e (5Y7.5/1)			
		F	lermetically Se	aled Scroll Type	e		
(3.4x1)+ (3.4x1)+ (4.1x1)	(3.4x1)+ (3.4x1)+ (5.2x1)	(3.4x1)+ (4.1x1)+ (5.2x1)	(3.4x1)+ (5.2x1)+ (5.2x1)	(3.4x1)+(5.2x1)+ (2.9x1)+(3.3x1)	(3.4x1)+(2.9x1)+ (3.3x1)+(2.9x1)+ (3.3x1)	(5.2x1)+(5.2x1)+ (2.9x1)+(3.3x1)	(5.2x1)+(2.9x1)+ (3.3x1)+(2.9x1)+ (3.3x1)
157+157+165	157+157+178	157+165+178	157+178+178	157+178+233	157+233+233	178+178+233	178+233+233
(1,657x930x765)+ (1,657x930x765)+ (1,657x930x765)	(1,657x930x765)+ (1,657x930x765)+ (1,657x930x765)	(1,657x930x765)+ (1,657x930x765)+ (1,657x930x765)	(1,657x930x765)+ (1,657x930x765)+ (1,657x930x765)	(1,657x930x765)+ (1,657x930x765)+ (1,657x1,240x765)	(1,657x930x765)+ (1,657x1,240x765)+ (1,657x1,240x765)	(1,657x930x765)+ (1,657x930x765)+ (1,657x1,240x765)	(1,657x930x765)+ (1,657x1,240x765)+ (1,657x1,240x765)
185+185+200	185+185+200	185+200+200	185+200+200	185+200+285	185+285+285	200+200+285	200+285+285
61	62	62	63	63	64	64	64
			15 te	o 49			
			R-4	10A			
6.4+6.4+6.5	6.4+6.4+6.8	6.4+6.5+6.8	6.4+6.8+6.8	6.4+6.8+10.3	6.4+10.3+10.3	6.8+6.8+10.3	6.8+10.3+10.3
∮19.1 (Brazing)	∳19.1 (Brazing)	∳19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∳19.1 (Brazing)	∳19.1 (Brazing)	∳19.1 (Brazing)
∮34.9 (Brazing)	∳34.9 (Brazing)	∕≠34.9 (Brazing)	∕≠34.9 (Brazing)	∮34.9 (Brazing)	∕≠41.3 (Brazing)	∕¢41.3 (Brazing)	∕∕41.3 (Brazing)
			¢19.1(Bi	razingx3)			
			∳19.1(Bi	razingX3)			

Specifications

Outdoor Units

High-COP Type

				~			
MODEL			RWHQ42THYM	RWHQ44THYM	RWHQ46THYM	RWHQ48THYM	RWHQ50THYM
			RWHQ14TYM	RWHQ14TYM	RWHQ14TYM	RWHQ16TYM	RWHQ16TYM
Combination	units		RWHQ14TYM	RWHQ14TYM	RWHQ16TYM	RWHQ16TYM	RWHQ16TYM
			RWHQ14TYM	RWHQ16TYM	RWHQ16TYM	RWHQ16TYM	RWHQ18TYM
Power supply	/			3-phase 4-wire	system, 380–415	6/380 V, 50/60 Hz	
Cooling capa	city	Btu/h	409,000	427,000	444,000	461,000	478,000
cooling capa	ony	kW	120	125	130	135	140
Power consu	mption	kW	32.4	34.5	36.6	38.7	41.1
Capacity con	trol	%	4-100	3-100	3-100	3-100	3-100
Casing colou	r			lv	ory white (5Y7.5/	(1)	
	Туре			Hermet	ically Sealed Scr	oll Type	
Compressor	Motor output	kW	(2.9X1)+(3.3X1)+ (2.9X1)+(3.3X1)+ (2.9X1)+(3.3X1)	(2.9X1)+(3.3X1)+ (2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1)	(2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1)+ (3.6X1)+(3.7X1)	(3.6X1)+(3.7X1)+ (3.6X1)+(3.7X1)+ (3.6X1)+(3.7X1)	(3.6×1)+(3.7×1)+ (3.6×1)+(3.7×1)+ (4.4×1)+(4.0×1)
Airflow rate		m³/min	233+233+233	233+233+233	233+233+233	233+233+233	233+233+233
Dimensions (H×W×D)	mm	(1,657x1,240x765)+ (1,657x1,240x765)+ (1,657x1,240x765)	(1,657×1,240×765)+ (1,657×1,240×765)+ (1,657×1,240×765)	(1,657×1,240×765)+ (1,657×1,240×765)+ (1,657×1,240×765)	(1,657×1,240×765)+ (1,657×1,240×765)+ (1,657×1,240×765)	(1,657×1,240×765)+ (1,657×1,240×765)+ (1,657×1,240×765)
Machine weig	ght	kg	285+285+285	285+285+285	285+285+285	285+285+285	285+285+285
Sound level		dB(A)	65	65	65	66	66
Operation rar	nge	°CDB			15 to 49		
Define	Туре				R-410A		
Refrigerant	Charge	kg	10.3+10.3+10.3	10.3+10.3+10.4	10.3+10.4+10.4	10.4+10.4+10.4	10.4+10.4+10.5
Piping connections	Liquid	mm	∳19.1 (Brazing)	∳19.1 (Brazing)	∳19.1 (Brazing)	∳19.1 (Brazing)	∳19.1 (Brazing)
(Indoor unit)	Gas	mm	∳41.3 (Brazing)	∕≠41.3 (Brazing)	∳41.3 (Brazing)	∕≠41.3 (Brazing)	∕≠41.3 (Brazing)
Piping connections / Heat	Inlet pipe	mm			ϕ 19.1(Brazingx3))	
exchanger unit	Outlet pipe	mm			¢19.1(BrazingX3))	

Note: Specifications are based on the following conditions;

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

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

Standard Type

MODEL			RWHQ6TYM	RWHQ8TYM	RWHQ10TYM	RWHQ12TYM	RWHQ14TYM	RWHQ16TYM
Combination	units		_	_	_	_	_	_
Power supply	/			3-phase 4	-wire system,	380–415/380 \	/, 50/60 Hz	
Cooling capa	icity	Btu/h	54,600	76,400	95,500	114,000	136,000	154,000
Cooling capa	loity	kW	16.0	22.4	28.0	33.5	40.0	45.0
Power consu	mption	kW	3.55	5.13	7.22	8.93	10.8	12.9
Capacity con	trol	%	20-100	20-100	16-100	15-100	11-100	10-100
Casing colou	r				lvory white	e (5Y7.5/1)		
	Туре			Н	ermetically Se	aled Scroll Typ	e	
Compressor	Motor output	kW	2.4X1	3.4X1	4.1×1	5.2X1	(2.9X1)+(3.3X1)	(3.6X1)+(3.7X1)
Airflow rate		m³/min	119	157	165	178	233	233
Dimensions (H×W×D)	mm	1,657x930x765	1,657x930x765	1,657×930×765	1,657x930x765	1,657x1,240x765	1,657x1,240x765
Machine weig	ght	kg	185	185	200	200	285	285
Sound level		dB(A)	55	56	57	59	60	61
Operation rai	nge	°CDB			15 t	o 49	1	
Defrierenet	Туре				R-4	10A		
Refrigerant	Charge	kg	6.4	6.4	6.5	6.8	10.3	10.4
Piping connections	Liquid	mm		ϕ 9.5 (Brazing)			∳12.7 (Brazing)	1
(Indoor unit)	Gas	mm	∳1 (Bra	9.1 zing)	∕¢22.2 (Brazing)		∕≠28.6 (Brazing)	
Piping connections / Heat \	Inlet pipe	mm			¢19.1(E	Brazing)		
exchanger unit	Outlet pipe	mm			¢19.1(E	Brazing)		

Note: Specifications are based on the following conditions;

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

Specifications

Outdoor Units

Standard Type

					r.				
MODEL			RWHQ18TNYM	RWHQ20TNYM	RWHQ22TNYM	RWHQ24TNYM	RWHQ26TNYM	RWHQ28TNYM	RWHQ30TNYM
		RWHQ8TYM	RWHQ8TYM	RWHQ8TYM	RWHQ10TYM	RWHQ12TYM	RWHQ14TYM	RWHQ14TYM	
Combination	units		RWHQ10TYM	RWHQ12TYM	RWHQ14TYM	RWHQ14TYM	RWHQ14TYM	RWHQ14TYM	RWHQ16TYM
				—	—		—	—	
Power supply	/			3-phas	se 4-wire sys	stem, 380–4 ⁻	15/380 V, 50	/60 Hz	
Cooling capa	city	Btu/h	172,000	191,000	213,000	232,000	251,000	273,000	290,000
coomy capa	ony	kW	50.4	55.9	62.4	68.0	73.5	80.0	85.0
Power consu	mption	kW	12.4	14.1	15.9	18.0	19.7	21.6	23.7
Capacity con	trol	%	8-100	8-100	7-100	6-100	6-100	5-100	5-100
Casing colou	r			Ivory white (5Y7.5/1)					
	Туре		Hermetically Sealed Scroll Type						
Compressor	Motor output	kW	(3.4x1)+ (4.1x1)	(3.4X1)+ (5.2X1)	(3.4x1)+ (2.9x1)+ (3.3x1)	(4.1X1)+ (2.9X1)+ (3.3X1)	(5.2X1)+ (2.9X1)+ (3.3X1)	(2.9X1)+(3.3X1)+ (2.9X1)+(3.3X1)	(2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1)
Airflow rate		m³/min	157+165	157+178	157+233	165+233	178+233	233+233	233+233
Dimensions (H×W×D)	mm	(1,657×930×765)+ (1,657×930×765)	(1,657×930×765)+ (1,657×930×765)	(1,657×930×765)+ (1,657×1,240×765)	(1,657×930×765)+ (1,657×1,240×765)	(1,657X930X765)+ (1,657X1,240X765)	(1,657X1,240X765)+ (1,657X1,240X765)	· · · · /
Machine weig	ght	kg	185+200	185+200	185+285	200+285	200+285	285+285	285+285
Sound level		dB(A)	60	61	61	62	63	63	64
Operation rai	nge	°CDB				15 to 49			
Refrigerant	Туре					R-410A			
nonigorani	Charge	kg	6.4+6.5	6.4+6.8	6.4+10.3	6.5+10.3	6.8+10.3	10.3+10.3	10.3+10.4
Piping connections	Liquid	mm	∮15.9 (Brazing)	∮15.9 (Brazing)	∮15.9 (Brazing)	∮15.9 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)
(Indoor unit)	Gas	mm	∕28.6 (Brazing)	∕28.6 (Brazing)	∕28.6 (Brazing)	∳34.9 (Brazing)	∳34.9 (Brazing)	∕∕934.9 (Brazing)	∕∕934.9 (Brazing)
Piping connections / Heat	Inlet pipe	mm			¢1	9.1(Brazing)	x2)		
exchanger unit	Outlet pipe	mm			¢1	9.1(Brazing)	×2)		

Note: Specifications are based on the following conditions;

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

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

VRV IV HEAT RECOVERY HOT WATER SYSTEM

RWHQ32TNYM	RWHQ34TNYM	RWHQ36TNYM	RWHQ38TNYM	RWHQ40TNYM	RWHQ42TNYM	RWHQ44TNYM	RWHQ46TNYM			
RWHQ14TYM	RWHQ10TYM	RWHQ12TYM	RWHQ8TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ14TYM			
RWHQ18TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ14TYM	RWHQ16TYM	RWHQ14TYM			
—	RWHQ12TYM	RWHQ12TYM	RWHQ18TYM	RWHQ16TYM	RWHQ16TYM	RWHQ16TYM	RWHQ18TYM			
		3-	phase 4-wire s	ystem, 380–41	5/380 V, 50/60	Hz				
307,000	324,000	345,000	362,000	382,000	406,000	423,000	444,000			
90.0	95.0	101	106	112	119	124	130			
26.1	25.1	26.8	29.4	30.8	32.6	34.7	36.9			
5-100	5-100	5-100	4-100	4-100	4-100	4-100	3-100			
			Ivo	ry white (5Y7.5	/1)					
			Hermetic	cally Sealed Sc	roll Type					
(2.9X1)+(3.3X1)+ (4.4X1)+(4.0X1)	(4.1×1)+(5.2×1)+ (5.2×1)	(5.2X1)+(5.2X1)+ (5.2X1)	(3.4×1)+(5.2×1)+ (4.4×1)+(4.0×1)	(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)			
233+233	165+178+178	178+178+178	157+178+233	178+178+233	178+233+233	178+233+233	233+233+233			
(1,657X1,240X765)+ (1,657X1,240X765)	(1,657×930×765)+ (1,657×930×765)+ (1,657×930×765)	(1,657×930×765)+ (1,657×930×765)+ (1,657×930×765)	(1,657×930×765)+ (1,657×930×765)+ (1,657×1,240×765)	(1,657×930×765)+ (1,657×930×765)+ (1,657×1,240×765)	(1,657×930×765)+ (1,657×1,240×765)+ (1,657×1,240×765)	(1,657×930×765)+ (1,657×1,240×765)+ (1,657×1,240×765)	(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)			
285+285	200+200+200	200+200+200	185+200+285	200+200+285	200+285+285	200+285+285	285+285+285			
64	63	64	64	65	65	65	66			
			15 t	o 49						
			R-4	10A						
10.3+10.5	6.5+6.8+6.8	6.8+6.8+6.8	6.4+6.8+10.5	6.8+6.8+10.4	6.8+10.3+10.4	6.8+10.4+10.4	10.3+10.3+10.5			
∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	ϕ 19.1 (Brazing)			
∳34.9 (Brazing)	∳34.9 (Brazing)	∮41.3 (Brazing)	∮41.3 (Brazing)	∕¢41.3 (Brazing)	∮41.3 (Brazing)	∮41.3 (Brazing)				
∮19.1 (Brazingx2)										
∮19.1 (Brazingx2)										

Specifications

Outdoor Units

Standard Type

MODEL			RWHQ48TNYM	RWHQ50TNYM	RWHQ52TNYM	RWHQ54TNYM	RWHQ56TNYM	RWHQ58TNYM	RWHQ60TNYM		
			RWHQ14TYM	RWHQ14TYM	RWHQ16TYM	RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ20TYM		
Combination	units		RWHQ16TYM	RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ20TYM	RWHQ20TYM		
			RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ20TYM	RWHQ20TYM	RWHQ20TYM		
Power supply	/			3-pha	se 4-wire sys	stem, 380–4	15/380 V, 50	/60 Hz			
Cooling capa	city	Btu/h	461,000	478,000	495,000	512,000	532,000	553,000	573,000		
Cooling capa	lony	kW	135	140	145	150	156	162	168		
Power consu	mption	kW	39.0	41.4	43.5	45.9	48.5	51.1	53.7		
Capacity con	trol	%	3-100	3-100	3-100	3-100	3-100	3-100	3-100		
Casing colou	r				lvor	y white (5Y7	.5/1)				
	Туре			Hermetically Sealed Scroll Type							
Compressor	Motor output	kW	(2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1)+ (4.4X1)+(4.0X1)	(2.9X1)+(3.3X1)+ (4.4X1)+(4.0X1)+ (4.4X1)+(4.0X1)	(3.6X1)+(3.7X1)+ (4.4X1)+(4.0X1)+ (4.4X1)+(4.0X1)	(4.4X1)+(4.0X1)+ (4.4X1)+(4.0X1)+ (4.4X1)+(4.0X1)	(4.4X1)+(4.0X1)+ (4.4X1)+(4.0X1)+ (4.6X1)+(5.5X1)	(4.4X1)+(4.0X1)+ (4.6X1)+(5.5X1)+ (4.6X1)+(5.5X1)	(4.6X1)+(5.5X1)+ (4.6X1)+(5.5X1)+ (4.6X1)+(5.5X1)		
Airflow rate		m³/min	233+233+233	233+233+233	233+233+233	233+233+233	233+233+268	233+268+268	268+268+268		
Dimensions (HxWxD)	mm	(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)	(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)	(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)		(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)	(1,657X1,240X765)+ (1,657X1,240X765)+ (1,657X1,240X765)			
Machine weig	ght	kg	285+285+285	285+285+285	285+285+285	285+285+285	285+285+320	285+320+320	320+320+320		
Sound level		dB(A)	66	66	66	67	68	69	70		
Operation rar	nge	°CDB				15 to 49					
Defrierenet	Туре					R-410A					
Refrigerant	Charge	kg	10.3+10.4+10.5	10.3+10.5+10.5	10.4+10.5+10.5	10.5+10.5+10.5	10.5+10.5+11.8	10.5+11.8+11.8	11.8+11.8+11.8		
Piping connections	Liquid	mm	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)		
(Indoor unit) Gas mm			∮41.3 (Brazing)	∳41.3 (Brazing)	∮41.3 (Brazing)	∮41.3 (Brazing)	∮41.3 (Brazing)	∮41.3 (Brazing)	∮41.3 (Brazing)		
Piping connections /Heat \	Inlet pipe	mm			<i>\$</i> 1	9.1(Brazing)	<3)				
exchanger	Outlet pipe	mm			¢1	9.1(Brazing)	<3)				

Note: Specifications are based on the following conditions;

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

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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

Space Saving Type

MODEL			RWHQ18TYM	RWHQ20TYM	RWHQ22TSYM	RWHQ24TSYM			
					RWHQ10TYM	RWHQ12TYM			
Combination	units		—	—	RWHQ12TYM	RWHQ12TYM			
					—	—			
Power supply	у		3-р	hase 4-wire system,	380–415/380 V, 50/60) Hz			
Cooling capa	ocity	Btu/h	171,000	191,000	210,000	229,000			
Cooling capa	acity	kW	50.0	56.0	61.5	67.0			
Power consu	Imption	kW	15.3	17.9	16.2	17.9			
Capacity cor	ntrol	%	10-100	8-100	8-100	8-100			
Casing colou	ır		Ivory white (5Y7.5/1)						
	Туре			Hermetically Sea	aled Scroll Type				
Compressor	Motor output	kW	(4.4X1)+(4.0X1)	(4.6X1)+(5.5X1)	(4.1×1)+(5.2×1)	(5.2X1)+(5.2X1)			
Airflow rate		m³/min	233	268	165+178	178+178			
Dimensions (HxWxD)	mm	1,657x1,240x765	1,657x1,240x765	(1,657×930×765)+ (1,657×930×765)	(1,657×930×765)+ (1,657×930×765)			
Machine wei	ght	kg	285	320	200+200	200+200			
Sound level		dB(A)	62	65	61	62			
Operation ra	nge	°CDB		15 t	o 49	1			
	Туре			R-4	10A				
Refrigerant	Charge	kg	10.5	11.8	6.5+6.8	6.8+6.8			
Piping	Liquid	mm	∮15.9 (Brazing)	∮15.9 (Brazing)	∮15.9 (Brazing)	∳15.9 (Brazing)			
(Indoor unit) Gas mm		mm	∕¢28.6 (Brazing)	∳28.6 (Brazing)	∕ ∕ 夕28.6 (Brazing)	∕¢34.9 (Brazing)			
Piping connections /Heat	connections Inter pipe Inter		∲19.1(E	Brazing)	¢19.1(B	razingX2)			
exchanger unit	Outlet pipe	mm	∳19.1(E	Brazing)	∳19.1(B	razingx2)			

Note: Specifications are based on the following conditions;

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

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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

Specifications

Outdoor Units

Space Saving Type

MODEL			RWHQ26TSYM	RWHQ28TSYM	RWHQ30TSYM	RWHQ32TSYM	RWHQ34TSYM	RWHQ36TSYM	
			RWHQ8TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ16TYM	RWHQ18TYM	
Combination	units		RWHQ18TYM	RWHQ16TYM	RWHQ18TYM	RWHQ20TYM	RWHQ18TYM	RWHQ18TYM	
			—						
Power supply	/			3-phase 4-	-wire system, 3	380–415/380 \	/, 50/60 Hz		
Cooling capa	icity	Btu/h	247,000	268,000	285,000	305,000	324,000	341,000	
	loity	kW	72.4	78.5	83.5	89.5	95.0	100	
Power consu	mption	kW	20.4	21.8	24.2	26.8	28.2	30.6	
Capacity con	trol	%	7-100	6-100	6-100	5-100	5-100	5-100	
Casing colou	ing colour Ivory white (5Y7.5/1)								
	Туре		Hermetically Sealed Scroll Type						
Compressor	Motor output	kW	(3.4X1)+(4.4X1)+ (4.0X1)	(5.2X1)+(3.6X1)+ (3.7X1)	(5.2X1)+(4.4X1)+ (4.0X1)	(5.2X1)+(4.6X1)+ (5.5X1)	(3.6X1)+(3.7X1)+ (4.4X1)+(4.0X1)	(4.4X1)+(4.0X1)+ (4.4X1)+(4.0X1)	
Airflow rate		m³/min	157+233	178+233	178+233	178+268	233+233	233+233	
Dimensions (H×W×D)	mm	(1,657×930×765)+ (1,657×1,240×765)	(1,657×930×765)+ (1,657×1,240×765)	(1,657×930×765)+ (1,657×1,240×765)	(1,657×930×765)+ (1,657×1,240×765)	(1,657X1,240X765)+ (1,657X1,240X765)	(1,657x1,240x765)+ (1,657x1,240x765)	
Machine weig	ght	kg	185+285	200+285	200+285	200+320	285+285	285+285	
Sound level		dB(A)	63	63	64	66	65	65	
Operation rai	nge	°CDB			15 te	o 49			
Refrigerant	Туре				R-4	10A		1	
lionigorant	Charge	kg	6.4+10.5	6.8+10.4	6.8+10.5	6.8+11.8	10.4+10.5	10.5+10.5	
Piping connections	Liquid	mm	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	∮19.1 (Brazing)	
(Indoor unit)	Gas	mm	∮34.9 (Brazing)	∕≠34.9 (Brazing)	∳34.9 (Brazing)	∳34.9 (Brazing)	∕≠34.9 (Brazing)	∮41.3 (Brazing)	
Piping connections / Heat	Inlet pipe	mm			∳19.1(Bi	razingx2)			
exchanger unit	Outlet pipe	mm			∳19.1(Bi	razingx2)			

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

•Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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

RWHQ38TSYM	RWHQ40TSYM	RWHQ42TSYM	RWHQ44TSYM	RWHQ46TSYM	RWHQ48TSYM	RWHQ50TSYM	
RWHQ18TYM	RWHQ20TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	
RWHQ20TYM	RWHQ20TYM	RWHQ12TYM	RWHQ12TYM	RWHQ16TYM	RWHQ18TYM	RWHQ18TYM	
—	—	RWHQ18TYM	RWHQ20TYM	RWHQ18TYM	RWHQ18TYM	RWHQ20TYM	
	I	3-phase 4-wire	system, 380–415	/380 V, 50/60 Hz			
362,000	382,000	399,000	420,000	440,000	457,000	478,000	
106	112	117	123	129	134	140	
33.2	35.8	33.2	35.8	37.1	39.5	42.1	
4-100	4-100	4-100	4-100	4-100	4-100	3-100	
		lv	ory white (5Y7.5/	1)			
		Hermet	ically Sealed Scr	oll Type			
(4.4X1)+(4.0X1)+ (4.6X1)+(5.5X1)	(4.6X1)+(5.5X1)+ (4.6X1)+(5.5X1)	(5.2X1)+(5.2X1)+ (4.4X1)+(4.0X1)	(5.2X1)+(5.2X1)+ (4.6X1)+(5.5X1)	(5.2×1)+(3.6×1)+ (3.7×1)+(4.4×1)+ (4.0×1)	(5.2×1)+(4.4×1)+ (4.0×1)+(4.4×1)+ (4.0×1)	(5.2×1)+(4.4×1)+ (4.0×1)+(4.6×1)+ (5.5×1)	
233+268	268+268	178+178+233	178+178+268	178+233+233	178+233+233	178+233+268	
(1,657×1,240×765)+ (1,657×1,240×765)	(1,657x1,240x765)+ (1,657x1,240x765)	(1,657×930×765)+ (1,657×930×765)+ (1,657×1,240×765)	(1,657×930×765)+ (1,657×930×765)+ (1,657×1,240×765)	(1,657X930X765)+ (1,657X1,240X765)+ (1,657X1,240X765)	(1,657X930X765)+ (1,657X1,240X765)+ (1,657X1,240X765)	(1,657X930X765)+ (1,657X1,240X765)+ (1,657X1,240X765)	
285+320	320+320	200+200+285	200+200+320	200+285+285	200+285+285	200+285+320	
67	68	65	67	66	66	67	
			15 to 49				
			R-410A				
10.5+11.8	11.8+11.8	6.8+6.8+10.5	6.8+6.8+11.8	6.8+10.4+10.5	6.8+10.5+10.5	6.8+10.5+11.8	
ϕ 19.1 (Brazing)	ϕ 19.1 (Brazing)	∕≠19.1 (Brazing)	∕¢19.1 (Brazing)	∕≠19.1 (Brazing)	∕≠19.1 (Brazing)	∳19.1 (Brazing)	
∕¢41.3 (Brazing)	ϕ 41.3 (Brazing)	∕≠41.3 (Brazing)	∕≠41.3 (Brazing)	∕≠41.3 (Brazing)	∕≠41.3 (Brazing)	∕≠41.3 (Brazing)	
¢19.1(Βι	razingx2)						
¢19.1(Bı	razingx2)						

Specifications



Serpentine Heat Exchanger Unit (HWHQ30A)

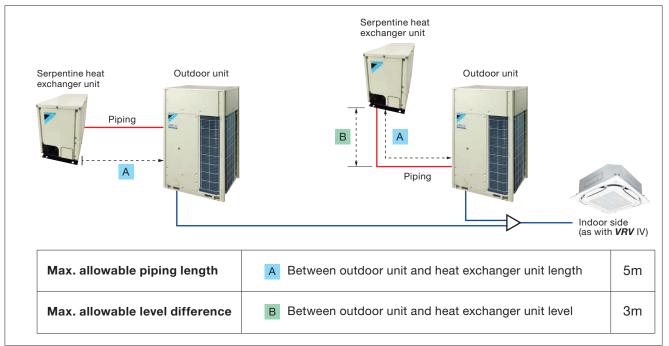
				Sing	gle Heat E	xchanger	Unit		
New Model Name (RWHQ-TYM, HWHQ30A))	RWHQ6TYM +HWHQ30A	RWHQ8TYM +HWHQ30A	RWHQ10TYM +HWHQ30A	RWHQ12TYM +HWHQ30A	RWHQ14TYM +HWHQ30A	RWHQ16TYM +HWHQ30A	RWHQ18TYM +HWHQ30A	RWHQ20TYM +HWHQ30A
Rated inlet temperature	°C		40						
Rated water flow	L/min		10						
Range of inlet temperature	°C				20	-65			
Range of water flow	L/min				5-	20			
Rated Hot-water capacity *1	kW	3.2	3.3	3.3	3.5	3.7	4.0	4.2	4.4
Machine weight	kg	27							
Diameter of Refrigerant pipe (Gas)	mm	φ19.1 (Braze)							
Diameter of Refrigerant pipe (Liquid)	mm	φ19.1 (Braze)							
Diameter of water pipe (Inlet)	mm	φ25.4 (Screw)							
Diameter of water pipe (Outlet)	mm				ф25.4	(Screw)			
Piping length (max)	m				2	(5)			
Design pressure (Water side)	MPa				0	.5			
Loss of Head *2	m	0.2							
Casing colour	Casing colour Ivory white (5Y7.5/1)								
Dimensions (H×W×D)	mm				446 × 30	06 × 765			

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

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

*2: Water flow 10L/min.

Pipe length restriction of VRV IV Heat Recovery Hot Water System





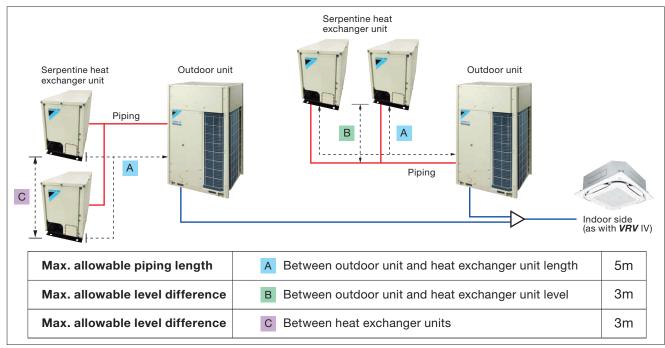
				Dou	ble Heat E	xchanger	Unit			
New Model Name (RWHQ-TYM, HWHQ30A))	RWHQ6TYM +HWHQ30Ax2	RWHQ8TYM +HWHQ30Ax2	RWHQ10TYM +HWHQ30Ax2	RWHQ12TYM +HWHQ30Ax2		RWHQ16TYM +HWHQ30Ax2		RWHQ20TYM +HWHQ30Ax2	
Rated inlet temperature	°C		40							
Rated water flow	L/min	20 (10 × 2)								
Range of inlet temperature	°C		20-65							
Range of water flow	L/min				10-40 (5	5-20 × 2)				
Rated Hot-water capacity *1	kW	5.4	5.6	5.6	5.9	6.2	6.8	7.1	7.4	
Machine weight	kg		54 (27 × 2)							
Diameter of Refrigerant pipe (Gas)	mm	φ19.1 (Braze) × 2								
Diameter of Refrigerant pipe (Liquid)	mm	φ19.1 (Braze) × 2								
Diameter of water pipe (Inlet)	mm				φ25.4 (S	crew) × 2				
Diameter of water pipe (Outlet)	mm				φ25.4 (S	crew) × 2				
Piping length (max)	m				2	(5)				
Design pressure (Water side)	MPa				0	.5				
Loss of Head *2	m	0.2								
Casing colour		Ivory white (5Y7.5/1)								
Dimensions (H×W×D)	mm			(446 × 3	06 × 765) -	+ (446 × 30)6 × 765)			

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

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

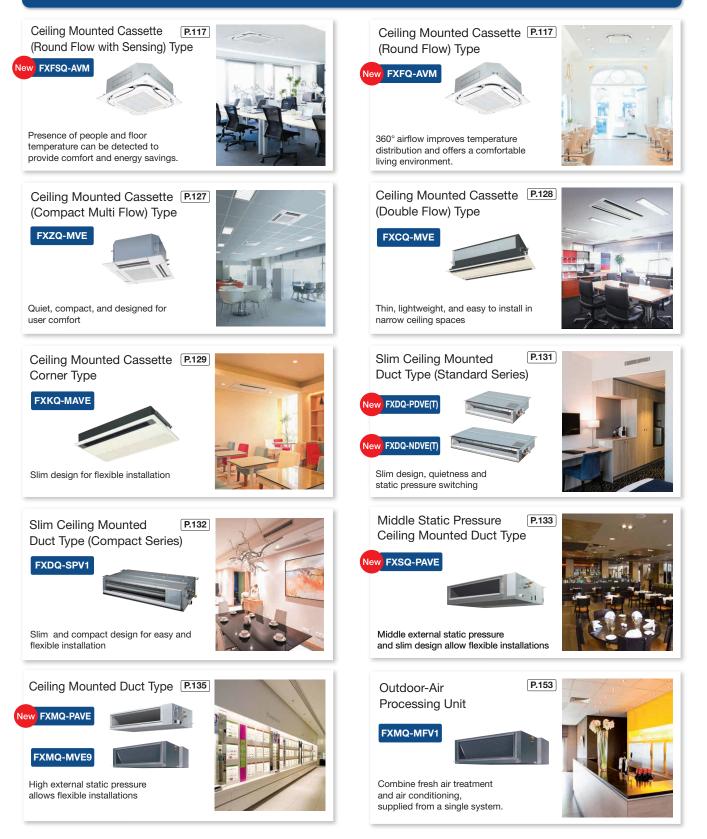
*2: Water flow 10L/min.

Pipe length restriction of VRV IV Heat Recovery Hot Water System

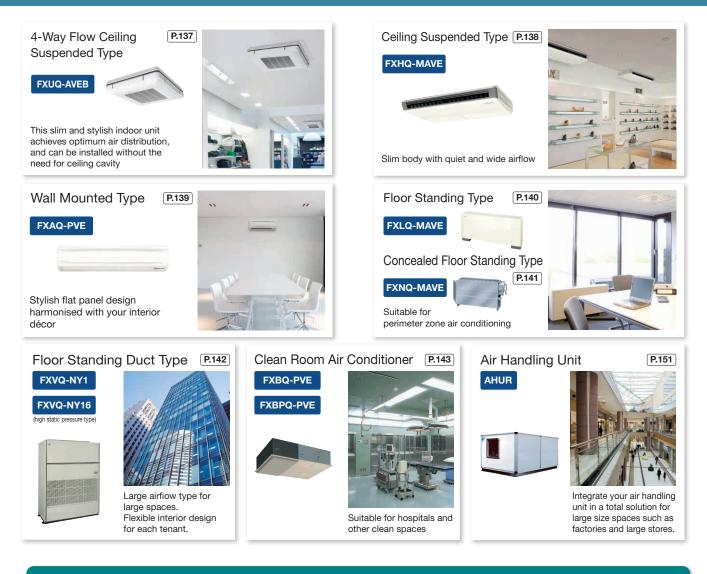


Daikin offers a wide range of indoor units includes both *VRV* and residential models responding to variety of needs of our customers that require air-conditioning solutions.

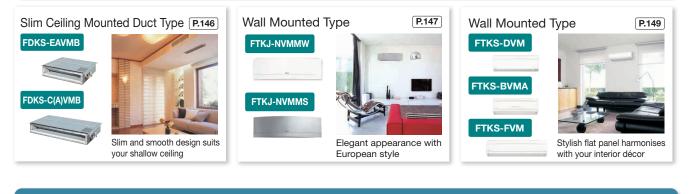
VRV indoor units



VRV Indoor Units



Residential indoor units with connection to BP units

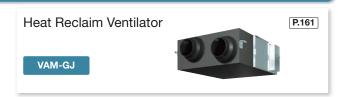


Air treatment equipment

Heat Reclaim Ventilator with DX-Coil and Humidifier

VKM-GA(M)







We Wide variety of decoration panels (Option)

• Designer choice has been given a boost with the increase in number of new types of decoration panels.



New Designer panel (Option)



New Round Flow Cassette movie at Daikin official YouTube site.



VRV Indoor Units

Specifications

Ceiling Mounted Cassette (Round Flow with Sensing) Type

	MODEL		FXFSQ25AVM	FXFSQ32AVM	FXFSQ40AVM	FXFSQ50AVM	FXFSQ63AVM	FXFSQ80AVM	FXFSQ100AVM	FXFSQ125AVM	FXFSQ140AVM
Power suppl	ly			1-phase, 220-240 V/220-230 V, 50/60 Hz							
Casling con	e e itu	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
Cooling capa	acity	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Power consu	Imption	kW	0.0	28	0.035	0.056	0.061	0.092	0.164	0.170	0.194
Casing				Galvanised steel plate							
Ainflow water		m³/min	13/12.5/1	1.5/11/10	17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
Alfilow rate ((H/HM/M/ML/L)	cfm	459/441/40	06/388/353	600/477/441/424/388	812/724/671/512/388	830/741/706/565/477	865/777/724/706/530	1,183/1,077/953/830/741	1,218/1,112/1,006/900/812	1,253/1,147/1,041/935/812
Sound level	(H/HM/M/ML/L)	dB(A)	30/29.5/2	8.5/28/27	35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35
Dimensions	(H×W×D)	mm	256×840×840				298×840×840				
Machine weight kg		19			24	22		2	5	26	
Liquid (Flare)			\$ G	6.4				∲ 9.5			
Piping connections	Gas (Flare)	mm		¢ 1:	2.7				∲ 15.9		
Drain					VP25 (Exte	ernal Dia, 34/Inter	nal Dia, 25)				

Ceiling Mounted Cassette (Round Flow) Type

	MODEL		FXFQ25AVM	FXFQ32AVM	FXFQ40AVM	FXFQ50AVM	FXFQ63AVM	FXFQ80AVM	FXFQ100AVM	FXFQ125AVM	FXFQ140AVM	
Power supp	ly			1-phase, 220-240 V/220-230 V, 50/60 Hz								
Cooling con	aaitu	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600	
Cooling capacity kW		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0	
Power consumption kW		kW	0.0	29	0.036	0.040	0.063	0.096	0.158	0.178	0.203	
Casing				Galvanised steel plate								
Airflow rate (H/HM/M/ML/L) m³/min		m³/min	13/12.5/11.5/11/10		17/13.5/13/12/11	18/17/13.5/12.5/11	21/20/16/15/13.5	22.5/21.5/21/20/15	32/29/26/23/21	33/30.5/28/25.5/21	35.5/32.5/29.5/26.5/23	
AITIOW Tale	(H/HIVI/IVI/IVIL/L)	cfm	459/441/406/388/353		600/477/459/424/388	635/600/477/441/388	741/706/565/530/477	794/759/741/706/530	1,130/1,024/918/812/741	1,165/1,077/988/900/741	1,253/1,147/1,041/935/812	
Sound level	(H/HM/M/ML/L)	dB(A)	30/29.5/2	8.5/28/27	35/29.5/29/28/27	35/33.5/29.5/28.5/27	36/35.5/31.5/31/28	37/36.5/36/35.5/29.5	43/40.5/37.5/35/33	44/41.5/39/36.5/33	46/43.5/40.5/38/35	
Dimensions	(H×W×D)	mm		256×840×840				298×84				
Machine weight kg			19			22 25			26			
Liquid (Flare)			φ	6.4		\$\phi 9.5						
Piping connections	Gas (Flare)	mm		<i>\$</i>	12.7				∲ 15.9			
Drain				VP25 (External Dia, 34/Internal Dia, 25)								

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

Decoratio	on Panel (Opt	ion)	Round Flow with Sensing Type	Round Flow Type				
			FXFSQ-A FXFQ-A					
Standard	Model		BYCQ125EEF (Fresh White) / BYCQ125EEK (Black)	_				
panel with	Dimensions(H×W×D)	mm	50×950×950	-				
sensing	Weight	kg	5.5	-				
Otensilend	Model		BYCQ125EAF (Fresh Whit	e) / BYCQ125EAK (Black)				
Standard panel	Dimensions(H×W×D)	mm	50×95	0×950				
	Weight	kg	5	5				
Designer	Model		BYCQ125EAP	F (Fresh White)				
Designer panel	Dimensions(H×W×D)	mm	97×95	0×950				
	Weight	kg	6	5				
Auto	Model		BYCQ125EASF (Fresh White)					
grille	Dimensions(H×W×D)	mm	105×950×950					
panel	Weight	kg	8					

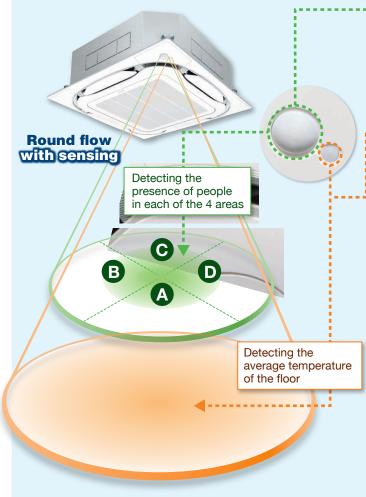
Function List		Round Flow wi	th Sensing Type	Round I	Flow Type
		FXF	SQ-A	FX	FQ-A
Demote controller	Wired	BRC1E63	-	BRC1E63	-
Remote controller	Wireless		BRC7M635F		BRC7M635F
Dual sensors *1		0			
Direct airflow *1		0			
Sensing sensor low	mode *1	0			
Sensing sensor stop	mode *1	0			
Circulation airflow		0		0	
Individual airflow dir	ection control	0		0	
Switchable 5 step fa	in speed	0	0	0	0
Auto airflow rate		0	0	0	0
Auto swing		0	0	0	0
Swing pattern selection		0	0	0	0
High ceiling application		0		0	

Daikin Advanced Sensing Functions^{*1,2} FXFSQ series only

Dual Sensors^{*1}

*1. Applicable when sensing panel (BYCQ125EEF/EEK) is installed. *2. 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 sensor detects the presence of people in each of the 4 areas.

Ceiling height	2.7m	3.5m	4.0m
Detection range	approx.	approx.	approx.
(diameter) ^{*3}	8.5m	11.5m	13.5m

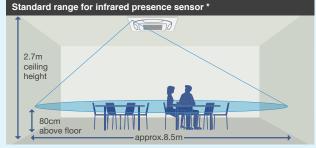
*3 The infrared presence sensor detects 80cm above the floor

Infrared floor sensor

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

Ceiling height	2.7m	3.5m	4.0m
Detection range (diameter) ^{*4}	approx.	approx.	approx.
	11m	14m	16m

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



*[Concerning infrared presence sensor]
 People are detected by large movements such as the motion of people walking at a certain distance away from sensor.
 Human detection is not possible for blind areas of sensor.

Dry

[Concerning infrared floor sensor] - The detected temperature may sometimes be affected by a heat source, window, or device emitting heat in the detection range.

*5.Airflow direction should be set to "Auto".

Auto Airflow Function^{*5}

New Direct Airflow (default: OFF) Cooling

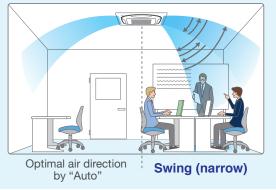
When human presence is not detected



Optimal air direction by "Auto"

• With "Auto" airflow direction mode, flaps are controlled to deliver optimal airflow when the room is unoccupied.

When human presence is detected

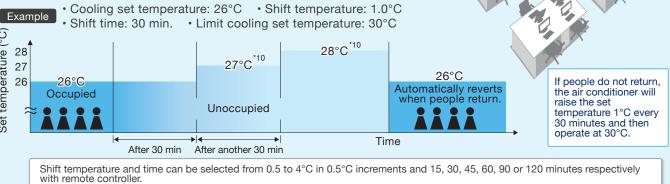


• When presence is detected, air direction is set to "Swing (narrow)" to deliver cool air to users.

*6.Airflow direction and airflow Floor temperature is detected and overcooling prevented. Cooling Without sensing function With sensing function 6 30°C near ceiling near ceiling 2 Room Room temperature is

New Round Flow

Cassette movie at **Daikin official** YouTube site.



*10. On basic screen of remote controller, set temperature does not change.

Sensing sensor stop mode (default: OFF)

When there are no people in a room, the system stops automatically.*11,12

- 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.

*11.Please note that upon re-entering the room, the air conditioner will not switch on automatically *12.To protect the machine, the standby system may operate temporarily.



VRV Indoor Units

Ceiling Mounted Cassette (Round Flow with Sensing) Type

calculated as 27°C in the area which

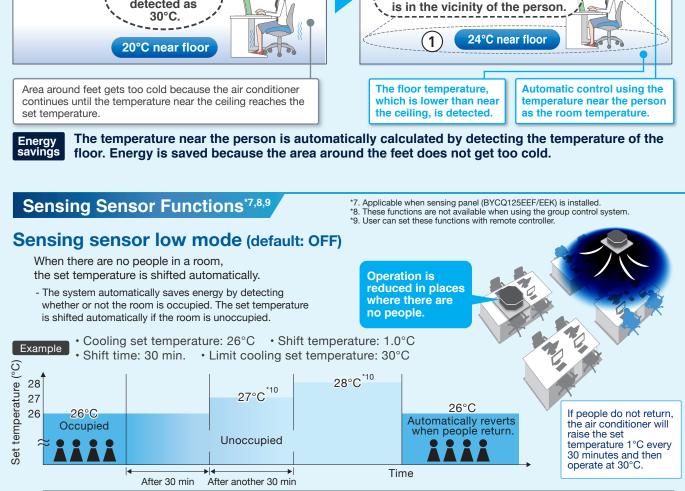
Comfort and Energy Saving Preventing Overcooling^{*6}

temperature is

detected as

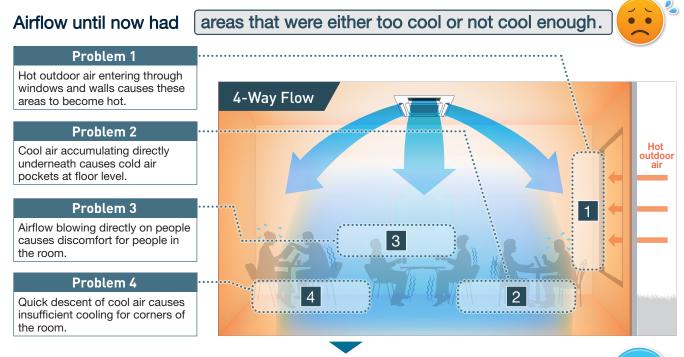
rate should be set to "Auto

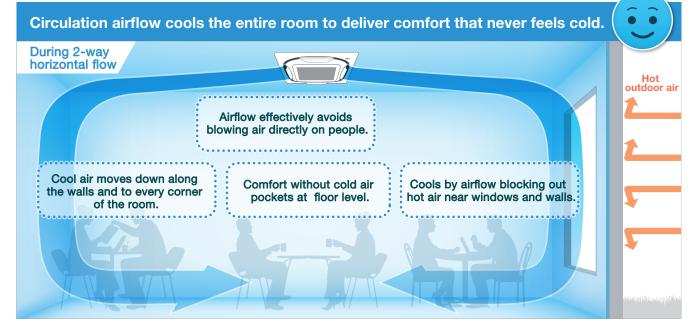
New FXFSQ-A



Circulation Airflow¹

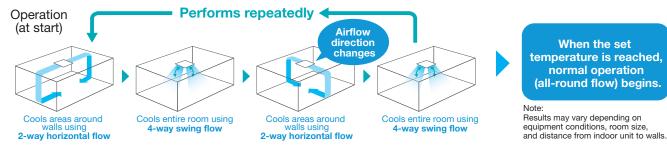
*1. Applicable when wired remote controller BRC1E63 is used.





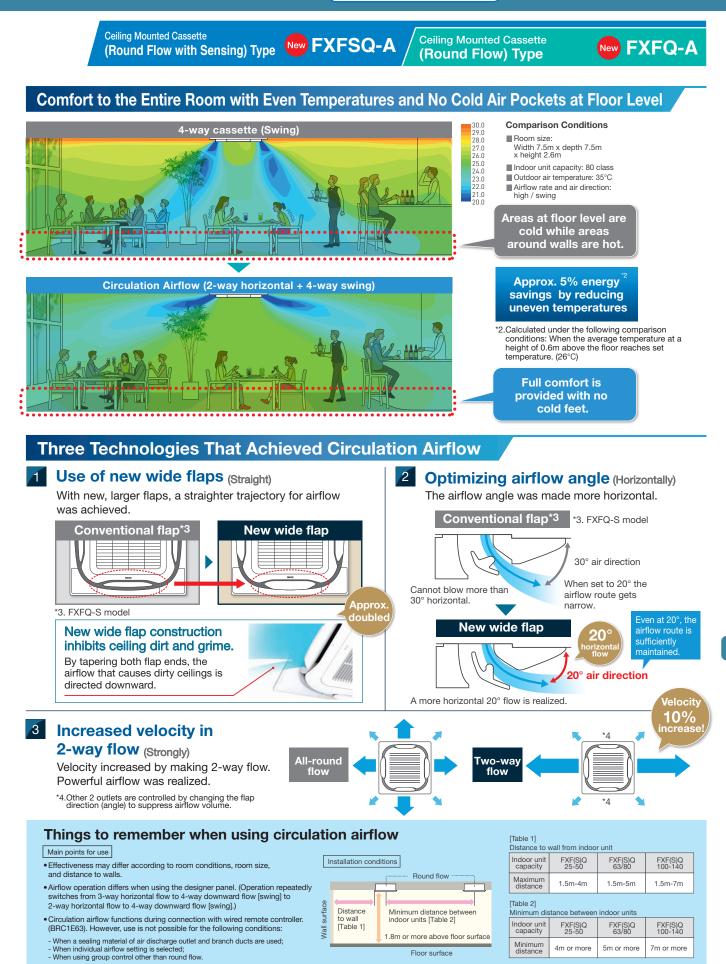
Configurations of Circulation Airflow

Cools the entire room to deliver comfort that never feels cold.



New Round Flow Cassette movie at Daikin official YouTube site.

VRV Indoor Units

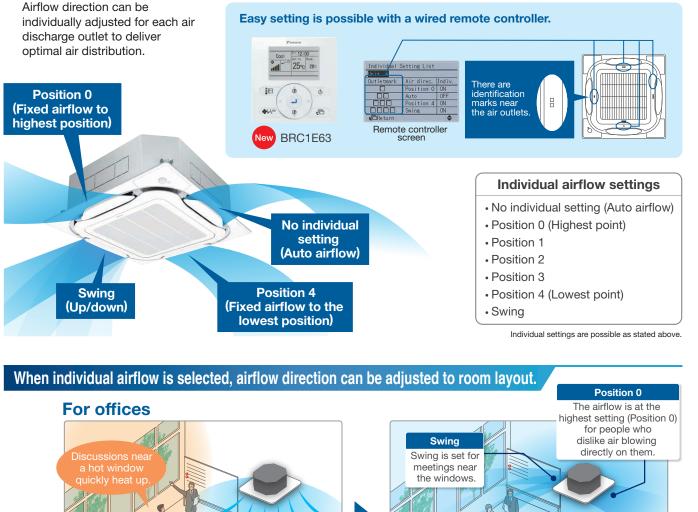


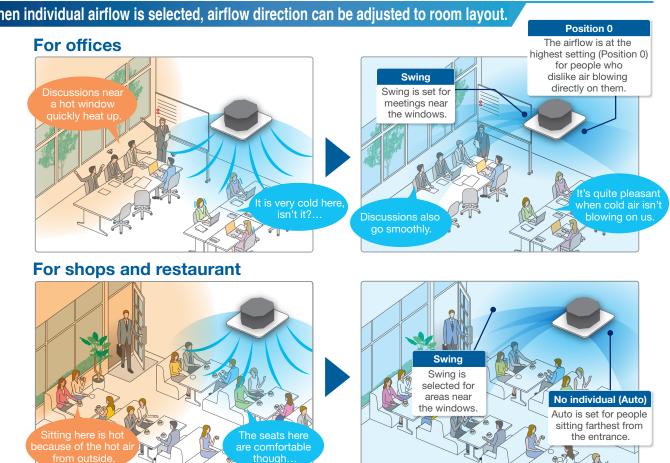
Indoor Unit Lineup

Individual Airflow Direction Control^{**}

*1. Applicable when wired remote controller BRC1E63 is used.

Comfortable air conditioning for all room layouts and conditions





New Round Flow Cassette movie at **Daikin official** YouTube site.



Ceiling Mounted Cassette

(Round Flow) Type

VRV Indoor Units

New FXFQ-A

Other Functions

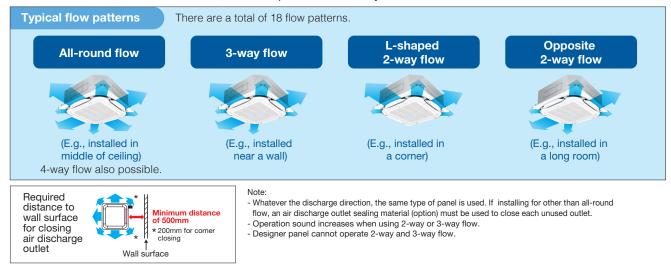
Ceiling Mounted Cassette

Comfort

360° Airflow & Selectable Airflow Pattern

(Round Flow with Sensing) Type New FXFSQ-A

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.



Optimal comfort and convenience assured by 3 air discharge modes

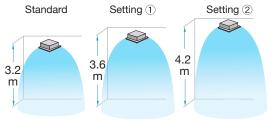
Air direction	Standard setting ¹	Draft prevention setting (field setting)	Ceiling soiling prevention setting ² (field setting)	
Desired situation	For gentle drafts.	When drafts are unwanted.	For shops with light coloured ceilings that must be kept spotless.	
Auto-swing				Note:
5-level air direction setting				¹ Air direction is set to the standard position when the unit is shipped from the factory. The position can be changed from the remote
Auto air direction control		The air direction is set automatically position of the previous air direction		controller. ² Closing 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. (FXF(S)Q100-140A)

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

			Number of air discharge outlets used								
		F	XF(S)C	25-80/	Ą	FX	F(S)Q1	00-140)A		
		All round flow	4-way flow	3-way flow	2-way flow	All round flow	4-way flow	3-way flow	2-way flow		
o	Standard	2.7 m	3.1 m	3.0 m	3.5 m	3.2 m	3.4 m	3.6 m	4.2 m		
Ceiling height	Ceiling High ceiling 1		3.4 m	3.3 m	3.8 m	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	—		

Note:

•The aforementioned is for standard panels. See the installation manual for designer panels. ·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.

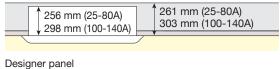
Quick and Easy Installation

Lightweight

All models can be installed without using a lifter.

Installable in tight ceiling spaces

Standard panel



256 mm 298mm	261 mm 303 mm	+42 mm ^{*1}
¥ 42 11111	1	

*1.Body height (ceiling required space) is 42 mm higher than standard panel.

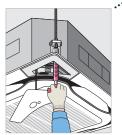
Auto grille panel

256 mm 298 mm	,	261 mm 303 mm	+55 mm [*] 2
		/	
	/		

*2.Body height (ceiling required space) is 55 mm higher than standard panel. *When the ceiling space is limited, an optional panel spacer is available. (See page 189)

Easy height adjustment

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



Note

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

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 stepladder to retrieve it.



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.



Easy hanging

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

Easy removal of corner cover





Washer fixing plate

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

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.



fixtures (in 4 places) Temporary hanging fixtures (in 2 places)

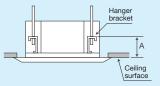
Drain pump

Equipped as standard accessory with 850 mm lift.



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
Designer panel	167-172mm
Auto grille panel	180-185mm
Chamber option*+ standard panel	175-180mm
*High-efficiency filter, ultra long	g-life filter, and

Ceiling Mounted Cassette (Round Flow with Sensing) Type New FXFSQ-A

Ceiling Mounted Cassette (Round Flow) Type

w FXFQ-A

Easy Maintenance

Drain pan and drain water check

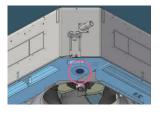
The condition of the drain pan and drain water can be checked by removing the suction grille and drain plug.

Note: For inquiries concerning auto grille panel installations, please contact your local dealer or Daikin representative



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.



Auto grille panel (option)

Grille and air filter cleaning can be performed without need for a stepladder by lowering the grille.

A dedicated remote controller for the auto grille panel (BRC16A2) is included.

Operation is not possible using BRC1E63.

The drop length corresponds to ceiling height and can be set for 8 different levels.

Ceiling Height Standard (m)	Drop Length			
2.4	1.2			
2.7	1.6			
3.0	2.0			
3.5	2.4			
3.8	2.8			
4.2	3.1			
4.5	3.5			
5.0*	3.9			

*Airflow range is up to 4.5m. Please refer to "criteria for ceiling height and number of air discharge outlets" on page 124.



Ultra long-life filter (option)

See page 189

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

Cleanliness

Silver ion anti-bacterial drain pan

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

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



Non-flocking flaps

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



Filter has anti-mould and antibacterial treatment

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

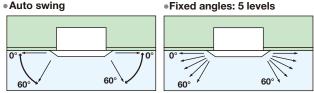
Ceiling Mounted Cassette (Compact Multi Flow) Type FXZQ-M

Quiet, compact, and designed for user comfort

Comfortable airflow

Wide discharge angle: 0° to 60°

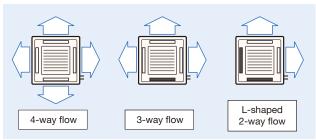
• Auto swing



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

2 2-, 3-, and 4-way airflow patterns are available,

enabling installation in the corner of a room.



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

Specifications

M	ODEL		FXZQ20MVE	FXZQ25MVE	FXZQ32MVE	FXZQ40MVE	FXZQ50MVE		
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		
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6		
Power consumption	n	kW	0.0)73	0.076	0.089	0.115		
Casing					Galvanised steel plate				
Airflow rate (H/L)		m³/min	9	/7	9.5/7.5	11/8	14/10		
Allow rate (II/L)		cfm	318	/247	335/265	388/282	493/353		
Sound level (H/L)	230 V, 50 Hz- 240 V, 50 Hz	dB(A)	30/25	-32/26	32/26-34/28	36/28-37/29	41/33-42/35		
Dimensions (H×W>	(D)	mm			286×575×575				
Machine weight		kg			18				
	Liquid (Flare)				\$\$6.4				
Piping connections	Gas (Flare)	mm			¢12.7				
	Drain			VP20 (I	External Dia, 26/Internal	Dia, 20)			
	Model				BYFQ60B3W1				
Panel	Colour				White (6.5Y9.5/0.5)				
(Option)) Dimensions(H×W×D) mm				55×700×700				
	Weight	kg			2.7				

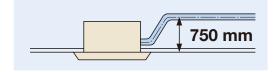
Note: Specifications are based on the following conditions; •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.

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

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



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



VRV Indoor Units

Ceiling Mounted Cassette (Double Flow) Type FXCQ-M

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



•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.

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



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

•Low operation sound level

Specifications

- •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.

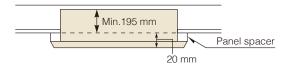
	MODEL		FXCQ20MVE	FXCQ25MVE	FXCQ32MVE	FXCQ40MVE	FXCQ50MVE	FXCQ63MVE	FXCQ80MVE	FXCQ125MVE	
Power supp	bly		1-phase, 220-240 V/220 V, 50/60 Hz								
0	14 .	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	47,800	
Cooling cap	Dacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0	
Power cons	umption	kW	0.077	0.0)92	0.1	30	0.161	0.209	0.256	
Casing						Galvanised	l steel plate				
A !	(11.1.)	m³/min	7/5	9/0	6.5	12	2/9	16.5/13	26/21	33/25	
Airflow rate	(H/L)	cfm	247/177	318/230		424	/318	582/459	918/741	1,165/883	
Cound lovel (220 V		32/27	34/28		34/29		37/32	39/34	44/38	
Sound level (H/L) 240 V	dB(A)	34/29	36/30		37/32		39/34	41/36	46/40	
Dimensions	(H×W×D)	mm		305×775×600)	305×9	90×600	305×1,175×600	305×1,6	665×600	
Machine we	eight	kg		26		31	32	35	47	48	
	Liquid (Flare)				\$\$6.4				¢9.5		
Piping connections	Gas (Flare)	mm			<i>φ</i> 12.7				¢15.9		
CONTECTIONS	Drain				VP25	5 (External Dia,	32/Internal Di	a, 25)			
	Model			BYBC32G-W1			BYBC50G-W	1	BYBC63G-W1	BYBC125G-W1	
Panel	Colour			53×1,030×680 8.0		White (1	0Y9/0.5)				
(Option)	Dimensions(H×W×D)	mm				53×1,245×680		53×1,430×680	53×1,9	20×680	
	Weight	kg				8.5		9.5	12	2.0	

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

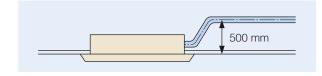
Ceiling Mounted Cassette Corner Type

Slim design for flexible installation

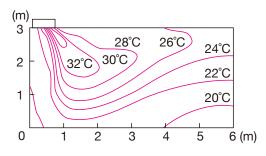
•Slim body needs only 220 mm space above the ceiling. If you use a panel spacer (option), the unit can be installed in the minimum space of 195 mm.



- Single-flow type allows effective air discharge from corner or from drop-ceiling.
- •Drain pump is equipped as standard accessory with 500 mm lift.

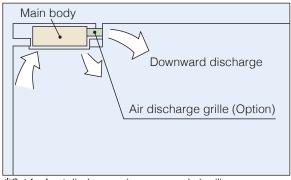


 Providing 3 different settings of standard, draft prevention and ceiling soiling prevention, the auto swing mechanism realises even distribution of airflow and room temperature.

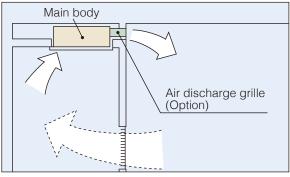




•Front discharge is possible with an air discharge unit (option), which allows the installation in the drop-ceiling or sagging wall.







*Downward discharge is shut off and air is blown straight out (front discharge).

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

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

VRV Indoor Units

FXKQ-MA



Specifications

	MODEL		FXKQ25MAVE	FXKQ32MAVE	FXKQ40MAVE	FXKQ63MAVE
Power supp	bly) V/220 V, 50/60 Hz				
Cooling capacity		Btu/h	9,600	12,300	15,400	24,200
Cooling cap	Jacity	kW	2.8	3.6	4.5	7.1
Power cons	sumption	kW	0.0	66	0.076	0.105
Casing				Galvanised	d steel plate	
		m³/min	11,	/9	13/10	18/15
Airflow rate	e (H/L)	cfm	388/	318	459/353	635/530
Sound level (H/L) 220 V		dB(A)	38/	33	40/34	42/37
Souria lever	(H/L) 240 V	UD(A)	40/-	35	42/36	44/39
Dimensions	(H×W×D)	mm		215×1,310×710		
Machine we	eight	kg		31		34
	Liquid (Flare)		¢ 6.4			\$ 9.5
Piping connections	Gas (Flare)	mm		¢ 12.7		¢ 15.9
	Drain	1 [VP25 (External Dia	, 32/Internal Dia, 25)	
Model				BYK71FJW1		
Panel Colour				White (1	0Y9/0.5)	
(Option)	Dimensions(H×W×D)	mm		70×1,240×800		70×1,440×800
	Weight	kg		8.5		9.5

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

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

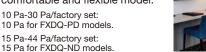
Slim design, guietness and static pressure switching

Suitable to use in drop-ceilings!

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

Great for FXDQ20-32PD hotel use! 200 mm Only 700 mm

- 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:





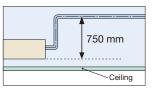


• Only 200 mm in height, this model can be installed in rooms with as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab.



•FXDQ-PD and FXDQ-ND models are available in two types to suit different installation conditions.

FXDQ-PD/NDVE: with a drain pump (750 mm lift) as a standard accessory FXDQ-PD/NDVET: without a drain pump



Specifications

MODEL	with drain	oump	FXDQ20PDVE	FXDQ25PDVE	FXDQ32PDVE	FXDQ40NDVE	FXDQ50NDVE	FXDQ63NDVE		
MODEL	without dra	iin pump	FXDQ20PDVET	FXDQ25PDVET	FXDQ32PDVET	FXDQ40NDVET	FXDQ50NDVET	FXDQ63NDVET		
Power supply					1-phase, 220-240	V/220 V, 50/60 Hz				
Cooling capacit	24	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200		
Cooling capacit	.у	kW	2.2	2.8	3.6	4.5	5.6	7.1		
Power consum (FXDQ-PDVE)		kW	0.0	086	0.089	0.160	0.165	0.181		
Power consumption (FXDQ-PDVET) *1 kW		kW	0.067		0.070	0.147	0.152	0.168		
Casing					Galvanised steel plate					
Airflow rate (H		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		
Allilow rate (H	n/n/L)	cfm		282/254/226			371/335/300 441/388/353 5			
External static p	ressure	Pa	30-10*2			44-15*2				
Sound level (HH	I/H/L)*1*3	dB(A)	28/2	6/23	28/26/24	30/28/26	33/30/27	33/31/29		
Dimensions (H×W×D) mm		mm		200×700×620		200×90	00×620	200×1,100×620		
Machine weight kg			23		27	28	31			
Liquid (Flare)					¢6.4			<i></i> \$9.5		
Piping connections	Gas (Flare)	mm			¢12.7			¢15.9		
001110000013	Drain				VP20 (External Dia,	P20 (External Dia, 26/Internal Dia, 20)				

Note: Specifications are based on the following conditions;

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

During actual operation, these values are normally somewhat higher as a result of ambient conditions. *1 : Values are based on the following conditions: FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: external static pressure of 15 Pa.

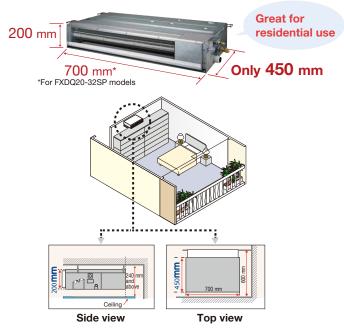
*2 : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ-PD models and 15 Pa for FXDQ-ND models.)

*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)

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

Slim and compact design for easy and flexible installation

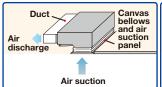
It comes with a slim and compact design with a height of only 200 mm that requires as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab. The depth of the product is only 450 mm which is suitable to install in limited spaces.

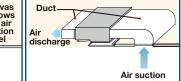




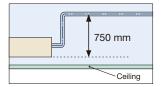


•It is available in two types - ceiling return and ordinary duct to suit different installation conditions.





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



Specifications

	MODEL		FXDQ20SPV1	FXDQ25SPV1	FXDQ32SPV1	FXDQ40SPV1	FXDQ50SPV1	FXDQ63SPV1		
Power supply			1-phase, 220-240 V, 50 Hz							
	.	Btu/h	7,500 9,600		12,300	15,400	19,100	24,200		
Cooling capaci	ty	kW	2.2	2.8	3.6	4.5	5.6	7.1		
Power consum	ption *1	kW	0.072	0.075	0.078	0.1	180	0.196		
Casing					Galvanised	steel plate				
m³/min		m³/min	8.7/7.6/6.5	9.0/8.0/7.0	10.0/9.0/8.0	15.0/13.0/10.5		20.0/16.0/12.5		
Airflow rate (HH	1/H/L)	cfm	307/268/229	318/282/247	353/318/282	530/459/371		706/565/441		
External static	pressure	Pa		30-10* ²		50	-20*2	40-20*2		
Sound level (HI	H/H/L) *1*3	dB(A)	33/3	1/29	34/32/30	35/3	3/31	37/35/33		
Dimensions (H:	×W×D)	mm		200×700×450		200×9	00×450	200×1,100×450		
Machine weight kg 17					20		23			
Liquid (Flare)			¢6.4					¢9.5		
Piping connections	Gas (Flare)	mm			¢12.7			¢15.9		
Drain		1			VP20 (External Dia	26/Internal Dia, 20)			

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

During actual operation, these values are normally somewhat higher as a result of ambient conditions. * 1 : Values are based on the following conditions: FXDQ20-32SP: external static pressure of 10 Pa; FXDQ40-63SP: external static pressure of 20 Pa. * 2 : External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factorysetting is 10 Pa for FXDQ20-32SP models and 20 Pa for FXDQ40-63SP models.)

* 3 : The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A)

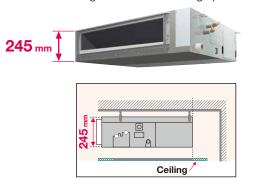
Middle Static Pressure Ceiling Mounted Duct Type

Middle external static pressure and slim design allow flexible installations

Installation flexibility

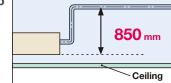
Slim design

• 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.

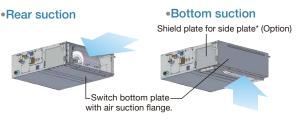


Bottom suction possible

• 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.



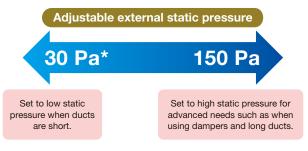
*An optional shield plate for side plate is required if wiring connections and maintenance of control box are needed from under the unit. This option is only available for FXSQ20-125PA models.



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. $% \label{eq:compared}$

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

Comfort

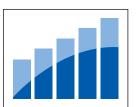
Switchable airflow rate

• 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.



(dB(A))

Low operation sound level

							(())
FXSQ-PAVE	20/25	32	4	0	50		63
Sound level (H/M/L)	33/30/28	34/32/30	36/3	3/30	34/32/29		36/32/29
FXSQ-PAVE	80	100)		125		140
Sound level (H/M/L)	37.5/34/30	39/35	/32	42/3	8.5/35	4	43/40/36

VRV Indoor Units





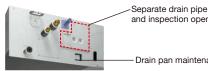
Easy installation

Airflow rate auto adjustment function

- During installation, even if the external static pressure changes due to a change in the duct route, the airflow can be automatically adjusted to within the unit's external static pressure range.
- Airflow rate can be controlled using a remote controller during test operation. It is automatically adjusted to the range between approximately ±10% of the rated H tap airflow.

Easy maintenance

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



and inspection opening

Drain pan maintenance check hole

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

cause blockages and odours. (The lifespan of a silver ion cartridge depends on the usage environment, but should be

changed once every two to three years.)



Specifications

MODEL			FXSQ20PAVE	FXSQ25PAVE	FXSQ32PAVE	FXSQ40PAVE	FXSQ50PAVE			
Power sup	ply			1-phase,	220-240 V/220 V, 5	50/60 Hz				
Cooling of	un a aitu (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			
Power cor	sumption	kW	0.05	8 *1	0.066 * 1	0.101*1	0.075*1			
Casing				G	alvanised steel plat	te				
Airflow rat		m³/min	9/7.5	6.5	9.5/8/7	15/12.5/10.5	17/14.5/11.5			
Annowra		cfm	318/26	5/230	335/282/247	530/441/371	600/512/406			
External st	atic pressure	Pa		30-15	0 (50) * ²		50-150 (50) * ²			
Sound leve	el (H/M/L)	dB(A)	33/3	0/28	34/32/30	36/33/30	34/32/29			
Dimension	is (H×W×D)	mm		245×550×800		245×700×800	245×1,000×800			
Machine w	veight	kg		25		27	35			
	Liquid (Flare)				φ6.4					
Piping connections	Gas (Flare)	mm	¢ 12.7							
	Drain		VP25 (External Dia, 32/Internal Dia, 25)							
	MODEL		FXSQ63PAVE	FXSQ80PAVE	FXSQ100PAVE	FXSQ125PAVE	FXSQ140PAVE			
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz							
Power sup	ply	-		1-phase,	220-240 V/220 V,	50/60 Hz				
		Btu/h	24,200	1-phase, 30,700	220-240 V/220 V, 4 38,200	50/60 Hz 47,800	54,600			
Cooling ca		Btu/h kW	24,200 7.1		,		54,600 16.0			
	apacity		,	30,700	38,200	47,800	. ,			
Cooling ca	apacity	kW	7.1	30,700 9.0 0.126 *1	38,200 11.2	47,800 14.0 0.206 *1	16.0			
Cooling ca Power cor Casing	apacity	kW	7.1	30,700 9.0 0.126 *1	38,200 11.2 0.151*1	47,800 14.0 0.206 *1	16.0			
Cooling ca Power cor	apacity	kW kW	7.1 0.106 *1	30,700 9.0 0.126 *1 G	38,200 11.2 0.151*1 alvanised steel plat	47,800 14.0 0.206 *1 te	16.0 0.222 *1			
Cooling ca Power cor Casing Airflow rat	apacity	kW kW m³/min	7.1 0.106 *1 21/17.5/14.5	30,700 9.0 0.126*1 G 23/19.5/16 812/688/565	38,200 11.2 0.151*1 alvanised steel plat 32/27/22.5	47,800 14.0 0.206 * 1 te 37/31.5/26	16.0 0.222 *1 39/33.5/28			
Cooling ca Power cor Casing Airflow rat	apacity isumption te (H/M/L) atic pressure	kW kW m³/min cfm	7.1 0.106 *1 21/17.5/14.5	30,700 9.0 0.126*1 G 23/19.5/16 812/688/565	38,200 11.2 0.151*1 alvanised steel plat 32/27/22.5 1,130/953/794	47,800 14.0 0.206 * 1 te 37/31.5/26	16.0 0.222 *1 39/33.5/28 1,377/1,183/988			
Cooling ca Power cor Casing Airflow rat External st Sound leve	apacity isumption te (H/M/L) atic pressure	kW kW m³/min cfm Pa	7.1 0.106 *1 21/17.5/14.5 741/618/512 36/32/29	30,700 9.0 0.126 *1 G 23/19.5/16 812/688/565 50-18	38,200 11.2 0.151*1 alvanised steel plat 32/27/22.5 1,130/953/794 50 (50)*2 39/35/32	47,800 14.0 0.206 *1 te 37/31.5/26 1,306/1,112/918	16.0 0.222 *1 39/33.5/28 1,377/1,183/988 50-140 (50)* ²			
Cooling ca Power cor Casing Airflow rat External st Sound leve	apacity asumption te (H/M/L) atic pressure el (H/M/L) as (H×W×D)	kW kW m³/min cfm Pa dB(A)	7.1 0.106 *1 21/17.5/14.5 741/618/512 36/32/29	30,700 9.0 0.126 *1 G 23/19.5/16 812/688/565 50-18 37.5/34/30	38,200 11.2 0.151*1 alvanised steel plat 32/27/22.5 1,130/953/794 50 (50)*2 39/35/32	47,800 14.0 0.206 *1 te 37/31.5/26 1,306/1,112/918 42/38.5/35	16.0 0.222 *1 39/33.5/28 1,377/1,183/988 50-140 (50)*2 43/40/36			
Cooling ca Power cor Casing Airflow rat External st Sound leve Dimension Machine w	apacity asumption te (H/M/L) atic pressure el (H/M/L) as (H×W×D)	kW kW m³/min cfm Pa dB(A) mm	7.1 0.106 *1 21/17.5/14.5 741/618/512 36/32/29 245×1,0	30,700 9.0 0.126 *1 G 23/19.5/16 812/688/565 50-1! 37.5/34/30 000×800	38,200 11.2 0.151*1 alvanised steel plat 32/27/22.5 1,130/953/794 50 (50)* ² 39/35/32 245×1,4	47,800 14.0 0.206 *1 te 37/31.5/26 1,306/1,112/918 42/38.5/35 400×800	16.0 0.222 *1 39/33.5/28 1,377/1,183/988 50-140 (50)*2 43/40/36 245×1,550×800			
Cooling ca Power cor Casing Airflow rat External st Sound leve Dimension	apacity asumption te (H/M/L) atic pressure of (H/M/L) as (H×W×D) reight	kW kW m³/min cfm Pa dB(A) mm	7.1 0.106 *1 21/17.5/14.5 741/618/512 36/32/29 245×1,0	30,700 9.0 0.126 *1 G 23/19.5/16 812/688/565 50-1! 37.5/34/30 000×800	38,200 11.2 0.151*1 alvanised steel plat 32/27/22.5 1,130/953/794 50 (50)* ² 39/35/32 245×1,4 46	47,800 14.0 0.206 *1 te 37/31.5/26 1,306/1,112/918 42/38.5/35 400×800	16.0 0.222 *1 39/33.5/28 1,377/1,183/988 50-140 (50)*2 43/40/36 245×1,550×800			

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

capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.) •Sound level: Anechoic chamber conversion value,

measured at a point 1.5 m downward from the unit centre.

During actual operation, these values are normally somewhat higher as a result of ambient conditions. *1: Power consumption values are based on

conditions of rated external static pressure

*2: External static pressure can be modified using a remote controller that offers thirteen (FXSQ20-40PA), 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

Middle and high static pressure allows for flexible duct design

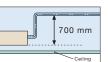
• Using a DC fan motor, the external static pressure can be controlled within a range of 30 Pa* to 200 Pa*.



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

*30 Pa-100 Pa for FXMQ20P-32PA *30 Pa-160 Pa for FXMQ40PA *50 Pa-200 Pa for FXMQ50PA-125PA *50 Pa-140 Pa for FXMQ140PA

- •All models are only 300 mm in height and the weight of the FXMQ40-140PA has been reduced.
- •Drain pump is equipped as standard accessory with 700 mm lift.



- •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
- •Energy-efficient
 - DC fan motor is used to realise energy-saving operation.
- Easy installation

 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 HH tap airflow for FXMQ20P–125PA.



FXMQ200/250M

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





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

Separate drain pipe and inspection opening



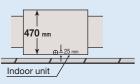
—— Drain pan maintenance check hole

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

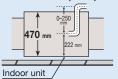


 Built-in Drain Pump (Option) Housing the drain pump inside the unit reduces the space required for installation.

Without drain pump



With drain pump



New FXMQ-PA / M

Specifications

MODEL			FXMQ20PAVE	FXMQ25PAVE	FXMQ32PAVE	FXMQ40PAVE	FXMQ50PAVE		
Power supply				1-phas	se, 220-240 V/220 V, 50	/60 Hz			
Cooling concoil	h	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		
Power consump	otion	kW	0.05	6 *1	0.060*1	0.151* ¹	0.128* ¹		
Casing					Galvanised steel plate				
Airflow rate (H	J/U/I)	m³/min	9/7.5	5/6.5	9.5/8/7	16/13/11	18/16.5/15		
All low rate (I li	1/1 I/ L)	cfm	318/26	5/230	335/282/247	565/459/388	635/582/530		
External static p	oressure	Pa		30-100 (50) * ²		30-160 (100)* ²	50-200 (100) *2		
Sound level (HH	/H/L)	dB(A)	33/3	1/29	34/32/30	39/37/35	41/39/37		
Dimensions (H×	:W×D)	mm		300x550x700		300x700x700	300x1,000x700		
Machine weight	t	kg		25		27	35		
	Liquid (Flare)				\$6.4				
Piping connections	Gas (Flare)	mm							
connections	Drain		VP		(External Dia, 32/Internal Dia, 25)				
	MODEL		FXMQ63PAVE	FXMQ80PAVE	FXMQ100PAVE	FXMQ125PAVE	FXMQ140PAVE		
Power supply				1-phas	se, 220-240 V/220 V, 50	/60 Hz			
Cooling concoit		Btu/h	24,200	30,700	38,200	47,800	54,600		
Cooling capacit	ÿ	Btu/h kW	24,200 7.1	30,700 9.0	38,200 11.2	47,800 14.0	54,600 16.0		
Cooling capacit Power consump			,	,	,	,			
		kW	7.1	9.0	11.2	14.0	16.0		
Power consump Casing	otion	kW	7.1	9.0	11.2 0.215 *1	14.0	16.0		
Power consump	otion	kW kW	7.1 0.138 *1	9.0 0.185*1	11.2 0.215 *1 Galvanised steel plate	14.0 0.284 *1	16.0 0.405 *1		
Power consump Casing	H/H/L)	kW kW m³/min	7.1 0.138 *1 19.5/17.5/16	9.0 0.185*1 25/22.5/20	11.2 0.215 *1 Galvanised steel plate 32/27/23 1,130/953/812	14.0 0.284 *1 39/33/28	16.0 0.405 *1 46/39/32		
Power consump Casing Airflow rate (HI	H/H/L)	kW kW m³/min cfm	7.1 0.138 *1 19.5/17.5/16	9.0 0.185*1 25/22.5/20 883/794/706	11.2 0.215 *1 Galvanised steel plate 32/27/23 1,130/953/812 (100) *2	14.0 0.284 *1 39/33/28	16.0 0.405 *1 46/39/32 1,624/1,377/1,130		
Power consump Casing Airflow rate (HI External static p	H/H/L)	kW kW m³/min cfm Pa	7.1 0.138 *1 19.5/17.5/16 688/618/565 42/40/38	9.0 0.185*1 25/22.5/20 883/794/706 50-200	11.2 0.215 *1 Galvanised steel plate 32/27/23 1,130/953/812 (100) *2	14.0 0.284 *1 39/33/28 1,377/1,165/988	16.0 0.405 *1 46/39/32 1,624/1,377/1,130 50-140 (100) *2		
Power consump Casing Airflow rate (HH External static p Sound level (HH	H/H/L) oressure /H/L) W×D)	kW kW m³/min cfm Pa dB(A)	7.1 0.138 *1 19.5/17.5/16 688/618/565 42/40/38 300×1,0	9.0 0.185*1 25/22.5/20 883/794/706 50-200 43/4	11.2 0.215 *1 Galvanised steel plate 32/27/23 1,130/953/812 (100) *2 1/39	14.0 0.284 *1 39/33/28 1,377/1,165/988 44/42/40	16.0 0.405 *1 46/39/32 1,624/1,377/1,130 50-140 (100) *2		
Power consump Casing Airflow rate (HI External static p Sound level (HH) Dimensions (H× Machine weight	H/H/L) oressure /H/L) W×D)	kW kW m³/min cfm Pa dB(A) mm	7.1 0.138 *1 19.5/17.5/16 688/618/565 42/40/38 300×1,0	9.0 0.185*1 25/22.5/20 883/794/706 50-200 43/4 000×700	11.2 0.215 *1 Galvanised steel plate 32/27/23 1,130/953/812 (100) *2 1/39	14.0 0.284 *1 39/33/28 1,377/1,165/988 44/42/40 300×1,400×700	16.0 0.405 *1 46/39/32 1,624/1,377/1,130 50-140 (100) *2 46/45/43		
Power consump Casing Airflow rate (HH External static p Sound level (HH/ Dimensions (H×	H/H/L) hressure /H/L) W×D)	kW kW m³/min cfm Pa dB(A) mm	7.1 0.138 *1 19.5/17.5/16 688/618/565 42/40/38 300×1,0	9.0 0.185*1 25/22.5/20 883/794/706 50-200 43/4 000×700	11.2 0.215 *1 Galvanised steel plate 32/27/23 1,130/953/812 (100) *2 1/39 4	14.0 0.284 *1 39/33/28 1,377/1,165/988 44/42/40 300×1,400×700	16.0 0.405 *1 46/39/32 1,624/1,377/1,130 50-140 (100) *2 46/45/43		

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N	ODEL		FXMQ200MVE9	FXMQ250MVE9			
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Caeling conce		Btu/h	76,400	95,500			
Cooling capac	kW		22.4	28.0			
Power consun	nption	kW	1.294*1	1.465 *1			
Casing			Galvanised steel p	late			
Airflow rate (H	1/1)	m³/min	58/50	72/62			
Allilow fate (i	1/ L)	cfm	2,047/1,765	28.0 1.465 ^{*1} d steel plate 72/62 2,542/2,189 191-270 ^{*2} /45 /46			
External static	pressure	Pa	132-221*2	191-270 ^{*2}			
Council lovel // /	220 V	dB(A)	48/45				
Sound level (H	240 V		49/46				
Dimensions (H	×W×D)	mm	470×1,380×1,10	0			
Machine weig	nt	kg	137				
Li	quid (Flare)		\$ 9.5				
Piping connections G	as (Brazing)	mm	¢19.1	¢22.2			
	rain		PS1B				

Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
 Cooling: Indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity difference: 0 m.
 Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity difference: 0 m.
 Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity form the unit centre.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 *1: Power consumption values are based on conditions of standard external static pressure.
 *2: External static pressure is changeable to change over the connectors inside electrical box, this pressure means "Standard-High static pressure".

4-way Flow Ceiling Suspended Type

FXUQ-A

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

- Unit body and suction panel adopted round shapes and realised a slim appearance design. The unit can be used for various locations such as the ceilings with no cavity and bare ceilings.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- Unified slim height of 198 mm for all model that gives the unified impression even when models with different capacities are installed in the same area.
- With adoption of the individual flap control, airflow direction adjustment can be individually set for each air outlet. 5 directions of airflow and auto-swing can be selected with wired remote controller BRC1E63, which realises the optimum air distribution.

Individual airflow direction example case



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



Specifications



- Control of the airflow rate has been improved from 2-step to 3-step control. Auto airflow rate control can be selected with wired remote controller BRC1E63.
- Energy efficiency has been improved thanks to the adoption of a new heat exchanger with smaller tubes, DC fan motor and DC drain pump motor.
- Drain pump is equipped as a standard accessory, and the lift height has been improved from 500 mm to 600 mm.
- Depending on installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.



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



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

	MODEL		FXUQ71AVEB	FXUQ100AVEB		
Power supply	r		1-phase, 220-240 V/	/220-230 V, 50/60 Hz		
Cooling capacity		Btu/h	27,300	38,200		
Cooling capa	Спу	kW	8.0	11.2		
Power consu	mption	kW	0.090	0.200		
Casing			Fresh	white		
Airflow rate (m³/min	22.5/19.5/16	31/26/21		
Annow rate (1 1/ IVI/ L)	cfm	794/688/565	1,094/918/741		
Sound level (I	H/M/L)	dB(A)	40/38/36	47/44/40		
Dimensions (I	H×W×D)	mm	198×9	50×950		
Machine weig	jht	kg	26	27		
	Liquid (Flare)		φ§	0.5		
Piping connections	Gas (Flare)	mm	¢1	5.9		
001110010113	Drain		VP20 (External Dia,	20 (External Dia, 26/Internal Dia, 20)		

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

Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)

· Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.

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

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

*2: External static pressure is changeable to change over the connectors inside electrical box, this pressure means "Standard-High static pressure".

Ceiling Suspended Type

FXHQ-MA

Slim body with quiet and wide airflow

Quiet stream fan

Straightening vane

600 mm

(built inside main unit)

Drain pump kit

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

Sound absorption member

Adoption of QUIET STREAM FAN

Uses the quiet stream fan and many more advanced technologies.

Turbulent flow

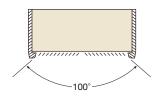
Installation is easy

Low operation sound level

is produced



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



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

Bristle-free Flap minimises contamination and makes cleaning simpler.



Non-dew Flap

- 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

Specifications

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	MODEL		FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE	
Power supp	ly			1-phase, 220-240 V/220 V, 50/60 Hz	1	
0	14 .	Btu/h	12,300	24,200	38,200	
Cooling cap	acity	kW	3.6	7.1	11.2	
Power cons	umption	kW	0.111	0.115	0.135	
Casing				White (10Y9/0.5)		
Airflow rate	(11/1.)	m³/min	min 12/10 17.5/14		25/19.5	
Almow rate	(П/Ц)	cfm	424/353	618/494	883/688	
Sound level	(H/L)	dB(A)	36/31	39/34	45/37	
Dimensions	(H×W×D)	mm	195×960×680	195×1,160×680	195×1,400×680	
Machine we	ight	kg	24	28	33	
	Liquid (Flare)		\$\$6.4	φ9	9.5	
Piping connections Gas (Flare)		mm	¢12.7	¢15.9		
Connections	Drain			VP20 (External Dia, 26/Internal Dia, 20)	

Note: Specifications are based on the following conditions:

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

Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Indoor Unit Lineup

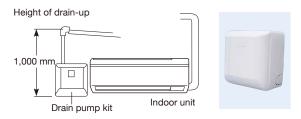
Wall Mounted Type

Stylish flat panel design harmonised with your interior décor

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



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



Specifications

	MODEL		FXAQ20PVE	FXAQ25PVE	FXAQ32PVE	FXAQ40PVE	FXAQ50PVE	FXAQ63PVE		
Power supply				1-phas	se, 220-240 V/220 V	, 50/60 Hz	i0/60 Hz			
Btu		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200		
Cooling capac	пу	kW	2.2	2.8			7.1			
Power consur	nption	kW	0.019	0.028	0.030	0.020	0.033	0.050		
Casing				•	White (3.0	0Y8.5/0.5)				
Airflow rate (H	1/1 \	m³/min	7.5/4.5	8/5	8.5/5.5	12/9	15/12	19/14		
Almow rate (F	17 L)	cfm	265/159	282/177	300/194	424/318	530/424	671/494		
Sound level (H	/L)	dB(A)	35/31	36/31	38/31	39/34	42/37	47/41		
Dimensions (H	×W×D)	mm		290×795×238			290×1,050×238	1		
Machine weigh	nt	kg		11			14			
Piping connections Drain				\$ 6.4						
		mm			<i>ф</i> 12.7		¢15.9			
		1		VP13 (E	External Dia, 18/Inter	rnal Dia, 13)	VP13 (External Dia, 18/Internal Dia, 13)			

Note: Specifications are based on the following conditions;

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

(See Engineering Data Book for details.)

· Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions

VRV Indoor Units

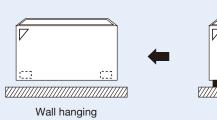
FXLQ-MA

Floor Standing Type

Suitable for perimeter zone air conditioning

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

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





Specifications

	MOD	EL		FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz					
Btu/h		Btu/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
Power consump	otion		kW	0.0)49	0.0	90	0.1	110
Casing						Ivory white	e (5Y7.5/1)		
Airflow rate (H/I			m³/min	7/6		8/6	11/8.5	14/11	16/12
AITIOW Fate (H/I	_)		cfm	247	/212	282/212	388/300	494/388	565/424
Sound level (H/L	<u>۱</u>	220 V		35/32			38/33	39/34	40/35
Souria level (H/L	-)	240 V	dB(A)	37/34			40/35	41/36	42/37
Dimensions (H×)	W×D)		mm	600×1,000×222 600×		600×1,1	40×222	600×1,4	420×222
Machine weight			kg	25 30			0	3	36
	Liqu	id (Flare)		\$\$6.4					¢9.5
Piping connections	Gas	(Flare)	mm			<i>ф</i> 12.7			¢15.9
CONTECTIONS	Drain		1	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.
 Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.

(See Engineering Data Book for details.) • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.



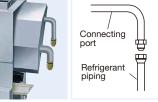
Concealed Floor Standing Type

FXNQ-MA

Designed to be concealed in the perimeter skirting-wall



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



Applies also to Floor Standing type (FXLQ-MA)

•A long-life filter (maintenance free up to one year*) is equipped as standard accessory. * 8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m²

Specifications

	MOD	EL		FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE			
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz								
Cooling capacity Btu/h		Btu/h	7,500 9,600		12,300	15,400	19,100	24,200				
Cooling capacity			kW	2.2	2.8	2.8 3.6 4.5 5.6 7.			7.1			
Power consump	otion		kW	0.0)49	0.0)90	0.1	10			
Casing						Galvanised	l steel plate					
Airflow rate (H/I	``		m³/min	7/6		8/6	11/8.5	14/11	16/12			
All low rate (17/	-)		cfm	247/212		282/212	388/300	494/388	565/424			
Sound level (H/L	<u>`</u>	220 V		35/32			38/33	39/34	40/35			
Souria level (H/L	,	240 V	dB(A)		37/34		40/35	41/36	42/37			
Dimensions (H×\	N×D)		mm	610×930×220 610>		610×1,0)70×220	610×1,3	50×220			
Machine weight			kg	19 23			3	2	7			
	Liqu	id (Flare)				\$\$\phi_6.4\$			¢9.5			
Piping connections	Gas	Gas (Flare)				<i>φ</i> 12.7			¢15.9			
001110010113	Drain		1	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. ·Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.

(See Engineering Data Book for details.) •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m.

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

Floor Standing Duct Type

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

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

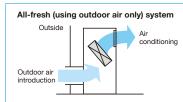
Duct connection airflow type

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

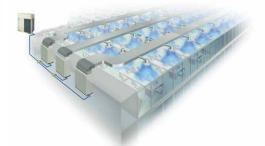
Direct airflow type

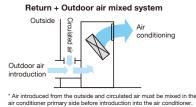
- The high static pressure type driven by the belt drive system allows for use of air discharge outlets in various shapes as well as long ducts. Highly flexible installation is possible.
- Design with high maintainability that allows major services and maintenance services to be performed at the front.
- A long-life filter (maintenance free up to one year*) is equipped as a standard accessory. * 8 hr/day, 26 day/month. For dust concentration of 0.15 mg/m³
- A wide range of optional accessories are available such as high-efficiency filters.
- Outdoor air intake mode is useable as an outdoor-air processing air conditioner.

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









Specifications

	MODEL		FXVQ125NY1	FXVQ200NY1	FXVQ250NY1	FXVQ400NY1	FXVQ500NY1	FXVQ500NY16		
Power supp	ly			3-	phase 4-wire syste	m, 380–415 V, 50) Hz			
Cooling capacity		Btu/h	47,800	76,400	95,500	154,000	191	,000		
Cooling cap	acity	kW	14.0	22.4	28.0	45.0	50	6.0		
Power cons	umption	kW	0.53	1.33	1.61	3.97	2.62	4.70		
Casing colo	ur				lvory white	e (5Y7.5/1)				
Dimensions	(H×W×D)	mm	1,670×750×510	1,670×950×510	1,670×1,170×510	1,900×1,170×720	1,900×1	,470×720		
Machine we	ight	kg	118	144	169	236	281 306			
Sound level	*1	dB(A)	52	56	60	65	62	66		
	Liquid	mm					¢15.9 (Brazing)			
Piping connections	Gas	mm		¢19.1 (Brazing)	¢ 22.2 (Brazing)					
Connections	Drain	mm			Rp1 (PS 1B in	iternal thread)				
Air filter	Туре				Long-life filter (ant	i-mould resin net)				
	Motor output	kW	0.75	1	.5	3.	7	5.5		
	Airflow rate	m³/min	43	69	86	134	165	172		
Fan	Almow rate	cfm	1,518	2,436	3,036	4,730	5,825	6,072		
	External static pressure *2	Pa	152	217	281	420	142	390		
	Drive system				Belt drive	e system				

Note: Specifications are based on the following conditions;

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

Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.
 (See Engineering Data Rook for datails.)

(See Engineering Data Book for details.)

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



FXVQ-N

^{*2:} The value is the external static pressure with standard pulley.

Clean Room Air Conditioner

Suitable for hospitals and other clean spaces

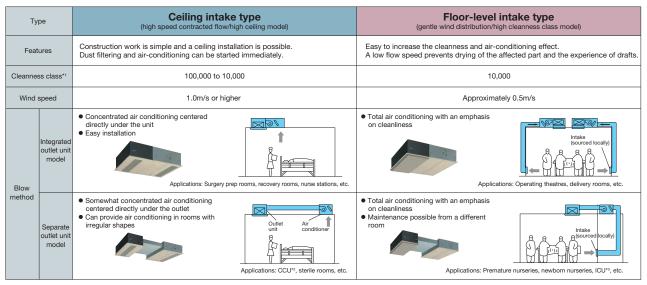


Easily provides the high cleanliness environment required by various industries

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

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

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



Instances of installation by type (for a hospital)

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

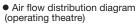
Can be easily installed in existing buildings

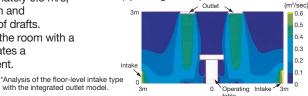
A simple structure makes it easy to realize a highly clean environment with the same installation work as for a typical air conditioner. Can be easily installed in new buildings, existing structures, and refurbishments.

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

with the integrated outlet model

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





FXB(P)Q-P

Filtration

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

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

■HEPA filter

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

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



Installation example (in a medical facility)

Antibacterial

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

The filter implements an antibacterial treatment with a new coating combining a silver-based inorganic antibacterial material (an organic antibacterial material that is effective against germs) that prevents mould.

This enhances the antibacterial properties of the duct.

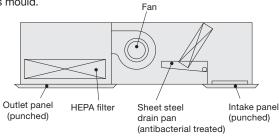
An antibacterial treatment using a silver-based organic substance reduces mould.

Antibacterial fiber used in the intake filter

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

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

*Periodic maintenance is required (such as cleaning the air filter and washing the inside to the unit).



Labor-saving

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

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

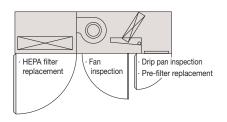
*The maintenance period differs significantly according to the cleanliness of the room and hours of air conditioner operation.

Quiet

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

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

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



Indoor Unit Lineup

Clean Room Air Conditioner

FXB(P)Q-P

Specifications

Туре				Integrated outlet unit model		Separate outlet unit model	
	Indoor unit		FXBQ40PVE	FXBQ50PVE	FXBQ63PVE	FXBPQ63PVE	
MODEL	Outlet unit		I	ntegrated with the indoor uni	t	BAF82A63	
Power supp	oly			1-phase, 220-240	V/220 V, 50/60 Hz		
Cooling oor	a a a litre	Btu/h	15,400	19,100	2	24,200	
Cooling cap	Jacity	kW	4.5	5.6		7.1	
Power cons	sumption	kW	0.3	31		0.45	
Intake filter	efficiency *1			70% by gravir	metric method		
Outlet HEP	A filter efficiency *2			99.97% by D	OP method *5		
Indoor unit weight kg		kg	140) *3	185 *3	120 *6	
Casing			Galvanised steel plate				
Airflow rate	s (Ц/L)	m³/min	19.5/17.5		26/22.5		
All IOW Tale	∃ (⊓/Ľ)	cfm	688/618		918/794		
Sound leve	I (H/L) *4	dB(A)	44/42				
Dimensions	s (H×W×D)	mm	492×1,788×1,000		492×1,788×1,300	492×1,078×1,300	
Outlet unit	weight	kg	_			65 *3	
	Liquid (Flare)		<i>\$</i> 6	i.4	¢9.5		
Piping connections	Gas (Flare)	mm	φ1:	2.7	¢15.9		
connections	Drain		PT1B				
Filter(Option)	Filter(Option) HEPA filter		BAFH	32A50	BAI	FH82A63	
Panel	Ceiling intake type	Model	BYB82	2A50C	BYB82A63C	BYB82A63CP	
(Option)	Floor-level intake type		BYB82	A50W	BYB82A63W	BYB82A63WP	

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

•Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index.

(See Engineering Data Book for details.) *1: An intake air filter is only attached to the ceiling intake type.

*2: HEPA filter sold separately. The dust collection efficiency of HEPA filter is 99.97%. However, air may slightly leak around the filter when installing. *3: Weight including HEPA filter and panel.

*4: Anechoic chamber conversion value under JIS B 8616 test conditions. Value usually increases slightly in practice due to surrounding conditions. *5: The clean room air conditioner does not support DOP testing (leak test) based on GMP standards (Standards for Manufacturing Control and

Quality Control for Medical Devices) due to slight leakage at time of product installation. *6: Weight including panel.

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



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

Slim Ceiling Mounted Duct Type

FDKS-EA/C(A)





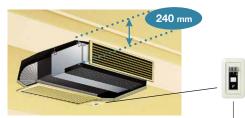
Standard accessory Note: Remote controllers other than the standard accessory wireless remote controller cannot be used.

Slim and smooth design suits your shallow ceiling

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



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



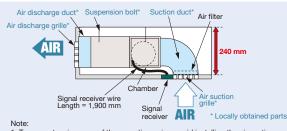
Signals from the wireless remote controller are transmitted to the signal receiver.

Specifications

|--|

•	Low operation	n sound level		(H/L/SL)
	FDKS25	FDKS35	FDKS50	FDKS60
	35/31/29 dB (A)	35/31/ <mark>29</mark> dB (A)	37/33/ <mark>3</mark> 1 dB (A)	38/34/ <mark>32</mark> dB (A)

- Home Leave Operation prevents large increase or decrease in the indoor temperature by continuing operation* while someone is sleeping or left the house. This means that an air-conditioned welcome awaits when someone wakes up or returns. It also means that the indoor temperature can quickly return to the preferred comfort setting.
 - * Home Leave Operation can set to any temperature from 18 to 32°C for cooling
 - operation. * Home Leave Operation function must be set by using the remote controller when going to sleep or leaving the house, and after waking up or returning home.



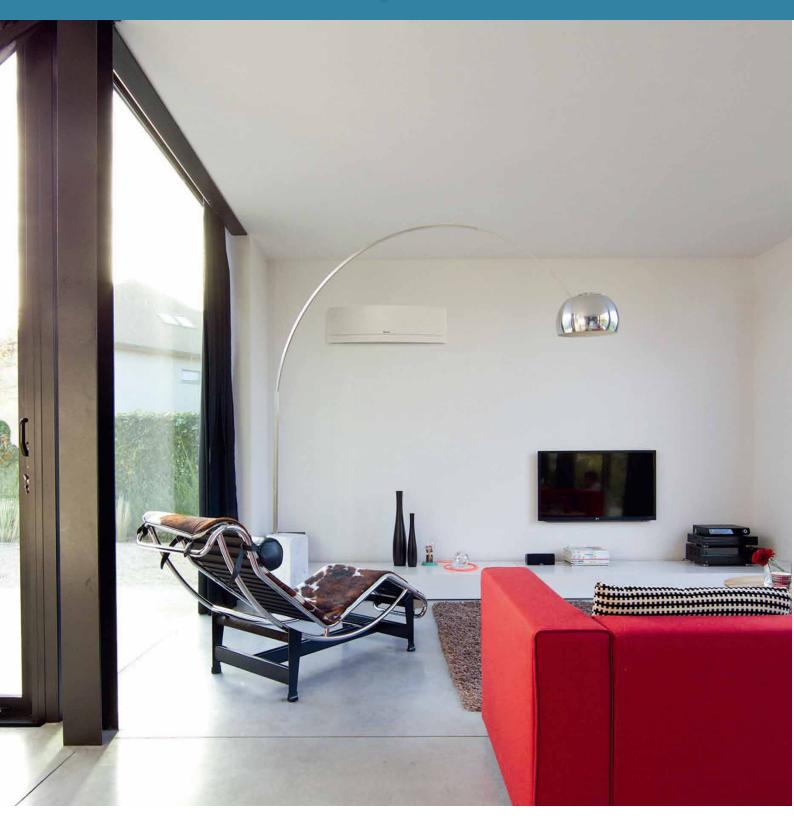
1. To prevent an increase of the operation noise, avoid installing the air suction arille directly below the suction chamber

- 2. Grilles, piping connections, ducts, and installation parts should be obtained locally. Slim Ceiling Mounted Duct type models do not have drain-up pumps.
- The signal receiver unit must be located near the air suction inlet, because the unit includes a sensor that detects room temperature.

MODEL		FDKS25EAVMB	FDKS35EAVMB	FDKS25CAVMB	FDKS35CAVMB	FDKS50CVMB	FDKS60CVMB		
Power supply					1-phase, 220-240 V/	/220-230 V, 50/60 Hz			
Airflow rates (H	ł)	m³/min (cfm)	8.7 ((307)	9.5 (335)	10.0 (353)	12.0 (424)	16.0 (565)	
Sound levels (I	H/L/SL)*	dB (A)		35/3	31/29		37/33/31	38/34/32	
Fan speed					5 steps, quiet	and automatic			
Temperature c	Temperature control			Microcomputer control					
Dimensions (H	×W×D)	mm	200×700×620 200×900		200×900×620		200×1,100×620		
Machine weigh	nt	kg	21 25		27	30			
	Liquid (Flare)			\$\$6.4					
Piping connections	Piping Gas (Flare)			¢9.5				¢12.7	
Drain		VP20 (External Dia. 26/Internal Dia. 20)							
Heat insulation	Heat insulation			Both liquid and gas pipes					
External static	External static pressure Pa			30 40					

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

Indoor Unit Lineup





Wall Mounted Type

Elegant appearance with European style



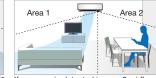
 Elegant Appearance with Curved Panel
 The sleek design of the FTKJ-N indoor unit features a uniquely European style. This elegant body houses state-of-the-art technology which delivers

superior performance. The FTKJ-N series offers a versatile choice for home-owners, designers and architects alike.



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





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

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

Comfort Airflow Mode

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

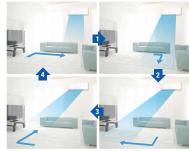


FTKJ-N

•3D Airflow

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

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



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

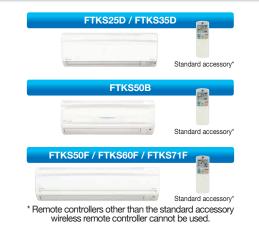
Specifications

MODEL		FTKJ25NVMMW	FTKJ25NVMMS	FTKJ35NVMMW	FTKJ35NVMMS	FTKJ50NVMMW	FTKJ50NVMMS		
Power supply					1-phase, 220-240 V/2	220-230 V , 50/60 Hz			
Front pane	el colour		White	Silver	White	Silver	White	Silver	
Airflow rat	es (H)	m³/min(cfm)	8.9	(313)		10.	9 (385)		
Sound lev	els (H/L/SL)	dB (A)	38/2	5/19	45/2	6/20	46/3	5/29	
Fan speed			5 steps, quiet and automatic						
Temperatu	re control		Microcomputer control						
Dimensior	is (H×W×D)	mm	303x998x212						
Machine v	/eight	kg	12						
Piping connections Liquid (Flare) Gas (Flare) Drain			<i>\$</i> 6.4						
		mm	¢9.5 ¢12.7						
			¢18.0						
Heat insula	ation		Both liquid and gas pipes						

Indoor Unit Lineup

Wall Mounted Type





Stylish flat panel harmonises with your interior décor

Wall Mounted indoor units achieve quiet sound levels of 22 dB (A). (H/L/SL)

FTKS25D FTKS35D FTKS50F FTKS60F FTKS71F

37/25/22 dB (A) 39/26/23 dB (A) 43/34/31 dB (A) 45/36/33 dB (A) 46/37/34 dB (A)

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





When you go out

When you are in the room

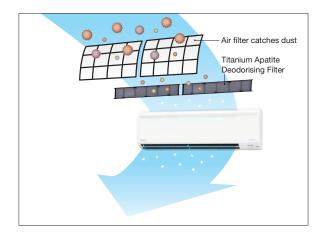
- •3-D Airflow combines Vertical and Horizontal Auto-Swing to circulate air to every part of a room for uniform cooling of even large spaces.
 - * This function is available for FTKS50/60/71F.



A uniform temperature is achieved throughout the entire room.

Titanium Apatite Deodorising Filter

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





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

Specifications

	MODEL		FTKS25DVM	FTKS35DVM	FTKS50BVMA	FTKS50FVM	FTKS60FVM	FTKS71FVM		
Power su	pply				1-phase, 220-240 V/2	220-230 V, 50/60 Hz				
Front pan	el colour				Whi	ite				
Airflow rat	tes (H)	m ³ /min (cfm)	8.7 (307)	8.9 (314)	11.4 (402)	14.7 (519)	16.2 (572)	17.4 (614)		
Sound lev	els (H/L/SL)	dB (A)	37/25/22	39/26/23	44/35/32	43/34/31	45/36/33	46/37/34		
Fan speed	d		5 steps, quiet and automatic							
Temperat	ure control		Microcomputer control							
Dimensior	ns (H×W×D)	mm	283×800×195 290×795×238				290×1,050×238			
Machine v	weight	kg	9 12							
	Liquid (Flare)				<i>ϕ</i> 6.4					
Piping connections	Gas (Flare)	mm	φ9	0.5	¢12	2.7	φ1	5.9		
	Drain		φ18.0							
Heat insulation			Both liquid and gas pipes							

FTKS-D/B/F

BP Units

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.

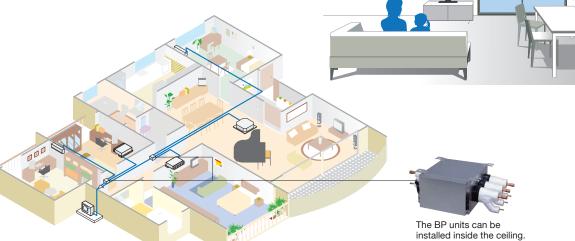


Quiet Operating Sound

/lin. sound level 19 dB(A)

Expansion valves tend to create refrigerant passing noise. However, this noise can be reduced by installing the valves in BP units. The units can be fitted inside the ceiling or roof-space far from an indoor unit. Some Daikin residential indoor units also provide minimum sound levels of just 19 dB(A). Together these features ensure your system continues to operate as quietly as possible.

BP unit



Specifications



BPMKS967A3



BPMKS967A2

	мо	DEL		BPMKS967A3	BPMKS967A2		
Power supply				1-phase, 220-240 V/220-230 V, 50/60 Hz			
Number of ports				3 (connectable to 1-3 indoor units)	2 (connectable to 1-2 indoor units)		
Power co	nsumpt	ion	W	1	0		
Running o	current		A	0.	05		
Dimensio	ns (HXV	VXD)	mm	180X294 (-	+356*)X350		
Machine v	weight		kg	8	7.5		
Number o	f wiring	connec	tions	3 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 4 for interunit wiring (BP-indoor unit)	2 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 3 for interunit wiring (BP-indoor unit)		
	Linudal	Main		¢9.5×1			
Piping connections	Liquid	Branch	mm	¢6.4X3	\$\$\phi.4X2		
(Brazing)	0	Main		φ19.1×1			
	Gas	Branch mm		¢15.9X3	¢15.9X2		
Heat insu	lation			Both liquid a	nd gas pipes		
Connecta	ble indo	oor units	;	2.5 kW class to 7.1 kW class			
Min. rated capacity of kW connectable indoor units		kW	2.5				
Max. rated connectat			kW	20.8	14.2		

Note: * Total auxiliary piping length.

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.



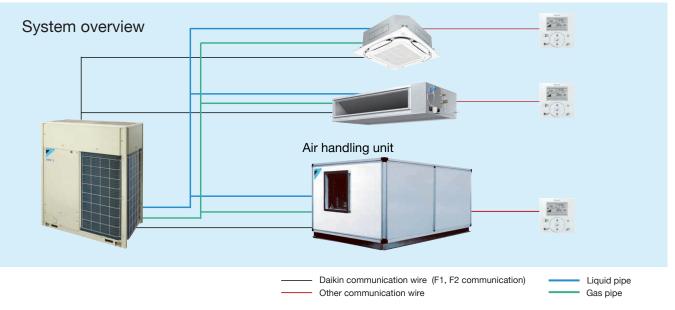
• Easy design and installation

 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

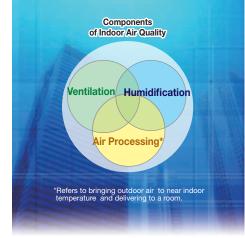




Daikin air handling units can be connected to VRV systems.

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

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



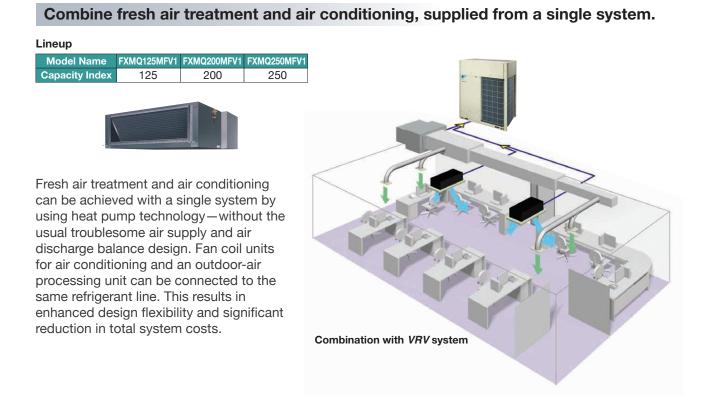
A recent trend rapidly gaining popularity is for air treatment to be required as well as air conditioning. Daikin's Outdoor-Air Processing Unit can combine fresh air treatment and air conditioning, supplied from a single system. It adjusts the temperature of air from outdoors using a fixed discharge 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

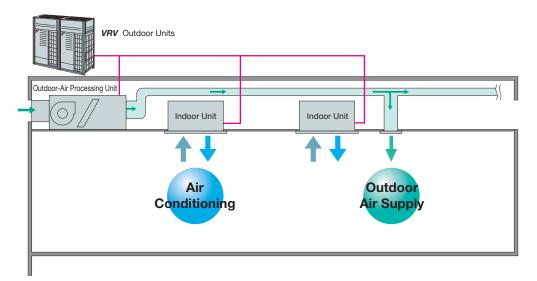
		Outdoor-Air		Heat Reclai	m Ventilator	
		Processing Unit	VKM-GAM Type	VKM-GA Type	VAM-GJ Type	
		Ventilation Humidification Air Processing*	Ventilation Air	Humidification Processing*	Ventilation Humidification	
	Refrigerant Piping	Connectable	Conne	ctable	Not connectable	
Connections	Wiring	Connectable	Conne	ctable	Connectable	
with VRV systems	After-cool & After-heat Control	Available	Available		Not available	
Heat Exchai	nge Element	_	Energy savin	igs obtained	Energy savings obtained	
Humidifier		_	Fitted	_	_	
High Efficier	ncy Filter	Option	Opt	tion	Option	
Ventilation S	System	Air supply only	Air supply &	air exhaust	Air supply & air exhaust	
Power Supp	bly	220-240 V, 50 Hz	220-240	V, 50 Hz	220-240 V/220 V, 50 Hz/60 Hz	
Airflow Rate		1080 m³/h 1680 m³/h	500 800 1000	m³/h	150 m³/h 250 m³/h 350 m³/h 500 m³/h 650 m³/h 800 m³/h 1000 m³/h 1500 m³/h	
		1680 m [°] /h 2100 m ³ /h			2000 m³/h	

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

Outdoor-Air Processing Unit



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.

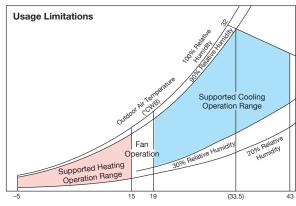
- When outdoor-air processing units are connected, the total connection capacity index must be 50% to 100% of the capacity index of the outdoor units.
- When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must 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
- 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. The set temperature can be varied within the range of 13–25°C during cooling operation, in the local setting mode using the wired remote controller. The temperature, however, is not displayed on the remote controller.
- * While in machine protection mode and depending on outdoor air conditions, discharge air temperature may not be at the set temperature.
- * The fan stops when operating in defrosting, oil returning and hot start operations. The fan may stop due to mechanical protection control.
- Ceiling mounted duct units with three different capacities are available. These can be connected to *VRV* series outdoor units to meet a variety of different requirements.

Airflow rate

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

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



Note:

- 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.
- 3. The system will not operate in fan mode when the outdoor air temperature is 5°C or below.

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



BRC1E63 Navigation Remote Controller (Wired remote controller) (option)

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



DCS302CA61 Central remote controller (option)

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

Note:

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

STANDARD SPECIFICATIONS

Indoor unit

	Туре				Ceiling Mounted Duct Type		
	Model			FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1	
Power su	upply			1-phas	e 220-240 V (also required for indoor units)	, 50 Hz	
Cooling	capacity *1		Btu/h	47,800	76,400	95,500	
o o o o i i i g o	supulity i		kW	14.0	22.4	28.0	
Power co	onsumption		kW	0.359	0.548	0.638	
Casing					Galvanised steel plate		
Dimensio	ons (H×W×D)		mm	470X744X1,100	470×1,38	30X1,100	
	Motor output		kW		0.380		
Fan	Airflow rate		m³/min	18	28	35	
- an	Allilow rate		cfm	635	988	1,236	
	External static pressure 2	220V/240V	Pa	185/225	225/275	205/255	
Air filter				*2			
	Liquid		mm	φ 9.5 (flare)			
Refrigerant piping	Gas		mm	¢ 15.9 (flare)	<pre></pre>	\$ 22.2 (brazing)	
	Drain		mm		PS1B female thread		
Machine	weight		kg	86	12	23	
Sound le	evel *3 2	220V/240V	dB(A)	42/43	47/	/48	
Connectable outdoor units *4		1		6 HP and above	8 HP and above	10 HP and above	
Operation range (Fan mode operation between 15 and 19°C) Cooling			Cooling	19 to 43°C			
Range of the discharge temperature *5 Cooling			Cooling	13 to 25°C			

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

 Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
 Equivalent reference piping length: 7.5 m (0 m horizontal)
 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.
 An echoic 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 conversion.

*4. It is possible to connect to the outdoor unit if the total capacity of the indoor units is 50% to 100% of the capacity index of the outdoor unit.
*5. Local setting mode is not displayed on the remote controller. This equipment cannot be incorporated into the remote group control of the VRV system.

conditions.

OPTIONS

Indoor unit

		Model	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1		
Operation remote controller			BRC1E63/BRC1C62				
Operation/control	Central remote	controller		DCS302CA61			
∩/C0	Unified ON/OFI	F controller		DCS301BA61			
atio	Schedule timer			DST301BA61			
Oper	Wiring adaptor fo	or electrical appendices (1)		KRP2A61			
0	Wiring adaptor fo	or electrical appendices (2)	KRP4AA51				
	Long-life replace	ement filter	KAFJ371L140 KAFJ371L280				
Filters	High-efficiency	Colourimetric method 65%	KAFJ372L140	KAFJ37	72L280		
Ē	filter	Colourimetric method 90%	KAFJ373L140	KAFJ373L280			
	Filter chamber	*1	KDJ3705L140	KDJ370	05L280		
Pl	M2.5 filtration unit	*2	BAF429A20A				
PI	M2.5 with activate	d carbon filtration unit *2	BAF429A20AC				
Drain pump kit			KDU30L250VE				
Adaptor for wiring			KRP1B61				

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

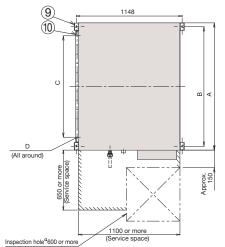
Dimensions and weight of the equipment may vary depending on the options used.
 Some options may not be usable due to the equipment installation conditions, so please confirm prior to ordering.

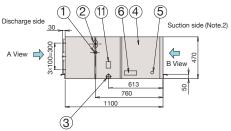
*2. Refer to page 166-168 for details.

Some options may not be used in combination.

DIMENSIONS

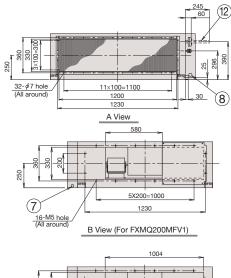
FXMQ125/200/250MFV1

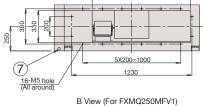




*These diagrams are based on FXMQ200 and FXMQ250MFV1.

FXMQ200/250MFV1





Local connection piping size

Model	Gas piping diameter	Liquid piping diameter
FXMQ125MFV1	<i>ф</i> 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

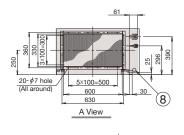
Model	А	В	С	D
FXMQ125MFV1	744	685	5X100=500	20- <i>ф</i> 4.7 hole
FXMQ200MFV1	1380	1296	11X100=1100	32- ϕ 4.7 hole
FXMQ250MFV1	1380	1296	11X100=1100	32- ϕ 4.7 hole

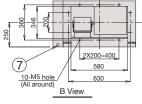
Note:

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

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

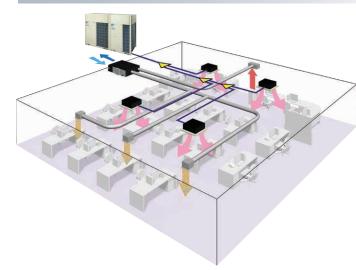
FXMQ125MFV1





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

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



Efficient outdoor air introduction is possible

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

Encup											
Witł	n DX Coil & Hu	umidifier Type)								
Model Name	VKM50GAMV1	VKM80GAMV1	VKM100GAMV1								
Capacity Index 31.25 50 62.5											
	With DX Co	oil Type									
Model Name	VKM50GAV1	VKM80GAV1	VKM100GAV1								
Capacity Index	31.25	50	62.5								

Humidifier

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

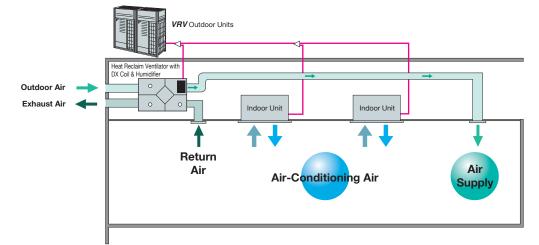
DX-coil

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

High static pressure

High external static pressure means enhanced design flexibility.

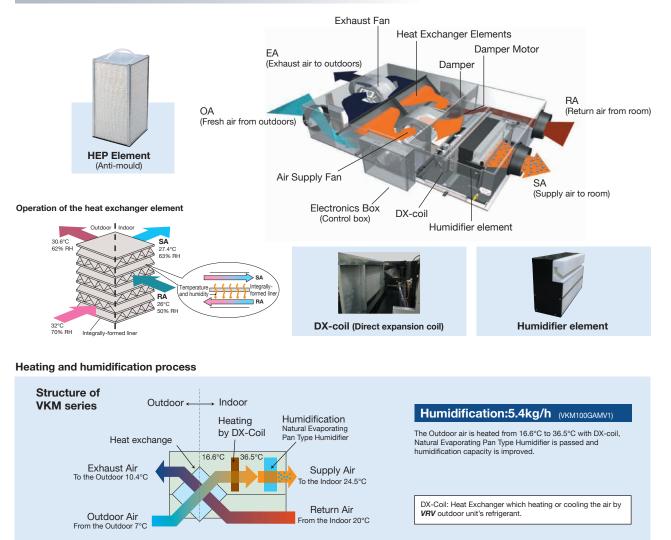
Air conditioning and outdoor air processing can be accomplished using a single system.



Connection Conditions

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

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



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

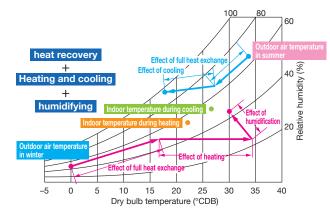
Efficient outdoor air introduction with heat exchanger and cooling/heating operation.

Indoor unit with outdoor air treatment

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

Other features

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



SPECIFICATIONS

	MODEL			VKM50GAMV1*	VKM80GAMV1*	VKM100GAMV1*	VKM50GAV1	VKM80GAV1	VKM100GAV1
Refrigerant						R-4	10A		
Power Supply						1-phase, 220-	-240 V, 50 Hz		
R-frigerant R-410A Power Supply R-410A Power Supply 1-phase, 220-240 V, 50 Hz Airflow Rate & Static Airflow rate m³/h 500 750 950 500 750 High Airflow rate m³/h 500 750 950 500 750 950 High Airflow rate m³/h 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 750 950 500 620 70 120 70 70 70 70 </td <td>950</td>					950				
	Ultra-high	Static pressure	Pa	160	140	110	180	170	150
Airflow Bate & Static		Airflow rate m³/h 500 75 Static pressure Pa 160 14 Airflow rate m³/h 500 75 Static pressure Pa 120 90 Airflow rate m³/h 440 64 Static pressure Pa 100 70 Airflow rate m³/h 440 64 Static pressure Pa 100 70 Airflow rate m³/h 440 64 Static pressure Pa 100 70 Airflow rate m³/h 440 64 Low 420 47 Low 420 47 Low 37/37.5/38 38.5/3 Airflo dB(A) 35/35.5/36 36/37 Low 37/37.5/38 38.5/3 35/35.5/36 36/37 Low 32/33/34 33/34 3/3/4 3/3/4 Migh MB(A) 32/3/3/4 3/3/4 Migh M	750	950	500	750	950		
Pressure (Note 7)	High	Static pressure	Pa	120	90	70	150	750 170 750 120 640 80 620 560 470 620 560 470 620 560 470 0.280 × 2 0 40/41/41.5 40 37.5/38/39 36 34.5/36/37 35 78 78 79 66 66 68 71 71 73 73 73 78 79 66 68 66 68 71 71 73 73 387 4.5 5.0 387 1,764	100
		Airflow rate	m³/h	440	640	820	440	640	820
	Low	Static pressure	Pa	100	70				70
	11	-		560	620	670	560	620	670
			w	490	560	570	490	560	570
Power Consumption									670
			w	490	560	570	490	560	570
	mode							Hz 0 750 950 0 170 150 0 750 950 0 170 150 0 750 950 0 120 100 0 640 820 0 80 70 0 620 670 0 560 570 0 470 480 0 622 670 0 560 570 0 470 480 1×2 0.280×2 0.280× 5/39 40/41/41.5 40/40.5 5/37 37.5/38/39 38/38.5 5/35.5 34.5/36/37 35/36/37 5/37 37.5/38/39 38/38.5 5/35.5 34.5/36/37 35/36/37 5 79 76.5 4 66 62 7 68 66 7 71 65 <tr< td=""><td></td></tr<>	
Fan Type		Low		120					100
			kW	0.280 x 2	0.280 × 2			0.280 × 2	0.280 × 2
		Liltra-high	NVV						
			dB(A)						38/38.5/39
o									
Sound Level (Note 5) (220/230/240 V)									
```	Bypass		dB(A)						
	mode	-							
Humidification Consoit (A		LOW	ka/b				33.3/34.3/33.3		35/30/30.5
numication capacity (N			Kg/II				76		74
Temp. Exchange									
			%						
Enthalov Exchange									-
			%						
Enthalov Exchange							-		
			%						
	Low			69	73			73	69
						-			
					Air to Air Cros	ss Flow Total Heat (S	ensible + Latent H	eat) Exchange	
-					5			er	
Air Filter					1	Multidirectional	Fibrous Fleeces	1	
			kW						
Сараситу		te 3)						5.0	
	Height			387	387	387	387	387	387
Dimensions	Width		mm	1,764	1,764	1,764	1,764	1,764	1,764
Depth				832	1,214	1,214	832	1,214	1,214
Connection Duct Diamete	r		mm	¢200	<i>φ</i>	250	¢200	<i>\$</i> 2	250
Machine Weight		Net	ka	102	120	125	96	109	114
weight		Gross (Note 8)	ĸġ	107	129	134		_	
		Around Unit				0°C-40°CDB, 8	30%RH or less		
Unit Ambient Condition		OA (Note 9)				-15°C-40°CDB,	80%RH or less		
		RA (Note 9)				0°C-40°CDB, 8	30%RH or less		

Note: 1, Cooling and heating capacities are based on the following conditions. Fan is based on High and Ultra-high.

Ultra-high. When calculating the capacity as indoor units, use the following figures: VKM50GANV1/GV1: 3.5 kW, VKM80GANV1/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, 19°CWB, Outdoor temperature: 7°CDB, 6°CWB 4. Humidifying capacity is based on the following conditions: Indoor temperature: 20°CDB, 15°CWB, Outdoor temperature: 7°CDB, 6°CWB 5. The operating sound measured at the point 1.5 m below the centre of the unit is converted to that measured in an anechoic chamber built in accordance with the JIS C 1502 conditions. The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value. For operation in a quiet room, it is required to take measures to lower the sound. For details, refer to the Engineering Data.

 The noise level at the air discharge port is about 8–11 dB(A) or higher than the unit's operating sound.

sound. For operation in a quiet room, it is required to take measures to lower the sound. 7. Airflow rate can be changed over to Low mode or High mode. 8. In case of holding full water in humidifier. 9. OA: fresh air from outdoor. RA: return air from room. 10. Specifications, design and information here are subject to change without notice. 11. Power consumption and efficiency depend on the above value of airflow rate.

12. Temperature exchange efficiency is the mean value for Cooling and Heating. Efficiency is measured under the following condition: Ratio of rated external static pressure outdoor to indoor is kept constant at 7 to 1

In heating operation, freezing of the outdoor unit's coil increases. Heating capability decreases and the system goes into defrost operation. During defrost operation, the fans of the unit continues driving (factory setting). The purpose of this is to maintain the amount of ventilation and humidifying.

14. When connecting with a VRV system heat recovery outdoor unit and bringing the RA (exhaust gas

 When connecting with a VMP system heat recovery outdoor unit and onnging the H4 (exhaust gas initake) of this inuit directly in from the ceiling, connect to a BS unit identical to the VMV 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 at the the duct on 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 ressure the unit minist hack up. static pressure, the unit might back up.

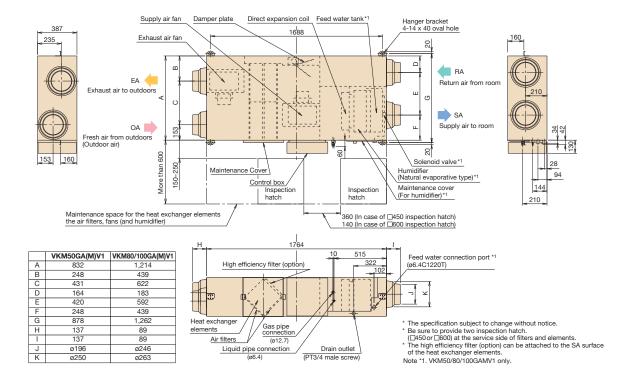
★ Feed clean water (city water, tap water or equivalent). Dirty water may clog the valve or cause dirt deposits in the water container, resulting in poor humidifier performance. (Never use any cooling tower water and heating-purpose water). Also, if the supply water is hard water, use a water softener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

* Life of humidifying element is about 3 years (4,000 hours) under the supply water conditions of hardness: 150 mg/l. (Life of humidifying element is about 1 year (1,500 hours) under the supply water conditions of hardness: 400 mg/l.)

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

# DIMENSIONS

## VKM50/80/100GA(M)V1



# **OPTIONS**

Ite	m			Туре						VKM	50/80/1	00GA(	M)V1					
	Re	emote o	contr	oller						BRC	C1E63/E	BRC1C6	52 *1					
			Reside	ential central remote controller							DCS30	3A51 *2						
		ntralised ntrolling	Centr	al remote controller							DCS30	2CA61						
	dev		Unifie	ed ON/OFF controller							DCS30	1BA61						
			Sche	edule timer		DST301BA61												
device	Wiring adaptor for electrical appendices					KRP2A61												
	Fan humidifan mundan ON simulaut			running ON signal output		KRP50-2												
ing	Iptor	For he	ater	control kit	BRP4A50A													
Controlling	Board Ada	For wi	ring	Type ( <b>VRV</b> indoor unit)	FXFSQ-A FXFQ-A	FXZQ-M	FXCQ-M	FXKQ-MA	FXDQ-PD FXDQ-ND	FXSQ-PA	FXMQ-PA	FXMQ-M	FXUQ-A	FXHQ-MA		FXLQ-MA FXNQ-MA	FXVQ-N	FXBQ-P FXBPQ-P
	N N				KRP1C11A★	KRP1BA57★	KRP1B61★	KRP1B61	KRP1B56★	KRP1C64★	KRP1C64★	KRP1B61	KRP1C67	KRP1BA54	—	KRP1B61	KRP1C67	KRP1B61
	Installation box for adaptor PCB			Note 4, 5 KRP1BA101				Note 2, 3 KRP4A98		_	—	Note 3 KRP1CA93	Note 2, 3 KRP4AA93	—	—	—		

Note: 1. Installation box ★ is necessary for each adaptor marked ★. 2. Up to 2 adaptors can be fixed for each installation box.

3. 4. 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 with other air conditioners, use the remote controllers of the air conditioners. *2 For residential use only. When connected with a Heat Reclaim Ventilator (VKM), you can only switch the power ON/OFF, it cannot be used with other central control equipment.

5. Installation box x is necessary for second adaptor.

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

# Heat Reclaim Ventilator - VAM series

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

#### Model Names

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

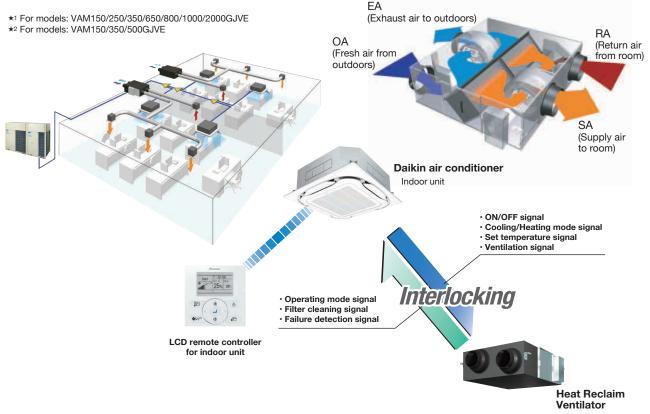
Improved Enthalpy Efficiency^{*1} Higher External Static Pressure^{*2} Enhanced Energy Saving Functions





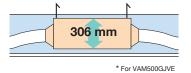
Heat Reclaim Ventilator remote controller* BRC301B61 (Option) * This remote controller is used in case of independent operation of Heat Reclaim Ventilator.

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 environment.



#### **Compact Equipment**

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

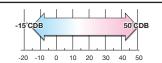


**Energy Conservation** 

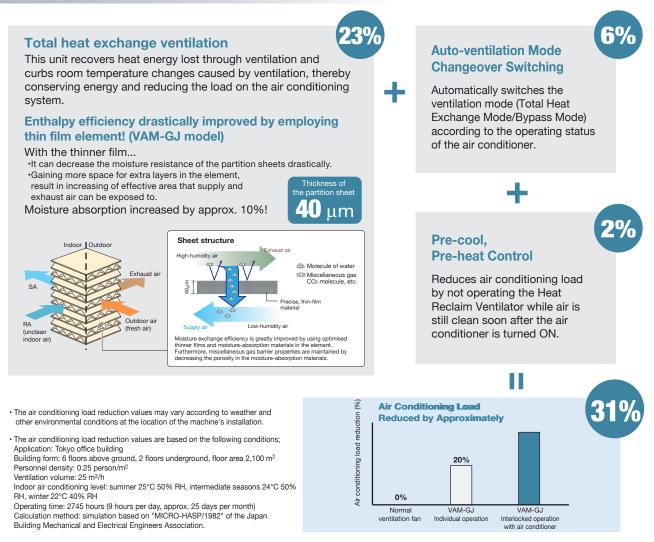
Air conditioning load reduced by approximately 31%!

#### **Cold Climate Compatible**

Standard operation at temperatures down to -15°C.



# Air conditioning load reduced by approximately 31%!



### 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.

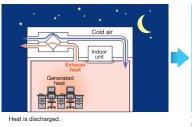
•Nighttime free cooling operation only works to cool and if connected to Building Multi or *VRV* systems. •Nighttime free cooling operation is set to "off" in the factory settings,

so if there is a need to turn on, please contact Daikin dealer.

*1 This function can be operated only when interlocked with air conditioners. *2 Value is based on the following conditions:

*2 Value is based on the following conditions: • Cooling operation performed from April to October.

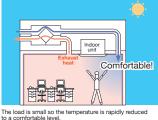
 Calculated for air conditioning sensible heat load only (latent heat load not included). The indoor accumulated heat is discharged at night. This reduces the air conditioning load the next day thereby increasing efficiency.





Air conditioning sensible

heat load reduced by

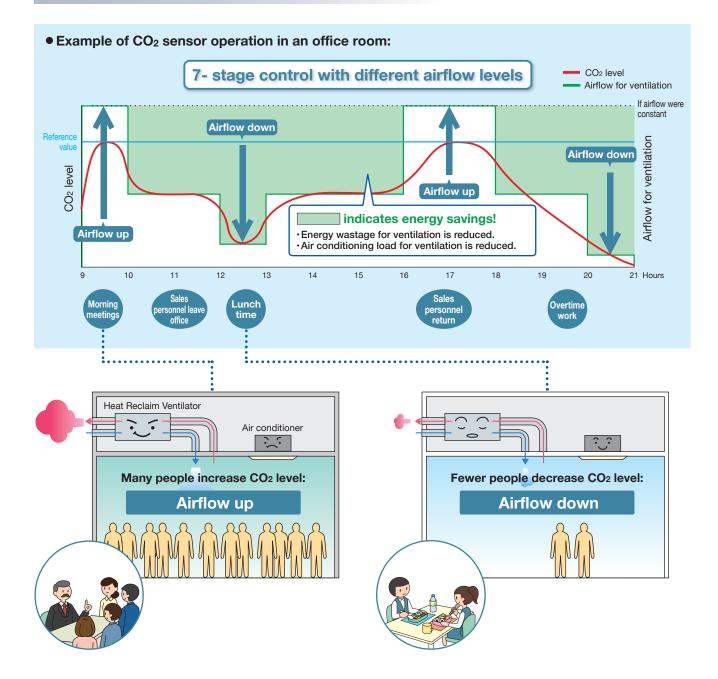


a comfortable level.
 *Interlocked operation with an air conditioner

# **Heat Reclaim Ventilator – VAM series**

# **CO₂ Sensor Optional Kit Connection**

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



# **SPECIFICATIONS**

	MOD	EL			VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE			
Power	Supply							1-phase, 22	20-240 V/ 220	V, 50/60 Hz						
Tomp	Exchange		Ultra-High		79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77			
	0		High	%	79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77			
Power Supp Temp. Exch Efficiency (50/60 Hz) Enthalpy Exchange Efficiency (50/60 Hz) Power Consumption (50/60 Hz) Sound Level (50/60 Hz) Casing Insulation M Dimensions Machine Wa Heat Excha Air Filter Fan Exter Press (50/6) Moto	Hz)		Low	1	84/85	79/79	82/82	80/80.5	77/77.5	74/74.5	80.5/81	75.5/76	79/81			
			Ultra-High		66/66	63/63	66/66	55/55	61/61	61/61	64/64	61/61	62/62			
		ling	High	%	66/66	63/63	66/66	55/55	61/61	61/61	64/64	61/61	62/62			
			Low	1	70/70.5	66/66	70/70	59/59.5	64/64.5	64/64.5	68.5/69	64/64.5	66/67			
	Heat		Ultra-High		125/134	137/141	200/226	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542			
	Exchar	ge	High	w	111/117	120/125	182/211	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315			
	Mode		Low	1	57/58	60/59	122/120	128/136	196/207	435/483	476/512	835/927	966/1,039			
			Ultra-High		125/134	137/141	200/226	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542			
	Bypas Mode	s	High	w	111/117	120/125	182/211	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315			
Low				1	57/58	60/59	122/120	128/136	196/207	435/483	476/512	835/927	966/1,039			
Heat Ultra-High					27-28.5/28.5	27-29/29	31.5-33/33	33-35.5/34	34-36/36	39-40.5/39.5	39.5-41.5/39.5	39.5-41.5/41.5	41.5-43.5/42			
	Exchar	ge	High	dB(A)	26-27.5/27.5	26-27.5/28	30-31.5/30	31.5-34/32	33-34.5/34	37-39.5/37.5	37.5-39.5/37.5	37.5-39.5/39.5	39-43/40			
Sound Level (50/60 Hz)	Level Mode		Low	1	20.5-21.5/21	21-22/21	23-25/23	25-28.5/24	27.5-29.5/28	35-37.5/34	35-37.5/34.5	35-37.5/36	36-39/39			
	Hz)		Ultra-High		28.5-29.5/29.5	28.5-30.5/30.5	33-34.5/34.5	34.5-36/35.5	35-37.5/37.5	40.5-42/41	40.5-42.5/40.5	41-43/42.5	43-45.5/44			
	Bypas Mode	s	High	dB(A)	27.5-28.5/28.5	27.5-29/29.5	31.5-33/31.5	33-34.5/33.5	33-35.5/35.5	38.5-40/39	38.5-40.5/38.5	39.5-41/41.5	40.5-45/42			
	INIOUE		Low	1	22.5-23.5/22	22.5-23/22.5	24.5-26.5/24.5	25.5-28.5/25.5	27.5-30.5/29.5	36-38.5/35.5	36-38.5/35.5	36.5-38/37.5	37.5-39.5/41			
Casing	J							Gal	vanised steel p	late						
Insulat	ion Material					Self-extinguishable polyurethane foam										
Dimen	sions (HXWX	D)		mm	278×8	10×551	306×87	79×800	338×973×832	387x1,111x832	387x1,111x1,214	785x1,619x832	785x1,619x1,214			
Machir	ne Weight			kg	2	4	3	2	45	55	67	129	157			
Heat E	xchange Sys	tem					Air to air cro	ss flow total h	eat (Sensible h	eat + latent he	at) exchange					
Heat E	xchange Ele	men	t Mate	rial				Specially pro	cessed nonflar	nmable paper						
Air Filte	er							Multidire	ectional fibrous	s fleeces						
•	Туре								Sirocco fan							
F			Ultra-High		150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000			
	Airflow Rate (50/60 Hz)		High	m³/h	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000			
	(00/00112)		Low	1	100/95	155/155	230/230	320/295	500/470	700/670	860/840	1,320/1,260	1,720/1,580			
	External Stat	ic	Ultra-High		120/154	70/96	169/222	105/150	85/125	133/170	168/192	112/150	116/140			
	Pressure		High	Ра	106/131	54/65	141/145	66/52	53/67	92/85	110/86	73/72	58/32			
(	(50/60 Hz)		Low	1	56/60	24/20	67/30	32/18	35/38	72/61	85/60	56/50	45/45			
Ī	Motor Outpu	t		kW	0.03	0X2	0.09	0X2	0.140×2	0.28	0X2	0.28	80×4			
Conne	ction Duct D	ame	eter	mm	¢100	φ.	150	φ.	200	φ2	250	$\phi$	350			
Unit ambient condition -15°C–50°CDB, 80%RH or less																

Note : 1. Sound level is measured at 1.5m below the centre of the body.

Airflow rate can be changed over to Low mode or High mode
 Sound level is measured in an anechoic chamber.

Sound level generally becomes greater than this value depending on the operating conditions, reflected sound, and peripheral noise.

4. The sound level at the air discharge port is about 8 dB(A) higher than the unit's sound level.

5. The specifications, designs and information given here are subject to change without notice.6. Temperature Exchange Efficiency is the mean value between cooling and heating.

7. Efficiency is measured under the following conditions: Ratio of rated external static pressure has been maintained as follows; outdoor

side to indoor side = 7 to 1. 8. In conformance with JIS standards (JIS B 8628), operating sound level is based on the

value when one unit is operated, with the value converted for an anechoic chamber This is transmission sound from the main unit, and does not include sound from the discharge grille. Thus it is normal for the sound to be louder than the

indicated value when the unit is actually installed.
9. Sound level from the discharge port causes the value to be approximately 8 dB(A) (models with the airflow rate of less than 150 to 500m³/h) to approximately 11 dB(A) (models with the airflow rate of 650m³/h or more) greater than the indicated value. Furthermore, fan rotation and noise from the discharge grille may increase depending on the on-site duct resistance conditions. Please consider noise countermeasures when installing the unit.

10. With large models in particular (1500 and 2000m³/h models), if the supply air (SA) grille is installed near the main unit, the noise of the main unit may be heard from the discharge grille via the duct, and this will result in a marked increase in noise. In such cases, if peripheral effects are included (such as reverberation of the floor and walls, combination with other equipment, and background noise), sound level may be as much as 15 dB(A) higher than the indicated value. When installing a large model, please provide as much separation as possible between the main unit and the discharge grille. If the equipment and discharge grille are near each other, please consider countermeasures such as the following:
Use a sound-muffling box, flexible duct and sound-muffling air supply/discharge

grilles • Decentralised installation of discharge grilles

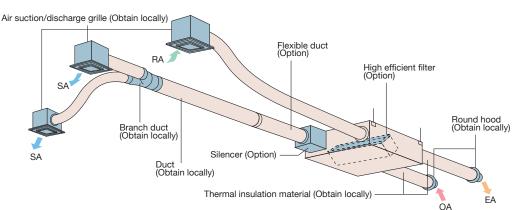
11. When installing in a location with particularly low background noise such as a classroom, please consider the following measures to avoid transmission sound from the main unit:

 Use of ceiling materials with high sound insulating properties (high transmission loss)

Methods of blocking sound transmission, for example, by adding sound insulating materials around the bottom of the sound source.

Alternatively, consider supplementary methods such as installing the equipment in a different location (corridor, etc.)

# **OPTIONS**



### **Option List**

Ite	m			Туре			V	AM150	· 250 · 3	350 · 50	0 · 650	· 800 ·	<b>1000 ·</b> 1	1500 · 2	000GJ	/E		
	He	at Reclai	m Ver	tilator remote controller							BRC3	01B61						
		duelle e d	Reside	ntial central remote controller		DCS303A51 *1												
		tralised trolling	Centr	al remote controller							DCS30	2CA61						
	dev		Unifie	d ON/OFF controller							DCS30	1BA61						
Ð			Sche	edule timer		DST301BA61												
device		Wiring appen		otor for electrical		KRP2A61												
-	tor	For humidifier Installation box for adaptor PC				KRP50-2												
Ë	lap	Installa	ation	box for adaptor PCB		KRP50-2A90 (Mounted electric component assy of Heat Reclaim Ventilator)												
tr	A	For he	ater of	control kit		BRP4A50												
Controlling	PC Board	For wi		Type ( <b>VRV</b> indoor unit)	FXFSQ-A FXFQ-A	FXZQ-M	FXCQ-M	FXKQ-MA	FXDQ-PD FXDQ-ND		FXMQ-PA	FXMQ-M	FXUQ-A	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXVQ-N	FXBQ-P FXBPQ-P
					KRP1C11A*	KRP1BA57★	KRP1B61★	KRP1B61	KRP1B56★	KRP1C64★	KRP1C64★	KRP1B61	KRP1C67	KRP1BA54	—	KRP1B61	KRP1C67	KRP1B61
	Installation box for adaptor PCE					Note 4, 5 KRP1BA101		_		Note 2, 3 KRP4A98		_	_	Note 3 KRP1CA93	Note 2, 3 KRP4AA93	_	-	_

 Up to 2 adaptors can be fixed for each installation box. 3. Only one installation box can be installed for each indoor unit.

*1 For residential use only. When connect with a Heat Reclaim Ventilator (VAM), you can only switch the power ON/OFF. It cannot be used with other central control equipment.

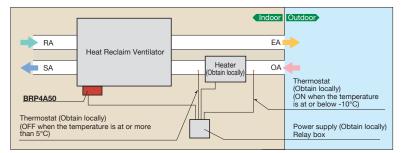
4. Up to 2 installation boxes can be installed for each indoor unit.

Type VAM150GJVE VAM250GJVE VAM350GJVE VAM500GJVE VAM650GJVE VAM800GJVE VAM1000GJVE VAM1500GJVE VAM2000GJVE Item Additional function Silencer KDDM24B50 KDDM24B100 KDDM24B100X2 φ²⁰⁰ 250 Nominal pipe diameter mm KAF242H65M KAF242H80M KAF242H100M KAF242H80MX2 KAF242H100MX2 KAF242H25M KAF242H50M High efficiency filter KAF241H25M KAF241H50M KAF241H65M KAF241H80M KAF241H100M KAF241H80MX2 KAF241H100MX2 Air filter for replacement K-FDS101D K-FDS151D K-FDS201D K-FDS251D Flexible duct (1 m) K-FDS102D K-FDS152D K-FDS202D K-FDS252D Flexible duct (2 m) YDFA25A1 Duct adaptor <u>¢</u>250 Nominal pipe diameter mm CO₂ sensor BRYMA65 BRYMA100 BRYMA65 BRYMA100 PM2.5 filtration unit' BAF249A150 BAF249A300 BAF249A350 BAF249A500 BAF429A20A PM2.5 with activated carbon filtration unit* BAF249A150C BAF249A300C BAF249A350C BAF249A500C BAF429A20AC

*Refer to page 166-168 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.



#### Notes when installing

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

# 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**

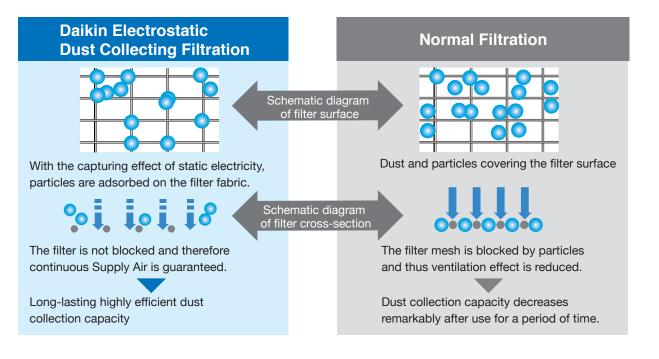
- PM2.5 filters are double-layered.
- 1. The front filter effectively removes large particles.
- 2. The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently.



## 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.

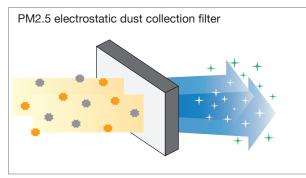
The filter is difficult to be blocked by particles and has good ventilation and long life span.



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

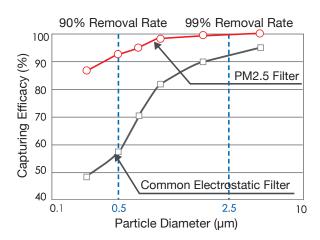
# Filtering PM2.5 efficiently for healthier and more comfortable environments

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



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





# Extra-High Performance Filter Against Sulfur Oxides and Nitrogen Oxides

### Effective Use of Active Carbon Material to Enlarge the Adsorption Area

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

Note: Surface area of active carbon: 700 m²/g Given a newspaper page of 40.6 cm wide by 54.6 cm long, each gram of active carbon has a surface area of 3,000 newspaper pages.

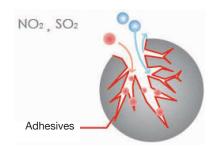
### Intelligent Identification, Super-effective Adhesion

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

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



### Unidentified Gases



# PM2.5 Filtration Unit

	Models		BAF249A150	BAF249A300	BAF249A350	BAF249A500	BAF429A20A
Dimensions (H $\times$ W $\times$ D)		mm	220×603×366	220×603×366	300×623×366	300×623×366	470×971×370
Connection Du	uct Diameter	mm	¢100	¢ 150	¢ 150	¢200	580×348
Airflow Rate		m³/h	150	250	350	500	2,100
	Initial Pressure Drop	Ра	34	30	31	42	less than 40
	Filter Lifetime ¹				1 year		
PIVI2.5 Filter	PM2.5 Filter Filtration Efficiency ²				99% or higher		
	Filter Material No. 3		BAF24	4A300	BAF24	4A500	BAF424A20A

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

2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 µm or more; 90% or higher removal rate of ultra-fine particles with diameters of 0.5 µm.

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

# **PM2.5 with Activated Carbon Filtration Unit**

	Models		BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C	BAF429A20AC			
Dimensions (H	$\times$ W $\times$ D)	mm	220×603×366	220×603×366	300×623×366	300×623×366	470×971×370			
Connection Duct Diameter		mm	¢ 100	¢150	¢ 150	¢200	580×348			
Airflow Rate		m³/h	150	250	350	500	2,100			
	Initial Pressure Drop	Pa	34	30	31	42	less than 40			
	PM2.5 Filter			1 year						
Pivi2.5 Filler	Filtration Efficiency ²				99% or higher					
	Filter Material No. 3		BAF24	4A300	BAF24	4A500	BAF424A20A			
	Initial Pressure Drop	Pa	3 5		5	9	less than 10			
Activated Carbon Filter	Filter Lifetime				1 year					
Carbon niter	Filter Material No. 3		BAF244	1A300C	BAF244	4A500C	BAF424A20AC			
	Total Initial Pressure Drop for PM2.5 with Activated Carbon Filtration Unit		37	35	36	51	less than 50			

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

2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more; 90% or higher removal rate of ultra-fine particles with diameters of 0.5 μm.

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

# **Control Systems**

# Individual Control Systems for VRV Systems

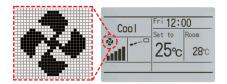
### Navigation Remote Controller (Wired remote controller) (Option)



This simple, modern designed remote controller with fresh white colour matches your interior design. Operation is much easier and smoother, just follow the indications on the navigation remote controller.

### **Clear display**

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



- Backlight display
- Backlight display helps operating in dark rooms.



### Simple operation

#### •Large buttons and arrow keys

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

#### Guide on display

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



### **Energy saving**

#### Setpoint range set

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



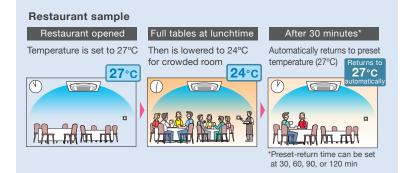
#### •Off timer

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

#### Setpoint auto reset

- Even if the set temperature is changed, 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**

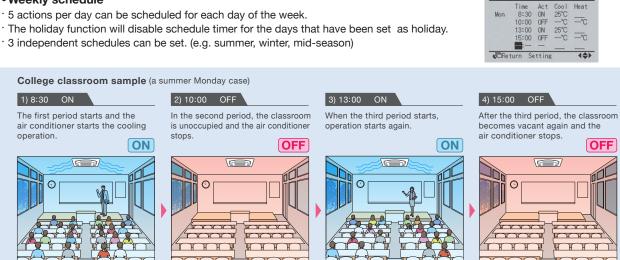
#### •Setback (default: OFF)

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

Ex) Setback temperature Cooling :  $35^{\circ}$ C Recovery differential Cooling :  $-2^{\circ}$ C When the room temperature goes above  $35^{\circ}$ 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.



Setback

temperature

33 — 37°C

Schedule nr 1

Time 8:30 10:00

13:00

Cooling

Recovery

differential

-2 — -8°C

Heat

--•C

Cool 25℃ —℃

#### 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).

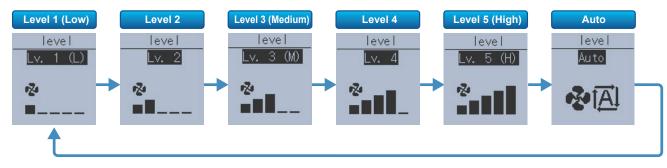
*1. Only available for FXF(S)Q-A and FXUQ-A series.

### •5-step airflow control (*2)

Control of airflow rate can be selected from 5-step control, which provides comfortable airflow. *2 . The number of airflow steps differs according to the type of indoor unit. 5-step airflow is only available for FXF(S)Q-A 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 FXF(S)Q-A, FXDQ-PD/ND, FXSQ-PA, FXMQ-PA and FXUQ-A series.



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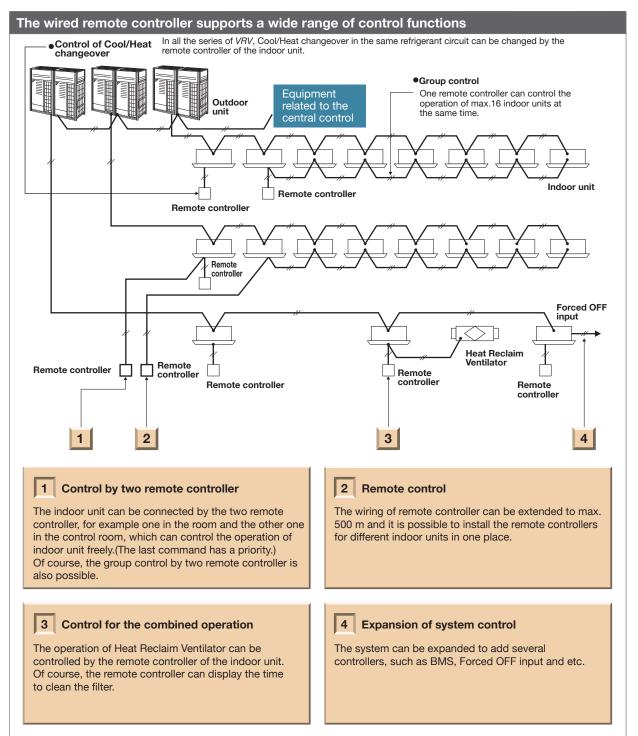
# **Control Systems**

# Individual Control Systems for VRV Systems



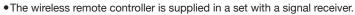
• Displays current airflow, swing, temperature, operating mode and timer settings.

* Individual airflow direction, auto airflow rate and sensing sensor control can be set only via wired remote controller BRC1E63. Cannot be set via other remote controllers.



### Wireless remote controller (Option)





Signal receiver unit of installed type is contained inside decoration panel or indoor unit.
Shape of signal receiver unit differs according to the indoor unit.

Note: The signal receiver unit shown in the photograph is for mounting inside the decoration panel of FXF(S)Q series.

Backlight LCD of new wireless remote controller



Pressing the backlight button helps operating in dark rooms.



- •A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.
- * Wireless remote controller and signal receiver unit are sold as a set. * Refer to page 193 for the name of each model.

### Simplified remote controller (Option)





(For hotel use) (BRC3A61)

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



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

### Wide variation of remote controllers for VRV indoor units

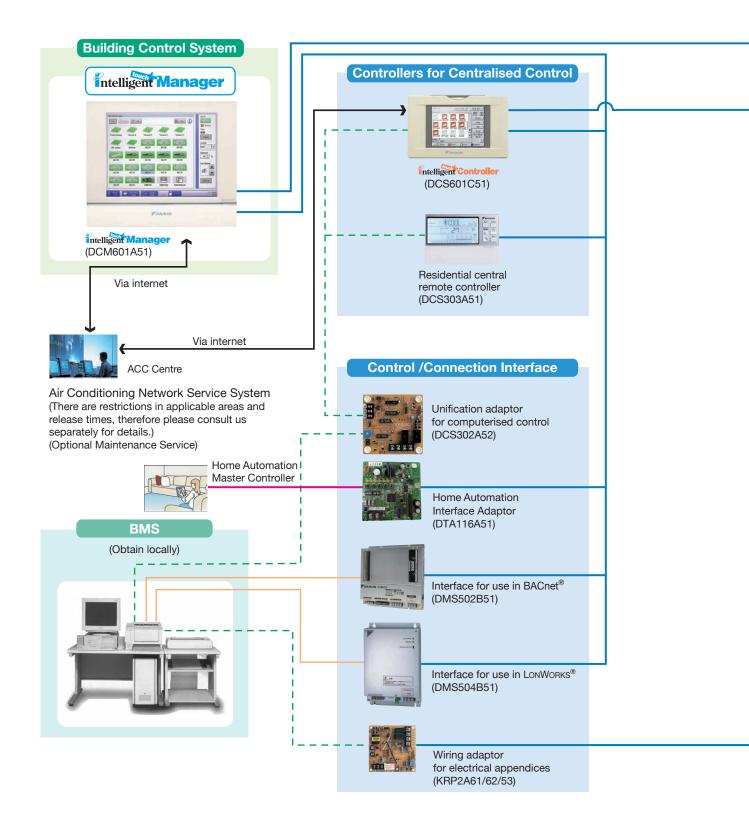
		FXF(S)Q	FXZQ	FXCQ	FXKQ	FXDQ	FXSQ	FXMQ	FXUQ	FXHQ	FXAQ	FXL(N)Q	FXVQ	FXB(P)Q
Navigation remote controller (Wired remote controller)	er (BRC1E63)													
Wired remote controller	(BRC1C62)													
Wireless remote controller ⁴ (Installed type signal receiver unit														
Wireless remote controller' (Separate type signal receiver uni														
Simplified remote controller (Exposed type)	(BRC2C51)													
Simplified remote controller (Concealed type: for Hotel use)	(BRC3A61)													

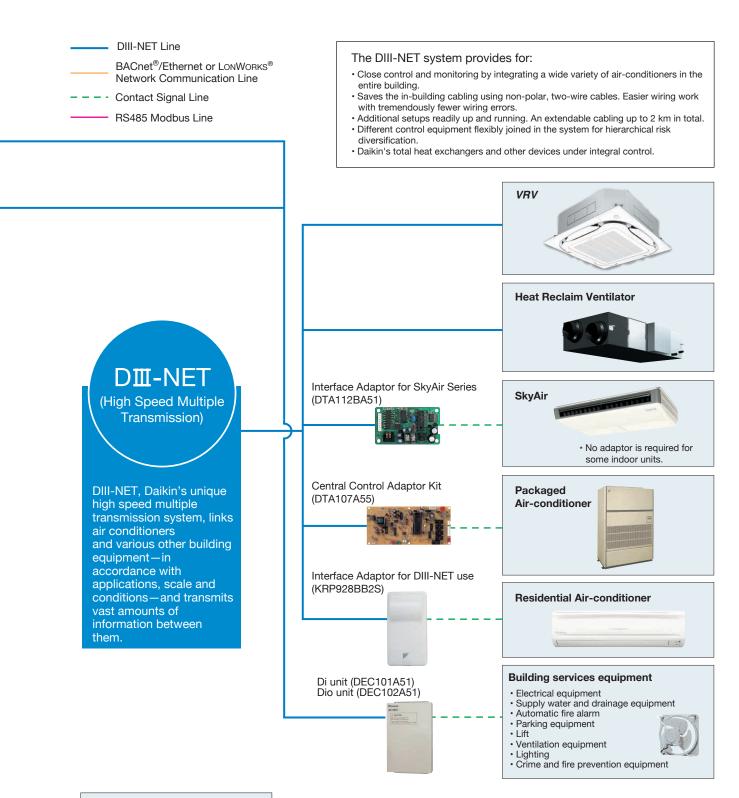
*Refer to page 193 for the name of each model.

# **Control Systems**

# I Integrated Building Monitoring System

The high speed transmission of DIII-NET enables more advanced control of the *VRV* system, providing you with enhanced comfort.







### Caution:

Limitation may apply to some models and functions. Please contact your local sales office for details. Consultation is necessary before employing this control system. Please contact your local sales office before making a purchase.

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

# **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.



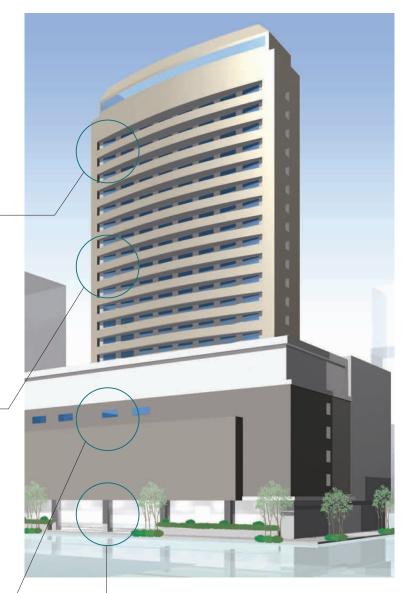


## Air-conditioning control for large spaces

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 controlled.



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## For Energy Saving & Comfort

### intelligent Touch Manager maximises the advantages of VRV features

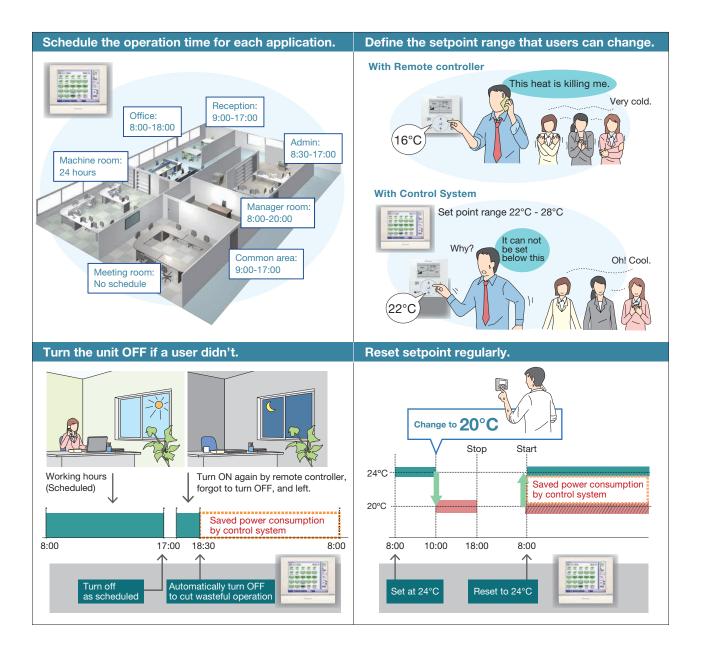
*intelligent Touch Manager* is an advanced multi-zone controller that provides the most cost-effective way to control and monitor the Daikin **VRV** system.

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.



# **Control Systems**

# **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.

DALI BUS

LAN

Sensor

(occupancy /

illuminance)

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

**VRV** System

LED light

#### 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

[Overview of control]

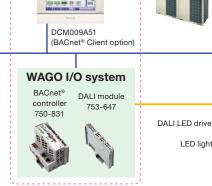
single BACnet® controller.

- DALI occupancy sensor monitoring
- DALI illuminance sensor monitoring

• Up to 5 DALI modules can be connected to a

• Up to 64 DALI LED drivers (64 addresses) can

be connected to a single DALI module.



Intelligent 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.



Optimal illuminance reduces energy

### Case2

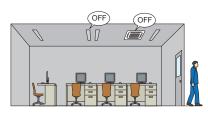
Occupancy sensors are used to eliminate both wasteful lighting and air conditioning.

 64 DALI addresses can be freely assigned to up to 16 groups using a single DALI module.

of the intelligent Touch Manager.)

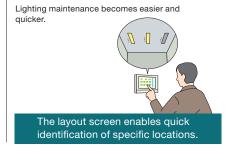
(Each group corresponds to a management point

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.



## 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.

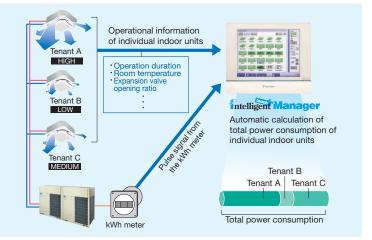
Operational information of individual indoor units are monitored, based on distribution of power consumption of outdoor units.

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.

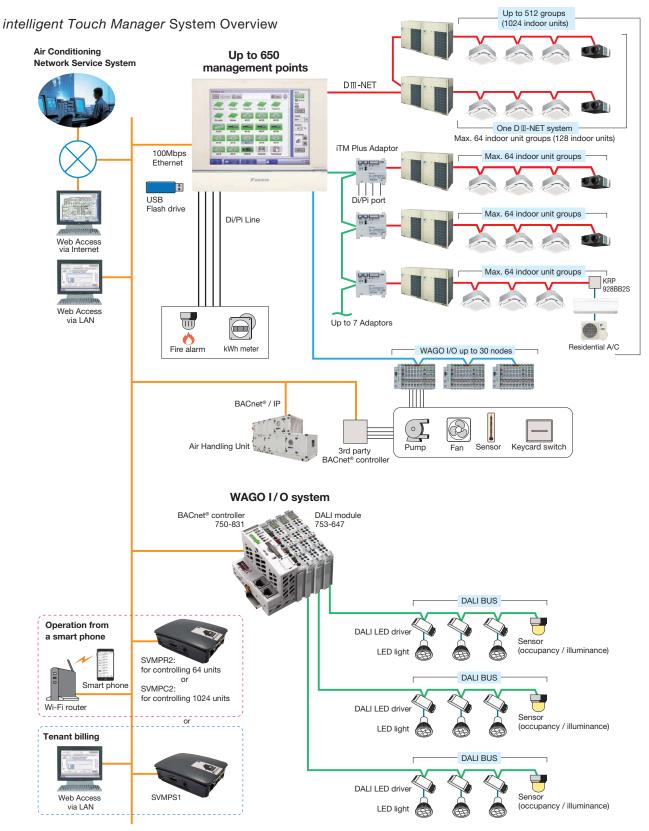


**Control Systems** 

# **Control Systems**

**Advanced Control Systems for VRV Systems** 

## System structure



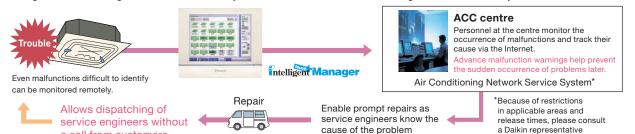
#### **Air Conditioning Network Service System**

#### **Preventive Maintenance**

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

#### Enhanced convenience with link to the Air Conditioning Network Service System

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



**Daikin Offers a Variety of Control Systems** 

a call from customers.

#### Convenient controllers that offer more freedom to administrators

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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.

beforehand.

# 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.

DMS502B51 (Interface for use in BACnet[®])

- 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.

DMS504B51

separately for details.

LONWORKS[®]

integration of

and LONWORKS®

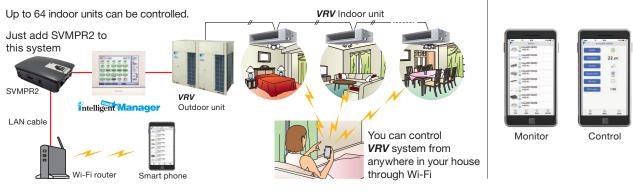
VRV system

(Interface for use in LONWORKS®)

Facilitating the network

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

#### For house VRV Smart Phone Control System



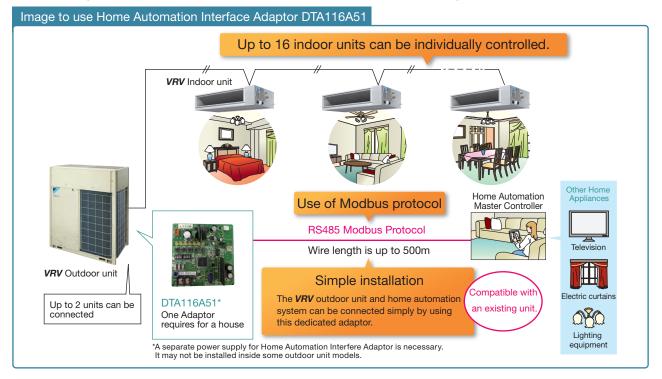
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# **Control Systems**

# **Advanced Control Systems for VRV Systems**

#### Home Automation Interface Adaptor

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



#### Functions

#### nit

<ul> <li>Monitor</li> </ul>		<ul> <li>Control</li> </ul>	
On/Off	On/Off status of indoor units	On/Off	On/Off control of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)	Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Setpoint of indoor units	Setpoint	Cooling/Heating setpoint
Room temperature	Suction temperature of indoor units	Fan direction	Swing, Stop, Flap direction (depend on indoor unit capability)
Fan direction	Swing, Flap direction (depend on indoor unit capability)	Fan volume	L, M, H (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)	Filter sign reset	Reset filter sign of indoor units
Forced off status	Forced off status of indoor units	Retrieve system i	nformation
Error	Malfunction, Warning with Error code		
Filter sign	Filter sign of indoor units	Connected indoor units	DⅢ-NET address of connected indoor units can be retrieved.
0	Communication normal/error of indoor units	Indoor unit capabilities	Indoor unit capabilities such as operation mode, fan control, setpoint HV can be retrieved.

### **VRV** Smart Phone Control System

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



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

#### VRV Tablet Controller : SVMPC1

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

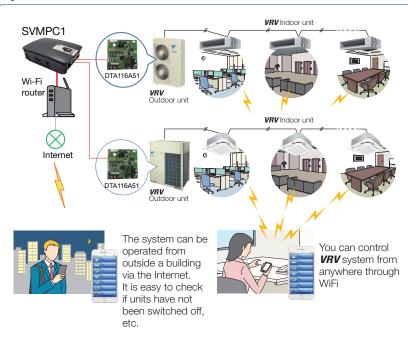
#### Simple and easy Smart Control

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



- SVMPC1 allows operation of *VRV* system from anywhere(inside and outside of a premise) 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 to 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

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

# **VRV** X series

No.	Item	Туре	RXUQ6AYM RXUQ8AYM RXUQ10AYM	RXUQ12AYM RXUQ14AYM RXUQ16AYM RXUQ18AYM RXUQ20AYM	RXUQ12AMYM RXUQ14AMYM RXUQ16AMYM RXUQ18AMYM RXUQ20AMYM	RXUQ18AM1YM RXUQ20AM1YM RXUQ22AMYM
1	Distributive	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)		
	piping	REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T		:6A72T
2	Outdoor unit multi connection piping kit		-	- BHFP22P100		2P100

No	Item	Туре	RXUQ24AMYM RXUQ26AMYM RXUQ28AMYM RXUQ30AMYM RXUQ32AMYM	RXUQ34AMYM RXUQ36AMYM RXUQ38AMYM RXUQ40AMYM	RXUQ42AMYM RXUQ44AMYM RXUQ46AMYM RXUQ48AMYM RXUQ50AMYM	RXUQ52AMYM RXUQ54AMYM RXUQ56AMYM RXUQ58AMYM RXUQ50AMYM
1	Distributive	REFNET header			KHRP26M72H, KHRP26M73 (Max. 8 branch) (Max. 8 branch	
	REFNET joint KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T				KHRP26A72T, KHRP26A73T	
2	Pipe size rec	ducer	KHRP26M73TP, KHRP26M73HP			
3	Outdoor unit	t multi connection piping kit	BHFP22P100 BHFP22P151			

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



#### **Option PCB**

No.	Type	RXUQ6AYM RXUQ8AYM	RXUQ10AYM RXUQ12AYM RXUQ14AYM RXUQ16AYM RXUQ18AYM RXUQ18AYM RXUQ20AYM	RXUQ12AMYM RXUQ14AMYM RXUQ16AMYM	RXUQ18AM1YM RXUQ20AM1YM RXUQ18AMYM RXUQ20AMYM	
1	DIII-NET expander adaptor ★		DTA10	09A51		
2	External control adaptor *	DTA109A61				
3	Home Automation Interface Adaptor $\star$	DTA116A51				
4	Option plate for control adaptor	- BKS26A *1 -			-	

No.	Type	RXUQ22AMYM RXUQ24AMYM RXUQ26AMYM RXUQ28AMYM RXUQ28AMYM	RXUQ32AMYM RXUQ34AMYM RXUQ36AMYM RXUQ38AMYM RXUQ38AMYM RXUQ40AMYM	RXUQ42AMYM RXUQ44AMYM RXUQ46AMYM RXUQ48AMYM RXUQ50AMYM	RXUQ52AMYM RXUQ54AMYM RXUQ56AMYM RXUQ58AMYM RXUQ58AMYM RXUQ60AMYM	
1	DIII-NET expander adaptor $\star$		DTA10	)9A51		
2	External control adaptor *		DTA10	)9A61		
3	Home Automation Interface Adaptor $\star$	DTA116A51				
4	Option plate for control adaptor	BKS26A *1				

Note: 1. This plate is necessary for each adaptor marked  $\star$ .

# **VRV** A series

No.	Item	Туре	RXQ6AYM RXQ8AYM RXQ10AYM	RXQ12AYM RXQ14AYM RXQ16AYM	RXQ18AYM RXQ20AYM	RXQ18AMYM RXQ20AMYM RXQ22AMYM
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)		
	piping	REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T		26A72T
2	Outdoor unit	multi connection piping kit		- BHFP22P100		

No.	Item	Туре	RXQ24AMYM RXQ26AMYM RXQ28AMYM RXQ30AMYM RXQ32AMYM	RXQ34AMYM RXQ36AMYM RXQ38AMYM RXQ40AMYM	RXQ42AMYM RXQ44AMYM RXQ46AMYM RXQ48AMYM RXQ50AMYM	RXQ52AMYM RXQ54AMYM RXQ56AMYM RXQ58AMYM RXQ60AMYM		
1	Distributive	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 red	ucer	KHRP26M73TP, KHRP26M73HP					
3	Outdoor unit	multi connection piping kit	BHFP22P100 BHFP22P151					

#### **Option PCB**

No.	Type	RXQ6AYM RXQ8AYM RXQ10AYM RXQ12AYM	RXQ14AYM RXQ16AYM RXQ18AYM RXQ20AYM	RXQ18AMYM RXQ20AMYM RXQ22AMYM RXQ24AMYM	RXQ26AMYM RXQ28AMYM RXQ30AMYM		
1	DIII-NET expander adaptor ★		DTA10	09A51			
2	External control adaptor *		DTA109A61				
3	Home Automation Interface Adaptor $\star$	DTA116A51					
4	Option plate for control adaptor	-	BKS26A *1	-			

No.	Type	RXQ32AMYM RXQ34AMYM RXQ36AMYM RXQ38AMYM RXQ40AMYM	RXQ42AMYM RXQ44AMYM	RXQ46AMYM RXQ48AMYM RXQ50AMYM RXQ52AMYM	RXQ54AMYM RXQ56AMYM RXQ58AMYM RXQ60AMYM	
1	DIII-NET expander adaptor ★		DTA10	)9A51		
2	External control adaptor 🛧	DTA109A61				
3	Home Automation Interface Adaptor $\star$	DTA116A51				
4	Option plate for control adaptor	BKS26A *1	- BKS26A *1			

Note: 1. This plate is necessary for each adaptor marked  $\star$ .

# Outdoor Units

# VRV IV S SERIES

No.	Item Type	RXMQ4AVE	RXMQ5AVE	RXMQ6AVE	RXMQ8AY1	RXMQ9AY1
1	Fixing box	KJB111A			_	
2	REFNET header		KH	RP26M22H (Max. 4 brai	nch)	
2	nei nei neader	KHRP26M33H (Max. 8 branch)				
3	REFNET joint		KHRP26A22T		KHRP26A22T	KHRP26A33T
4	Central drain plug	KKPJ5G280 KKPJ5F180		KKPJ5G280		
5	Fixture for preventing overturning	KKTP5B112 KPT-60B160		KPT-60B160	KKTP5B112	
6	Wire fixture for preventing overturning	_			K-KYZP15C	

# **VRV** IV Q SERIES Standard Type

No.	Item	Туре	RQQ6TYM(E) RQQ8TYM(E) RQQ10TYM(E)	RQQ12TYM(E)	RQQ14TYM(E) RQQ16TYM(E)
1	Distributive piping	REFNET header	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)		16M33H, KHRP26M72H branch) (Max. 8 branch)
		REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP2	26A33T, KHRP26A72T

No.	Item	Туре	RQQ18TNYM(E) RQQ20TNYM(E)	RQQ22TNYM(E)	RQQ24TNYM(E) RQQ26TNYM(E)	RQQ28TNYM(E) RQQ30TNYM(E) RQQ32TNYM(E)	
1	Distributive piping	REFNET header	(Max. 4 branch) ( KHRP2	KHRP26M22H, KHRP26M33H (Max. 4 branch), (Max. 8 branch), KHRP26M72H (Max. 8 branch)		KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch)	
		REFNET joint	KHRP26A22T, KHRP2	6A33T, KHRP26A72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T		
2	Pipe size reducer		– KHRP26M73TP,		KHPR26M73HP		
3	Outdoor unit mul	ti connection piping kit		BHFP2	22P100		

No.	Item	Туре	RQQ34TNYM(E) RQQ36TNYM(E)	RQQ38TNYM(E) RQQ40TNYM(E)	RQQ42TNYM(E) RQQ44TNYM(E)	RQQ46TNYM(E) RQQ48TNYM(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 reducer		KHRP26M73TP, KHPR26M73HP				
3	Outdoor unit mul	ti connection piping kit		BHFP2	2P151		

# **VRV** IV Q SERIES Space Saving Type

No.	Type		RQQ18TYM(E) RQQ20TYM(E)
1	Distributive	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)
	piping	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T

No.	Item	Туре	RQQ30TSYM(E) RQQ32TSYM(E) RQQ34TSYM(E)	RQQ36TSYM(E) RQQ38TSYM(E) RQQ40TSYM(E)	RQQ42TSYM(E) RQQ44TSYM(E)	RQQ46TSYM(E) RQQ48TSYM(E)	
1	1 Distributive 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 reducer		KHRP26M73TP, KHRP26M73HP				
3	Outdoor unit conne	ection piping kit	BHFP2	22P100	BHFP2	2P151	

# **VRV** IV W series

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

#### **VRV** IV HEAT RECOVERY HOT WATER SYSTEM High-COP Type

No.	Item	Туре	RWHQ12THYM RWHQ14THYM RWHQ16THYM				
1				RP26M22H, KHRP26M33H, KHRP26M x. 4 branch) (Max. 8 branch) (Max. 8 bra			
	piping	REFNET joint	KF	IRP26A22T, KHRP26A33T, KHRP26A7	A33T, KHRP26A72T		
2	Outdoor unit multi	connection piping kit		BHFP22P100			
3	Hot water controlle	er box		BRCM82			
4	Hot water remote of	controller		BRCS82			
	Туре		RWHQ18THYM	RWHQ24THYM RWHQ26THYM			

No.	Item		RWHQ18THYM RWHQ20THYM RWHQ22THYM	RWHQ26THYM RWHQ28THYM RWHQ30THYM RWHQ32THYM	RWHQ34THYM	
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H (Max. 8 branch)	(Max. 4 branch) (Max. 8 branch) KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Ma		
		REFNET joint				
2	Pipe size reducer		_	KHRP26M73TP,	KHRP26M73HP	
3	Outdoor unit multi connection piping kit			BHFP22P151		
4	Hot water controller box		BRCM82			
5	Hot water remote of	controller		BRCS82		

No.	Item	Туре	RWHQ36THYM	RWHQ38THYM	RWHQ40THYM	RWHQ42THYM RWHQ44THYM RWHQ46THYM RWHQ48THYM RWHQ50THYM		
1	1 Distributive REFNET heade		KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)					
	piping	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T					
2	Pipe size reducer			KHRP26M73TP,	KHRP26M73HP			
3	Outdoor unit multi	connection piping kit		BHFP2	22P151			
4	Hot water controlle	er box	BRCM82					
5	Hot water remote of	controller		BRC	S82			

# Outdoor Units

VRY	<b>IV</b> HEAT RE HOT WA	ECOVERY TER SYSTEM	Standard Typ	е				
No.	Type		RWHQ6TYM RWHQ8TYM RWHQ10TYM		RWHQ12TYM			RWHQ14TYM RWHQ16TYM
1	Distributive piping	REFNET header	(Max. 4 branch) (Max. 8 branch) (Max. 4 bran		. 4 branch) (Max. 8	26M22H, KHRP26M33H, KHRP26M72H 4 branch) (Max. 8 branch) (Max. 8 branch) 3P26A22T, KHRP26A33T, KHRP26A72T		
2	Hot water controlle	,	14111 20, 221, 1411 20,		BRC	- /		
3	Hot water remote of	controller	BRCS82					
No.	Type		RWHQ18TNYM RWHQ20TNYM	RW	HQ22TNYM	RWHQ24TN RWHQ26TN		RWHQ28TNYM RWHQ30TNYM RWHQ32TNYM
1	Distributive piping	REFNET header	KHRP26M22H, (Max. 4 branch) KHRP2 (Max. 8	(Max. 8 b		(Max. KHRF	4 branch) P26M72H,	KHRP26M33H, (Max. 8 branch) KHRP26M73H (Max. 8 branch)
		REFNET joint	KHRP26A22T, KHRP2	26A33T, K	HRP26A72T			KHRP26A33T, KHRP26A73T
2	Pipe size reducer		-	_		KHRP26M	173TP, KH	RP26M73HP
3		connection piping kit	BHFP22P100					
4	Hot water controlle		BRCM82					
5	Hot water remote of	controller			BRC	S82		

No.	Item	Туре	RWHQ34TNYM RWHQ36TNYM	RWHQ38TNYM RWHQ40TNYM	RWHQ42TNYM RWHQ44TNYM	RWHQ46TNYM RWHQ48TNYM RWHQ50TNYM RWHQ52TNYM RWHQ54TNYM RWHQ56TNYM RWHQ58TNYM RWHQ50TNYM	
1	Distributive	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 reducer			KHRP26M73TP, KHRP26M73HP			
3	Outdoor unit multi connection piping kit		BHFP22P151				
4	Hot water controller box		BRCM82				
5	Hot water remote of	controller		BRC	S82		

#### **URV** IV HEAT RECOVERY HOT WATER SYSTEM

## Space Saving Type

No.	Item	Туре		RWHQ RWHQ				
1	Distributive piping	REFNET header		KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)				
	piping	REFNET joint		KHRP26A22T, KHRP26A33T, KHRP26A72T				
2	Hot water controlle	r box		BRC	M82			
3	Hot water remote c	ontroller	BRCS82					
No.	Type		RWHQ22TSYM	RWHQ24TSYM	RWHQ26TSYM RWHQ28TSYM RWHQ30TSYM RWHQ32TSYM	RWHQ34TSYM RWHQ36TSYM RWHQ38TSYM RWHQ40TSYM		
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H (Max. 8 branch)					
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T	T, KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T				
2	Pipe size reducer		_	KHRP26M73TP, KHRP26M73HP				
3	Outdoor unit multi	connection piping kit	BHFP22P100					
4	Hot water controlle	r box	BRCM82					
5	Hot water remote c	ontroller		BRC	S82			

No.	Item	Туре	RWHQ42TSYM RWHQ44TSYM	RWHQ46TSYM RWHQ48TSYM RWHQ50TSYM	
1	Distributive	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 reducer		KHRP26M73TP,	KHRP26M73HP	
3	Outdoor unit multi connection piping kit		BHFP22P151		
4	Hot water controller box		BRCM82		
5	Hot water remote of	controller	BRC	S82	

# VRV Indoor Units

#### Ceiling Mounted Cassette (Round Flow with Sensing) Type

No.	Item			Туре	FXFSQ25A FXFSQ32A FXFSQ40A	FXFSQ50A FXFSQ63A FXFSQ80A	FXFSQ100A FXFSQ125A FXFSQ140A		
		Standard panel with	Fresh whi	te		BYCQ125EEF			
		sensing	Black			BYCQ125EEK			
1	Decoration	Standard panel	Fresh white		BYCQ125EAF *				
'	panel	Stanuaru paner	Black			BYCQ125EAK *			
		Designer panel 1	Fresh whi	te	BYCQ125EAPF *				
	Auto grille panel ^{2,3}		Fresh whi	te		BYCQ125EASF *			
2	Sealing material of air discharge outlet 4		For usage	of 3-, 4-way flow KDBH551C160		KDBH551C160			
2	Sealing material of air discharge outlet		For usage	e of 2-way flow	KDBH552C160				
3	Panel spacer			KDBP55H160FA					
	Fresh air intake kit		Chamber Without T-duct joint		KDDP55B160 (Components: KDDP55C160-1, KDDP55B160-2) 8				
4			type 5,6	With T-duct joint	ct joint KDDP55B160K (Components: KDDP55C160-1, KDDP55B1		(DDP55B160K2) 8		
			Direct installation type 7		KDDP55X160A				
5	High-efficiend	cy filter unit ⁹	(Colorime	tric method 65%)	KAFP5	556C80	KAFP556C160		
5	(Including filte	er chamber)	(Colorime	tric method 90%)	KAFP5	557C80	KAFP557C160		
6	Baplacomont	high-efficiency filter 9,10	(Colorime	tric method 65%)	KAFP5	552B80	KAFP552B160		
0	Replacement	high-enciency litter -	(Colorime	tric method 90%)	KAFP5	553B80	KAFP553B160		
7	Filter chambe	er				KDDFP55C160			
8	Replacement	long-life filter				KAFP551K160			
9	Replacement	long-life filter (Auto grille	oanel)			KAFP551H160			
10	Ultra long-life	filter unit (Including filter o	hamber) ⁹			KAFP55C160			
11	Replacement	ultra long-life filter 9,10				KAFP55H160H			
12	Branch duct	chamber 4			KDJP	KDJP55C80 KE			
13	Insulation kit	for high humidity 9,11			KDTP	55K80	KDTP55K160		

#### Ceiling Mounted Cassette (Round Flow) Type

No.	Item			Туре	FXFQ25A FXFQ32A FXFQ40A	FXFQ50A FXFQ63A FXFQ80A	FXFQ100A FXFQ125A FXFQ140A		
		Standard panel	Fresh whi	te		BYCQ125EAF *			
4	Decoration	Standard panel	Black			BYCQ125EAK *			
	panel	Designer panel 1	Fresh whi	te	BYCQ125EAPF *				
	Auto grille panel ^{2,3}		Fresh white			BYCQ125EASF *			
2	Sealing material of air discharge outlet ⁴		For usage	of 3-, 4-way flow		KDBH551C160			
2			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) ^a				
4			type 5,6	With T-duct joint	KDDP55B160K (	KDDP55B160K (Components: KDDP55C160-1, KDDP55B160K2) ⁸			
			Direct installation type 7			KDDP55X160A			
5	High-efficiend		(Colorimetric method 65%)		KAFP	556C80	KAFP556C160		
5	(Including filte	er chamber)	(Colorimetric method 90%)		KAFP	557C80	KAFP557C160		
6	Poplacomont	high-efficiency filter 9,10	(Colorime	tric method 65%)	KAFP	552B80	KAFP552B160		
0	Replacement	Thigh-enclency filter	(Colorime	tric method 90%)	KAFP	553B80	KAFP553B160		
7	Filter chambe	er				KDDFP55C160			
8	Replacement	long-life filter				KAFP551K160			
9	Replacement	long-life filter (Auto grille	oanel)			KAFP551H160			
10	Ultra long-life	filter unit (Including filter o	chamber) ⁹		KAFP55C160				
11	Replacement	ultra long-life filter 9,10			KAFP55H160H				
12	Branch duct of	chamber 4			KDJF	255C80	KDJP55C160		
13	Insulation kit	for high humidity 9,11			KDTF	P55K80	KDTP55K160		

Note: 1. When installing designer panel, body height (ceiling required dimension) is 42 mm higher than standard panel. Designer panel cannot operate 2 and 3 way flow.
2.A dedicated wireless remote controller (BRC16A2) for the auto grille panel is included for lowering and raising the suction grille.
3. When installing auto grille panel, body height (ceiling required dimension) is 55 mm

4. Circulation airflow is not available with this option.
4. Circulation airflow is not available with this option.
5. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
6. 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.

7.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.
8.Please order using the names of both components instead of set name.
9.This option cannot be installed to designer panel and auto grille panel.

10.Filter chamber is required. 11.Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH. *These panels do not contain the sensing function.

# VRV Indoor Units

### Options of Ceiling Mounted Cassette (Round Flow with Sensing & Round Flow) 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/m³ (Requires separately sold Air purifier.) 1 year (Approx. 5,000 hr)  $\doteqdot$ 15 hr/day x 28 day/month x 12 month/year

#### Ordinary store or office: filter change every 4 years

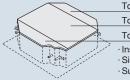
# High-efficiency filter unit

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.

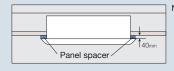


### Top panel insulation(1)

Top panel insulation(2) Top panel insulation(3) Insulation for decoration panel Side panel insulation Suspension bracket insulation

### 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 your unit.

# Sealing material of air discharge outlet

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

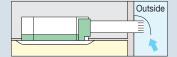
#### Branch duct (direct-connection round duct)

A round duct can be attached without the need for a chamber.

A flanged port for direct connection of a round duct is provided. An existing branch duct chamber can also be fitted (square slit hole).

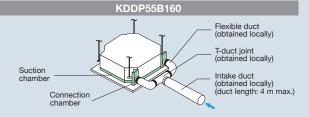
## Fresh air intake kit Note 1.2

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.

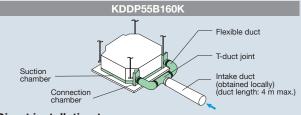


# The units can be installed in the following different ways

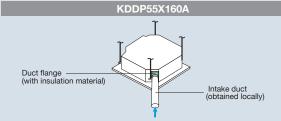
Chamber type (without T-duct joint) Note 3.4.5



#### 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.
  - 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 necessary.

## Ceiling Mounted Cassette (Compact Multi Flow) Type

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

## **Ceiling Mounted Cassette (Double Flow) Type**

No.	Item		Туре	FXCQ20M FXCQ25M FXCQ32M	FXCQ40M	FXCQ50M	FXCQ63M	FXCQ80M	FXCQ125M
1	Decoration panel		BYBC32G-W1	BYBC5	0G-W1	BYBC63G-W1	BYBC1	25G-W1	
		High efficiency fi	lter 65% *1	KAFJ532G36	KAFJ5	32G56	KAFJ532G80	KAFJ5	32G160
2	Filter related	High efficiency fi	lter 90% *1	KAFJ533G36	KAFJ5	33G56	KAFJ533G80	KAFJ5	33G160
2		Filter chamber	bottom suction	KDDFJ53G36	KDDFJ	53G56	KDDFJ53G80	KDDFJ	53G160
		Long life replacement filter		KAFJ531G36	KAFJ531G56		KAFJ531G80	KAFJ531G160	

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

## **Ceiling Mounted Cassette Corner Type**

No.	Item	Туре	FXKQ25MA	FXKQ32MA	FXKQ40MA	FXKQ63MA
1	Panel related	Decoration panel		BYK71FJW1		
1	Pariel related	Panel spacer		KPBJ52F80W		
	Air inlet and air	Long life replacement filter		KAFJ521F80		
2	discharge outlet related	Air discharge blind panel		KDBJ52F80W		
discharge outlet related		Flexible duct (with shutter)		KFDJ52FA80		

#### Slim Ceiling Mounted Duct Type (Standard Series)

N	o.	Item Type	FXDQ20PD	FXDQ25PD	FXDQ32PD	FXDQ40ND	FXDQ50ND	FXDQ63ND
	1	Insulation kit for high humidity		KDT25N32		KDT2	5N50	KDT25N63

## Middle Static Pressure Ceiling Mounted Duct Type

No.	Item	Туре	FXSQ20PA FXSQ25PA FXSQ32PA	FXSQ40PA	FXSQ50PA FXSQ63PA FXSQ80PA	FXSQ100PA FXSQ125PA	FXSQ140PA
1	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	KTBJ25K160W	
4	Service panel	Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T	
5	Air discharge adaptor		KDAP25A36A	KDAP25A56A	KDAP25A71A	KDAP25A140A	KDAP25A160A *2
6	Shield plate for side plate			KDBD63A160			_

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

## **Ceiling Mounted Duct Type**

No.	Item	Туре	FXMQ20PA FXMQ25PA FXMQ32PA	FXMQ40PA	FXMQ50PA FXMQ63PA FXMQ80PA	FXMQ100PA FXMQ125PA FXMQ140PA	FXMQ200M FXMQ250M	
1	Drain pump kit			_				
2	High efficiency filter	65%	KAF372AA36	KAF372AA56	KAF372AA80	KAF372AA160	KAFJ372L280	
2		90%	KAF373AA36	KAF373AA56	KAF373AA80	KAF373AA160	KAFJ373L280	
3	Filter chamber		KDDF37AA36	KDDF37AA56	KDDF37AA80	KDDF37AA160	KDJ3705L280	
4	Long life replacement filter		KAF371AA36	KAF371AA56	KAF371AA80	KAF371AA160	KAFJ371L280	
5	Long life filter chamber kit		KAF375AA36	KAF375AA56	KAF375AA80	KAF375AA160		
		White	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W		
6	Service panel	Fresh white	KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	-	
		Brown	KTBJ25K36T	KTBJ25K56T	KTBJ25K80T	KTBJ25K160T		
7	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A		

# VRV Indoor Units

### 4-Way Flow Ceiling Suspended Type

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

### **Ceiling Suspended Type**

No.	Item Type	FXHQ32MA	FXHQ63MA	FXHQ100MA	
1	Drain pump kit	KDU50N60VE	KDU50N125VE		
2	Replacement long-life filter (Resin net)	KAF501D56	KAF501D80 KAF501D112		
3	L-type piping kit (for upward direction)	KHFP5M63	KHFP5M160		

#### Wall Mounted Type

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

#### **Floor Standing Type**

No.	Item Type	FXLQ20MA	FXLQ25MA	FXLQ32MA	FXLQ40MA	FXLQ50MA	FXLQ63MA
1	Long life replacement filter	KAFJ361K28		KAFJ361K45		KAFJ361K71	

### **Concealed Floor Standing Type**

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

#### **Floor Standing Duct Type**

No.	Ite	em			Туре	FXVQ125N	FXVQ200N	FXVQ250N	FXVQ400N	FXVQ500N	
1		Replacement long	life filter			KAFJ261L140	KAFJ261L224	KAFJ261L280	KAFJ261M450	KAFJ261M560	
2		Ultra long-life filter	Jltra long-life filter				-		KAFSJ9A400	KAFSJ9A560	
3			Front suction		Front suction base flange		KD-9A140	KD-9A200	KD-9A280	KD-9A400	KD-9A560
4	_		Suction grille		KDGF-9A140	KDGF-9A200	KDGF-9A280	KDGF-9A400	KDGF-9A560		
5	Suction	Front suction filter	Filter	Replacement lor	ng-life filter *1, 2, 3	KAF-91A140	KAF-91A200	KAF-91A280	KAF-91A400	KAF-91A560	
6		chamber for high efficiency filter	chamber for high	Replacement high efficiency	65% *1, 3	KAF-92A140	KAF-92A200	KAF-92A280	KAF-92A400	KAF-92A560	
7	e and		efficiency	filter	90% *2, 3	KAF-93A140	KAF-93A200	KAF-93A280	KAF-93A400	KAF-93A560	
8	arge		filter *1, 2	Filter charr	ber *1, 2	KDDF-9A140	KDDF-9A200	KDDF-9A280	KDDF-9A400	KDDF-9A560	
9	lisch	Plenum chamber '	*4			KPCJ140A	KPC5J	KPC8J	KPCJ400A	KPC15JA	
10		Pulley for plenum	chamber *4			KPP8JA	KPP9JA	KPP10JA	_		
11		Fresh air intake kit	t				KD106D10		KDFJ90	06A560	
12		Rear suction kit				KDFJ905A140	KDFJ905A200	KDFJ905A280	KDFJ905A400	KDFJ905A560	
13		Discharge grille for plenum side					KD101A10			KD101A20	
14	Wo	Vood base				KKWJ9A140	KWF1G5P	KWF1G8P	KKWJ9A400	KWF1G15	
15	Vit	pration isolating frar	ne			K-ABSG1406A	K-ABSG1407A	K-ABSG1408A	K-ABSG1409A	K-ABSG1410A	

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

## **Clean Room Air Conditioner**

No.	Item	Туре	FXBQ40P	FXBQ50P	FXBQ63P	FXBPQ63P
1	Outlet unit		-			BAF82A63
2	Filter	HEPA filter	BAFH82A50		BAFH82A63	
3	Panel	Ceiling intake type	BYB82A50C		BYB82A63C	BYB82A63CP
4	Fallel	Floor-level intake type	BYB82A50W		BYB82A63W	BYB82A63WP
5	Outside air intake duct	flange		KDFJ	32A80	

# Residential Indoor Units with connection to BP units

### **Slim Ceiling Mounted Duct Type**

No.	Item Type	FDKS25EA FDKS35EA	FDKS25CA FDKS35CA FDKS50C	FDKS60C
1	Insulation kit for high humidity	KDT25N32	KDT25N50	KDT25N63

### Wall Mounted Type

	No.	Type	FTKJ25N FTKJ35N FTKJ50N	FTKS25D FTKS35D	FTKS50B	FTKS50F FTKS60F FTKS71F	
	1	Titanium apatite deodorising filter *1	KAF970A46	KAF952A42	KAF952B42		
	2	Dust collection filter (PM 2.5) with frame	BAFP046A42		-		
[	3	Dust collection filter (PM 2.5) without frame	BAFP046A41		-		
ľ	2 3						

Note: *1. Filter is a standard accessory. It should be replaced approximately 3 years.

#### BP Units for connection to residential indoor units

No.	Item Type	BPMKS967A2	BPMKS967A3
1	REFNET joint	KHRP26	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.

# Control Systems

### **Operation Control System Optional Accessories**

#### For VRV indoor unit use

No.	Item	Type			FXCQ-M	FXKQ-MA	FXDQ-PD FXDQ-ND	FXDQ-SP	FXSQ-PA	FXMQ-PA
1	Remote controller Wireless		BRC7M635F (Fresh White) / BRC7M635K (Black)	BRC7E531W	BRC7C67	BRC4C63	BRC4C66			
		Wired	—		BRC1C62		BRC1C62			
2	Navigation remote controller (Wired remote controller)		BRC1E63 Note 7		BRC1E63		BRC1E63 Note 8	BRC1E63	BRC1E	63 Note 8
3	Simplified remote controller (Exposed type)			-	-			BRC	2C51	
4	Remote controller for hotel use (Concealed type)			-	-			BRC	3A61	
5	Adaptor for wiring		★KRP1C11A	★KRP1BA57	★KRP1B61	KRP1B61	★KRP1B56	—	★KRF	P1C64
6-1	Wiring adaptor for ele	ectrical appendices (1)	—	★KRP2A62	★KRP2A61	KRP2A61	★KRP2A53	—	★KRF	P2A61
6-2	Wiring adaptor for ele	ectrical appendices (2)	★KRP	4AA53	★KRP4AA51	KRP4AA51	★KRP4A54	—	★KRP	4AA51
7	Remote sensor (for ir	ndoor temperature)	KRCS01-5B		KRCS01-1E	3	KRCS	01-1B	KRCS	01-4B
8	Installation box for adaptor PCB		Note 2, 3 KRP1H98A	Note 4, 6 KRP1BA101	Note 2, 3 KRP1B96	-	Note 4, 6 KRP1BA101	-	Note 2, 3 KRP4A98	Note 2, 3 KRP4A97
9	External control adaptor for outdoor unit		★DTA ⁻	★DTA104A62 ★DTA104A61 DTA104A61		★DTA104A53	—	★DTA1	04A61	
10	Adaptor for multi ten	ant	★DTA114A61			_		•	★DTA1	14A61

No.	Item			FXUQ-A	FXHQ-MA	FXAQ-P	FXLQ-MA FXNQ-MA	FXVQ-N	FXBQ-P FXBPQ-P
- 1	Remote controller	Wireless	BRC4C64	BRC7CB59	BRC7EA66	BRC7EA619	BRC4C64	-	BRC4C64
1	Remote controller	Wired			BRC1C62			BRC1C62 Note 9	BRC1C62
2	Navigation remote control	ller (Wired remote controller)	BRC1E63	BRC1E63 Note 7, 8		BRC1E63		BRC1E63 Note 10	BRC1E63
3	Simplified remote co	ontroller (Exposed type)	BRC2C51		-		BRC2C51	-	BRC2C51
4	Remote controller for h	otel use (Concealed type)	BRC3A61		-		BRC3A61	-	BRC3A61
5	Adaptor for wiring	KRP1B61	-	KRP1BA54	-	KRP1B61	KRP1C67	KRP1B61	
6-1	Wiring adaptor for el	ectrical appendices (1)	KRP2A61	-	★KRP2A62	★KRP2A61	KRP2A61	KRP2A62	KRP2A61
6-2	Wiring adaptor for el	ectrical appendices (2)	KRP4AA51	★KRP4AA53	★KRP4AA52	★KRP4AA51	KRP4AA51	-	KRP4AA51
7	Remote sensor (for i	ndoor temperature)	KRCS01-1B	KRCS01-4B		KRCS01-1B			
8	Installation box for a	daptor PCB 🛠	_	KRP1BA97	Note 3 KRP1CA93	Note 2, 3 KRP4AA93		_	
9	External control ada	DTA104A61	_	★DTA104A62	★DTA104A61	DTA104A61	Note 11 DTA104A62	DTA104A61	
10	Adaptor for multi tenant			_		★DTA114A61			
11	External control adap						KRP6A1 Note 11	_	
12	Remote controller w	ith key			-			KRCB37-1	_

Note: 1. Installation box☆ is necessary for each adaptor marked★. 2. Up to 2 adaptors can be fixed for each installation box.

3. Only one installation box can be installed for each indoor unit. 4. Up to 2 installation boxes can be installed for each indoor unit.

5. Installation box $\mbox{}$  is necessary for second adaptor.

Installation box% is necessary for each adaptor.
 Some function can be set only via wired remote controller BRC1E63. Cannot be set via other remote controllers. Please refer to page 118 for function list details.

8. Auto airflow rate can be set only via wired remote controller BRC1E63. Cannot be set via other remote controllers.
 9. Since the control panel is equipped as standard, use the option for 2 remote control system.
 10. When using BRC1E63, be sure to remove the control panel and since BRC1E63 cannot be stored inside the indoor unit, please place it separately.

Remove the group control adaptor which is a standard equipment before mounting KRP6A1 and DTA104A62. KRP6A1 and DTA104A62 cannot be mounted to the same indoor unit at the same time.

#### For residential indoor unit use

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

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

## **System Configuration**

No.	Item	Model No.	Function
1	Residential central remote controller	Note 2 DCS303A51	<ul> <li>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.</li> </ul>
2	Interface adaptor for residential indoor units	KRP928BB2S	Adaptors required to connect products other than those of the VRV System to
3	Interface adaptor for SkyAir-series	Note 3 ★DTA112BA51	the high-speed DIII-NET communication system adopted for the VRV System. * To use any of the above optional controllers, an appropriate adaptor must be
4	Central control adaptor kit For UAT(Y)-K(A),FD-K	★DTA107A55	installed on the product unit to be controlled.
5	Wiring adaptor for other air-conditioner	★DTA103A51	
6	DIII-NET expander adaptor	DTA109A51	<ul> <li>Up to 1024 units can be centrally controlled in 64 different groups.</li> <li>Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor.</li> </ul>
6-1	Mounting plate	KRP4A92	Fixing plate for DTA109A51

Note: 1. Installation box for ★ adaptor must be obtained locally.
2. For residential use only. Cannot be used with other centralised control equipment.
3. 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	<ul> <li>Air-Conditioning management system that can be controlled by a compact all-in-one unit.</li> </ul>	
1-1	Controller	Option	Hardware	DIII-NET plus adaptor	DCS601A52	Additional 64 groups (10 outdoor units) is possible.	
1-2	Electrical box with earth terminal (4 blocks)				KJB411A	Wall embedded switch box.	
2		Basic	Hardware	intelligent Touch Manager	DCM601A51	<ul> <li>Air-conditioning management system that can be controlled by touch screen.</li> </ul>	
2-1		Option	Hardware	iTM plus adaptor	DCM601A52	<ul> <li>Additional 64 groups (10 outdoor units) is possible.</li> <li>Max. 7 iTM plus adaptors can be connected to intelligent Touch Manager.</li> </ul>	
2-2	intelligent Touch Manager		Software	iTM power proportional distribution	DCM002A51	<ul> <li>Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh metre.</li> </ul>	
2-3				iTM energy navigator	DCM008A51	<ul> <li>Building energy consumption is visualised. Wasted air-conditioning energy can be found out.</li> </ul>	
2-4				BACnet [®] client	DCM009A51	<ul> <li>BACnet[®] equipment can be managed by intelligent Touch Manager.</li> </ul>	
2-5				HTTP Interface	DCM007A51	Interface for intelligent Touch Manager by HTTP	
2-6			Hardware	*1 SVM series	SVMPR2	VRV Smart phone Control System for residence	
2-7					SVMPC2	VRV Smart Phone Remote Controller for building	
2-8					*5 SVMPS1	Tenant Billing System with PPD	
2-9	VRV Smart Phone Control System				SVMPR1	• VRV Smart Phone Control System for residence with DTA116A51.	
2-10	VRV Tablet Controller				SVMPC1	VRV Tablet Controller for small size building with DTA116A51	
2-11	Di unit				DEC101A51	8 pairs based on a pair of ON/OFF input and abnormality input.	
2-12	Dio unit				DEC102A51	4 pairs based on a pair of ON/OFF input and abnormality input.	
3		*2 Interface for use in BACnet®			DMS502B51	<ul> <li>Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through BACnet[®] communication.</li> </ul>	
3-1	Communication	Optional DIII board			DAM411B51	Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.	
3-2	interface	Optional Di board			DAM412B51	<ul> <li>Expansion kit, installed on DMS502B51, to provide 16 more wattmete pulse input points. Not usable independently.</li> </ul>	
4		*3 Interface for use in LONWORKS®			DMS504B51	<ul> <li>Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through LonWorks[®] communication.</li> </ul>	
5		Home Automation Interface Adaptor			DTA116A51	<ul> <li>Use of the Modbus protocol enables the connection of the VRV system with a variety of home automation systems from other manufacturers.</li> </ul>	
6	Contact/ analogue signal	Unification adaptor for computerised control			+DCS302A52	Interface between the central monitoring board and central control units.	

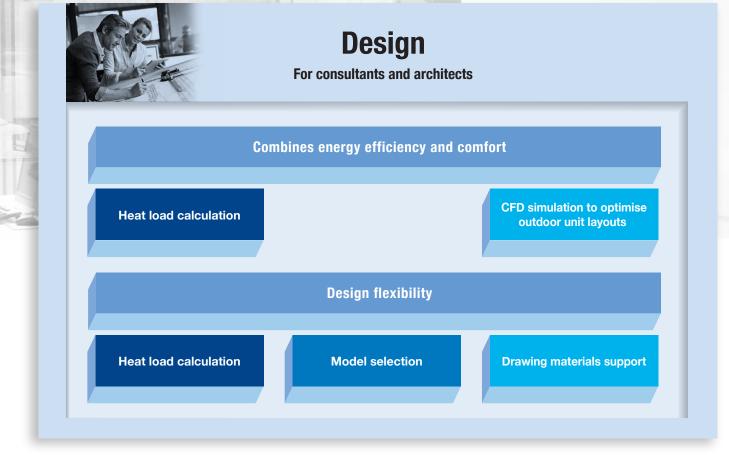
Note: *1. HTTP interface (DCM007A51) is also required.
 *2. BACnet[®] is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
 *3. LonWorks[®] is a trademark of Echelon Corporation registered in the United States and other countries.
 *4. Installation box for ★ adaptor must be obtained locally.
 *5. PPD option (DCM002A51) for iTM is also required.

# 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

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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.

#### **Heat Load Calculation**

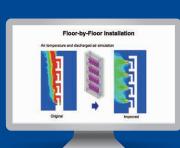
#### DACCS-HKGSG and HKGSA

The DACCS program uses a steady-state load calculation method to compute heat load over a 24-hour period on summer and winter days. The heat load coming in through outer walls and rooftops from strong summer sunlight can be substantial, but the DACCS program applies effective temperature differences based on the effects of heat accumulated in the walls. The program also accesses 24-hour weather data for all major cities. The standard design data includes accurate weather information for 140 countries.

### **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).









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- 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 trade mark of Daikin Industries, Ltd.

VRV Air Conditioning System is the world's first individual air conditioning system with variable refrigerant flow control and was commercialised by Daikin in 1982. VRV is the trade mark of Daikin Industries, Ltd., which is derived from the technology we call "variable refrigerant volume."

•Specifications, designs and other content appearing in this brochure are current as of March 2018 but subject to change without notice.

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#### DAIKIN MALAYSIA SALES & SERVICE SDN. BHD.

Head Office: Tel: 03-7953 8388 Fax: 03-7956 4371 (109719-M) Email: sales_enguiry@daikin.com.my, customer_service@daikin.com.my

Email: sales_enquiry@daikin.com.my, customer_service@daikin.com.my										
Branches:	• Kedah	Tel: 04-730 5670	• Johor	Tel: 07-557 7788						
	<ul> <li>Penang</li> </ul>	Tel: 04-331 1670	<ul> <li>Pahang</li> </ul>	Tel: 09-567 6778						
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Authorized dealer: