



Perfecting the Air

PCVWN2507A^{aprv}

VRV

General Catalogue 2025 Commercial Solutions



R-410A

Cooling Only / Heat Pump /
Heat Recovery 50 Hz



Offers a wide variety of new functions that benefit everyone involved

First launched in Japan in 1982, the Daikin **VRV** system has been embraced by world markets for over 40 years. Daikin proudly introduces the advanced **VRV** system. We provide higher benefits to various users related to air conditioning systems, for example, building owners, consultants, installers and even building managers.



For OWNERS



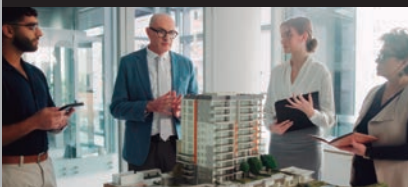
Lifecycle Cost & Comfort

For INSTALLERS



Easy Installation

For CONSULTANTS



Flexible Design & Engineering Support

For BUILDING MANAGERS



Reliability & Comfort



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New Products Information

VRV 6 XSERIES

Cooling Only

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Saves more energy and delivers exceptional performance

- ✓ Adopt a new casing to offer advanced design and new structure with excellent workability.
- ✓ Achieved the new standard of energy efficiency ratio (EER) up to 6.17 and enhanced energy efficiency during actual operation (low load) with a new compressor, new heat exchanger and VRT Smart II control.
- ✓ Design flexibility is further improved by simultaneous extension of height difference and equivalent length.
- ✓ Sealed electrical component box (IP55) blocks the ingress of debris or water, that leads to unexpected failures.
- ✓ The outdoor operation temperature range is extended to 52°C.
- ✓ A new electrical component service window on the front panel allows easy access to the main board without removing the front panel.
- ✓ Equipped with various new functions, the new model shows a significant improvement in total performance.



RXUQ-B

VRV 6 ASERIES

Cooling Only

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Exceptional performance in more reliable and compact structure

- ✓ The new large-capacity single unit casing with up to 26 HP reduces installation cost and space.
- ✓ Achieved high integrated energy efficiency ratio (EER) up to 5.50 and enhanced energy efficiency during actual operation (low load) with a new compressor and VRT Smart II control.
- ✓ Design flexibility is further improved by simultaneous extension of height difference and equivalent length.
- ✓ Sealed electrical component box (IP55) blocks the ingress of debris or water, that leads to unexpected failures.
- ✓ The outdoor operation temperature range is extended to 52°C.
- ✓ A new electrical component service window on the front panel allows easy access to the main board without removing the front panel.
- ✓ Equipped with various new functions, the new model shows a significant improvement in total performance.



RXQ-B

Wall Mounted Type

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Slim and stylish flat panel design
harmonised with your interior décor

- ✓ Slim design with a depth of only 245 mm for FXAQ20-71B models
- ✓ Provides greater energy saving due to the significantly lower power consumption.
- ✓ Whisper quiet in operation, with sound levels as low as 22 dB(A)
- ✓ Enhanced comfortable airflow control functions with new 5-step airflow control and 3D airflow functions
- ✓ Better indoor air quality with optional streamer discharge unit and air quality filter (Enzyme blue / PM2.5)



FXAQ-B



Simple Touch Controller

Page
270

Total control, seamless design

- ✓ Combined functions of current Unified On/Off Controller, Central Remote Controller and Schedule Timer
- ✓ Sleek and minimalist design that seamlessly blends in with various interior style, from modern offices to upscale residences.
- ✓ Easy to navigate and operate the controller with touch screen of 8 inch.
- ✓ Max. 128 indoor units (64 groups) controllable

Simple Touch Controller
DTP401A61



**GOOD DESIGN
AWARD 2024**



New Products Information

Improving air quality with technology

UV Streamer Air Purifier Unit (Option)

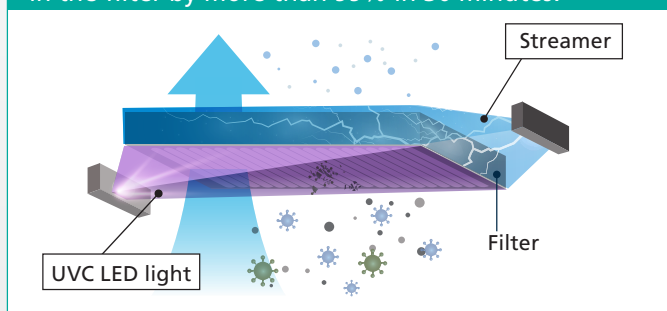
Easily connects to air conditioner to purify and sterilize air.

► The combination of three DAIKIN technologies

Removes bacteria *1 and suppresses viruses *2 captured in the filter.

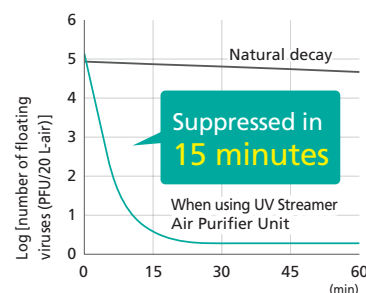


Removes bacteria*¹ and suppresses viruses*² captured in the filter by more than 99% in 30 minutes.*⁵



Suppresses floating viruses*³ and floating bacteria*⁴ by more than 99% in 15 minutes.*⁶

Changes in the number of airborne viruses in the test space



Note:

	*1	*2	*3	*4
Testing organization	Japan Food Research Laboratories	Shokukanken Inc.	Kitasato Research Center for Environmental Science	Japan Food Research Laboratories
Test number	21051979001-0201	217500N	2021_0375	21051979001-0101
Test method	A test piece was attached and inoculated with bacterial liquid on the upstream side of the filter installed into the unit. Operation was performed in a closed test space of 25m ³ , and the number of live bacteria was counted after 30 minutes.	A test piece was attached and inoculated with virus liquid on the upstream side of the filter installed into the unit. Operation was performed in a closed test space of 25m ³ , and virus infectivity titer was measured after 30 minutes.	The suppression performance of airborne viruses was evaluated with reference to the Japan Electrical Manufacturers Association Standard (JEM1467) in a closed test space of 25m ³ .	Performance evaluation test was conducted by voluntary standard of Japan Electrical Manufacturers' Association (HD-133) in a closed test space of 25m ³ .
Test object	One bacterium type	One virus type	One virus type	One floating bacterium type
Test result	Reduced by more than 99% after 30 minutes.	Reduced by more than 99% after 30 minutes.	Reduced by more than 99% after 15 minutes compared to natural decay.	Reduced by more than 99% after 15 minutes.
Test unit	UV Streamer Air Purifier Unit	BAEF55D160 (Japanese model), a model equivalent to BAEF125AW1		
	Indoor unit	FHCP160EM (Japanese model), a model equivalent to FXF(S)Q140A. Airflow rate: High		
	Decoration panel	BYCP160EAF (Japanese model), a model equivalent to BYCQ125EAF		

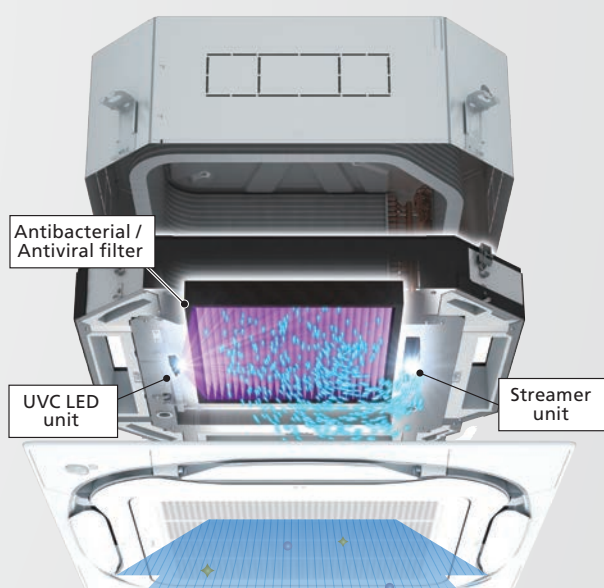
*⁵ The effect was in a closed test space of 25 m³ after 30 minutes of operation and was not a test result in an actual operation space.

*⁶ The effect was in a closed test space of 25 m³ after 15 minutes of operation and was not a test result in an actual operation space.

Applicable when using the Standard panel (Fresh white),
Standard panel with Sensing (Fresh white), or Auto grille panel.



Promotion
Movie



- Large airflow rate of the Round Flow Cassette delivers clean air to every corner of the room.



There is no need for floor space for air purifier.

- Even during intermediate periods, air can be cleaned by fan operation.
- Can be retrofitted to existing installations.



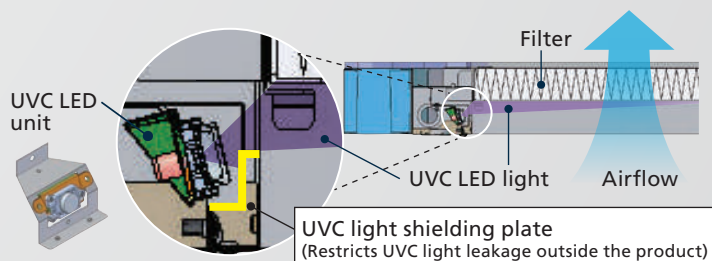
LED lamp shows
the operation
status at a glance.

Safe Design

The unit features a safe design that prevents leakage of deep ultraviolet rays outside the unit. <This product complies with IEC60335-2-40.>

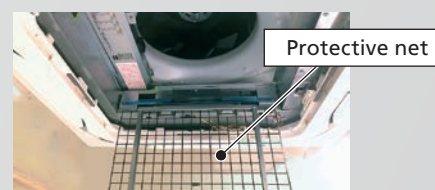
1. Unique shape that blocks light

An UVC light shielding plate is installed under the UVC LED unit.



2. Stop irradiation with safety switch

To keep hands out of the UV irradiation area, a protective net is used. When the protective net is removed, a safety switch stops UVC irradiation.



Technologies

Deep ultraviolet (UVC) LED

Ultraviolet rays are invisible light with wavelengths of 10 to 400 nm (nanometers) and short wavelengths of 100 to 280 nm that are called "deep ultraviolet rays (UVC)".

In particular, we have adopted the "deep ultraviolet (UVC) LED" for air purifiers, which irradiates deep ultraviolet rays with wavelengths of around 265 nm that have a high sterilizing effect.

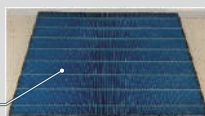


Antibacterial / Antiviral filter

Coarse dust filter on the surface and an Antibacterial / Antiviral filter in the back.

MERV 13 rating

Silver ion coating



Streamer technology

See page 8

Streamer, a type of plasma discharge, decomposes hazardous chemical substances. The decomposition power is comparable to thermal energy of about 100,000°C.*

* Comparison of oxidation decomposition. This does not mean temperature will become high.

Required ceiling space

	<p>256mm or 298mm</p> <p>100mm</p> <p>261mm or 303mm</p>
<p>UV Streamer Air Purifier Unit</p>	<p>At least 361 or 403mm is required. (At least 321 or 363mm when panel spacer is used).</p>

New Products Information

Improving air quality with technology

Introducing
Streamer technology to a
wide variety of indoor units



Daikin Streamer technology enhances maximum efficiency in cleaning, which uses powerful decomposition properties to decompose substances captured by filter for better air quality.



Built-in inside the indoor unit

Round Flow Cassette
with Sensing and Streamer

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FXFTQ-A

Round Flow Cassette
with Streamer

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FXFRQ-A



Option for the indoor unit

Ceiling Suspended

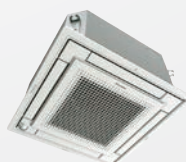
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FXHQ-B

Compact Multi
Flow Cassette

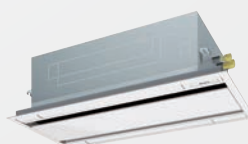
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FXZQ-B

Double
Flow Cassette

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FXCQ-B



Wall Mounted

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FXAQ-B



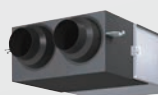
Option for ducted units

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Streamer Duct Chamber



Duct Type
Indoor Unit



Heat Reclaim
Ventilator



Outdoor-Air
Processing Unit

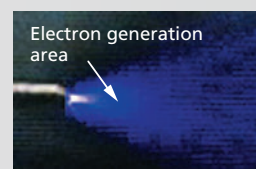


Presentation
Movie

Streamer Technology

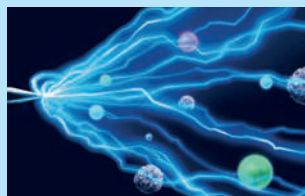
Streamer, a type of plasma discharge, decomposes hazardous chemical substances.

The decomposition power is comparable to thermal energy of about 100,000°C.*1

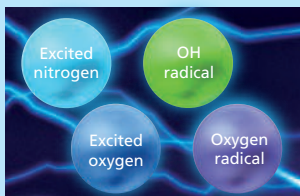


Note: *1. Comparison of oxidation decomposition. This does not mean temperature will become high.

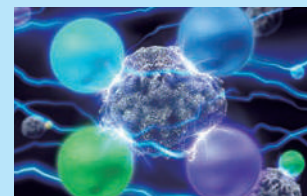
Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.



The electrons collide and combine with nitrogen and oxygen in the air to form four kinds of decomposing elements with decomposition power.

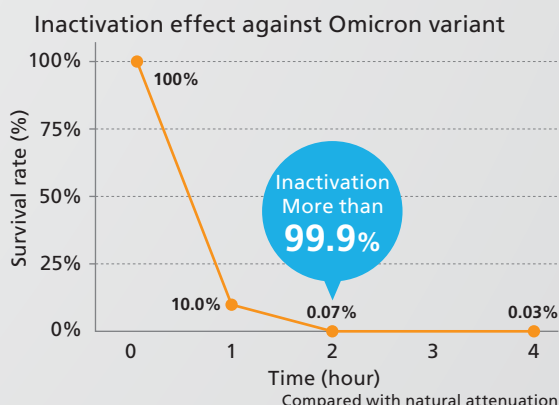


The decomposing elements provide decomposition power.

> 99.93% Inactivation of Omicron variant in 2 hours

■ Experimental Results

Irradiation with Streamer discharge for two hours inactivated 99.93%, and for four hours inactivated 99.97% of the Omicron variant of Coronavirus (SARS-CoV-2), when compared to without Streamer discharge.



■ Test Method

hCoV-19/Japan/ TY38-873/2021 strain (Omicron variant) was used. Two acrylic boxes of about 31L were placed in a safety cabinet in the BSL-3 facility, and Streamer discharge device was installed in one of the acrylic boxes. Seesaw shakers with a 6-well plate were placed in both boxes, and 0.5 mL of virus solution was placed in each well of the plate. Streamer irradiation was performed on one 6-well plate while stirring with a seesaw shaker. After 1, 2, and 4 hours, the virus solution was collected, and the virus titer was measured by the TCID50 method using Vero E6/TMPRSS2 cells.

■ Test Organization

Professor Tatsuo Shioda, Department of Virus Infections, Research Institute for Microbial Diseases, Osaka University

*This result was obtained by using a Streamer discharge device for testing in lab conditions. The effect of products equipped with Streamer technology or results in actual use environments may differ.

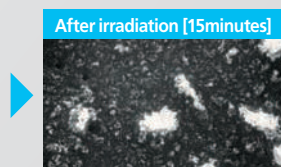
DAIKIN Streamer Research Institute



> Streamer decomposes mould and mites (feces and carcasses) and suppresses the causes of allergies.

■ Demonstration of mould

Picture of mould



■ Test Method

"Moulds" were placed on the electrodes of a Streamer discharge unit where they were exposed to Streamer discharge for 15 minutes and photographed with an electron microscope.

■ Test Organization

Demonstration test was performed at Wakayama Medical University.

> Why Daikin Streamer?

Recognized as clean technology by public bodies

Winner of the 2005 Progress Award,
Institute of Electrostatics Japan

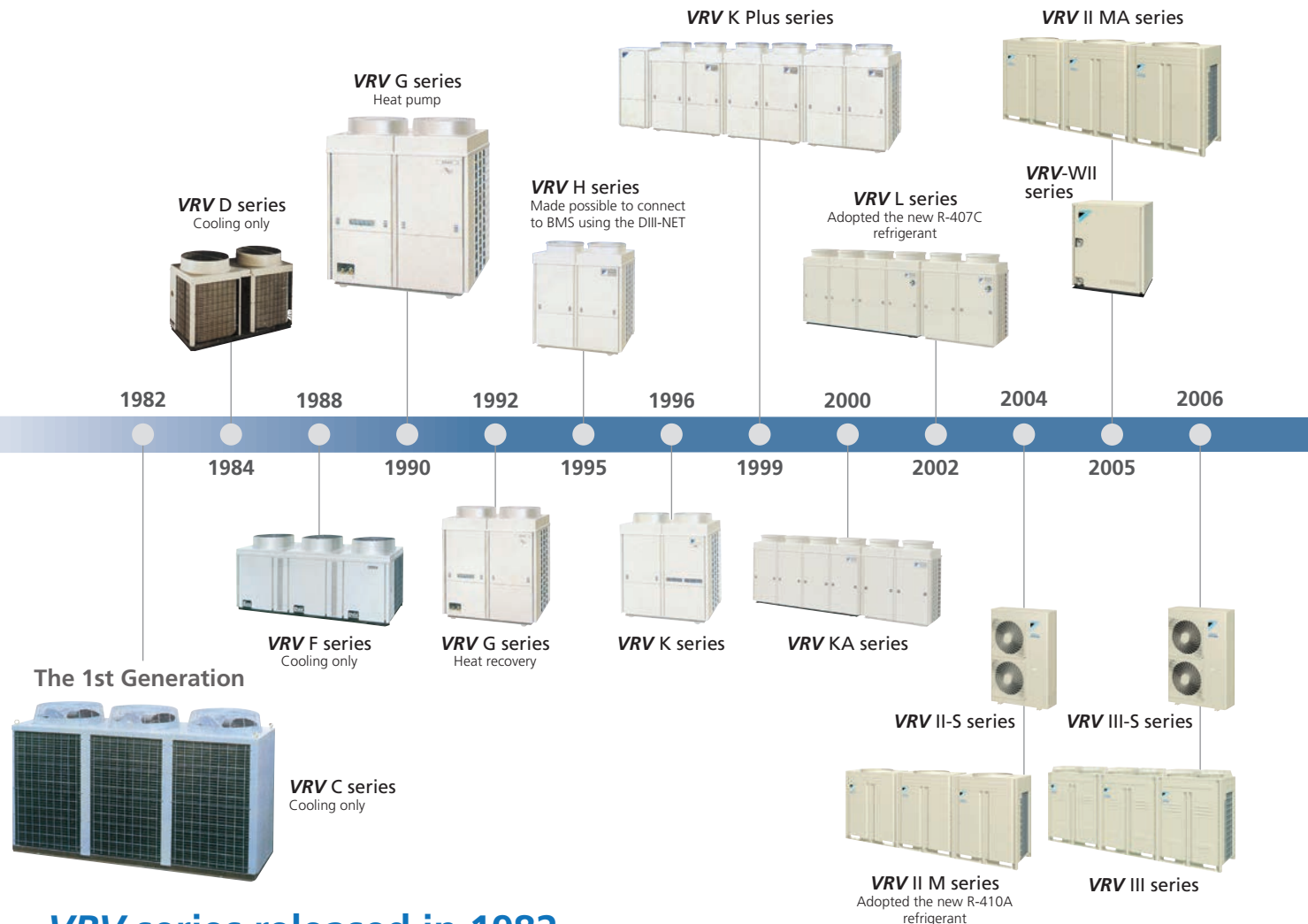
Awarded for the development of a domestic air purifier which uses DC Streamer discharge.

105 Patents Acquired

Patents acquired relating to Streamer technology

VRV Development History

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

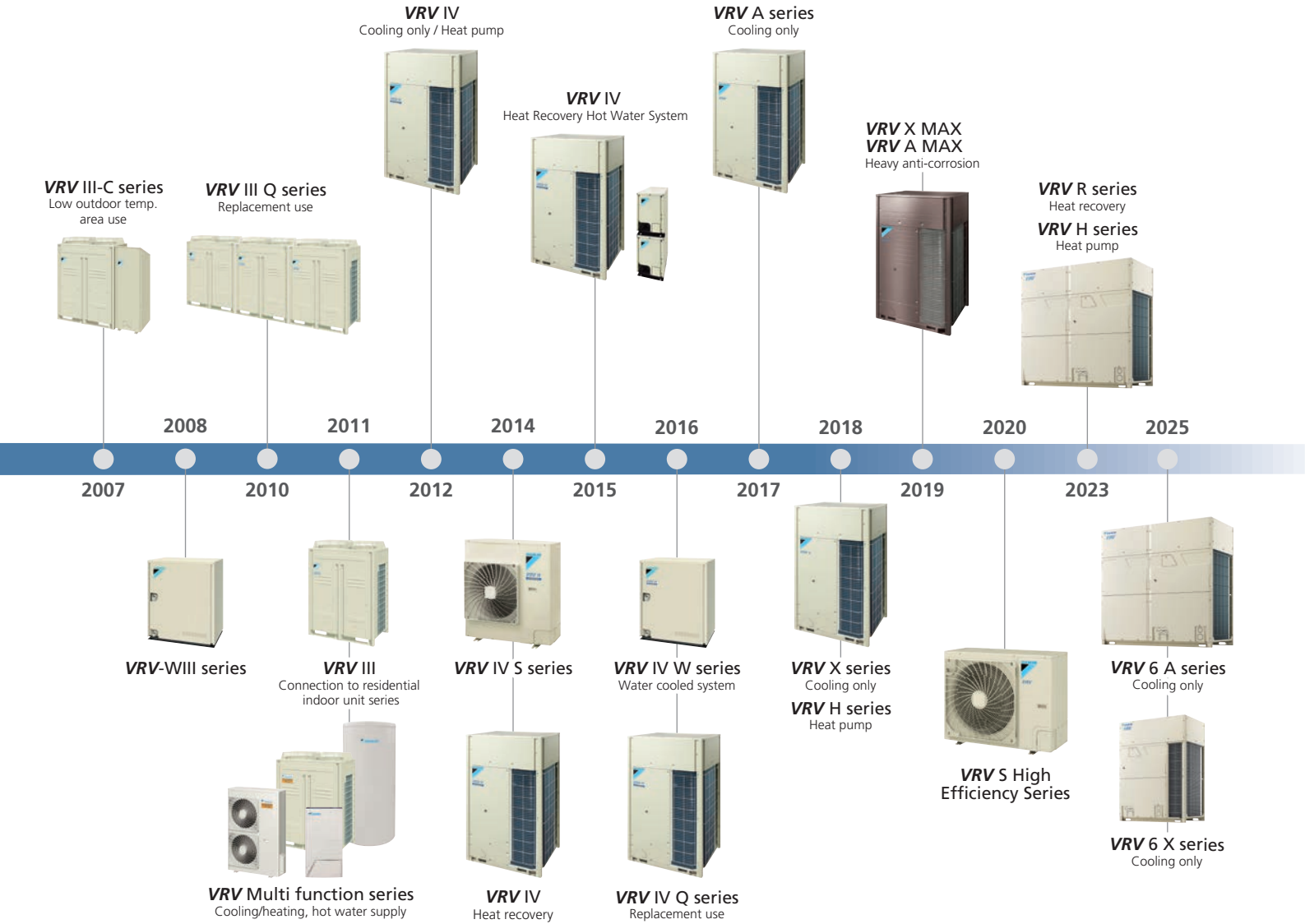


Expansion of the country of sale

Sales companies well established
in more than 70 countries



*VRV is a trademark of Daikin Industries, Ltd.





Lifecycle Cost & Comfort

Large-capacity Single Module

- Installation space and cost are reduced by large-capacity casing for max. 26 HP. Maximum capacity has been increased up to 78 HP.



Energy Saving Technology

- Further improvement of energy saving by high efficiency compressor and VRT Smart II control.

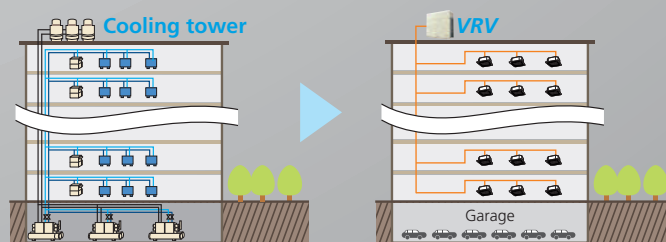


Comfort

- Defrost operation before the equipment is shut down speeds up the increase of discharge air temperature of the next heating operation.
- If defrost operation time is short, the system will optimise defrost conditions, extending the heating operation time.

Efficient Space Utilisation

- When construct a large-scale air conditioning system on a single refrigerant system, space for air conditioning is drastically reduced.
- Even with a 20-storey building all of the outdoor units can be installed on the rooftop.





For CONSULTANTS

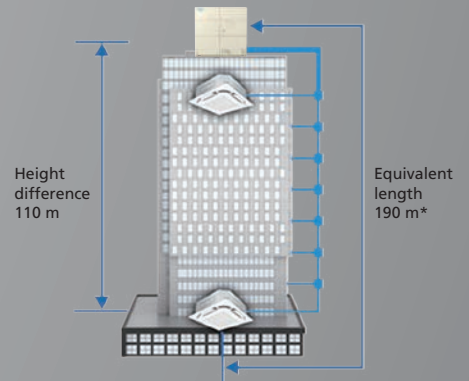


Flexible Design & Engineering Support

Long Refrigerant Piping

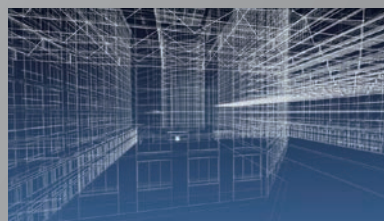
- Equivalent length max. 190 m*
- Height difference extension max. 110 m (20 m longer than conventional models)
- By applying for both at the same time, supports a wide range of applications.

*Max. equivalent length for 68-78 HP is 145 m.



Engineering Support

- Strongly supports for facility design, offering model selection assistance, energy saving and IEQ simulations, drawing support, etc.



Model Selection

BIM Support and Tools

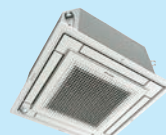
Analysis and Simulation

Varied Lineup of Indoor Units

- With various types of indoor units available, comfortable airflow is ensured in every space.



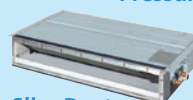
Round Flow Cassette



Compact Multi Flow Cassette



Single Flow Cassette



Slim Duct



Middle Static Pressure Duct



Ceiling Suspended



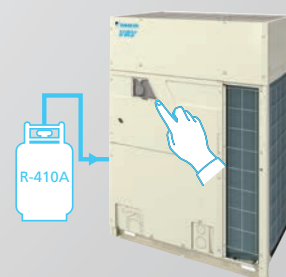
Wall Mounted



Easy Installation

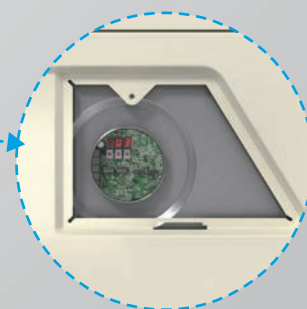
Automatic refrigerant charging

- Workflow has been redesigned to reduce number of operations on-site, shortening the average time needed for refrigerant charge and test run.



Electrical Component Service Window

- Easy access to the main PCB without removing the front panel.
- Quick field setting and trial operation.



Process visualization (Test run only)

- A progress rate (0% to 99%) is indicated on the PC board for easy arrangement for on-site work.



Progress rate (0% to 99%)

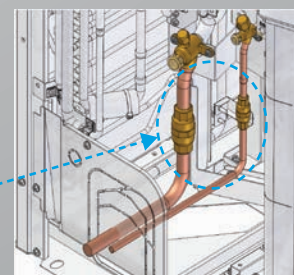
00P ~ 99P

Simple Piping, Easy Wiring

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

Improved by TIGHTFIT connection workability for VRV 6 series in outdoor unit

- By changing the connection method of refrigerant piping from brazing to TIGHTFIT (Daikin Gas Tight Joint) connection, construction is simplified and installation quality is improved.



TIGHTFIT (Daikin Gas Tight Joint)



For BUILDING MANAGERS

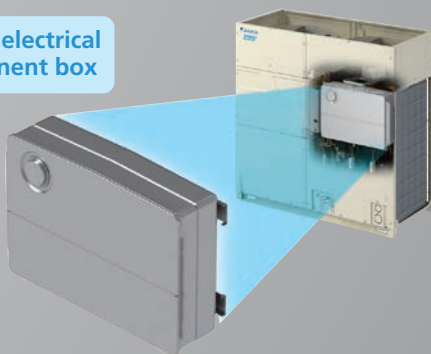


Reliability & Comfort

IP55 Sealed Component Box

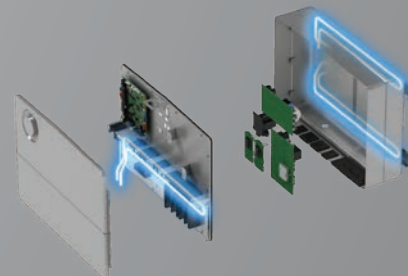
- Sealed electrical component box (IP55) blocks the ingress of debris or water, that leads to unexpected failures.

Sealed electrical component box



Refrigerant Piping Cooling System

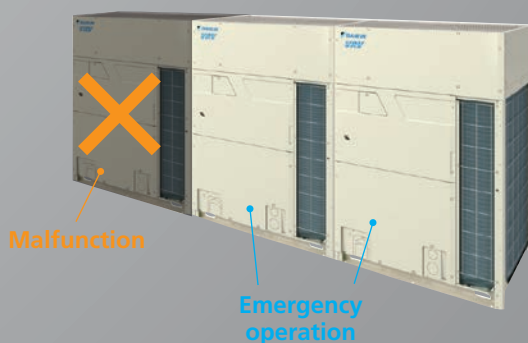
- Refrigerant cooling circuit enables operation in high outdoor temperatures.



Double Backup Operation Functions

- Unit backup & Compressor backup ensure continuous operation.

Unit backup operation function



Compressor backup operation function



Wide Variety of Series Models to Supply Total Air Solutions



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

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VRV R SERIES

Heat Recovery

Featuring unique functions in a new large capacity casing

The **VRV R** series enables simultaneous operation of cooling and heating within a single refrigerant circuit. By utilising advanced technologies, **VRV R** series achieves further valuable functions.

Lineup

HP	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																						●	●	●	●	●	●



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

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VRV H SERIES

Heat Pump

Significant improvement in total performance

The **VRV H** series unites a variety of advanced technologies in providing high efficiency and comfort to cooling and heating.

Lineup

HP	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																						●	●	●	●	●	●



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

New

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VRV 6 X SERIES

Cooling Only

Saves more energy and delivers exceptional performance

The **VRV 6 X** series features new models specially developed for higher efficiency. It achieves the new standard of energy efficiency ratio (EER) up to 6.17.

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	●	●	●	●	●	●	●	●	●																			
Double outdoor units										●	●	●	●	●	●	●	●	●	●									
Triple outdoor units																				●	●	●	●	●	●	●	●	●



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

New

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VRV 6 A SERIES

Cooling Only

Exceptional performance in more reliable and compact structure

The **VRV 6 A** series achieves significant energy savings with improved technology. The new large-capacity single unit casing with up to 26 HP reduces installation cost and space.

Lineup

HP	8	10	12	14	16	18	20	22	24	26																		
Single outdoor units	●	●	●	●	●	●	●	●	●	●																		
HP	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78		
Double outdoor units	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Triple outdoor units														●	●	●	●	●	●	●	●	●	●	●	●	●		

● New lineup



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

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VRV X MAX VRV A MAX

Cooling Only

Heavy anti-corrosion model built for seaside

The **VRV X MAX** and **VRV A MAX** heavy anti-corrosion models resist corrosion by salt, maintain performance and greatly reduce life cycle costs.

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
Heavy anti-corrosion model	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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.



RSU(Y)Q-A

4-6 HP: 1-phase, 220-240 V/220-230 V, 50/60 Hz
7-9 HP: 3-phase, 380-415 V/380 V, 50/60 Hz

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VRV S High Efficiency SERIES

Cooling Only / Heat Pump

Specially designed for residential houses, small office and shops

VRV S High Efficiency Series achieves higher energy efficiency with a variety of function for comfort and high performance. A wide range of options for installation location and application are easily achieved by the low height casing, long piping length and other features.

Lineup

HP	4	5	6	7	8	9
Cooling Only	●	●	●	●	●	●
Heat Pump	●	●	●	●	●	●



RX(Y)MQ-A/B

4 HP: 1-phase, 220-230 V/220 V, 50/60 Hz
5-6 HP: 1-phase, 220-240 V/220-230 V, 50/60 Hz
8-9 HP: 3-phase, 380-415 V, 50 Hz

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VRV IV S SERIES

Cooling Only / Heat Pump

Specially 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

HP	4	5	6	8	9
Cooling Only	●	●	●	●	●
Heat Pump	●	●	●	●	●



RQ(Y)Q-T

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

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VRV IV Q SERIES

Cooling Only / Heat Pump

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.

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							●	●					●	●	●	●	●	●	●	●	●	●



RWEYQ-T

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

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VRV IV W SERIES

Heat Pump

Water cooled system suitable for tall multi-storied buildings

Water cooled VRV IV W series utilises water as a heat source. The temperature of heat source water can be from 10°C to 45°C, and outdoor air temperature does not affect cooling capacity. The outside unit is compact and saves space in the machine room.

Lineup

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



RWHQ-T / HWHQ30A

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

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VRV IV HEAT RECOVERY
HOT WATER SYSTEM

Cooling Only

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							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					

Wide Range Indoor Unit Lineup

Create Comfortable Airflow

Wide variety of indoor units

 New lineup

Category	Type	Model Name	Capacity Range	0.8 HP	25	32	40	50	63	71	80	100	125	140	200	250	400	500
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	500
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM FXFSQ-CVM*																
	Round Flow Cassette with Streamer	FXFRQ-AVM																
	Round Flow Cassette	FXFQ-AVM																
	Compact Multi Flow Cassette	FXZQ-BVM																
	Double Flow Cassette	FXCQ-BVM																
	Single Flow Cassette	FXEQ-AV36																
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM																
	Bedroom Duct	FXDBQ-AVM																
	Slim Duct (Standard)	FXDQ-PDVE																
		FXDQ-NDVE																
	Slim Duct (Compact)	FXDQ-SPV1																
	Middle Static Pressure Duct	FXSQ-PAVE																
	Middle-High Static Pressure Duct	FXMQ-PAVE																
	High Static Pressure Duct	FXMQ-PVM																
	Outdoor-Air Processing Unit	FXMQ-MFV1																
FXMQ-AFVM																		
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB																
	Ceiling Suspended	FXHQ-MAVE																
		FXHQ-BVM																
New	Wall Mounted	FXAQ-BVM																
Floor Standing	Floor Standing	FXLQ-MAVE																
	Concealed Floor Standing	FXNQ-MAVE																
	Floor Standing Duct	FXVQ-NY1																
		FXVQ-NY16 (high static pressure type)																
Clean Room Air Conditioner		FXBQ-PVE																
		FXBPQ-PVE																
Heat Reclaim Ventilator with DX-Coil		VKM-GCVE		Airflow rate 500-950 m³/h														
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h														
Air Handling Unit		AHUR		6–120 HP														

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

* Streamer filter clean unit is not available for FXFSQ-CVM.



VRV R SERIES

Featuring Unique Functions in A
New Large Capacity Casing

Heat Recovery

8 HP—60 HP
(22.4 kW) (168 kW)



Promotion Movie



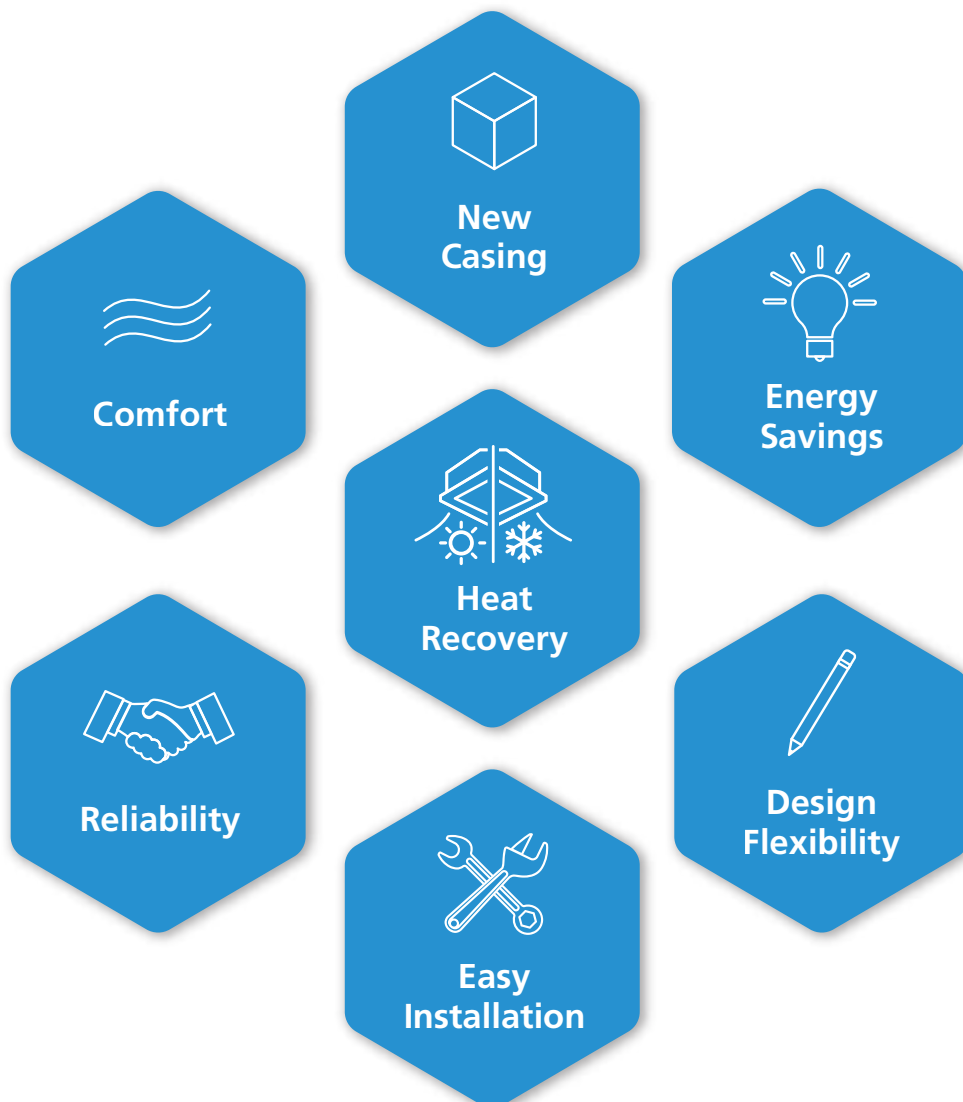
Single outdoor units
REYQ8-24BYM9

Double outdoor units
REYQ26-48BYM9

Triple outdoor units
REYQ50-60BYM9

Offers a wide variety of new functions that benefit everyone involved.

VRV R series enables flexibility through simultaneous cooling and heating operation with a single **VRV** system. By recovering heat, it is possible significantly to reduce power consumption. **VRV R** series adopt a new casing to realise a single module of up to 24 HP. In addition, the new models have achieved significant energy savings with improved technology. The operating performance has been improved in all directions by introducing unique ideas, technologies and a wide variety of functions to strengthen design flexibility, easy installation and reliability. We provide higher benefits to various users related to air conditioning systems, for example, building owners, consultants, installers and even building managers.



Heat Recovery Technologies

- **VRV R series enables flexibility through simultaneous cooling and heating operation with a single VRV system.**

Situation

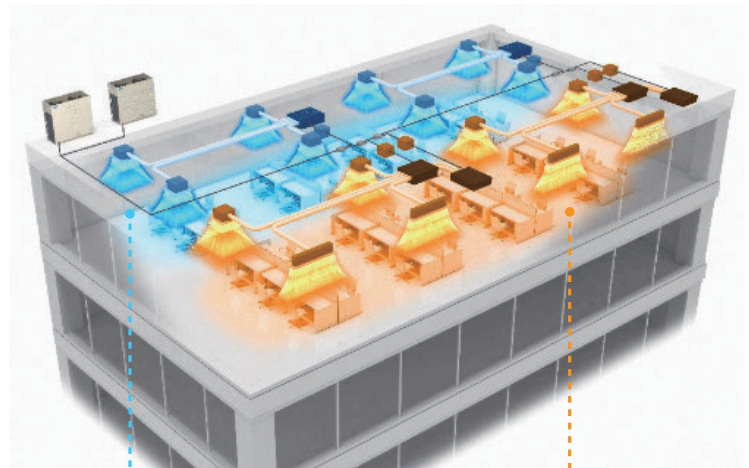
Recent office buildings are highly airtight and due to the use of computers, lighting equipment and other office equipments, **cooling load increases even in winter.**

Need

These buildings require **flexible cooling and heating operation.**

Solution

- VRV R series enables flexibility through simultaneous cooling and heating operation with a single VRV system.
- Improves energy efficiency by recycling waste heat.



Cooling

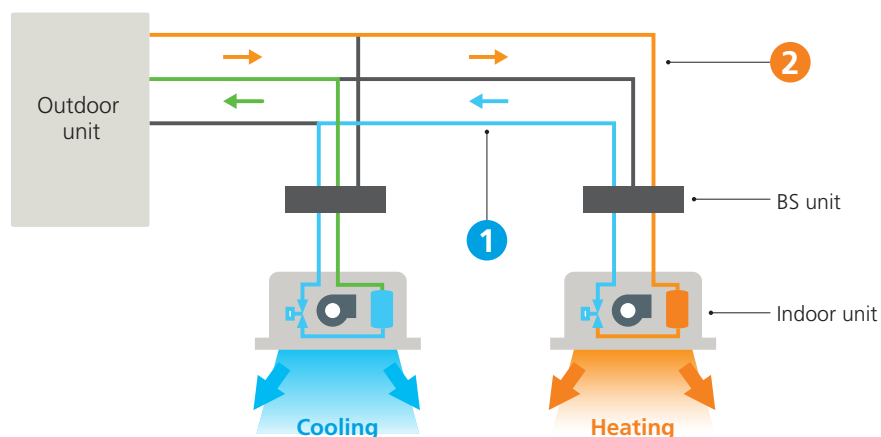
Hot area due to heat released by computers, etc.
→Cooling ON



Heating

Cold area during winter due to cold air coming from windows
→Heating ON

- **The heat recovery system improves energy efficiency by recycling waste heat.**



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

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

■ BS unit (Single type/Multi type)

See page 223 - 226

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

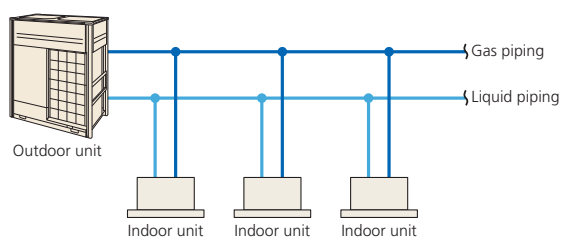


Single BS unit

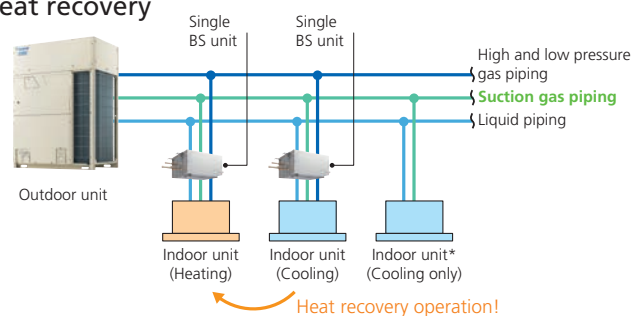


Multi BS unit

Heat pump

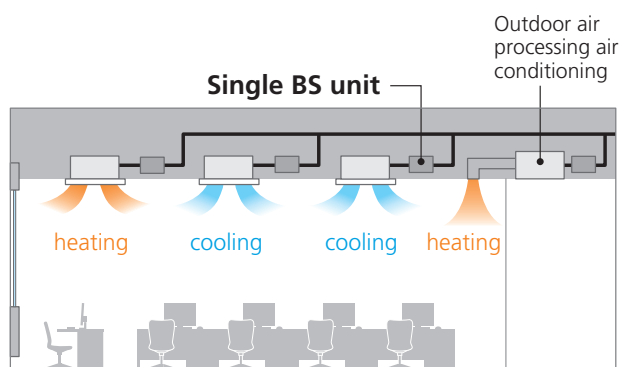


Heat recovery



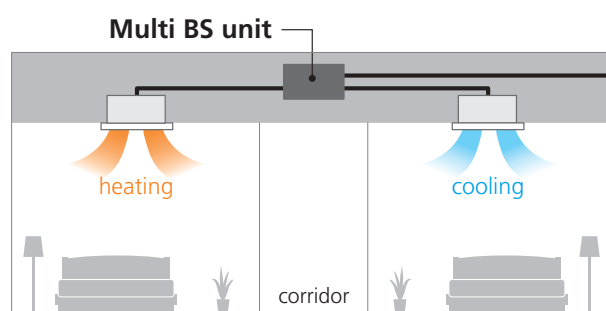
* For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outdoor units.

■ Application reference



Winter season (Office Building)

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



Winter season (Hotel)

- Able to cater to individual heating and cooling requirement

New Casing

Offers advanced design and new structure with excellent workability.
The larger single module casing reduces installation cost and space also.

8, 10, 12 HP



REYQ8BYM9 REYQ12BYM9
REYQ10BYM9

14, 16, 18, 20 HP



REYQ14BYM9 REYQ18BYM9
REYQ16BYM9 REYQ20BYM9

22, 24 HP



REYQ22BYM9
REYQ24BYM9

Outdoor unit combinations

System capacity		Number of units	Single module (HP)								
HP	kW		8	10	12	14	16	18	20	22	24
8	22.4	Single	●								
10	28.0			●							
12	33.5				●						
14	40.0					●					
16	45.0						●				
18	50.0							●			
20	56.0								●		
22	61.5									●	
24	67.0										●
26	73.5	Double			●	●					
28	78.5				●		●				
30	83.5				●			●			
32	89.5				●				●		
34	96.0					●			●		
36	101						●		●		
38	106							●	●		
40	112								●●		
42	117							●			●
44	123	Triple						●		●	
46	129									●	●
48	134									●	●
50	140				●			●	●		
52	146				●				●●		
54	152					●			●●		
56	157					●		●●			
58	162						●	●●			
60	168								●●●		

Large-capacity single module

Single module reduces installation space

Conventional models

VRV R SERIES

22, 24 HP



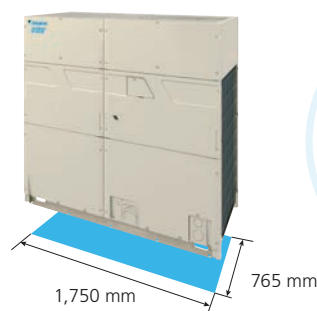
Installation space **1.44 m²**

Machine weight **460 kg**

New models

VRV R SERIES

22, 24 HP



Installation space

7% less

Machine weight

11% less

Installation space **1.34 m²**

Machine weight **409 kg**

New reinforced design

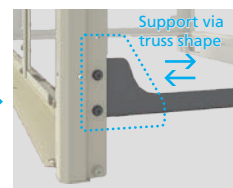
The frame structure has been strengthened to improve resistance to earthquakes and wind while protecting against falling damage.



1 Minimises horizontal wobbling

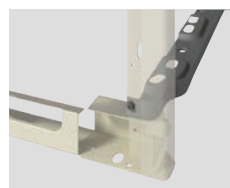


Conventional models

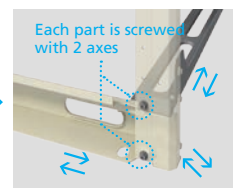


VRV R SERIES

2 Minimises vibration from various angles



Conventional models



VRV R SERIES

Energy Savings

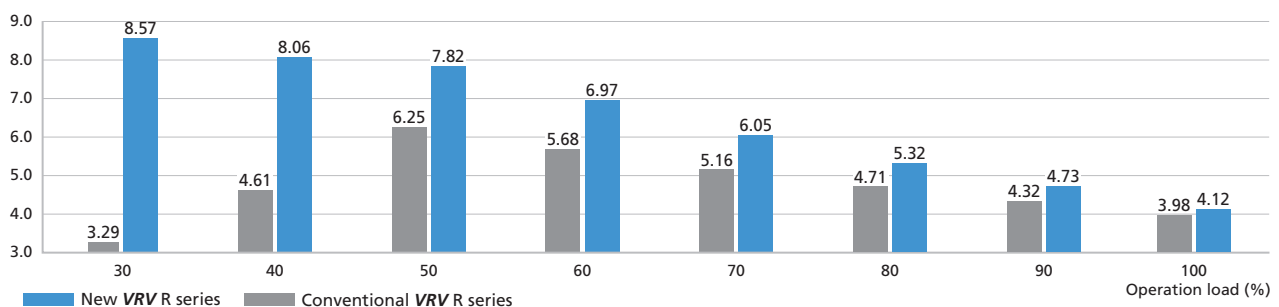
High Integrated Energy Efficiency Ratio EER (TCVN13256: 2021)*

Further improve energy efficiency during actual operation (low load), equipped with a new compressor and VRT Smart control

Outdoor unit	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP	22 HP	24 HP
EER (TCVN13256: 2021)	5.17	4.74	4.51	4.64	4.66	4.75	4.57	4.37	4.27

EER at low load factor are improved to achieve higher EER (TCVN13256: 2021)

EER (Rated: Cooling operation) for 10 HP model



What is EER (TCVN13256: 2021)?

According to TCVN13256: 2021 issued by the Ministry of Science and Technology of Vietnam, EER (Energy Efficiency Ratio) is the index to describe the energy saving levels of **VRV** system.

EER (TCVN13256: 2021) is calculated according to the following formula:

$$\text{EER (TCVN13256: 2021)} = 0.01 \times \frac{\phi_{100\%}}{P_{100\%}} + 0.42 \times \frac{\phi_{75\%}}{P_{75\%}} + 0.45 \times \frac{\phi_{50\%}}{P_{50\%}} + 0.12 \times \frac{\phi_{25\%}}{P_{25\%}}$$

$\phi n\%$: Cooling capacity at $n\%$ heat load (kW)

$P n\%$: Input power at $n\%$ heat load (kW)

Hardware technology

High Efficiency Compressor

New technologies increase seasonal efficiency and enable a compact design.



Improvement of the discharge port

By improving the shape of the refrigerant discharge port, the pressure increase near the discharge port of the gas refrigerant after compression is suppressed and the compression loss is reduced.

Optimising the back pressure control

New oil control function

In addition to the conventional intermediate pressure adjustment port, the pressing pressure of the orbiting scroll during operation has been optimised, and the newly adopted oil control mechanism has reduced gas leakage and mechanical loss.

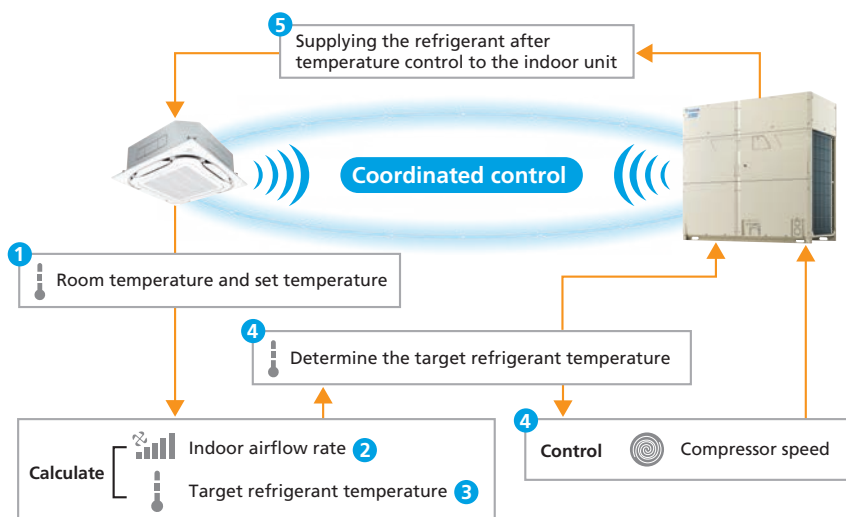
Adoption of a high-performance concentrated motor

By adopting it, the coil circumference is greatly reduced, which makes the coil denser and thicker, and the electrical resistance of the coil is dramatically reduced to improve motor efficiency. Furthermore, the motor is light-weighted and downsized.

Software technology VRT Smart control

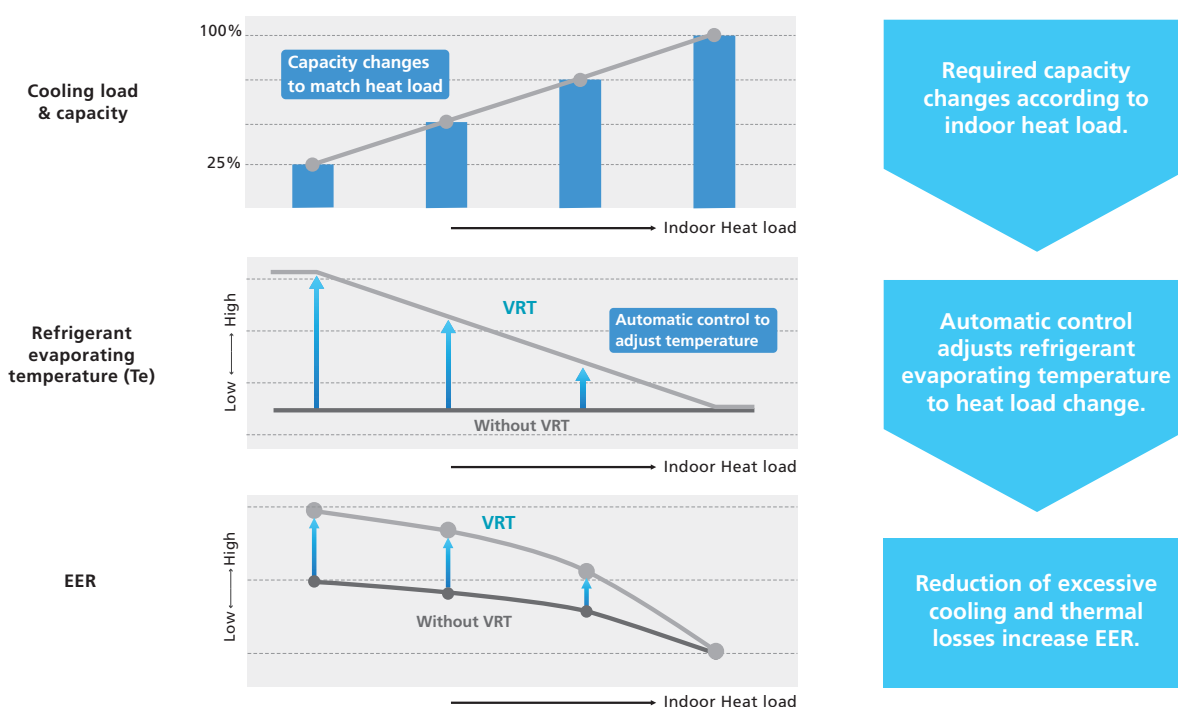
Fully Automatic Energy-saving Refrigerant Control

Optimal supply exactly meets the required capacity of indoor units



- 1 Indoor unit will calculate capacity needed based on ΔT (Room temperature vs set temperature) and room temperature trend.
- 2 Indoor unit will try to regulate with fan speed control.
- 3 If fan cannot control speed, indoor unit request T_e change from outdoor unit.
- 4 Outdoor unit determines the refrigerant temperature based on the demands, and controls the compressor to change the refrigerant temperature.
- 5 The outdoor unit supplies the refrigerant adjusted to moderate temperature to the indoor unit.

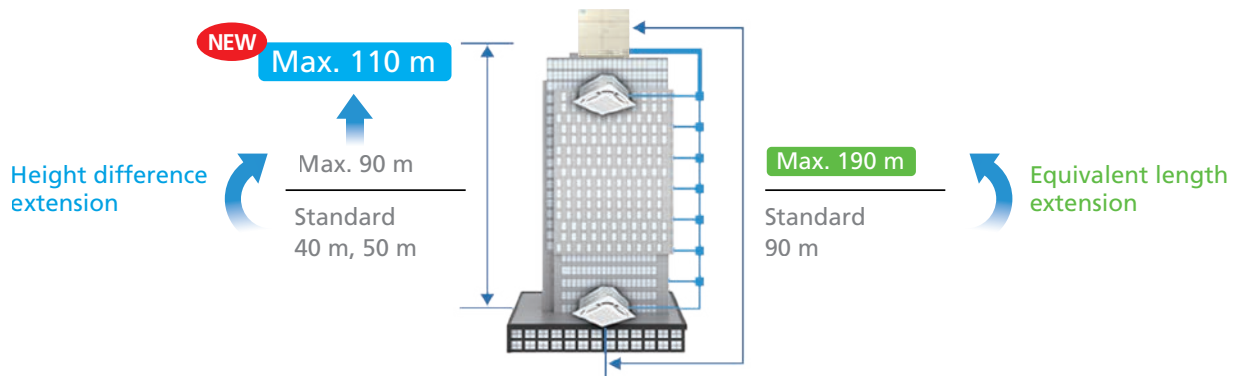
Greatly improved efficiency by adjusting the capacity by the refrigerant temperature



Design Flexibility

■ Simultaneous extension of height difference and equivalent length

Design flexibility is further improved by simultaneous extension of height difference, improved from 90 m to 110 m, and equivalent length (up to 190 m).



- **Height difference extension** Max. 110 m

For height differences exceeding 50 m with the outdoor unit above the indoor unit and 40 m with the outdoor unit below, the main piping liquid piping size must be increased.

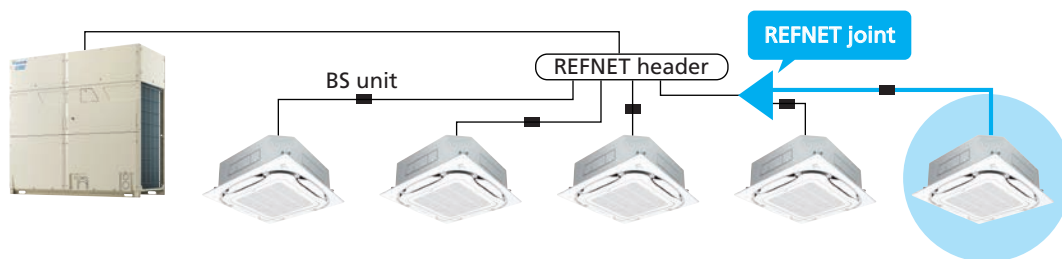
- **Equivalent length extension** Max. 190 m

When the equivalent piping length from outdoor unit to indoor unit is 90 m or more, be sure to increase the main piping liquid piping size.

* In addition to increasing the size of the main pipe, there are other piping restrictions regarding height difference extension and equivalent length extension. Check the Installation Manual for details.

■ REFNET header downstream branching supported

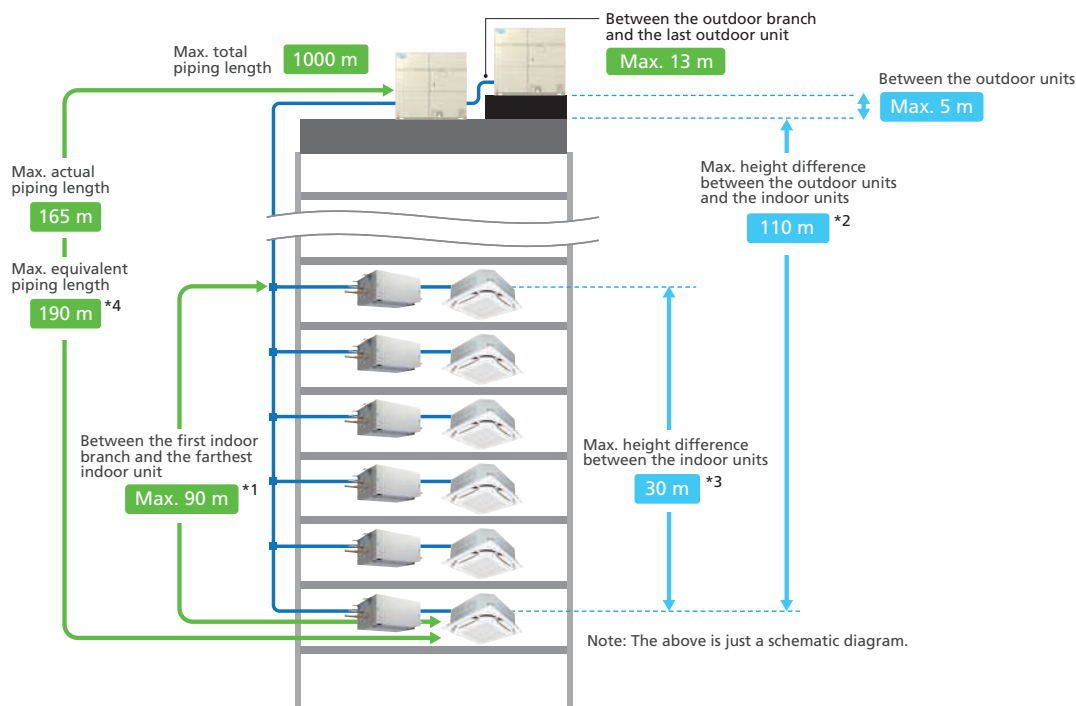
Piping branch by REFNET joint is possible downstream of REFNET header. The indoor unit arrangement can be more flexible.



REFNET header		Indoor unit total capacity at REFNET joint
3 pipes	2 pipes	
KHRP25M33H, KHRP25M72H + KHRP25M72TP	KHRP26M22H, KHRP26M33H, KHRP26M72H	< 50
KHRP25M73H + KHRP25M73TP	KHRP26M73H + KHRP26M73HP	≤ 140

Long piping length

Long piping length enhances design flexibility, enabling support for large buildings.



Maximum allowable piping length	Actual piping length (Equivalent)	165 m (190 m)* ⁴
	Total piping length	1000 m
	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)
Maximum allowable height difference	Between the outdoor units (Multiple use)	5 m
	Between the indoor units	30 m
	Between the outdoor units and the indoor units	110 m* ²

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

*2. When Height differences above 50 m if the outdoor unit is above the indoor unit and 40 m if the outdoor unit is below the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

*3. When Height differences are 15 m or more, maximum actual piping length must be 120 m.

*4. In the case where the equivalent piping length from outdoor unit to indoor unit ≥ 90 m, make sure to up size the liquid pipe of the main pipe. Do not up size the high/low pressure gas pipe and the suction gas pipe.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

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

Conditions of VRV indoor unit connection capacity

Applicable VRV indoor units	Indoor units			Other VRV indoor unit models* ¹
	FXSQ	FXDBQ	FXAQ	
	FXD(S)Q	FXMQ-PA	FXB(P)Q	
Single outdoor units	8 - 20 HP	200%		
	22, 24 HP			
Double outdoor units				
Triple outdoor units				
		180%		
		160%		
		130%		

*1 For the FXF(T)(R)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 35 for outdoor unit combination details.

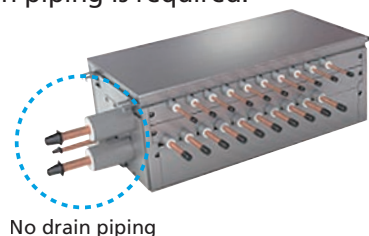
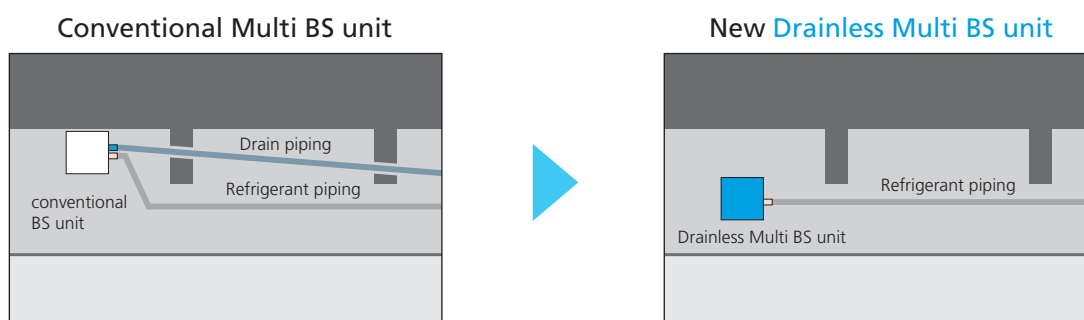
Easy Installation

Drainless Multi BS unit

Drainless function enables a drastic reduction of on-site work since no drain piping is required.

- Abundant lineup includes port counts of 4, 6, 8, 10, 12, and 16. *
- Drain is eliminated with the use of foam insulation inside the casing. On-site work has significantly been reduced for lower installation costs.

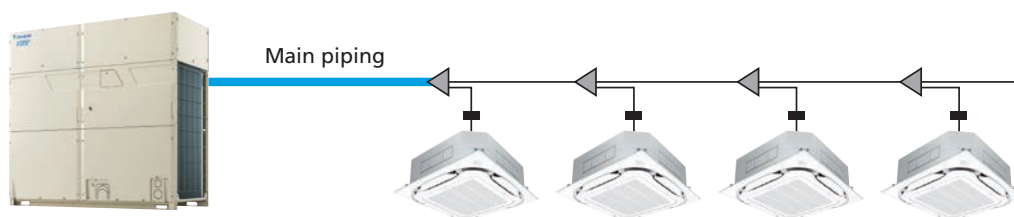
*Drainless function is available up to 12-port unit. The 16-port unit requires drain piping.



Since no drain piping is required, it can be installed flexibly, and installation costs can be significantly reduced.

Slimmer main piping

For 8-20 HP single models, it is possible to reduce the size of the main pipe to reduce the construction cost.



Slimmer high/low pressure gas piping and suction gas piping can be achieved as shown in the table below. *1

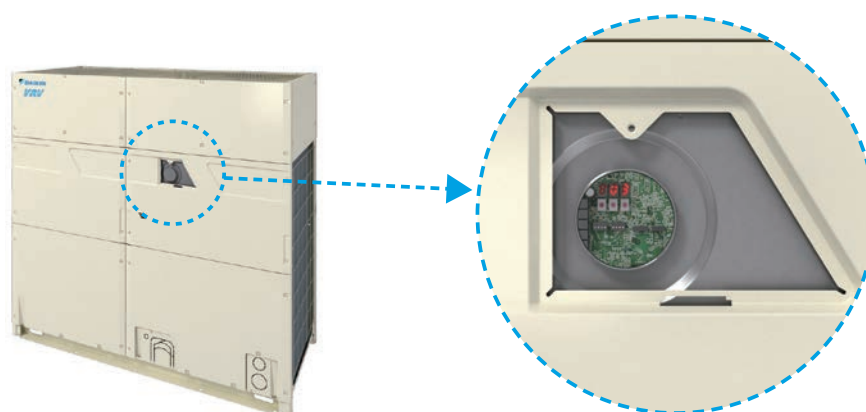
HP	Liquid piping	High/low pressure gas piping		Suction gas piping	
	Standard only	Standard	Reduced size	Standard	Reduced size
8	9.5	15.9	15.9	19.1	12.7
10		19.1	19.1	22.2	15.9
12	22.2			19.1	
14		22.2	19.1		28.6
16	22.2			22.2	
18		28.6	28.6		34.9
20	28.6			28.6	
22		28.6	28.6		34.9
24	28.6			28.6	

*1 There are the following restrictions.

- The size of the pipe downstream from the main pipe must not be larger than that of the main pipe.
- The total rated heating capacity of the indoor units shall not exceed the cooling capacity of the outdoor unit.
- Maximum equivalent piping length : 70 m
- In this case, a dedicated correction table is required for the capacity correction by piping length. Please contact local Daikin for details.

■ Electrical component service window

An electrical component service window is newly installed on the front panel. Main PCB 7-segment LED can be accessed without removing the front panel.

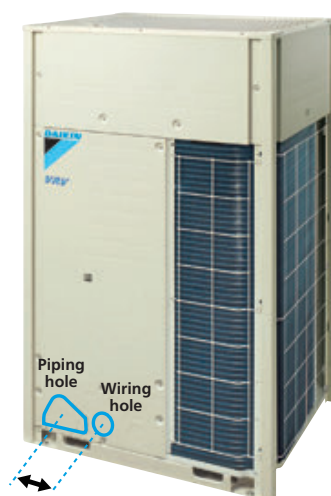


Workability is greatly improved during on-site setting or test run. You can also quickly check the error code during service.

■ Improved refrigerant piping workability

By dividing piping and wiring holes to the left and right, piping and wiring work can be easily performed on site.

Conventional models



Working in close placed is difficult

VRV R SERIES

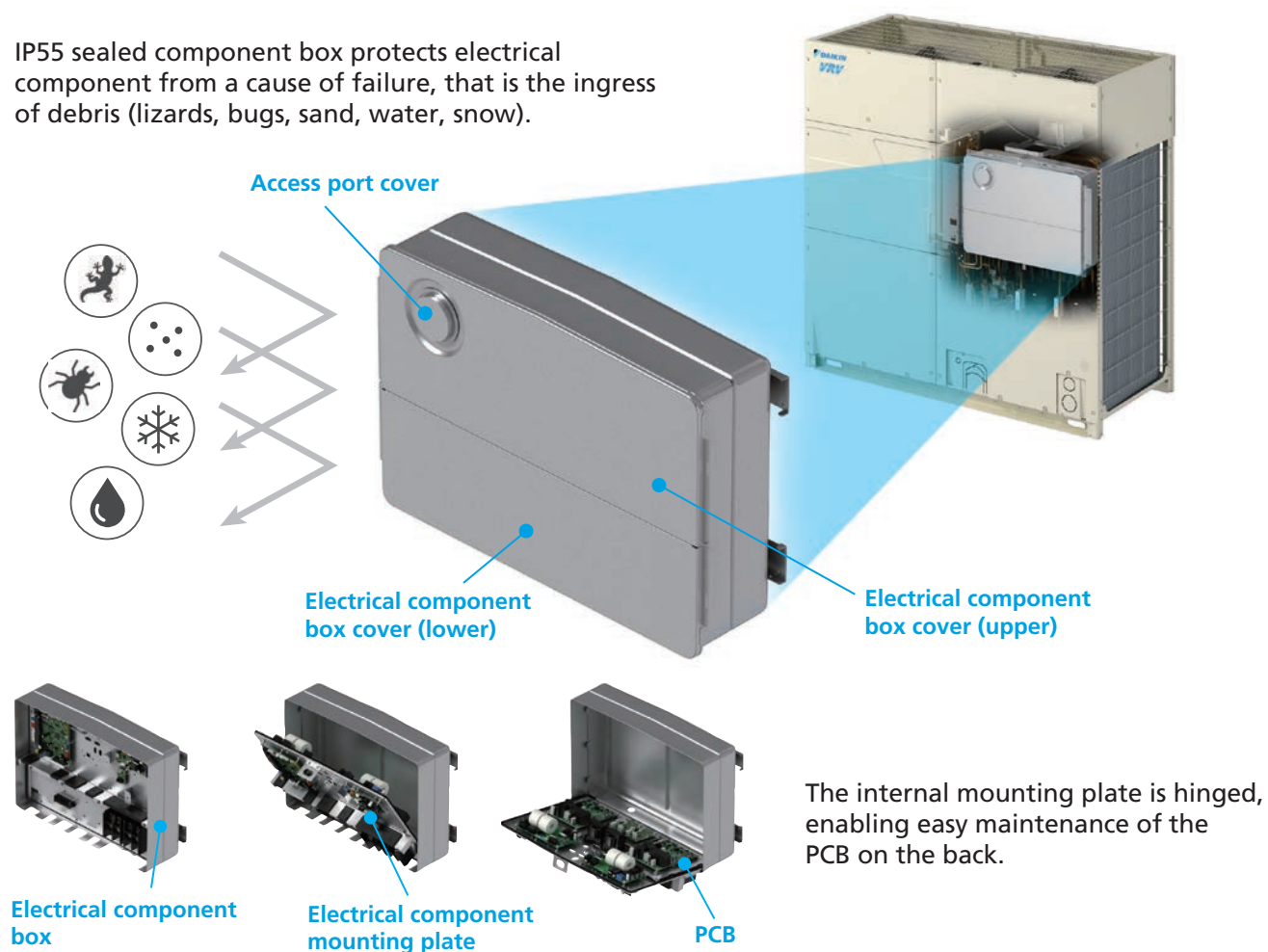


Work becomes easier with sufficient space

Reliability

■ IP55-compliant sealed component box

IP55 sealed component box protects electrical component from a cause of failure, that is the ingress of debris (lizards, bugs, sand, water, snow).



What is IP55?

IP55 is the degree of dust and water protection for the electrical component box equipped within the outdoor unit.

IP55

Liquid ingress protection **Grade 5**

Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.

Solid particle protection **Grade 5**

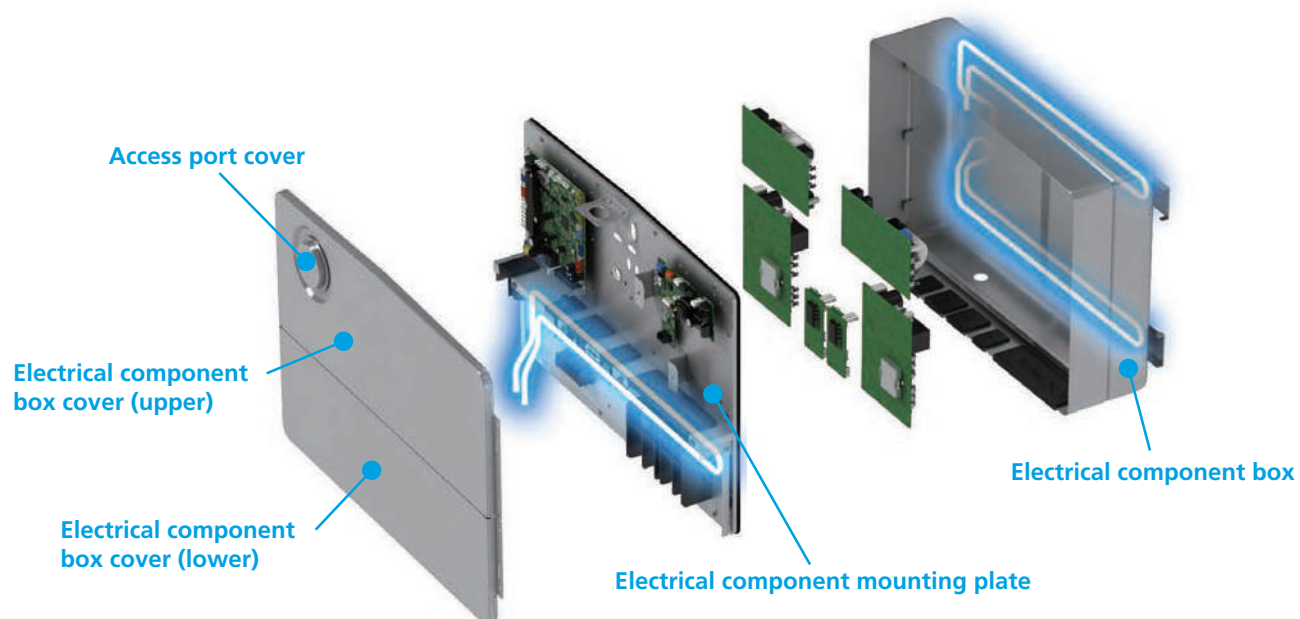
Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment.

Ingress Protection

*IP55 is the protection degree of the electrical component box installed inside the outdoor unit.
The protection grade of the outdoor unit is IP14 as well as the conventional model.

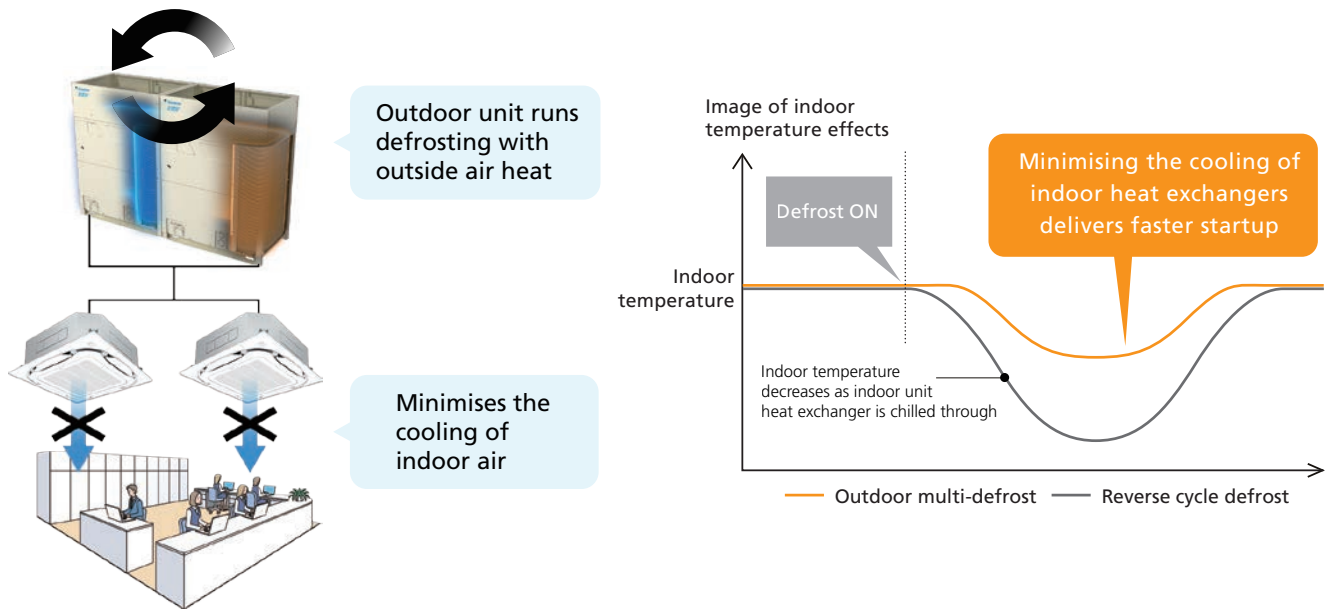
■ Enables operation in high outdoor temperature

Three refrigerant cooling circuits enable stable operation even in high outdoor temperatures by suppressing a temperature rise for the PCB mounted in the sealed electrical component box.



Comfort

Outdoor unit multi-defrost function

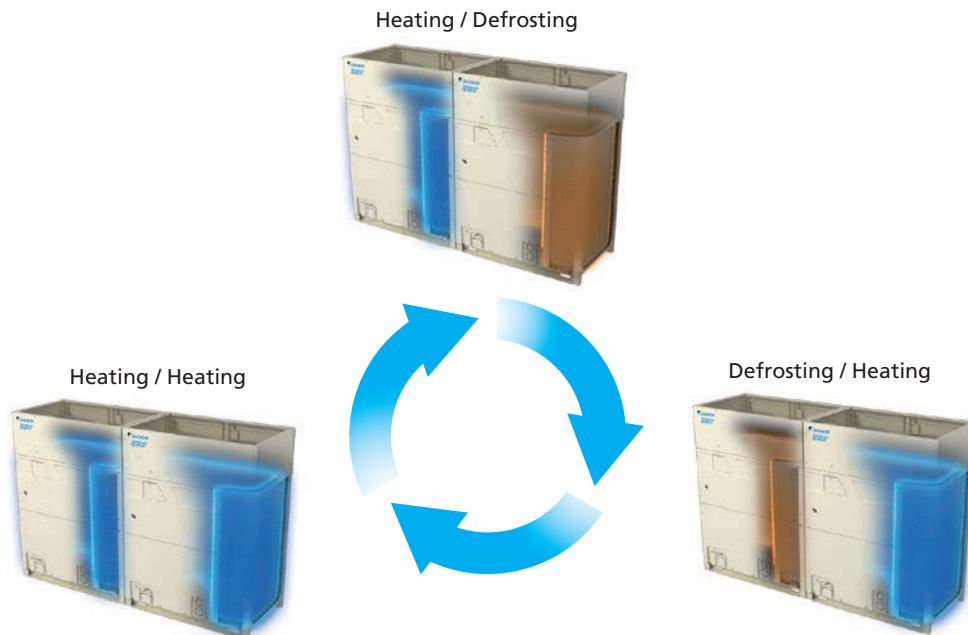


Improves comfort of defrosting operation

Defrosting in conventional models temporarily reverses the refrigerant cycle to use indoor heat to melt the frost, thus causing the indoor temperature to fall (reverse cycle defrost).

The "outdoor multi-defrost function" enables large-capacity casing models of 22 and 24 HP and multi outdoor units to use outdoor heat for heat exchange and interchange defrost operation while minimising indoor heat absorption and decreases in indoor temperature.

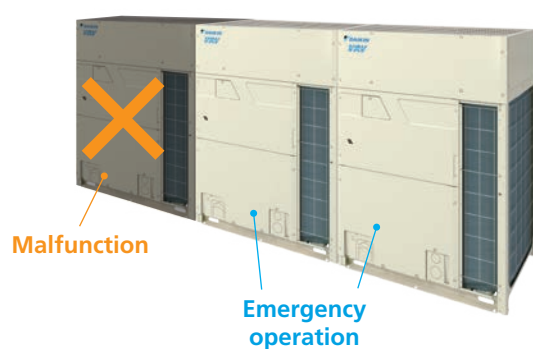
*Reverse cycle defrost may also take place to protect the product.



Double backup operation functions

Unit backup & Compressor backup ensure continuous operation.

Unit backup operation function

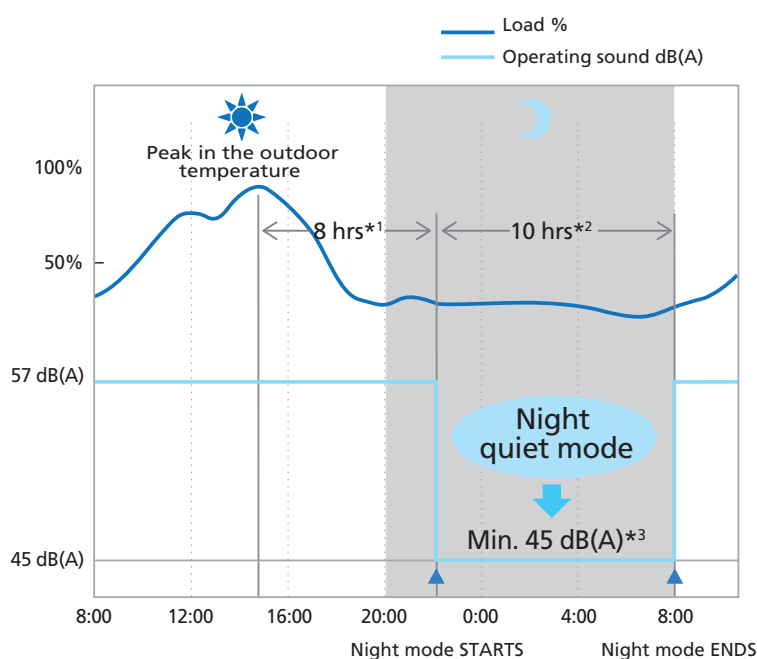


Compressor backup operation function



Nighttime quiet operation function

The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood. Three selectable modes are available depending on the required level.



*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.

Notes: • This function is available in setting at site.

• The operating sound in quiet operation mode is the actual value measured by our company.

• The relationship of outdoor temperature (load) and time shown above is just an example.

Outdoor Unit Lineup

VRV R Series

Capacity range from 8 to 60 HP

Lineup

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

Outdoor unit combinations

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
8	22.4	200	REYQ8B	REYQ8B	—	100 to 260 (400)	13 (20)
10	28.0	250	REYQ10B	REYQ10B	—	125 to 325 (500)	16 (25)
12	33.5	300	REYQ12B	REYQ12B	—	150 to 390 (600)	19 (30)
14	40.0	350	REYQ14B	REYQ14B	—	175 to 455 (700)	22 (35)
16	45.0	400	REYQ16B	REYQ16B	—	200 to 520 (800)	26 (40)
18	50.0	450	REYQ18B	REYQ18B	—	225 to 585 (900)	29 (45)
20	56.0	500	REYQ20B	REYQ20B	—	250 to 650 (1,000)	32 (50)
22	61.5	550	REYQ22B	REYQ22B	—	275 to 715 (990)	35 (49)
24	67.0	600	REYQ24B	REYQ24B	—	300 to 780 (1,080)	39 (54)
26	73.5	650	REYQ26B	REYQ12B + REYQ14B	BHFP26R135	325 to 845 (1,040)	42 (52)
28	78.5	700	REYQ28B	REYQ12B + REYQ16B		350 to 910 (1,120)	45 (56)
30	83.5	750	REYQ30B	REYQ12B + REYQ18B		375 to 975 (1,200)	48 (60)
32	89.5	800	REYQ32B	REYQ12B + REYQ20B		400 to 1,040 (1,280)	52 (64)
34	96.0	850	REYQ34B	REYQ14B + REYQ20B		425 to 1,105 (1,360)	55 (64)
36	101	900	REYQ36B	REYQ16B + REYQ20B		450 to 1,170 (1,440)	58 (64)
38	106	950	REYQ38B	REYQ18B + REYQ20B		475 to 1,235 (1,520)	61 (64)
40	112	1,000	REYQ40B	REYQ20B × 2		500 to 1,300 (1,600)	64 (64)
42	117	1,050	REYQ42B	REYQ18B + REYQ24B		525 to 1,365 (1,680)	
44	123	1,100	REYQ44B	REYQ20B + REYQ24B		550 to 1,430 (1,760)	
46	129	1,150	REYQ46B	REYQ22B + REYQ24B		575 to 1,495 (1,840)	
48	134	1,200	REYQ48B	REYQ24B × 2		600 to 1,560 (1,920)	
50	140	1,250	REYQ50B	REYQ12B + REYQ18B + REYQ20B	BHFP26R168	625 to 1,625 (1,625)	
52	146	1,300	REYQ52B	REYQ12B + REYQ20B × 2		650 to 1,690 (1,690)	
54	152	1,350	REYQ54B	REYQ14B + REYQ20B × 2		675 to 1,755 (1,755)	
56	157	1,400	REYQ56B	REYQ16B + REYQ20B × 2		700 to 1,820 (1,820)	
58	162	1,450	REYQ58B	REYQ18B + REYQ20B × 2		725 to 1,885 (1,885)	
60	168	1,500	REYQ60B	REYQ20B × 3		750 to 1,950 (1,950)	

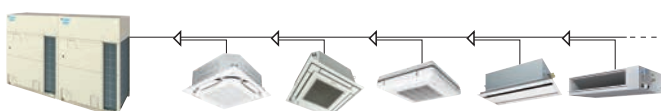
Notes: *1. For multiple connection of 26 HP systems and above, the outdoor unit multi connection piping kit (separately sold) is required.

*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for REYQ8-20BYM9, 180% for REYQ22/24BYM9, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 28 for note on connection capacity of indoor units.

Indoor Unit Lineup

Enhanced range of choices

				New lineup				VRT smart	Indoor units subject to VRT smart control								VRT		Indoor units subject to VRT control					
Category	Type	Model Name		Capacity Range		20	25	32	40	50	63	71	80	100	125	140	200	250	400	500				
				0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP						
				Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	500					
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM	VRT smart			●	●	●	●	●			●	●	●	●								
	Round Flow Cassette with Streamer	FXFRQ-AVM	VRT smart			●	●	●	●	●			●	●	●	●								
	Round Flow Cassette	FXFQ-AVM	VRT smart			●	●	●	●	●			●	●	●	●								
	Compact Multi Flow Cassette	FXZQ-BVM	VRT smart		●	●	●	●	●															
	Double Flow Cassette	FXCQ-BVM	VRT smart		●	●	●	●	●	●			●		●									
	Single Flow Cassette	FXEQ-AV36	VRT		●	●	●	●	●	●														
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM	VRT		●	●	●	●	●	●														
	Bedroom Duct	FXDBQ-AVM	VRT smart					●	●	●			●											
	Slim Duct (Standard)	FXDQ-PDVE	VRT smart		●	●	●																	
		FXDQ-NDVE	VRT smart					●	●	●														
	Slim Duct (Compact)	FXDQ-SPV1	VRT		●	●	●	●	●	●														
	Middle Static Pressure Duct	FXSQ-PAVE	VRT smart		●	●	●	●	●	●			●	●	●	●								
	Middle-High Static Pressure Duct	FXMQ-PAVE	VRT smart		●	●	●	●	●	●			●	●	●	●								
	High Static Pressure Duct	FXMQ-PVM	VRT smart														●	●						
	Outdoor-Air Processing Unit	FXMQ-MFV1													●		●	●						
		FXMQ-AFVM	VRT											●		●	●	●						
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB	VRT								●		●											
	Ceiling Suspended	FXHQ-MAVE	VRT				●			●			●											
		FXHQ-BVM	VRT											●	●									
New	Wall Mounted	FXAQ-BVM	VRT smart		●	●	●	●	●	●	●	●	●											
Floor Standing	Floor Standing	FXLQ-MAVE	VRT		●	●	●	●	●	●														
	Concealed Floor Standing	FXNQ-MAVE	VRT		●	●	●	●	●	●														
	Floor Standing Duct	FXVQ-NY1	VRT												●		●	●	●	●				
		FXVQ-NY16 (high static pressure type)	VRT																●					
Clean Room Air Conditioner		FXBQ-PVE	VRT					●	●	●														
		FXBPQ-PVE	VRT							●														
Heat Reclaim Ventilator with DX-Coil		VKM-GCVE			Airflow rate 500-950 m³/h																			
Heat Reclaim Ventilator		VAM-HVE			Airflow rate 150-2000 m³/h																			
Air Handling Unit		AHUR			6-120 HP																			



Max.
64 indoor units

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

Outdoor Units

VRV R Series

Specifications

										
Model			REYQ8BYM9	REYQ10BYM9	REYQ12BYM9	REYQ14BYM9	REYQ16BYM9	REYQ18BYM9	REYQ20BYM9	
Combination units			—	—	—	—	—	—	—	
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
Cooling capacity	Btu/h		76,400	95,500	114,000	136,000	154,000	171,000	191,000	
	kW		22.4	28.0	33.5	40.0	45.0	50.0	56.0	
Heating capacity	Btu/h		85,300	107,000	128,000	154,000	171,000	191,000	215,000	
	kW		25.0	31.5	37.5	45.0	50.0	56.0	63.0	
Power consumption	Cooling	kW	5.17	6.80	8.71	11.2	12.9	14.4	17.5	
	Heating	kW	5.68	7.29	9.81	12.8	13.6	14.5	17.2	
Capacity control		%	11-100	7-100		6-100	5-100		4-100	
EER (TCVN13256: 2021)			5.17	4.74	4.51	4.64	4.66	4.75	4.57	
Casing colour			Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically sealed scroll type							
	Motor output	kW	4.13	5.87	7.67	8.45	4.44+5.03	4.04+6.56	4.51+7.37	
Airflow rate		m³/min	155	169	181	260	266	258	306	
Dimensions (H×W×D)		mm	1,660×930×765			1,660×1,240×765				
Machine weight		kg	227	231	232	281	323	357		
Sound level		dB(A)	56	57	59	63	62	61	65	
Sound power		dB	80			83		85	89	
Operation range	Cooling	°CDB	-5 to 49							
	Heating	°CWB	-25 to 15.5							
Refrigerant	Type		R-410A							
	Charge	kg	10.6		10.9	11.7				
Piping connections	Liquid	mm	φ 9.5 (Brazing)		φ 12.7 (Brazing)			φ 15.9 (Brazing)		
	Gas	mm	φ 19.1 (Brazing)		φ 22.2 (Brazing)		φ 28.6 (Brazing)			
	High and low pressure gas	mm	φ 15.9 (Brazing)		φ 19.1 (Brazing)		φ 22.2 (Brazing)		φ 28.6 (Brazing)	

										
Model			REYQ34BYM9	REYQ36BYM9	REYQ38BYM9	REYQ40BYM9	REYQ42BYM9	REYQ44BYM9		
Combination units			REYQ14BYM9	REYQ16BYM9	REYQ18BYM9	REYQ20BYM9	REYQ18BYM9	REYQ20BYM9		
			REYQ20BYM9	REYQ20BYM9	REYQ20BYM9	REYQ20BYM9	REYQ24BYM9	REYQ24BYM9		
Power supply			—	—	—	—	—	—		
			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
Cooling capacity	Btu/h		328,000	345,000	362,000	382,000	399,000	420,000		
	kW		96.0	101	106	112	117	123		
Heating capacity	Btu/h		369,000	386,000	406,000	430,000	447,000	471,000		
	kW		108	113	119	126	131	138		
Power consumption	Cooling	kW	28.7	30.4	31.9	35.0	35.7	38.8		
	Heating	kW	30.0	30.8	31.7	34.4	36.7	39.4		
Capacity control		%	2-100							
EER (TCVN13256: 2021)			4.59	4.61	4.66	4.57	4.47	4.40		
Casing colour			Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically sealed scroll type							
	Motor output	kW	8.45+ (4.51+7.37)	(4.44+5.03)+ (4.51+7.37)	(4.04+6.56)+ (4.51+7.37)	(4.51+7.37)+ (4.51+7.37)	(4.04+6.56)+ (7.80+8.11)	(4.51+7.37)+ (7.80+8.11)		
Airflow rate		m³/min	260+306	266+306	258+306	306+306	258+430	306+430		
Dimensions (H×W×D)		mm	(1,660×1,240×765) + (1,660×1,240×765)				(1,660×1,240×765) + (1,660×1,750×765)			
Machine weight		kg	281+357	323+357	357+357		357+409			
Sound level		dB(A)	67		66	68	69	70		
Sound power		dB	90		90	92	91	93		
Operation range	Cooling	°CDB	-5 to 49							
	Heating	°CWB	-25 to 15.5							
Refrigerant	Type		R-410A							
	Charge	kg	11.7+11.7							
Piping connections	Liquid	mm	φ 19.1 (Brazing)							
	Gas	mm	φ 34.9 (Brazing)		φ 41.3 (Brazing)					
	High and low pressure gas	mm	φ 28.6 (Brazing)			φ 34.9 (Brazing)				

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.

*EER (TCVN13256: 2021)

According to TCVN13256: 2021 issued by the Ministry of Science and Technology of Vietnam, EER (Energy Efficiency Ratio) is the index to describe the energy saving levels of **VRV** system. EER (TCVN13256: 2021) is calculated according to the following formula:

$$EER (TCVN13256: 2021) = 0.01 \times \frac{\phi_{100\%}}{P_{100\%}} + 0.42 \times \frac{\phi_{75\%}}{P_{75\%}} + 0.45 \times \frac{\phi_{50\%}}{P_{50\%}} + 0.12 \times \frac{\phi_{25\%}}{P_{25\%}}$$

$\phi_n\%$: Cooling capacity at n% heat load (kW)

$P_n\%$: Input power at n% heat load (kW)

Heat Recovery

					
REYQ22BYM9	REYQ24BYM9	REYQ26BYM9	REYQ28BYM9	REYQ30BYM9	REYQ32BYM9
—	—	REYQ12BYM9	REYQ12BYM9	REYQ12BYM9	REYQ12BYM9
—	—	REYQ14BYM9	REYQ16BYM9	REYQ18BYM9	REYQ20BYM9
3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
210,000	229,000	251,000	268,000	285,000	305,000
61.5	67.0	73.5	78.5	83.5	89.5
235,000	256,000	282,000	299,000	319,000	345,000
69.0	75.0	82.5	87.5	93.5	101
18.6	21.3	19.9	21.6	23.1	26.2
19.6	22.2	22.6	23.4	24.3	27.3
	3-100			2-100	
4.37	4.27	4.57	4.59	4.65	4.54
Ivory white (5Y7.5/1)					
Hermetically sealed scroll type					
7.06+7.37	7.80+8.11	7.67+8.45	7.67+(4.44+5.03)	7.67+(4.04+6.56)	7.67+(4.51+7.37)
430		181+260	181+266	181+258	181+306
1,660×1,750×765		(1,660×930×765) + (1,660×1,240×765)			
409		232+281	232+323	232+357	232+357
67	68	64		63	66
90		86		87	90
-5 to 49					
-25 to 15.5					
R-410A					
11.7		10.9+11.7			
φ 15.9 (Brazing)		φ 19.1 (Brazing)			
φ 28.6 (Brazing)		φ 34.9 (Brazing)			
		φ 28.6 (Brazing)			

							
REYQ46BYM9	REYQ48BYM9	REYQ50BYM9	REYQ52BYM9	REYQ54BYM9	REYQ56BYM9	REYQ58BYM9	REYQ60BYM9
REYQ22BYM9	REYQ24BYM9	REYQ12BYM9	REYQ12BYM9	REYQ14BYM9	REYQ16BYM9	REYQ18BYM9	REYQ20BYM9
REYQ24BYM9	REYQ24BYM9	REYQ18BYM9	REYQ20BYM9	REYQ20BYM9	REYQ20BYM9	REYQ20BYM9	REYQ20BYM9
—	—	REYQ20BYM9	REYQ20BYM9	REYQ20BYM9	REYQ20BYM9	REYQ20BYM9	REYQ20BYM9
3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
440,000	457,000	478,000	498,000	519,000	536,000	553,000	573,000
129	134	140	146	152	157	162	168
491,000	512,000	536,000	560,000	583,000	601,000	621,000	645,000
144	150	157	164	171	176	182	189
40.2	42.6	40.9	44.0	46.2	47.9	49.4	52.5
41.8	44.4	41.8	44.5	47.2	48.0	48.9	51.6
		2-100					
4.32	4.27	4.61	4.55	4.59	4.60	4.62	4.57
Ivory white (5Y7.5/1)							
Hermetically sealed scroll type							
(7.06+7.37)+ (7.80+8.11)	(7.80+8.11)+ (7.80+8.11)	7.67+(4.04+6.56)+ (4.51+7.37)	7.67+(4.51+7.37)+ (4.51+7.37)	8.45+(4.51+7.37)+ (4.51+7.37)	(4.44+5.03)+ (4.51+7.37)+ (4.51+7.37)	(4.04+6.56)+ (4.51+7.37)+ (4.51+7.37)	(4.51+7.37)+ (4.51+7.37)+ (4.51+7.37)
430+430		181+258+306	181+306+306	260+306+306	266+306+306	258+306+306	306+306+306
(1,660×1,750×765) + (1,660×1,750×765)		(1,660×930×765) + (1,660×1,240×765) + (1,660×1,240×765)		(1,660×1,240×765) + (1,660×1,240×765) + (1,660×1,240×765)			
409+409		232+357+357		281+357+357	323+357+357	357+357+357	
71		67		69			70
93		91		93			94
-5 to 49							
-25 to 15.5							
R-410A							
11.7+11.7		10.9+11.7+11.7		11.7+11.7+11.7			
φ 19.1 (Brazing)							
φ 41.3 (Brazing)							
φ 34.9 (Brazing)							

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

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

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

VRV H SERIES

Significant Improvement in Total Performance



Promotion Movie

Heat Pump
8 HP—60 HP
(22.4 kW) (168 kW)



Single outdoor units
RXYQ8-24BYM

Double outdoor units
RXYQ26-48BYM

Triple outdoor units
RXYQ50-60BYM

Offers a wide variety of new functions that benefit everyone involved.

VRV H series enables cooling and heating operation with a single **VRV** system.

VRV H series adopt a new casing to realise a single module of up to 24 HP. In addition, the new models have achieved significant energy savings with improved technology. The operating performance has been improved in all directions by introducing unique ideas, technologies and a wide variety of functions to strengthen design flexibility, easy installation and reliability.

We provide higher benefits to various users related to air conditioning systems, for example, building owners, consultants, installers and even building managers.



New Casing

Offers advanced design and new structure with excellent workability.
The larger single module casing reduces installation cost and space also.

8, 10, 12 HP



RXYQ8BYM RXYQ12BYM
RXYQ10BYM

14, 16, 18, 20 HP



RXYQ14BYM RXYQ18BYM
RXYQ16BYM RXYQ20BYM

22, 24 HP



RXYQ22BYM
RXYQ24BYM

Outdoor unit combination

System capacity		Number of units	Single module (HP)								
HP	kW		8	10	12	14	16	18	20	22	24
8	22.4	Single	●								
10	28.0			●							
12	33.5				●						
14	40.0					●					
16	45.0						●				
18	50.0							●			
20	56.0								●		
22	61.5									●	
24	67.0										●
26	73.5	Double			●	●					
28	78.5				●		●				
30	83.5				●			●			
32	89.5				●				●		
34	96.0					●			●		
36	101						●		●		
38	106							●	●		
40	112								●●		
42	117								●	●	
44	123								●		●
46	128									●	●
48	134										●●
50	139	Triple			●			●	●		
52	145				●				●●●		
54	152					●			●●		
56	157						●		●●		
58	162							●	●●		
60	168								●●●●		

Large-capacity single module

Single module reduces installation space

Conventional models

VRV H SERIES

22, 24 HP



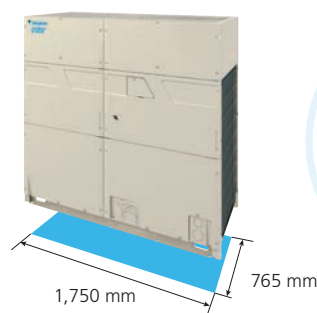
Installation space **1.44 m²**

Machine weight **400 kg**

New models

VRV H SERIES

22, 24 HP



Installation space

7% less

Machine weight

4% less

Installation space **1.34 m²**

Machine weight **385 kg**

New reinforced design

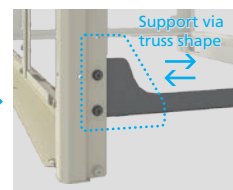
The frame structure has been strengthened to improve resistance to earthquakes and wind while protecting against falling damage.



1 Minimises horizontal wobbling

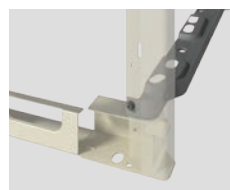


Conventional models

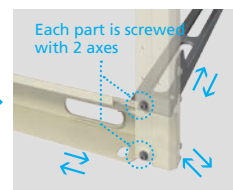


VRV H SERIES

2 Minimises vibration from various angles



Conventional models



VRV H SERIES

Energy Savings

■ High Integrated Energy Efficiency Ratio EER (TCVN13256: 2021)*

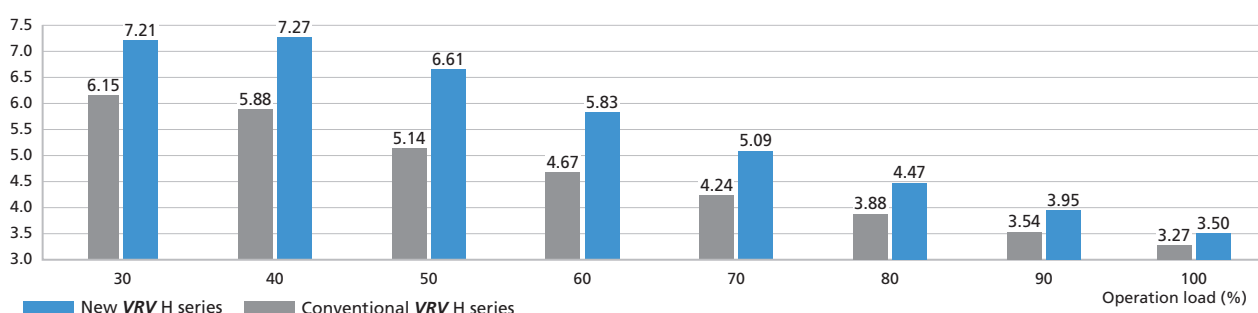
Further improve energy efficiency during actual operation (low load), equipped with a new compressor and VRT Smart II control

Outdoor unit	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP	22 HP	24 HP
EER (TCVN13256: 2021)	5.45	5.11	4.75	4.85	4.74	4.88	4.71	4.53	4.46

*Achieve about 6% improvement on average, compared to the conventional model

EER at low load factor are improved to achieve higher EER (TCVN13256: 2021)

EER (Rated: Cooling operation) for 18 HP model



What is EER (TCVN13256: 2021)?

According to TCVN13256: 2021 issued by the Ministry of Science and Technology of Vietnam, EER (Energy Efficiency Ratio) is the index to describe the energy saving levels of **VRV** system.

EER (TCVN13256: 2021) is calculated according to the following formula:

$$\text{EER (TCVN13256: 2021)} = 0.01 \times \frac{\phi_{100\%}}{P_{100\%}} + 0.42 \times \frac{\phi_{75\%}}{P_{75\%}} + 0.45 \times \frac{\phi_{50\%}}{P_{50\%}} + 0.12 \times \frac{\phi_{25\%}}{P_{25\%}}$$

$\phi n\%$: Cooling capacity at $n\%$ heat load (kW)

$P n\%$: Input power at $n\%$ heat load (kW)

Hardware technology

High Efficiency Compressor

New technologies increase seasonal efficiency and enable a compact design.



Improvement of the discharge port

By improving the shape of the refrigerant discharge port, the pressure increase near the discharge port of the gas refrigerant after compression is suppressed and the compression loss is reduced.

Optimising the back pressure control / New oil control function

In addition to the conventional intermediate pressure adjustment port, the pressing pressure of the orbiting scroll during operation has been optimised, and the newly adopted oil control mechanism has reduced gas leakage and mechanical loss.

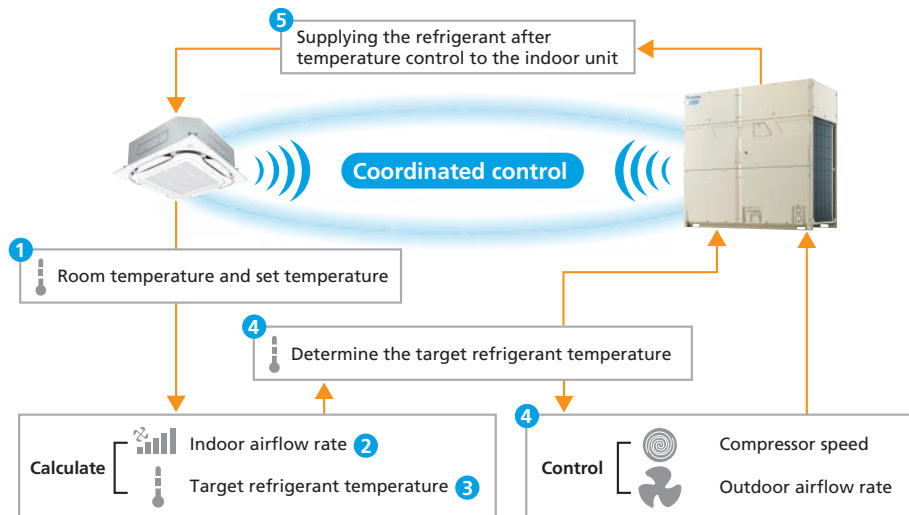
Adoption of a high-performance concentrated motor

By adopting it, the coil circumference is greatly reduced, which makes the coil denser and thicker, and the electrical resistance of the coil is dramatically reduced to improve motor efficiency. Furthermore, the motor is light-weighted and downsized.

Software technology VRT Smart II control

Further improvement of energy savings is achieved due to optimal control of the outdoor airflow rate.

Optimal supply exactly meets the required capacity of indoor units

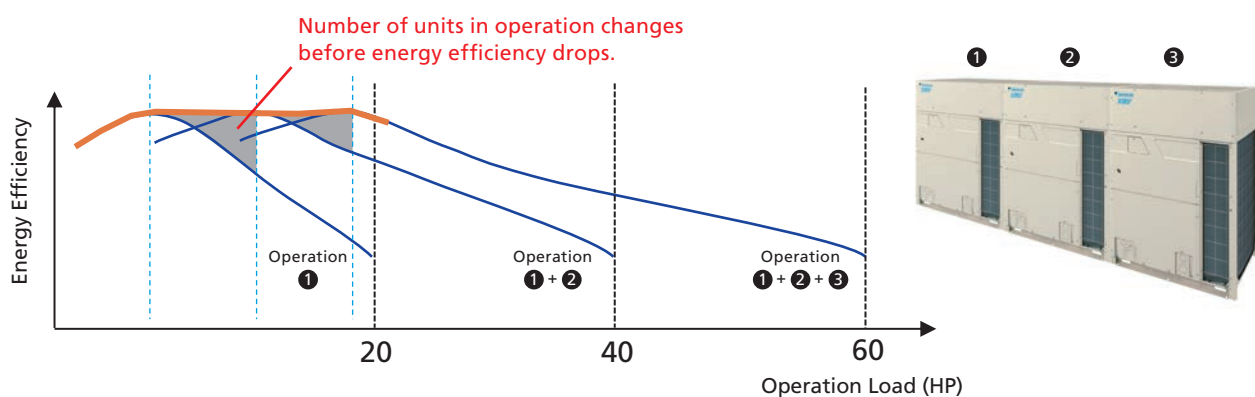


- Indoor unit will calculate capacity needed based on ΔT (Room temperature vs set temperature) and room temperature trend.
- Indoor unit will try to regulate with fan speed control.
- If fan cannot control speed, indoor unit request T_e change from outdoor unit.
- Outdoor unit determines the refrigerant temperature based on the demands, and controls the compressor speed and outdoor airflow rate to change the refrigerant temperature.
- The outdoor unit supplies the refrigerant adjusted to moderate temperature to the indoor unit.

Optimal operating unit number in multi-system

- In outdoor multi-systems, the number of units operated is automatically controlled to ensure the best total efficiency according to the air-conditioning load.
- As the operating efficiency at low loads has been dramatically improved, the system controls each unit automatically in order to maintain operation at a lower load, operating at the highest possible efficiency.

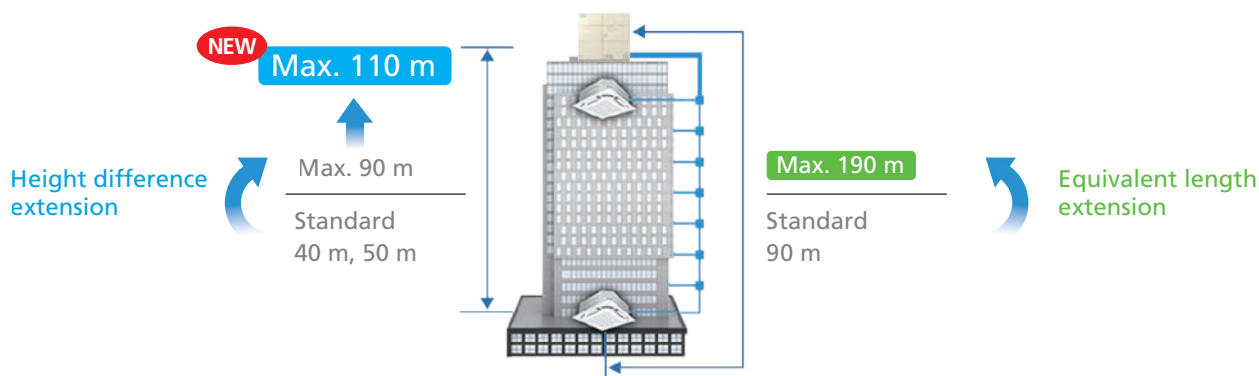
Overview of multi-unit control for triple units (60 HP)



Design Flexibility

■ Simultaneous extension of height difference and equivalent length

Design flexibility is further improved by simultaneous extension of height difference, improved from 90 m to 110 m, and equivalent length (up to 190 m).



• Height difference extension **Max. 110 m**

For height differences exceeding 50 m with the outdoor unit above the indoor unit and 40 m with the outdoor unit below, the main liquid piping size must be increased.

The operating temperature range is up to 49°C (Outdoor units above indoor units only).

The minimum connection capacity index of the indoor unit shall be 62.5 (7.1 kW) or more (Outdoor units above indoor units only).

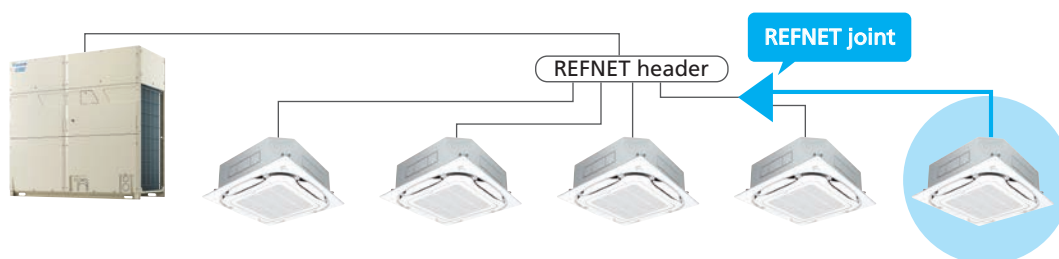
• Equivalent length **Max. 190 m**

When the equivalent piping length from outdoor unit to indoor unit is 90 m or more, be sure to increase the size of the liquid and gas pipes of the main piping.

* In addition to increasing the size of the main pipe, there are other piping restrictions regarding height difference extension and equivalent length. Check the Installation Manual for details.

■ REFNET header downstream branching supported

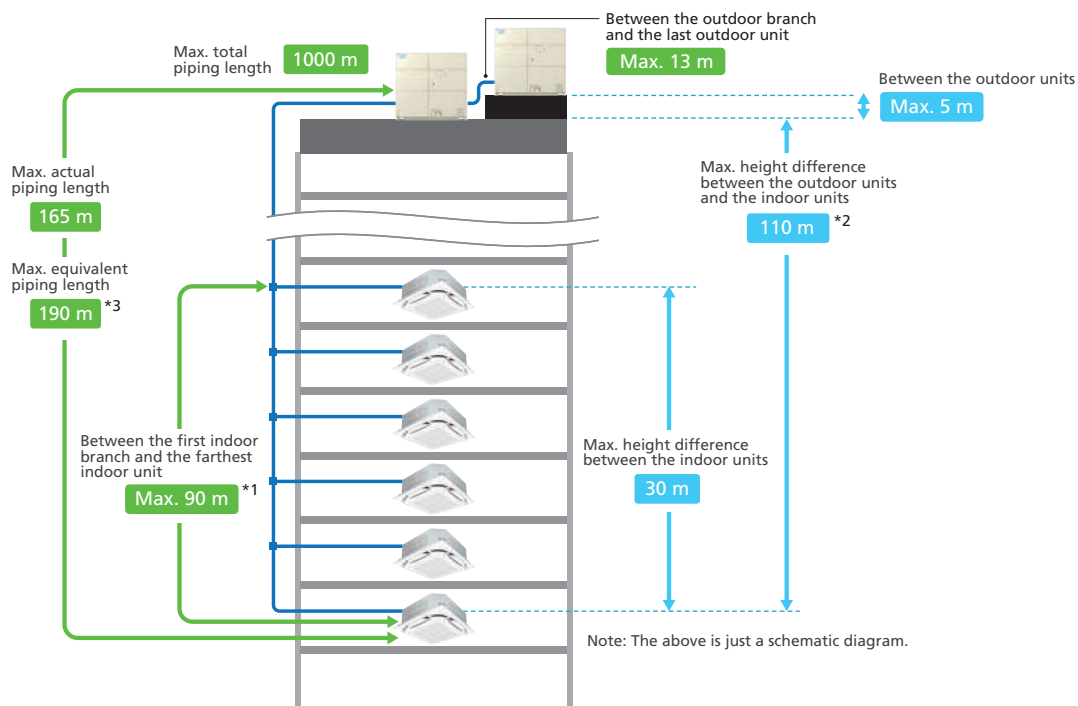
Piping branch by REFNET joint is possible downstream of REFNET header. The indoor unit arrangement can be more flexible.



REFNET header	Indoor unit total capacity at REFNET joint
KHRP26M22H, KHRP26M33H, KHRP26M72H	< 50
KHRP26M73H + KHRP26M73HP	≤ 140

Long piping length

Long piping length enhances design flexibility, enabling support for large buildings



Maximum allowable piping length	Actual piping length (Equivalent)	165 m (190 m) ^{*3}
	Total piping length	1000 m
	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)
Maximum allowable height difference	Between the outdoor units (Multiple use)	5 m
	Between the indoor units	30 m
	Between the outdoor units and the indoor units	110 m ^{*2}

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

*2. When Height differences above 50 m if the outdoor unit is above the indoor unit and 40 m if the outdoor unit is below the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

*3. If equivalent piping length from outdoor unit to indoor unit is 90 m or more, make sure to size up the liquid and gas pipes of the main piping.

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

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

Conditions of **VRV** indoor unit connection capacity

Applicable VRV indoor units	Indoor units			Other VRV indoor unit models ^{*1}
	 FXSQ	 FXDBQ	 FXAQ	
	 FXD(S)Q	 FXMQ-PA	 FXB(P)Q	
Single outdoor units	200%			200%
8 - 20 HP				180%
22, 24 HP				160%
Double outdoor units				130%
Triple outdoor units				

*1 For the FXF(T)(R)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 53 for outdoor unit combination details.

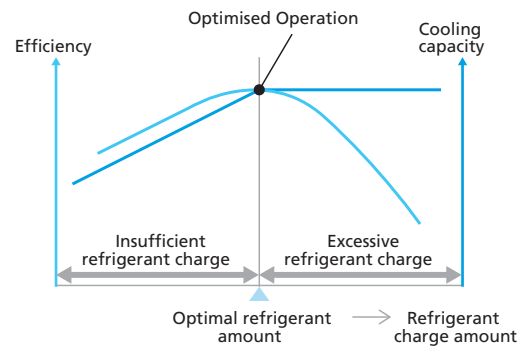
Easy Installation

Automatic refrigerant charge function

Contribute to optimised operation efficiency, higher quality and easier installation.

Optimised operation efficiency

This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



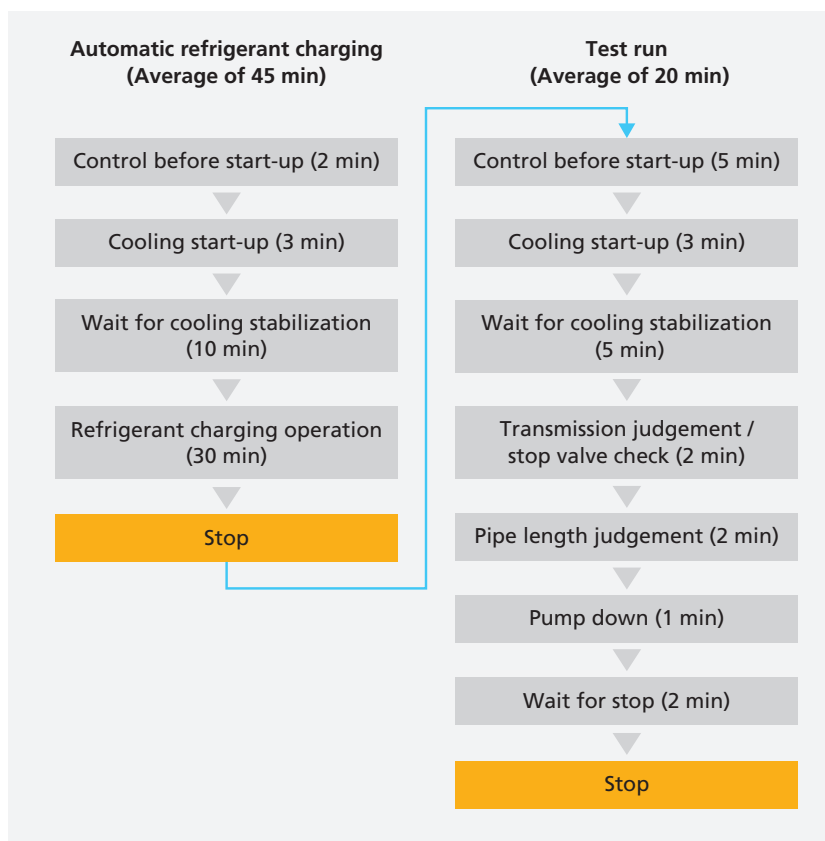
Reduced time for automatic charging operation

By designing optimal control, the average time has been shortened by 22% (14 min), and the number of on-site operations has been reduced.

Conventional models

Test run is performed after automatic refrigerant charging is finished

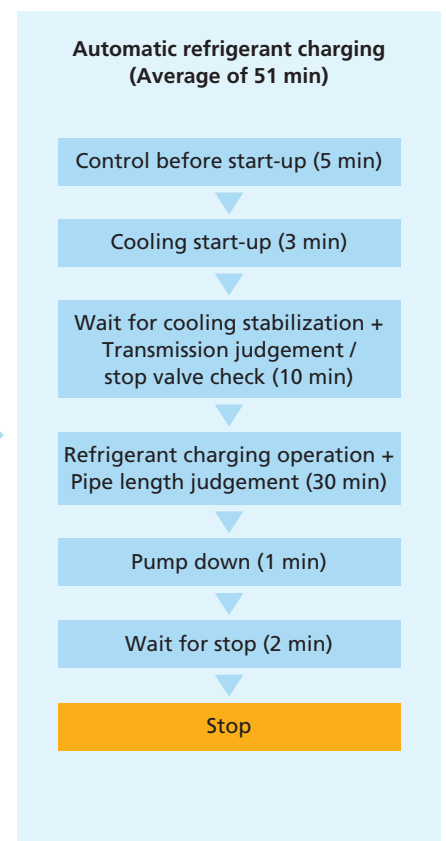
Total of 11 steps, PCB setting: 5 times
Total time: Average of 65 min



New models

Automatic refrigerant charging and test run are performed at the same time

Reduction to 6 steps, PCB setting: 3 times
Total time: Average of 51 min



■ Process visualization (Test run only*)

In the new models, in addition to the actual step (t01 to t10), a progress rate (0% to 99%) is available as a guideline when making arrangements for on-site work.

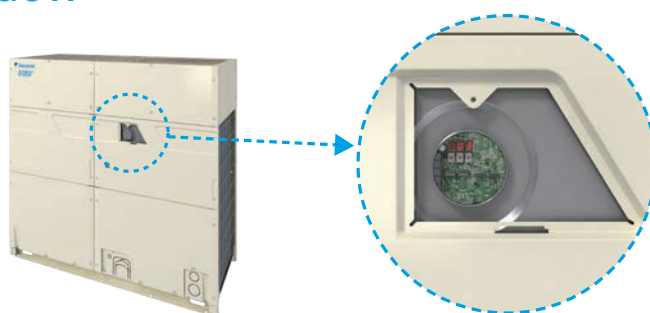
* Effective when test run is carried out independently after manual refrigerant charging.



■ Electrical component service window

An electrical component service window is newly installed on the front panel. Main PCB 7-segment LED can be accessed without removing the front panel.

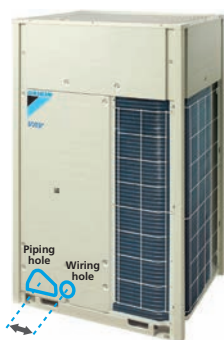
Workability is greatly improved during on-site setting or test run. You can also quickly check the error code during service.



■ Improved refrigerant piping workability

By dividing piping and wiring holes to the left and right, piping and wiring work can be easily performed on site.

Conventional models



Working in closed place is difficult

VRV H SERIES

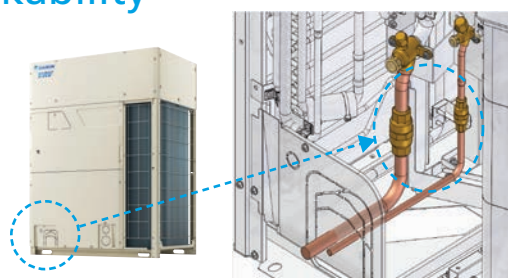


Work becomes easier with sufficient space

■ Improved by TIGHTFIT connection workability for VRV 6 series in outdoor unit

See page 278

By changing the connection method of refrigerant piping from brazing to TIGHTFIT (Daikin Gas Tight Joint) connection, construction is simplified and installation quality is improved.

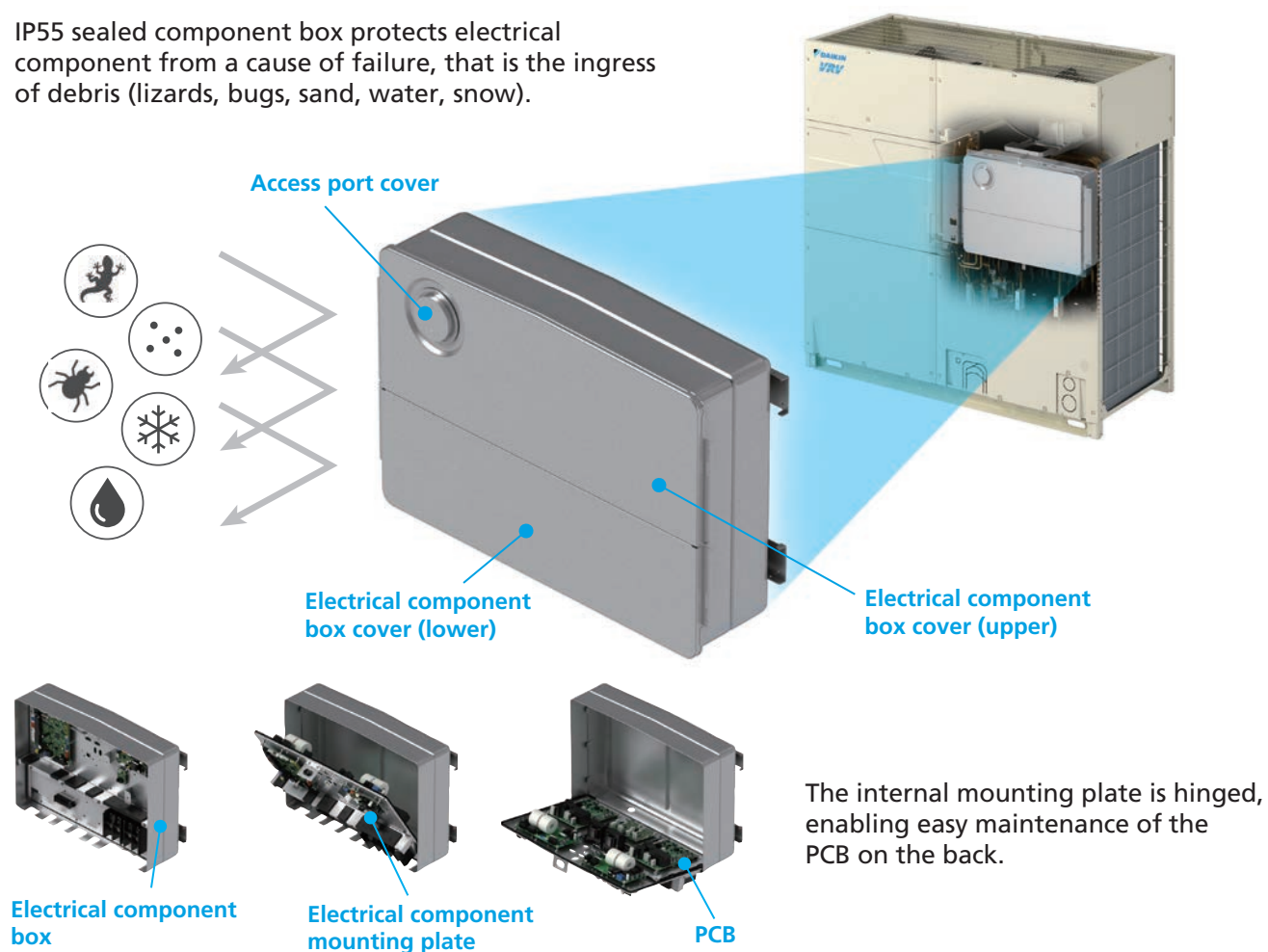


TIGHTFIT (Daikin Gas Tight Joint)

Reliability

■ IP55-compliant sealed component box

IP55 sealed component box protects electrical component from a cause of failure, that is the ingress of debris (lizards, bugs, sand, water, snow).



What is IP55?

IP55 is the degree of dust and water protection for the electrical component box equipped within the outdoor unit.

IP55

Liquid ingress protection **Grade 5**

Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.

Solid particle protection **Grade 5**

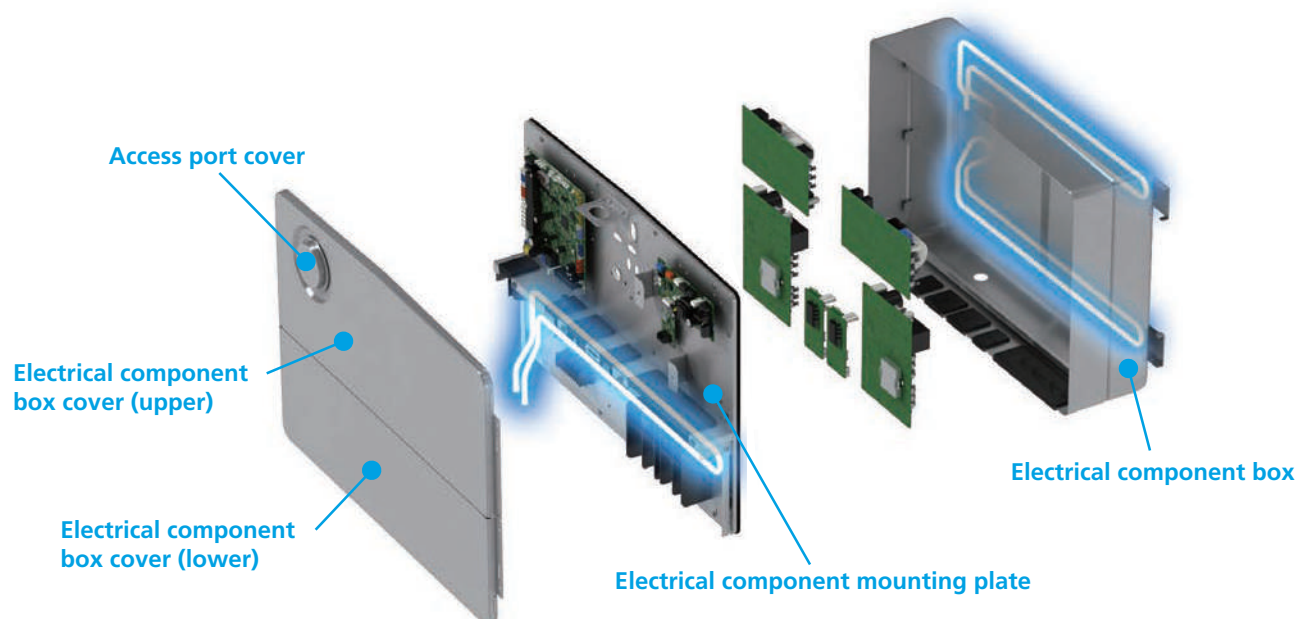
Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment.

Ingress Protection

*IP55 is the protection degree of the electrical component box installed inside the outdoor unit.
The protection grade of the outdoor unit is IP14 as well as the conventional model.

■ Enables operation in high outdoor temperature

Three refrigerant cooling circuits enable stable operation even in high outdoor temperatures by suppressing a temperature rise for the PCB mounted in the sealed electrical component box.

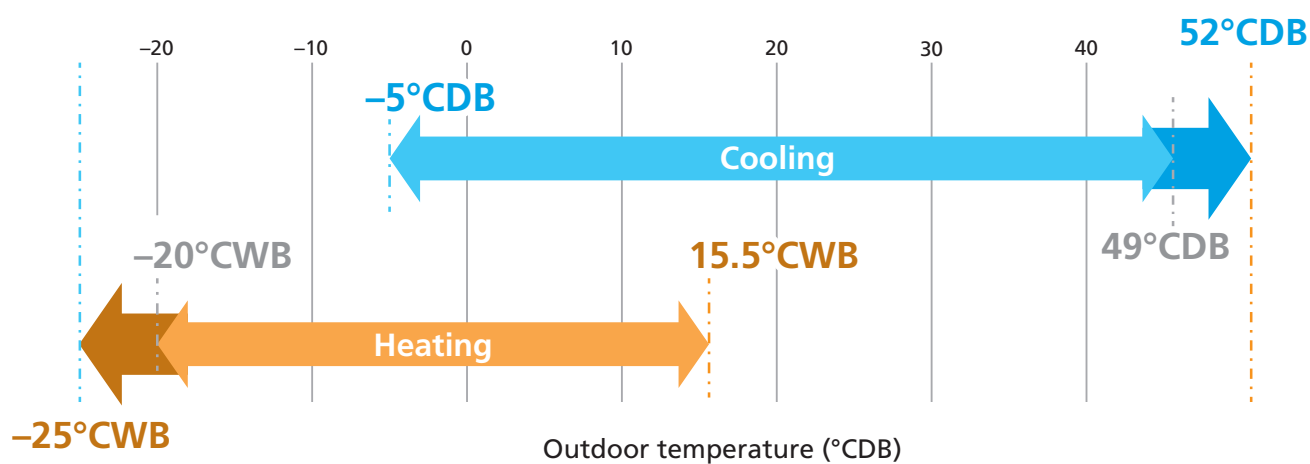


■ Extended operation temperature range

Operation is now possible on a wider range of outdoor temperatures.

Upper limit up to 52°CDB in Cooling mode

Lower limit down to -25°CWB in Heating mode

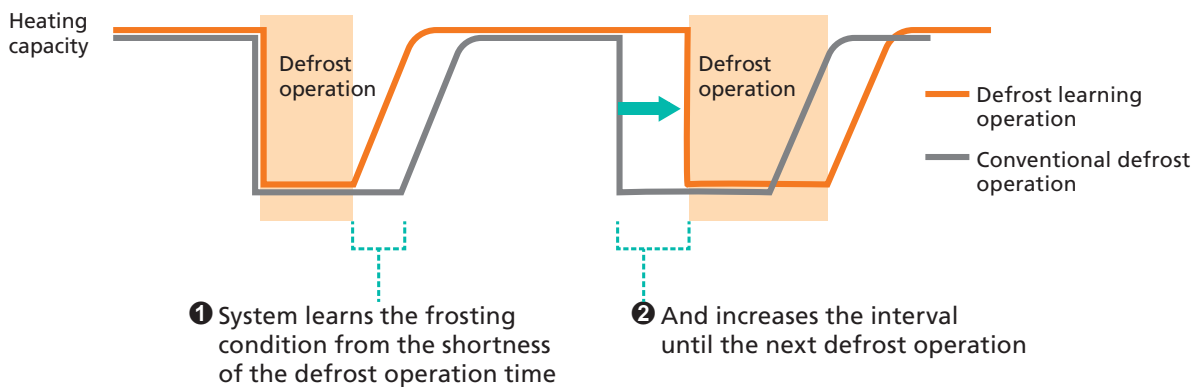


Comfort

■ Defrost learning function

If defrost operation time is short, the system will optimise defrost start conditions for the next cycle, Improving comfort by extending the heating operation time.

Heating operation time improved by up to 10%!

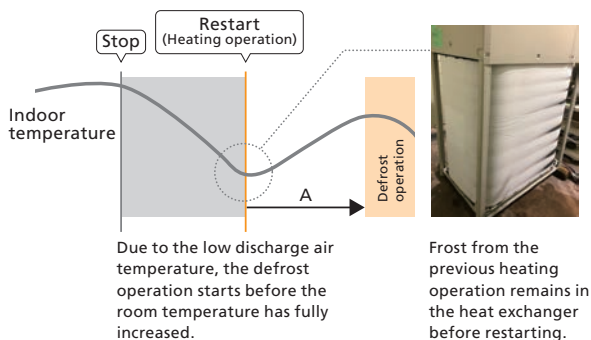


■ Defrost before stop

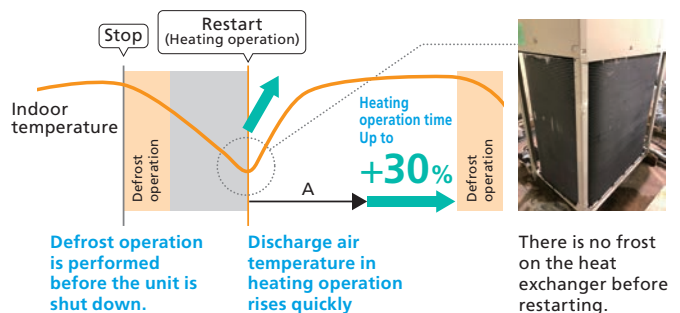
Defrost operation before the equipment is shut down speeds up the increase of discharge air temperature of the next heating operation, and extends the continuous heating operation time after restarting, thereby improving comfort.

Heating operation time is improved by up to 30%!

Conventional defrost operation



Defrost before stop

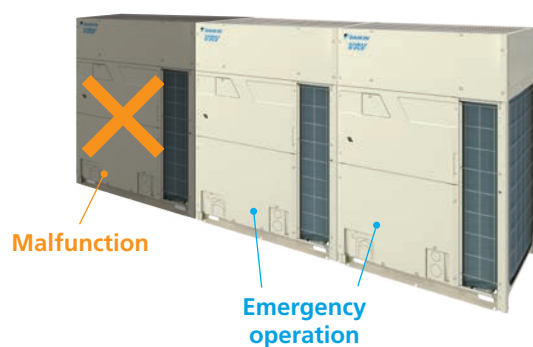


* Conditions for effectiveness estimation : Outdoor air temperature 2°C
Round flow cassette with sensing operating at 100% capacity

Double backup operation functions

Unit backup & Compressor backup ensure continuous operation.

Unit backup operation function

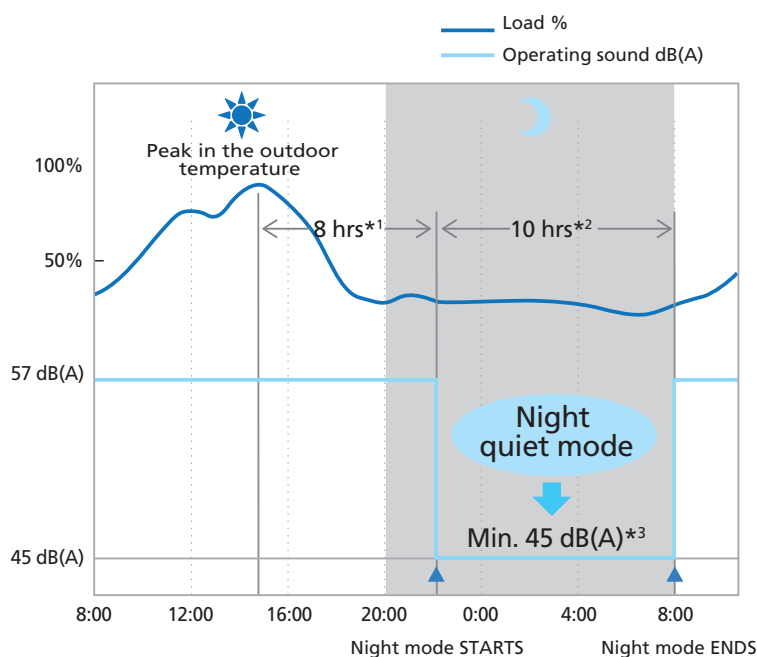


Compressor backup operation function



Nighttime quiet operation function

The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood. Three selectable modes are available depending on the required level.



*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.

Notes: • This function is available in setting at site.

• The operating sound in quiet operation mode is the actual value measured by our company.

• The relationship of outdoor temperature (load) and time shown above is just an example.

Outdoor Unit Lineup

VRV H Series

Capacity range from 8 to 60 HP

Lineup

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

Outdoor unit combinations

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
8	22.4	200	RXYQ8B	RXYQ8B	—	100 to 260 (400)	13 (20)
10	28.0	250	RXYQ10B	RXYQ10B	—	125 to 325 (500)	16 (25)
12	33.5	300	RXYQ12B	RXYQ12B	—	150 to 390 (600)	19 (30)
14	40.0	350	RXYQ14B	RXYQ14B	—	175 to 455 (700)	22 (35)
16	45.0	400	RXYQ16B	RXYQ16B	—	200 to 520 (800)	26 (40)
18	50.0	450	RXYQ18B	RXYQ18B	—	225 to 585 (900)	29 (45)
20	56.0	500	RXYQ20B	RXYQ20B	—	250 to 650 (1,000)	32 (50)
22	61.5	550	RXYQ22B	RXYQ22B	—	275 to 715 (990)	35 (49)
24	67.0	600	RXYQ24B	RXYQ24B	—	300 to 780 (1,080)	39 (54)
26	73.5	650	RXYQ26B	RXYQ12B + RXYQ14B	BHFP22R135	325 to 845 (1,040)	42 (52)
28	78.5	700	RXYQ28B	RXYQ12B + RXYQ16B		350 to 910 (1,120)	45 (56)
30	83.5	750	RXYQ30B	RXYQ12B + RXYQ18B		375 to 975 (1,200)	48 (60)
32	89.5	800	RXYQ32B	RXYQ12B + RXYQ20B		400 to 1,040 (1,280)	52 (64)
34	96.0	850	RXYQ34B	RXYQ14B + RXYQ20B		425 to 1,105 (1,360)	55 (64)
36	101	900	RXYQ36B	RXYQ16B + RXYQ20B		450 to 1,170 (1,440)	58 (64)
38	106	950	RXYQ38B	RXYQ18B + RXYQ20B		475 to 1,235 (1,520)	61 (64)
40	112	1,000	RXYQ40B	RXYQ20B × 2		500 to 1,300 (1,600)	64 (64)
42	117	1,050	RXYQ42B	RXYQ20B + RXYQ22B		525 to 1,365 (1,680)	
44	123	1,100	RXYQ44B	RXYQ20B + RXYQ24B		550 to 1,430 (1,760)	
46	128	1,150	RXYQ46B	RXYQ22B + RXYQ24B		575 to 1,495 (1,840)	
48	134	1,200	RXYQ48B	RXYQ24B × 2		600 to 1,560 (1,920)	
50	139	1,250	RXYQ50B	RXYQ12B + RXYQ18B + RXYQ20B	BHFP22R168	625 to 1,625 (1,625)	
52	145	1,300	RXYQ52B	RXYQ12B + RXYQ20B × 2		650 to 1,690 (1,690)	
54	152	1,350	RXYQ54B	RXYQ14B + RXYQ20B × 2		675 to 1,755 (1,755)	
56	157	1,400	RXYQ56B	RXYQ16B + RXYQ20B × 2		700 to 1,820 (1,820)	
58	162	1,450	RXYQ58B	RXYQ18B + RXYQ20B × 2		725 to 1,885 (1,885)	
60	168	1,500	RXYQ60B	RXYQ20B × 3		750 to 1,950 (1,950)	

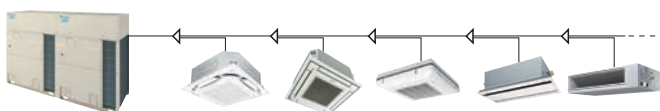
Notes: *1. For multiple connection of 26 HP systems and above, the outdoor unit multi connection piping kit (separately sold) is required.

*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for RXYQ8-20BYM, 180% for RXYQ22/24BYM, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 46 for note on connection capacity of indoor units.

Indoor Unit Lineup

Enhanced range of choices

				New lineup				VRT smart		Indoor units subject to VRT smart control								VRT		Indoor units subject to VRT control			
Category	Type	Model Name		Capacity Range	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP				
				Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	500				
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM	VRT smart																				
	Round Flow Cassette with Streamer	FXFRQ-AVM	VRT smart																				
	Round Flow Cassette	FXFQ-AVM	VRT smart																				
	Compact Multi Flow Cassette	FXZQ-BVM	VRT smart																				
	Double Flow Cassette	FXCQ-BVM	VRT smart																				
	Single Flow Cassette	FXEQ-AV36	VRT																				
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM	VRT																				
	Bedroom Duct	FXDBQ-AVM	VRT smart																				
	Slim Duct (Standard)	FXDQ-PDVE	VRT smart																				
		FXDQ-NDVE	VRT smart																				
	Slim Duct (Compact)	FXDQ-SPV1	VRT																				
	Middle Static Pressure Duct	FXSQ-PAVE	VRT smart																				
	Middle-High Static Pressure Duct	FXMQ-PAVE	VRT smart																				
	High Static Pressure Duct	FXMQ-PVM	VRT smart																				
	Outdoor-Air Processing Unit	FXMQ-MFV1																					
		FXMQ-AFVM	VRT																				
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB	VRT																				
	Ceiling Suspended	FXHQ-MAVE	VRT																				
		FXHQ-BVM	VRT																				
New	Wall Mounted	FXAQ-BVM	VRT smart																				
Floor Standing	Floor Standing	FXLQ-MAVE	VRT																				
	Concealed Floor Standing	FXNQ-MAVE	VRT																				
	Floor Standing Duct	FXVQ-NY1	VRT																				
		FXVQ-NY16 (high static pressure type)	VRT																				
Clean Room Air Conditioner		FXBQ-PVE	VRT																				
		FXBPQ-PVE	VRT																				
Heat Reclaim Ventilator with DX-Coil		VKM-GCVE			Airflow rate 500-950 m³/h																		
Heat Reclaim Ventilator		VAM-HVE			Airflow rate 150-2000 m³/h																		
Air Handling Unit		AHUR			6-120 HP																		



Max.
64 indoor units

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

Outdoor Units

VRV H Series

Specifications

																			
Model			RXYQ8BYM	RXYQ10BYM	RXYQ12BYM	RXYQ14BYM	RXYQ16BYM	RXYQ18BYM	RXYQ20BYM										
Combination units			—	—	—	—	—	—	—										
			—	—					—				—						
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz																
Cooling capacity			Btu/h	76,400	95,500	114,000	136,000	154,000	171,000	191,000									
			kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0									
Heating capacity			Btu/h	85,300	107,000	128,000	154,000	171,000	191,000	215,000									
			kW	25.0	31.5	37.5	45.0	50.0	56.0	63.0									
Power consumption	Cooling	kW	5.17	6.81	8.70	10.7	13.3	14.3	16.9										
	Heating	kW	5.33	6.99	9.67	11.0	13.5	14.9	17.0										
Capacity control			%	11-100	13-100	12-100	7-100	5-100		4-100									
EER (TCVN13256: 2021)			5.45		5.11		4.75		4.85		4.74		4.88		4.71				
Casing colour			Ivory white (5Y7.5/1)																
Compressor	Type		Hermetically sealed scroll type																
	Motor output		kW	4.3		6.2		7.7		3.9+4.4		4.4+5.0		4.0+6.6		4.5+7.4			
Airflow rate			m³/min	155		169		181		260		266		258		306			
Dimensions (H×W×D)			mm	1,660×930×765						1,660×1,240×765									
Machine weight			kg	215		225		310				340							
Sound level (Cooling/Heating)			dB (A)	56/56		57/58		60/62		61/61				65/66					
Sound power			dB	78		79		83				85				90			
Operation range	Cooling	°CDB	-5 to 52																
	Heating	°CWB	-25 to 15.5																
Refrigerant	Type		R-410A																
	Charge		kg	6.9		7.1		7.2		9.7		9.9		11.7					
Piping connections	Liquid	mm	ϕ 9.5 (Brazing)				ϕ 12.7 (Brazing)				ϕ 15.9 (Brazing)								
	Gas	mm	ϕ 19.1 (Brazing)		ϕ 22.2 (Brazing)		ϕ 28.6 (Brazing)												

															
Model			RXYQ36BYM	RXYQ38BYM	RXYQ40BYM	RXYQ42BYM	RXYQ44BYM	RXYQ46BYM	RXYQ48BYM						
Combination units			RXYQ16BYM	RXYQ18BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ22BYM	RXYQ24BYM	RXYQ24BYM	RXYQ24BYM	RXYQ24BYM			
			RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ22BYM	RXYQ24BYM	RXYQ24BYM	RXYQ24BYM	RXYQ24BYM					
			—	—	—	—	—	—	—						
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz												
Cooling capacity		Btu/h	345,000	362,000	382,000	401,000	420,000	439,000	458,000						
		kW	101	106	112	117	123	128	134						
Heating capacity		Btu/h	386,000	406,000	430,000	450,000	471,000	491,000	512,000						
		kW	113	119	126	132	138	144	150						
Power consumption	Cooling	kW	30.2	31.2	33.8	35.5	38.5	40.2	43.2						
	Heating	kW	30.5	31.9	34.0	37.1	39.2	41.8	44.4						
Capacity control		%	5-100				4-100		5-100						
EER (TCVN13256: 2021)			4.72	4.79	4.71	4.61	4.56	4.48	4.45						
Casing colour			Ivory white (5Y7.5/1)												
			Hermetically sealed scroll type												
Compressor	Type														
	Motor output	kW	(4.4+5.0)+ (4.5+7.4)	(4.0+6.6)+ (4.5+7.4)	(4.5+7.4)+ (4.5+7.4)	(4.5+7.4)+ (7.0+7.3)	(4.5+7.4)+ (7.7+8.0)	(7.0+7.3)+ (7.7+8.0)	(7.7+8.0)+ (7.7+8.0)						
Airflow rate		m³/min	266+306	258+306	306+306	306+430		430+430							
Dimensions (H×W×D)		mm	(1,660×1,240×765)+(1,660×1,240×765)					(1,660×1,240×765)+ (1,660×1,750×765)		(1,660×1,750×765)+ (1,660×1,750×765)					
Machine weight		kg	310+340	340+340		340+385			385+385						
Sound level (Cooling/Heating)		dB (A)	66/67			68/69		69/70	70/70	71/71					
Sound power		dB	91				93								
Operation range	Cooling	°CDB	-5 to 52												
	Heating	°CWB	-25 to 15.5												
Refrigerant	Type		R-410A												
	Charge	kg	9.9+11.7	11.7+11.7											
Piping connections	Liquid	mm	ø 19.1 (Brazing)												
	Gas	mm	ø 41.3 (Brazing)												

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.

*EER (TCVN13256: 2021)

According to TCVN13256: 2021 issued by the Ministry of Science and Technology of Vietnam, EER (Energy Efficiency Ratio) is the index to describe the energy saving levels of VRV system. EER (TCVN13256: 2021) is calculated according to the following formula:

$$\text{EER (TCVN13256: 2021)} = 0.01 \times \frac{\phi_{100\%}}{P_{100\%}} + 0.42 \times \frac{\phi_{75\%}}{P_{75\%}} + 0.45 \times \frac{\phi_{50\%}}{P_{50\%}} + 0.12 \times \frac{\phi_{25\%}}{P_{25\%}}$$

$\phi n\%$: Cooling capacity at $n\%$ heat load (kW)

$P n\%$: Input power at $n\%$ heat load (kW)

Heat Pump

							
RXYQ22BYM	RXYQ24BYM	RXYQ26BYM	RXYQ28BYM	RXYQ30BYM	RXYQ32BYM	RXYQ34BYM	
—	—	RXYQ12BYM	RXYQ12BYM	RXYQ12BYM	RXYQ12BYM	RXYQ14BYM	
—	—	RXYQ14BYM	RXYQ16BYM	RXYQ18BYM	RXYQ20BYM	RXYQ20BYM	
3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
210,000	229,000	250,000	268,000	285,000	305,000	327,000	
61.5	67.0	73.5	78.5	83.5	89.5	96.0	
235,000	256,000	282,000	299,000	319,000	343,000	369,000	
69.0	75.0	82.5	87.5	93.5	100	108	
18.6	21.6	19.4	22.0	23.0	25.6	27.6	
19.6	22.2	20.7	23.2	24.6	26.7	28.0	
5-100		7-100				6-100	
4.53	4.46	4.80	4.74	4.82	4.72	4.77	
Ivory white (5Y7.5/1)							
Hermetically sealed scroll type							
7.0+7.3	7.7+8.0	7.7+(3.9+4.4)	7.7+(4.4+5.0)	7.7+(4.0+6.6)	7.7+(4.5+7.4)	(3.9+4.4)+ (4.5+7.4)	
430		181+260	181+266	181+258	181+306	260+306	
1,660×1,750×765		(1,660×930×765)+(1,660×1,240×765)					(1,660×1,240×765)+ (1,660×1,240×765)
385		225+310		225+340		310+340	
67/67	68/68		64/65			66/67	
90		86		87		91	
-5 to 52							
-25 to 15.5							
R-410A							
11.7		7.2+9.7	7.2+9.9	7.2+11.7		9.7+11.7	
φ 15.9 (Brazing)		φ 19.1 (Brazing)					
φ 28.6 (Brazing)		φ 34.9 (Brazing)					

					
RXYQ50BYM	RXYQ52BYM	RXYQ54BYM	RXYQ56BYM	RXYQ58BYM	RXYQ60BYM
RXYQ12BYM	RXYQ12BYM	RXYQ14BYM	RXYQ16BYM	RXYQ18BYM	RXYQ20BYM
RXYQ18BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM
RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM
3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
476,000	496,000	518,000	536,000	553,000	573,000
139	145	152	157	162	168
534,000	558,000	584,000	601,000	621,000	645,000
156	163	171	176	182	189
39.9	42.5	44.5	47.1	48.1	50.7
41.6	43.7	45.0	47.5	48.9	51.0
6-100		5-100		4-100	
4.78	4.72	4.74	4.72	4.76	4.71
Ivory white (5Y7.5/1)					
Hermetically sealed scroll type					
7.7+(4.0+6.6)+(4.5+7.4)	7.7+(4.5+7.4)+(4.5+7.4)	(3.9+4.4)+(4.5+7.4)+(4.5+7.4)	(4.4+5.0)+(4.5+7.4)+(4.5+7.4)	(4.0+6.6)+(4.5+7.4)+(4.5+7.4)	(4.5+7.4)+(4.5+7.4)+(4.5+7.4)
181+258+306	181+306+306	260+306+306	266+306+306	258+306+306	306+306+306
(1,660×930×765)+(1,660×1,240×765)+(1,660×1,240×765)		(1,660×1,240×765)+(1,660×1,240×765)+(1,660×1,240×765)			
225+340+340		310+340+340		340+340+340	
67/68		69/70			70/71
92		93		94	95
-5 to 52					
-25 to 15.5					
R-410A					
7.2+11.7+11.7	9.7+11.7+11.7	9.9+11.7+11.7		11.7+11.7+11.7	
φ 19.1 (Brazing)					
φ 41.3 (Brazing)					

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

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

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

VRV 6 XSERIES

Saves More Energy and
Delivers Exceptional Performance

Cooling Only
6 HP—60 HP
(16 kW) (168 kW)

New



Single outdoor units
RXUQ6-20BYM

Double outdoor units
RXUQ22-40BYM

Triple outdoor units
RXUQ42-60BYM

Higher benefits for everyone involved

The **VRV 6 X** series features new models specially developed for higher efficiency.

New **VRV 6 X** series has achieved significant energy savings with improved technology. In a design that is more compact and lightweight, the operating performance has been improved in all directions by introducing unique ideas, technologies and a wide variety of functions to strengthen design flexibility, easy installation and reliability.

VRV 6 X series provides higher benefits to various users related to air conditioning systems, for example, building owners, consultants, installers and building managers.

Upgraded Casing

Reduces the lifecycle cost with more compact combination.



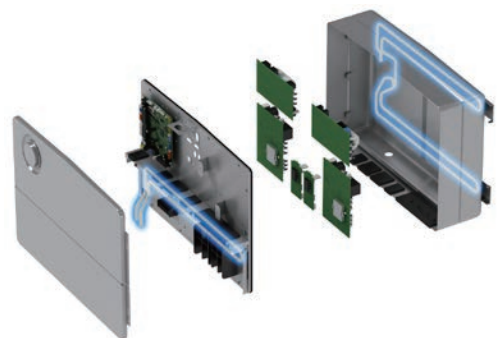
Maximum Energy Efficiency

Achieves the new standard of energy efficiency ratio (EER) up to 6.17 and enhanced energy efficiency during actual operation (low load) with a new compressor, new heat exchanger and VRT Smart II control.



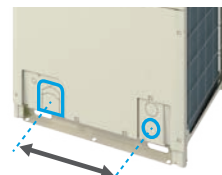
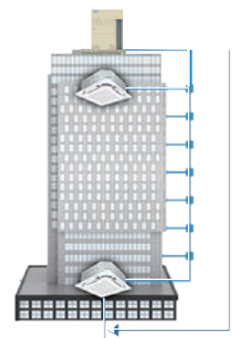
Durable, Stable, Reliable

Operates optimally even in extreme heat and humidity with IP55 sealed electrical component box, expanded operation temperature range, and backup operations.



Flexible Design & Easy Installation

Improves workability with long and flexible piping and optimized parts layout.



New Casing

Offers advanced design and new structure with excellent workability.



RXUQ6,8BYM



RXUQ10,12,14,16,18,20BYM

Outdoor unit combination

New **VRV 6 X** series

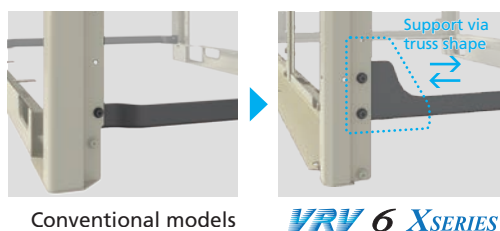
System capacity		Number of units	Single module (HP)							
HP	kW		6	8	10	12	14	16	18	20
6	16.0	Single	●							
8	22.4			●						
10	28.0				●					
12	33.5					●				
14	40.0						●			
16	45.0							●		
18	50.0								●	
20	56.0									●
22	61.5	Double			●	●				
24	67.0					●●				
26	73.5					●	●			
28	78.5					●		●		
30	83.5					●			●	
32	89.5					●				●
34	96.0						●			●
36	101							●		●
38	106								●	●
40	112									●●
42	117	Triple				●●			●	
44	123					●●				●
46	129					●	●			●
48	134					●		●		●
50	139					●			●	●
52	145					●				●●
54	152						●			●●
56	157							●		●●
58	162								●	●●
60	168									●●●

New reinforced design

The frame structure has been strengthened to improve resistance to earthquakes and wind while protecting against falling damage.



1 Minimises horizontal wobbling



2 Minimises vibration from various angles



Strongly
resists
earthquakes

Withstands 7 seismic intensity earthquakes^{※1}



Evaluation:
National Institute
of Technology and
Evaluation (NITE),
an independent
Japanese
administrative
institution

A vibration test conducted on a Japanese model^{※1} used vibration equivalent to a 7 seismic intensity earthquake to confirm no damage or effect to the refrigerant or electrical systems while showing the unit remained in good operating condition.

Strongly
resists
high winds

Withstands 60 m/s winds^{※2}

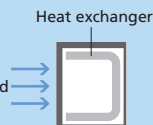


An experiment conducted on a Japanese model used a force equivalent to a wind speed of 60 m/s to confirm that there was no risk of the unit falling over or suffering damage to any of its parts.

Cross-sectional images of the outdoor unit from above

Wind blowing from the front

The unit remains upright even when hit with a force equivalent to a wind speed of 60 m/s from the front.



Wind blowing from the rear

The front panel remains attached even when hit with a force equivalent to a wind speed of 60 m/s from the rear.



^{※1} Vibration tests were conducted on the Japanese model, recreating the seismic waveforms of the area (Kurihara City, Miyagi Prefecture) where the maximum seismic intensity of the Great East Japan Earthquake was recorded.

^{※2} The outdoor unit should be installed on a concrete surface on the ground or on a mounting surface with equal or greater strength.

Energy Savings

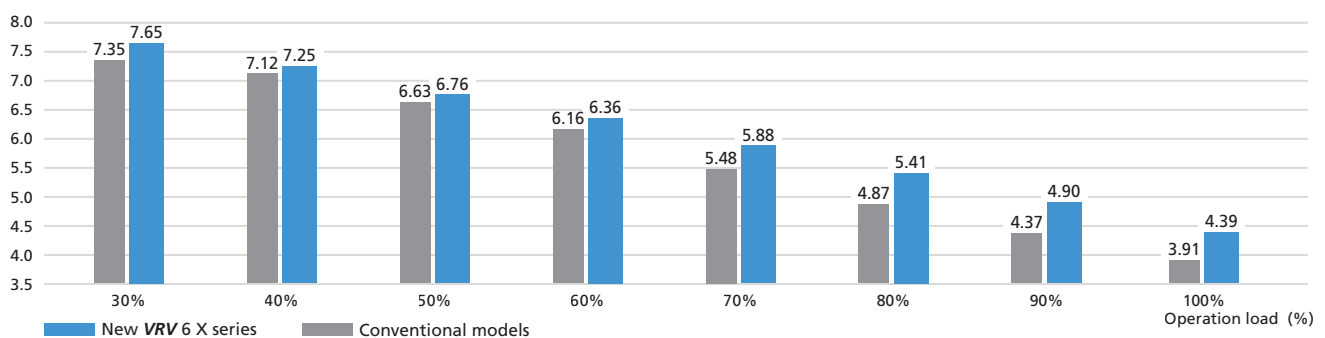
■ High Integrated Energy Efficiency Ratio EER (TCVN13256: 2021)

New **VRV 6 X** series improves energy efficiency during actual operation (low load), equipped with a new compressor, new heat exchanger and VRT Smart II control.

Outdoor unit	6 HP	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP
EER (TCVN13256: 2021)	6.17	6.00	6.15	5.94	5.89	5.83	5.57	5.35

EER at low load factor are improved to achieve higher EER (TCVN13256: 2021)

EER (Rated: Cooling operation) for 18 HP Model



What is EER (TCVN13256: 2021)?

According to TCVN13256: 2021 issued by the Ministry of Science and Technology of Vietnam, EER (Energy Efficiency Ratio) is the index to describe the energy saving levels of **VRV** system. EER (TCVN13256: 2021) is calculated according to the following formula:

$$\text{EER (TCVN13256: 2021)} = 0.01 \times \frac{\phi_{100\%}}{P_{100\%}} + 0.42 \times \frac{\phi_{75\%}}{P_{75\%}} + 0.45 \times \frac{\phi_{50\%}}{P_{50\%}} + 0.12 \times \frac{\phi_{25\%}}{P_{25\%}}$$

$\phi n\%$: Cooling capacity at $n\%$ heat load (kW)
 $P n\%$: Input power at $n\%$ heat load (kW)

■ Silver HeatX Hardware technology

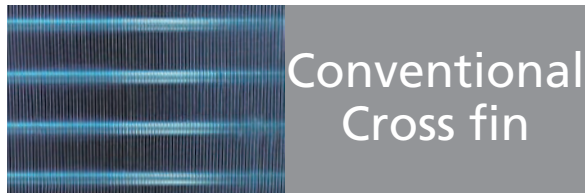
Silver HeatX is a Parallel Flow Condenser (PFC) heat exchanger designed for the new **VRV 6 X** series. It enhances energy efficiency, sustainability, and durability, ensuring long-term performance and cost-effectiveness, making it ideal for modern HVAC systems.

High Efficiency – Higher Heat Exchanging Performance

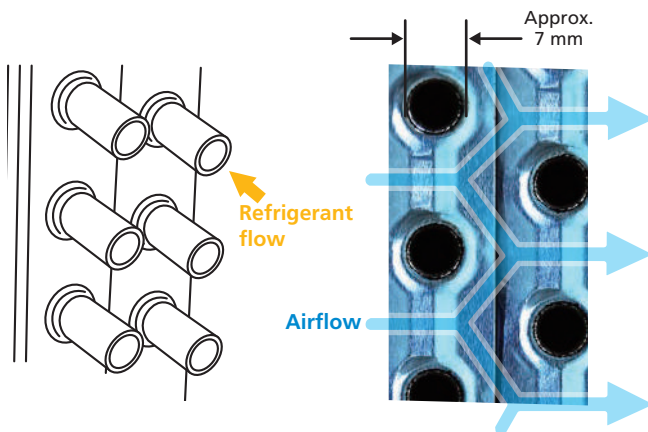
Silver HeatX has a distinctive structure with flat-thin channels creating a wider contact area for a larger heat transfer surface and allow a high velocity of the refrigerant flow to achieve maximum heat exchanging process while improving overall system efficiency.



■ Silver HeatX Hardware technology

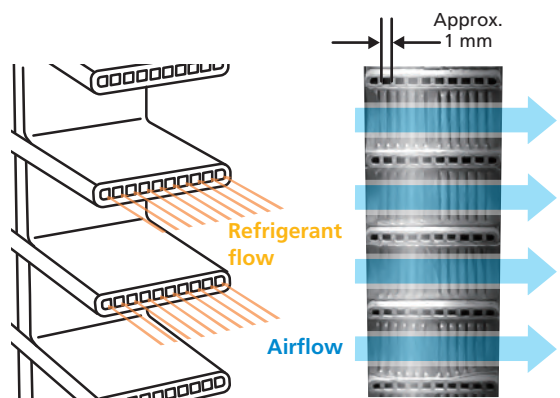


Conventional Cross fin



Silver HeatX

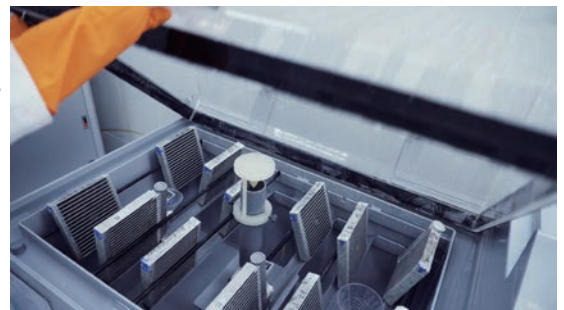
- ✓ Thin channels produce high velocity of refrigerant flow
- ✓ Flat structure allows wide contact area



Superior Corrosion Resistance for Long-Term Reliability

Silver HeatX is engineered to withstand extreme environmental conditions. Certified under ISO 12944-6:2018 and ISO 9227:2017, it has passed a rigorous 1,440-hour salt spray test (C5 level), demonstrating its ability to resist corrosion in the most demanding environments—such as coastal areas with salty air, industrial zones with high pollution, or regions with high humidity.

By reducing the risk of rust and surface damage over time, Silver HeatX helps extend the life of your equipment, lowers maintenance costs, and ensures stable performance in any climate. Its compliance with UL safety standards also adds an extra layer of reliability and peace of mind.



* Corrosion test at Underwriters Laboratory (UL), Thailand

Helps the Environment – Equivalent to Planting 388 Cedar Trees

By reducing refrigerant usage by up to 2.6 kg^{*1}, Silver HeatX cuts greenhouse gas emissions equivalent to the annual CO₂ absorption of approximately 388 cedar trees^{*2}, supporting global environmental conservation efforts.

Notes: *1. Calculated based on the difference in refrigerant volume between RXUQ10AYM and RXUQ10BYM.

*2. CO₂ reduction is calculated based on the GWP of R-410A (2,088) and an estimated annual CO₂ absorption of 14 kg per cedar tree. Actual values may vary depending on tree species, age, environmental conditions, and refrigerant type.

31.3 % less refrigerant



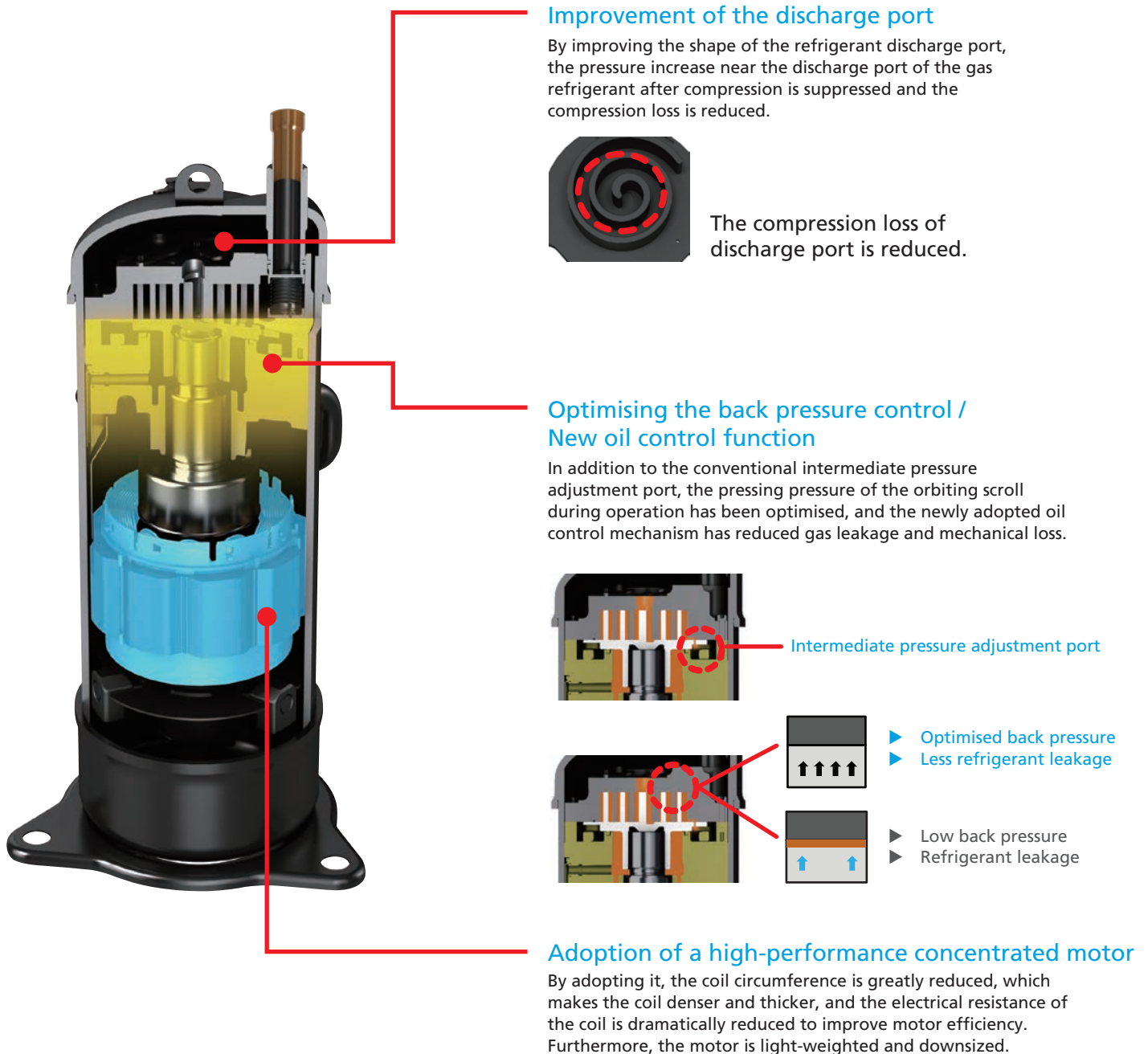
388
cedar trees
per year

*One cedar tree absorbs 14 kg of CO₂ per year.

Energy Savings

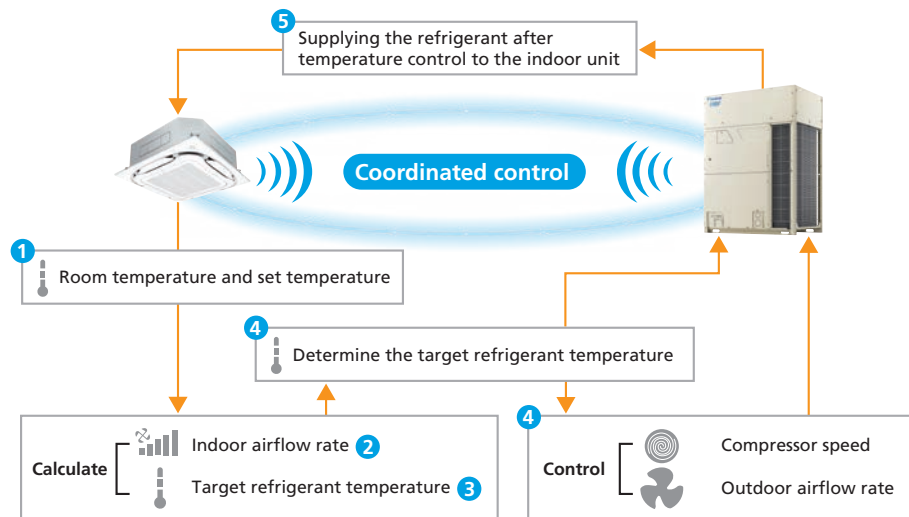
Hardware technology High Efficiency Compressor

New technologies increase seasonal efficiency and enable a compact design.



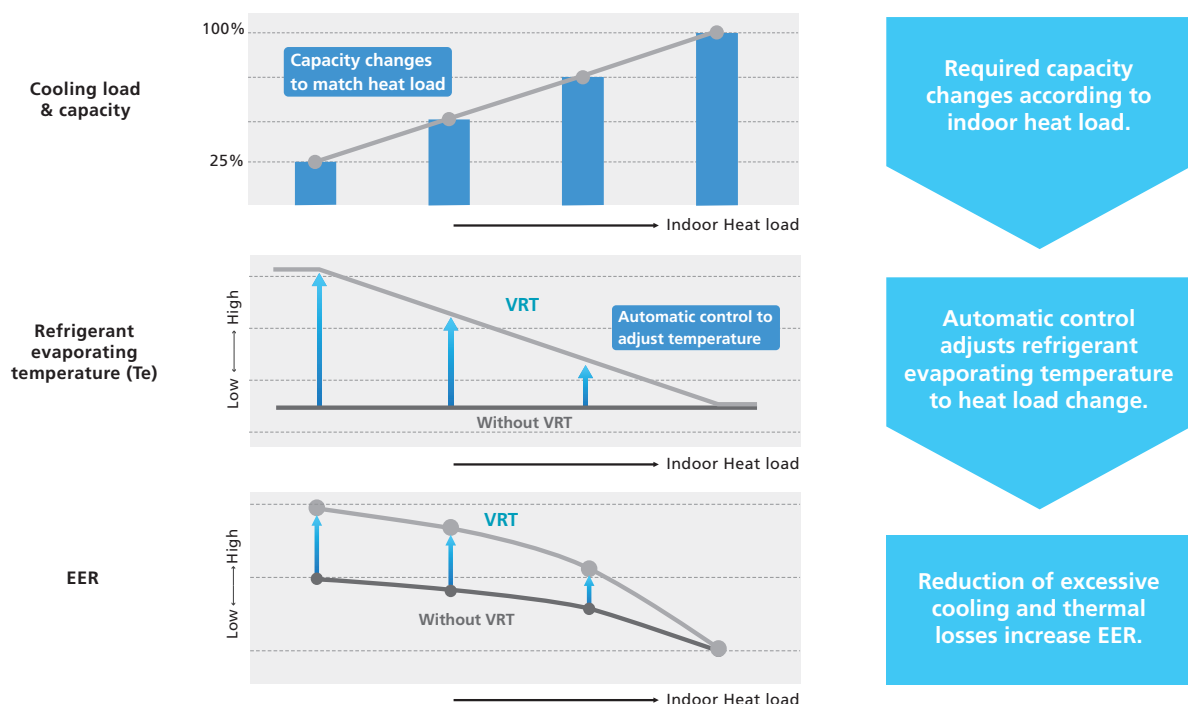
Software technology VRT Smart II control

Optimal supply exactly meets the required capacity of indoor units



- Indoor unit will calculate capacity needed based on ΔT (Room temperature vs set temperature) and room temperature trend.
- Indoor unit will try to regulate with fan speed control.
- If fan cannot control speed, indoor unit request T_e change from outdoor unit.
- Outdoor unit determines the refrigerant temperature based on the demands, and controls the compressor speed and outdoor airflow rate to change the refrigerant temperature.
- The outdoor unit supplies the refrigerant adjusted to moderate temperature to the indoor unit.

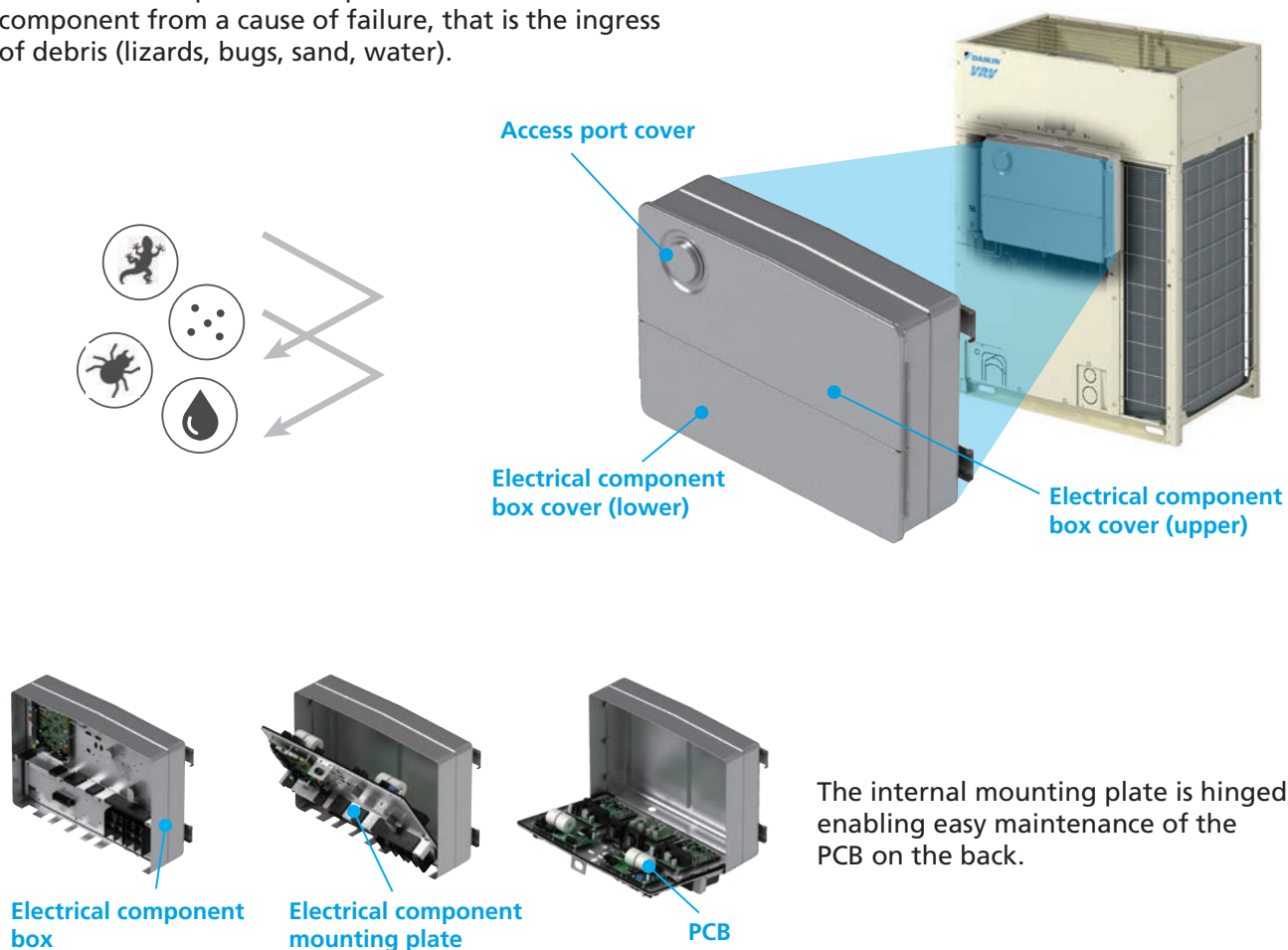
Greatly improved efficiency by adjusting the capacity by the refrigerant temperature



Reliability

■ IP55-compliant sealed component box

IP55 sealed component box protects electrical component from a cause of failure, that is the ingress of debris (lizards, bugs, sand, water).



What is IP55?

IP55 is the degree of dust and water protection for the electrical component box equipped within the outdoor unit.

IP55

Liquid ingress protection **Grade 5**

Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.

Solid particle protection **Grade 5**

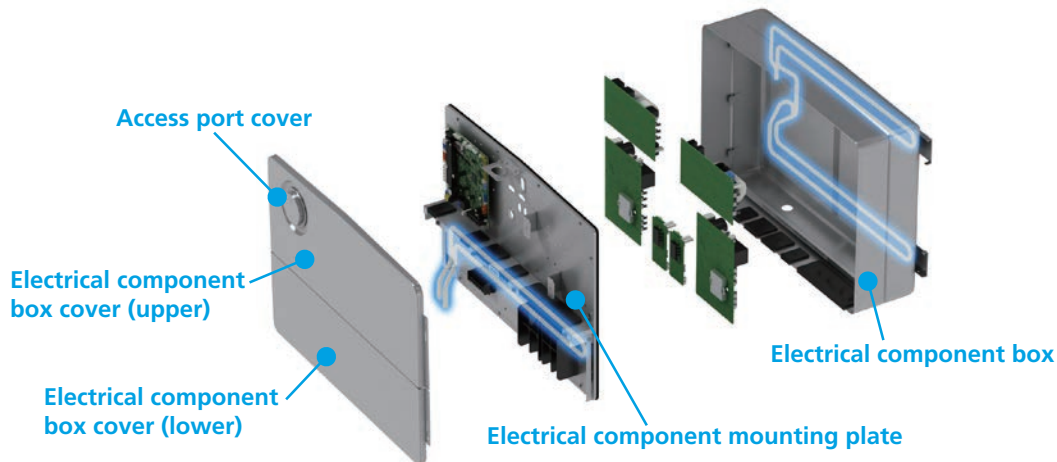
Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment.

Ingress Protection

*IP55 is the protection degree of the electrical component box installed inside the outdoor unit. The protection grade of the outdoor unit is IP14 as well as the conventional model.

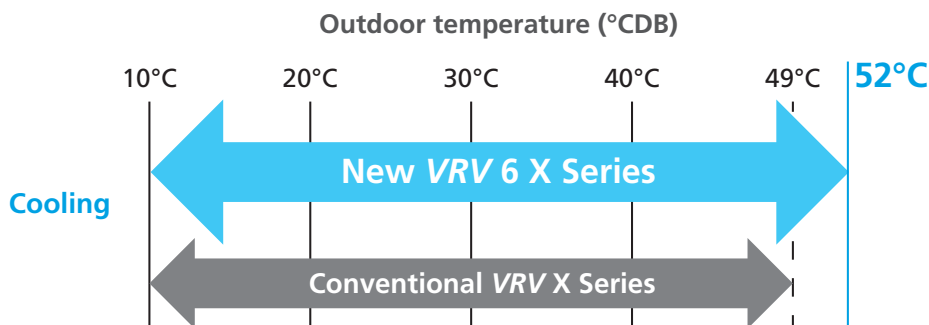
■ Enables operation in high outdoor temperature

Three refrigerant cooling circuits enable stable operation even in high outdoor temperatures by suppressing a temperature rise for the PCB mounted in the sealed electrical component box.



■ Expanded operation temperature range

The outdoor operation temperature range is now extended from 49 to 52°C. This enables reliable operation even under high temperature conditions and a wider choice of installation locations.

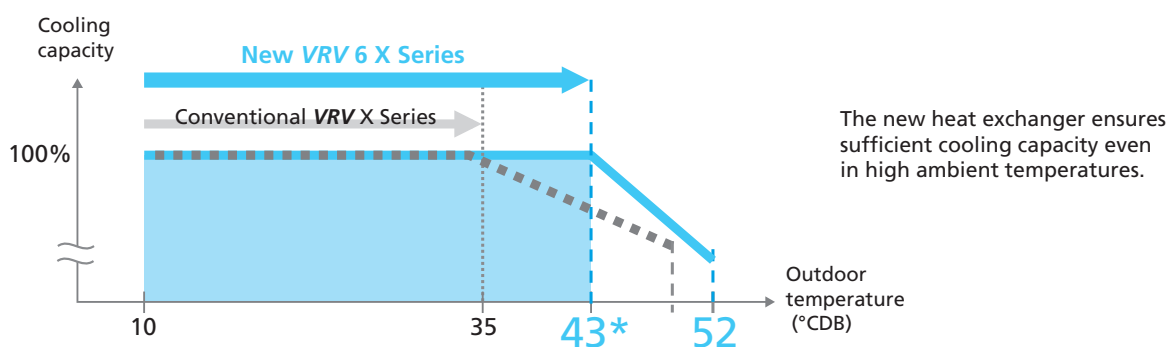


Note: If the height difference between the outdoor units and the indoor units exceeds 90 m, the operating temperature range is up to 49°C (Outdoor units above indoor units only).

■ Keep rated cooling capacity in high outdoor temperature up to 43°C*

Rated cooling capacity can be maintained even when outdoor temperature is up to 43°C*.

*Rated cooling capacity for 16-20 HP is up to 42°C.

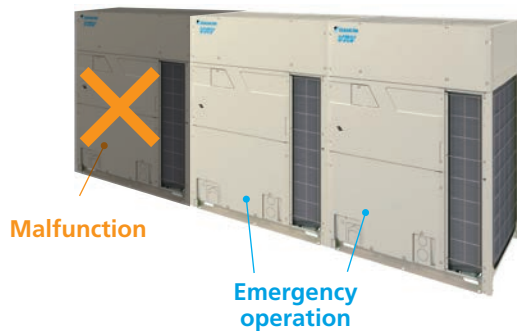


Comfort

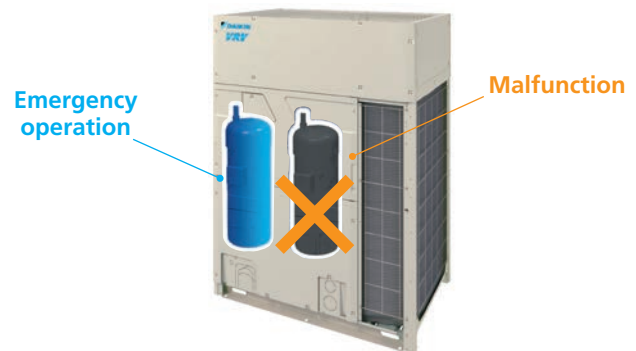
Double backup operation functions

Unit backup & Compressor backup ensure continuous operation.

Unit backup operation function

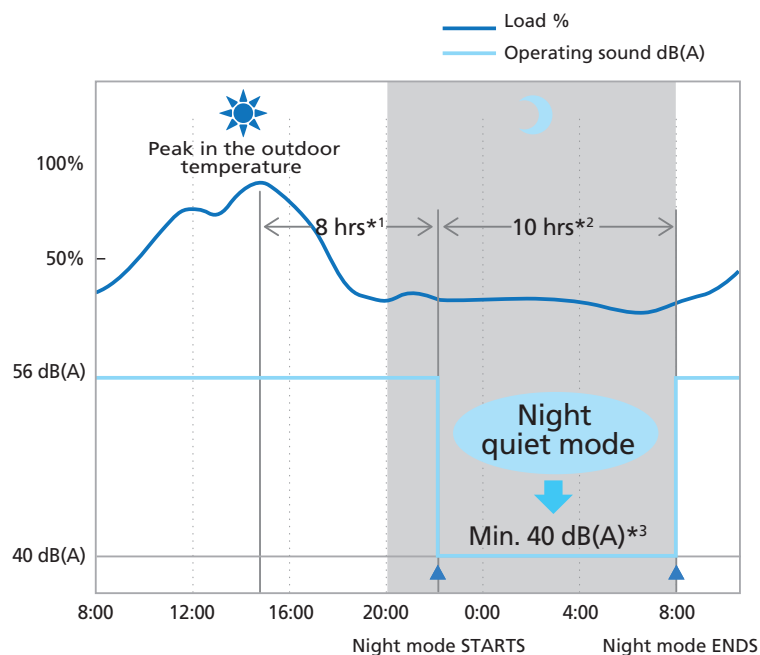


Compressor backup operation function



Nighttime quiet operation function

The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood. Three selectable modes are available depending on the required level.



*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. 6-8 HP outdoor unit can maintain $\geq 30\%$ of the rated capacity with the sound < 40 dB(A).
10-12 HP outdoor unit can maintain $\geq 30\%$ of the rated capacity with the sound < 42 dB(A).
14-20 HP outdoor unit can maintain $\geq 30\%$ of the rated capacity with the sound < 44 dB(A).

Notes: • This function is available in setting at site.

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

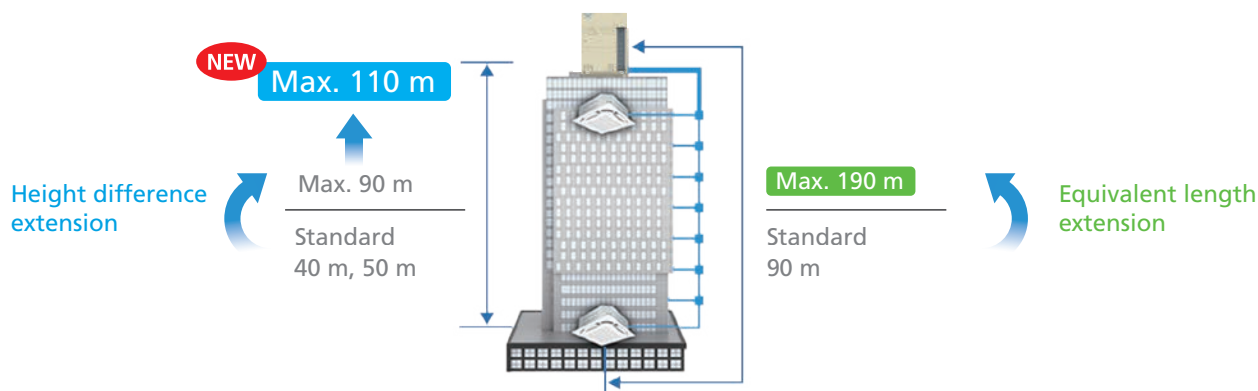
Design Flexibility

VRV 6 X Series

VRV 6 X Series

■ Simultaneous extension of height difference and equivalent length

Design flexibility is further improved by simultaneous extension of height difference, improved from 90 m to 110 m, and equivalent length (up to 190 m).



• Height difference extension **Max. 110 m**

For height differences exceeding 50 m with the outdoor unit above the indoor unit and 40 m with the outdoor unit below, the main liquid piping size must be increased.

The operating temperature range is up to 49°C (Outdoor units above indoor units only).

The minimum connection capacity index of the indoor unit shall be 62.5 (7.1 kW) or more (Outdoor units above indoor units only).

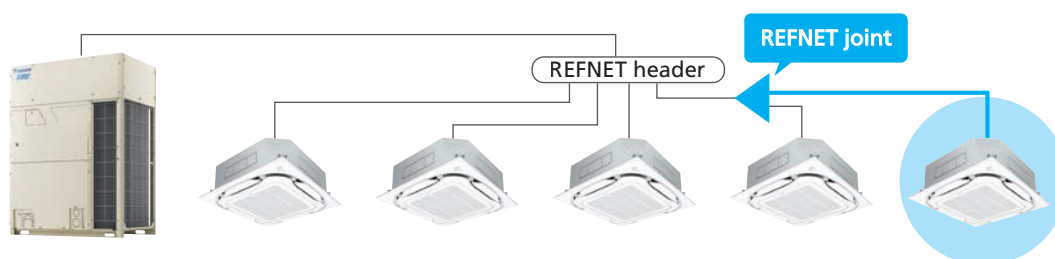
• Equivalent length **Max. 190 m**

When the equivalent piping length from outdoor unit to indoor unit is 90 m or more, be sure to increase the size of the liquid and gas pipes of the main piping.

* In addition to increasing the size of the main pipe, there are other piping restrictions regarding height difference extension and equivalent length. Check the Installation Manual for details.

■ REFNET header downstream branching supported

Piping branch by REFNET joint is possible downstream of REFNET header. The indoor unit arrangement can be more flexible.

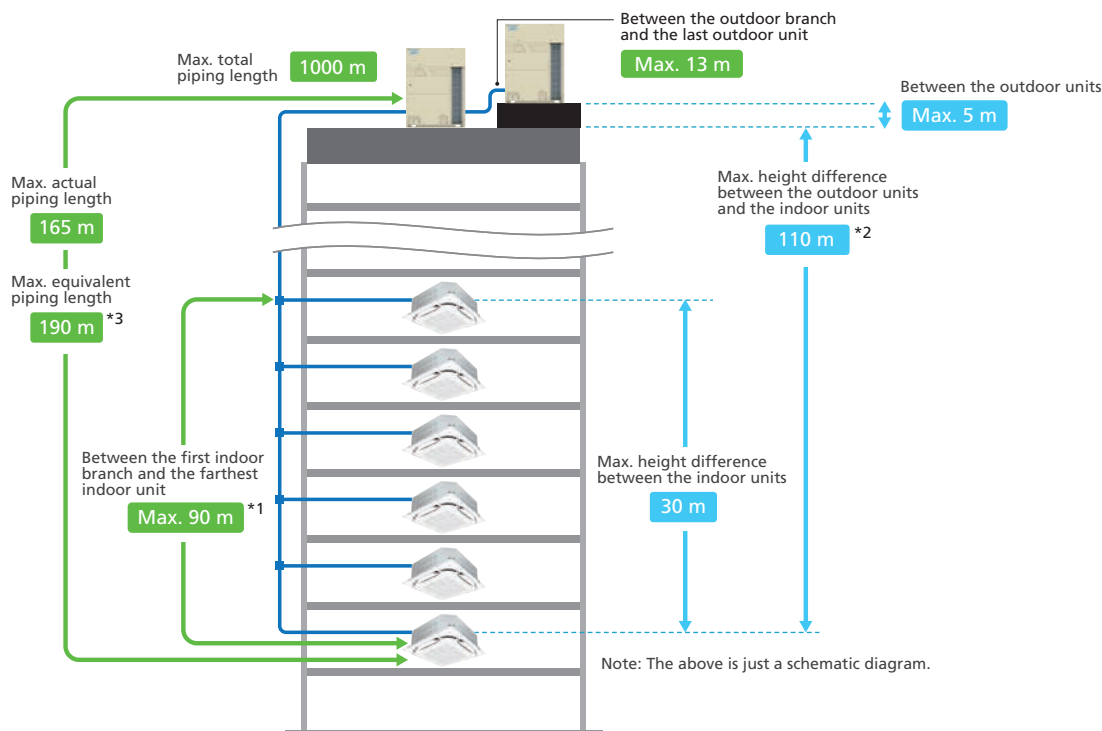


REFNET header	Indoor unit total capacity at REFNET joint
KHRP26M22H, KHRP26M33H, KHRP26M72H	< 50
KHRP26M73H + KHRP26M73HP	≤ 140

Design Flexibility

Long piping length

Long piping length enhances design flexibility, enabling support for large buildings.



Maximum allowable piping length	Actual piping length (Equivalent)	165 m (190 m) ^{*3}
	Total piping length	1000 m
	Between the first indoor branch and the farthest indoor unit	90 m ^{*1}
Maximum allowable height difference	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)
	Between the outdoor units (Multiple use)	5 m
	Between the indoor units	30 m
	Between the outdoor units and the indoor units	110 m ^{*2}

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

*2. When Height differences above 50 m if the outdoor unit is above the indoor unit and 40 m if the outdoor unit is below the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

*3. If equivalent piping length from outdoor unit to indoor unit is 90 m or more, make sure to size up the liquid and gas pipes of the main piping.

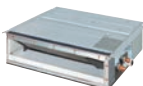
■ Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

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

Conditions of **VRV** indoor unit connection capacity

Applicable VRV indoor units	Indoor units				
	When using only the following models		Including at least one of the following models		Other VRV indoor unit models
	<div> FXSQ</div> <div> FXDBQ</div> <div> FXAQ</div> <div> FXD(S)Q</div> <div> FXMQ-PA</div> <div> FXB(P)Q</div>		<div> FXF(T)(R)Q25A*1</div> <div> FXVQ</div>	<div> FXFSQ25/50C</div>	
Single outdoor units	200%		130%	105%	
Double outdoor units	200%		130%	105%	
Triple outdoor units	200%		130%	105%	

*1 FXF(T)(R)Q-A models 32 class and above belong to "Other **VRV** indoor unit models" category.

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

*Refer to the Engineering Data Book for max. connection ratio when Outdoor-Air Processing Unit is connected.

*Refer to page 73 for outdoor unit combination details.

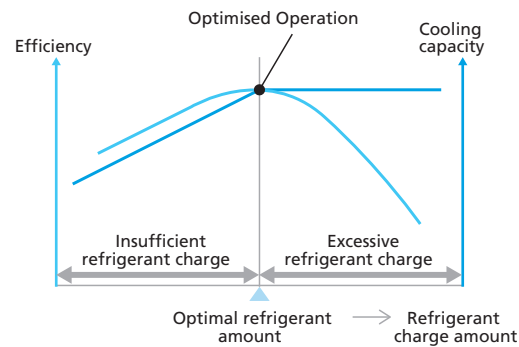
Easy Installation

Automatic refrigerant charge function

Contribute to optimised operation efficiency, higher quality and easier installation.

Optimised operation efficiency

This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



Reduced time for automatic charging operation

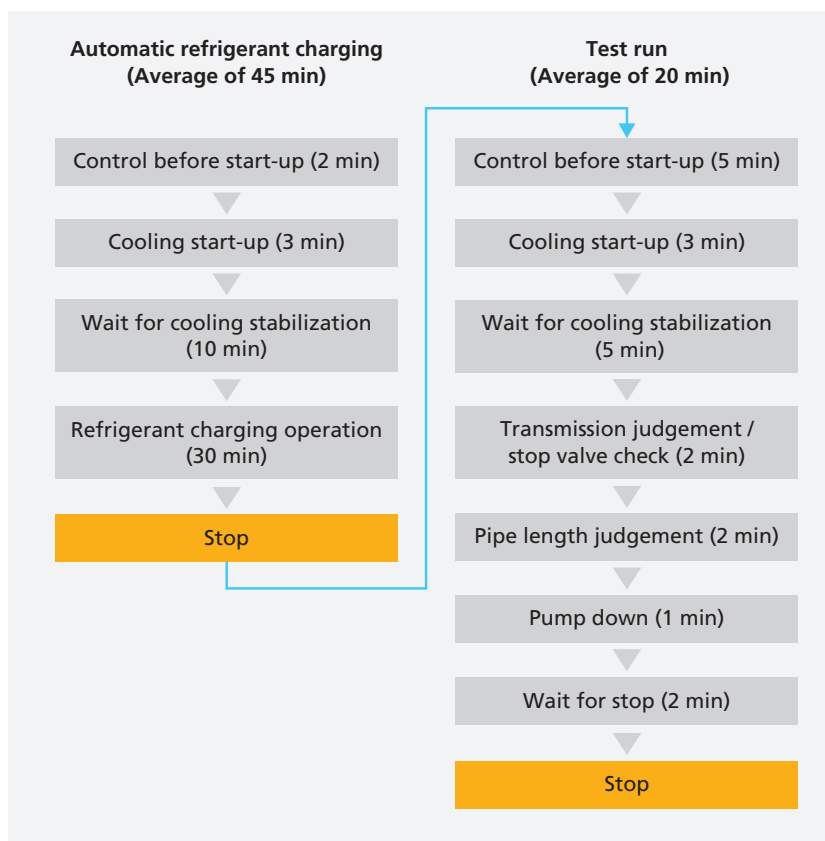
By designing optimal control, the average time has been shortened by 22% (14 min), and the number of on-site operations has been reduced.

Operation time
22% less

Conventional models

Test run is performed after automatic refrigerant charging is finished

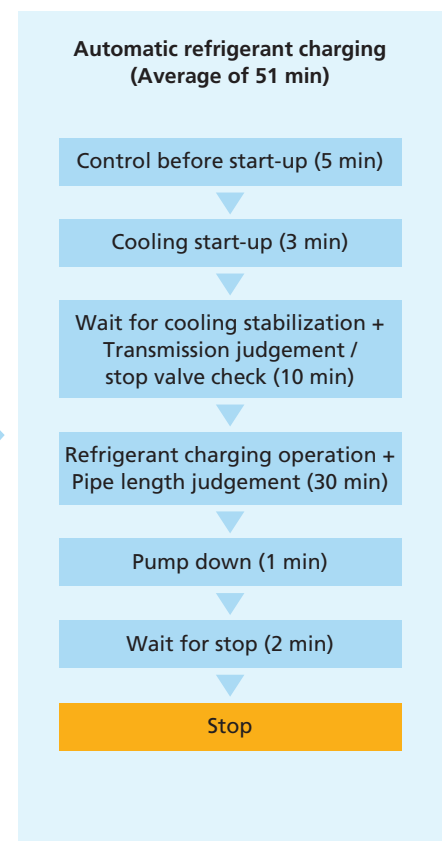
Total of 11 steps, PCB setting: 5 times
Total time: Average of 65 min



New VRV 6 X models

Automatic refrigerant charging and test run are performed at the same time

Reduction to 6 steps, PCB setting: 3 times
Total time: Average of 51 min



■ Process visualization (Test run only*)

In the new models, in addition to the actual step (t01 to t10), a progress rate (0% to 99%) is available as a guideline when making arrangements for on-site work.

* Effective when test run is carried out independently after manual refrigerant charging.



■ Electrical component service window

An electrical component service window is newly installed on the front panel. Main PCB 7-segment LED can be accessed without removing the front panel.

Workability is greatly improved during on-site setting or test run. You can also quickly check the error code during service.



■ Improved refrigerant piping workability

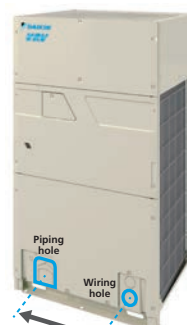
By dividing piping and wiring holes to the left and right, piping and wiring work can be easily performed on site.

Conventional models



Working in closed place is difficult

VRV 6 X SERIES

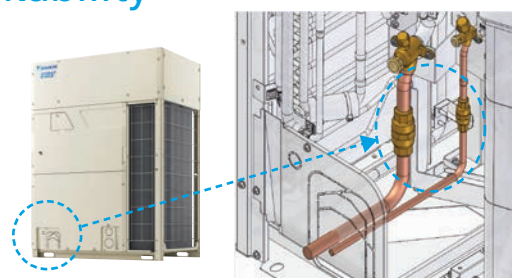


Work becomes easier with sufficient space

■ Improved by TIGHTFIT connection workability for VRV 6 series in outdoor unit

See page 278

By changing the connection method of refrigerant piping from brazing to TIGHTFIT (Daikin Gas Tight Joint) connection, construction is simplified and installation quality is improved.



TIGHTFIT (Daikin Gas Tight Joint)

Outdoor Unit Lineup

Capacity range from 6 to 60 HP

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
VRV 6 X SERIES	Single outdoor units	●	●	●	●	●	●	●	●																				
	Double outdoor units									●	●	●	●	●	●	●	●	●	●										
	Triple outdoor units																			●	●	●	●	●	●	●	●	●	●

Outdoor unit combinations

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit	Total capacity index of connectable indoor units*	Maximum number of connectable indoor units*
6	16.0	150	RXUQ6B	RXUQ6B	—	75 to 195 (300)	9 (15)
8	22.4	200	RXUQ8B	RXUQ8B	—	100 to 260 (400)	13 (20)
10	28.0	250	RXUQ10B	RXUQ10B	—	125 to 325 (500)	16 (25)
12	33.5	300	RXUQ12B	RXUQ12B	—	150 to 390 (600)	19 (30)
14	40.0	350	RXUQ14B	RXUQ14B	—	175 to 455 (700)	22 (35)
16	45.0	400	RXUQ16B	RXUQ16B	—	200 to 520 (800)	26 (40)
18	50.0	450	RXUQ18B	RXUQ18B	—	225 to 585 (900)	29 (45)
20	56.0	500	RXUQ20B	RXUQ20B	—	250 to 650 (1,000)	32 (50)
22	61.5	550	RXUQ22B	RXUQ10B + RXUQ12B	BHFP22R135	275 to 715 (880)	35 (44)
24	67.0	600	RXUQ24B	RXUQ12B × 2		300 to 780 (960)	39 (48)
26	73.5	650	RXUQ26B	RXUQ12B + RXUQ14B		325 to 845 (1,040)	42 (52)
28	78.5	700	RXUQ28B	RXUQ12B + RXUQ16B		350 to 910 (1,120)	45 (56)
30	83.5	750	RXUQ30B	RXUQ12B + RXUQ18B		375 to 975 (1,200)	48 (60)
32	89.5	800	RXUQ32B	RXUQ12B + RXUQ20B		400 to 1,040 (1,280)	52 (64)
34	96.0	850	RXUQ34B	RXUQ14B + RXUQ20B		425 to 1,105 (1,360)	55 (64)
36	101	900	RXUQ36B	RXUQ16B + RXUQ20B		450 to 1,170 (1,440)	58 (64)
38	106	950	RXUQ38B	RXUQ18B + RXUQ20B		475 to 1,235 (1,520)	61 (64)
40	112	1,000	RXUQ40B	RXUQ20B × 2		500 to 1,300 (1,600)	64 (64)
42	117	1,050	RXUQ42B	RXUQ12B × 2 + RXUQ18B	BHFP22R168	525 to 1,365 (1,365)	
44	123	1,100	RXUQ44B	RXUQ12B × 2 + RXUQ20B		550 to 1,430 (1,430)	
46	129	1,150	RXUQ46B	RXUQ12B + RXUQ14B + RXUQ20B		575 to 1,495 (1,495)	
48	134	1,200	RXUQ48B	RXUQ12B + RXUQ16B + RXUQ20B		600 to 1,560 (1,560)	
50	139	1,250	RXUQ50B	RXUQ12B + RXUQ18B + RXUQ20B		625 to 1,625 (1,625)	
52	145	1,300	RXUQ52B	RXUQ12B + RXUQ20B × 2		650 to 1,690 (1,690)	
54	152	1,350	RXUQ54B	RXUQ14B + RXUQ20B × 2		675 to 1,755 (1,755)	
56	157	1,400	RXUQ56B	RXUQ16B + RXUQ20B × 2		700 to 1,820 (1,820)	
58	162	1,450	RXUQ58B	RXUQ18B + RXUQ20B × 2		725 to 1,885 (1,885)	
60	168	1,500	RXUQ60B	RXUQ20B × 3		750 to 1,950 (1,950)	

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

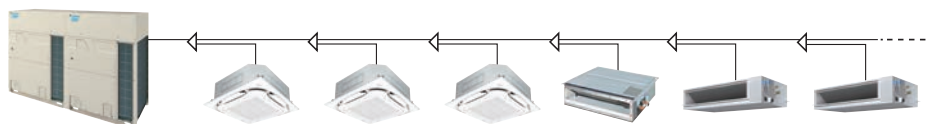
*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 70 for notes on connection capacity of indoor units.

Indoor Unit Lineup

Enhanced range of choices

				New lineup					VRT smart	Indoor units subject to VRT smart control										VRT		Indoor units subject to VRT control				
Category	Type	Model Name		Capacity Range	20	25	32	40	50	63	71	80	100	125	140	200	250	400	500							
					0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP							
				Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	500							
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM FXFSQ-CVM*	VRT smart																							
	Round Flow Cassette with Streamer	FXFRQ-AVM	VRT smart																							
	Round Flow Cassette	FXFQ-AVM	VRT smart																							
	Compact Multi Flow Cassette	FXZQ-BVM	VRT smart																							
	Double Flow Cassette	FXCQ-BVM	VRT smart																							
	Single Flow Cassette	FXEQ-AV36	VRT																							
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM	VRT																							
	Bedroom Duct	FXDBQ-AVM	VRT smart																							
	Slim Duct (Standard)	FXDQ-PDVE	VRT smart																							
		FXDQ-NDVE	VRT smart																							
	Slim Duct (Compact)	FXDQ-SPV1	VRT																							
	Middle Static Pressure Duct	FXSQ-PAVE	VRT smart																							
	Middle-High Static Pressure Duct	FXMQ-PAVE	VRT smart																							
	High Static Pressure Duct	FXMQ-PVM	VRT smart																							
	Outdoor-Air Processing Unit	FXMQ-MFV1																								
		FXMQ-AFVM	VRT																							
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB	VRT																							
	Ceiling Suspended	FXHQ-MAVE	VRT																							
		FXHQ-BVM	VRT																							
New	Wall Mounted	FXAQ-BVM	VRT smart																							
Floor Standing	Floor Standing	FXLQ-MAVE	VRT																							
	Concealed Floor Standing	FXNQ-MAVE	VRT																							
	Floor Standing Duct	FXVQ-NY1	VRT																							
		FXVQ-NY16 (high static pressure type)	VRT																							
Clean Room Air Conditioner		FXBQ-PVE	VRT																							
		FXBPQ-PVE	VRT																							
Heat Reclaim Ventilator with DX-Coil		VKM-GCVE		Airflow rate 500-950 m³/h																						
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h																						
Air Handling Unit		AHUR		6-120 HP																						

* Streamer filter clean unit is not available for FXFSQ-CVM.



Max.
64 indoor
units

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

Outdoor Units

VRV 6 X Series

Specifications

												
Model			RXUQ6BYM	RXUQ8BYM	RXUQ10BYM	RXUQ12BYM	RXUQ14BYM	RXUQ16BYM	RXUQ18BYM	RXUQ20BYM		
Combination units			—	—	—	—	—	—	—	—		
			—	—	—	—	—	—	—	—		
Power supply			3-phase, 4-wire system, 380-415 V/380 V, 50/60 Hz									
Cooling capacity	Btu/h		54,600	76,400	95,500	114,000	136,000	154,000	171,000	191,000		
	kW		16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0		
Power consumption	kW		2.98	4.19	5.48	7.31	8.40	9.68	11.4	12.8		
Capacity control	%		19 – 100		13 – 100		10 – 100		9 – 100		7 – 100	
EER (TCVN13256: 2021)			6.17	6.00	6.15	5.94	5.89	5.83	5.57	5.35		
Casing colour			Ivory white (5Y7.5/1)									
Compressor	Type		Hermetically sealed scroll type									
	Motor output	kW	2.4	3.3	3.7	4.5	2.9 + 3.2	3.3 + 3.6	3.8 + 4.1	4.3 + 4.6		
Airflow rate	m³/min		126	153	176	195	195	217	243	294		
Dimensions (H x W x D)	mm		1,660 x 930 x 765			1,660 x 1,240 x 765						
Machine weight	kg		216		236		310		311			
Sound level	dB(A)		54	56		58	59		62	65		
Operation range	°CDB		10 to 52									
Refrigerant	Type		R-410A									
	Charge	kg	6.2	6.3	5.7	5.9	9.2	9.4	9.2	9.4		
Piping connections	Liquid	mm	φ 9.5 (Brazing)			φ 12.7 (Brazing)			φ 15.9 (Brazing)			
	Gas	mm	φ 19.1 (Brazing)		φ 22.2 (Brazing)	φ 28.6 (Brazing)						

													
Model			RXUQ34BYM	RXUQ36BYM	RXUQ38BYM	RXUQ40BYM	RXUQ42BYM	RXUQ44BYM	RXUQ46BYM				
Combination units			RXUQ14BYM	RXUQ16BYM	RXUQ18BYM	RXUQ20BYM	RXUQ12BYM	RXUQ12BYM	RXUQ12BYM				
			RXUQ20BYM	RXUQ20BYM	RXUQ20BYM	RXUQ20BYM	RXUQ12BYM	RXUQ12BYM	RXUQ14BYM				
			—	—	—	—	RXUQ18BYM	RXUQ20BYM	RXUQ20BYM				
Power supply			3-phase, 4-wire system, 380-415 V/380 V, 50/60 Hz										
Cooling capacity	Btu/h		328,000	345,000	362,000	382,000	399,000	420,000	440,000				
	kW		96.0	101	106	112	117	123	129				
Power consumption	kW		21.2	22.5	24.2	25.6	26.1	27.5	28.6				
Capacity control	%		4 – 100						3 – 100				
EER (TCVN13256: 2021)			—	—	—	—	—	—	—				
Casing colour			Ivory white (5Y7.5/1)										
Compressor	Type		Hermetically sealed scroll type										
	Motor output	kW	2.9 + 3.2 + 4.3 + 4.6	3.3 + 3.6 + 4.3 + 4.6	3.8 + 4.1 + 4.3 + 4.6	4.3 + 4.6 + 4.3 + 4.6	4.5 + 4.5 + 3.8 + 4.1	4.5 + 4.5 + 4.3 + 4.6	4.5 + 2.9 + 3.2 + 4.3 + 4.6				
Airflow rate	m³/min		195 + 294	217 + 294	243 + 294	294 + 294	195 + 195 + 243	195 + 195 + 294	195 + 195 + 294				
Dimensions (H x W x D)	mm		(1,660 x 1,240 x 765) + (1,660 x 1,240 x 765)						(1,660 x 1,240 x 765) + (1,660 x 1,240 x 765) + (1,660 x 1,240 x 765)				
Machine weight	kg		310 + 311		311 + 311		236 + 236 + 311			236 + 310 + 311			
Sound level	dB(A)		66		67	69	65	67					
Operation range	°CDB		10 to 52										
Refrigerant	Type		R-410A										
	Charge	kg	9.2 + 9.4	9.4 + 9.4	9.2 + 9.4	9.4 + 9.4	5.9 + 5.9 + 9.2	5.9 + 5.9 + 9.4	5.9 + 9.2 + 9.4				
Piping connections	Liquid	mm	φ 19.1 (Brazing)										
	Gas	mm	φ 34.9 (Brazing)	φ 41.3 (Brazing)									

Notes: Specifications are based on the following conditions;

- Indoor temp.: 27° CDB , 19° CWB / Outdoor temp.: 35° CDB / Equivalent piping length: 7.5m , Height 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.

*EER (TCVN13256: 2021)

According to TCVN13256: 2021 issued by the Ministry of Science and Technology of Vietnam, EER (Energy Efficiency Ratio) is the index to describe the energy saving levels of **VRV** system. EER (TCVN13256: 2021) is calculated according to the following formula:

$$\text{EER (TCVN13256: 2021)} = 0.01 \times \frac{\phi_{100\%}}{P_{100\%}} + 0.42 \times \frac{\phi_{75\%}}{P_{75\%}} + 0.45 \times \frac{\phi_{50\%}}{P_{50\%}} + 0.12 \times \frac{\phi_{25\%}}{P_{25\%}}$$

$\phi n\%$: Cooling capacity at $n\%$ heat load (kW)

$P n\%$: Input power at $n\%$ heat load (kW)

Cooling Only



RXUQ22BYM	RXUQ24BYM	RXUQ26BYM	RXUQ28BYM	RXUQ30BYM	RXUQ32BYM
RXUQ10BYM	RXUQ12BYM	RXUQ12BYM	RXUQ12BYM	RXUQ12BYM	RXUQ12BYM
RXUQ12BYM	RXUQ12BYM	RXUQ14BYM	RXUQ16BYM	RXUQ18BYM	RXUQ20BYM
3-phase, 4-wire system, 380-415 V/380 V, 50/60 Hz					
210,000	229,000	251,000	268,000	285,000	305,000
61.5	67.0	73.5	78.5	83.5	89.5
12.8	14.7	15.8	17.0	18.8	20.2
7 – 100		6 – 100		5 – 100	
—	—	—	—	—	—
Ivory white (5Y7.5/1)					
Hermetically sealed scroll type					
3.7 + 4.5	4.5 + 4.5	4.5 + 2.9 + 3.2	4.5 + 3.3 + 3.6	4.5 + 3.8 + 4.1	4.5 + 4.3 + 4.6
176 + 195	195 + 195	195 + 195	195 + 217	195 + 243	195 + 294
(1,660 x 1,240 x 765) + (1,660 x 1,240 x 765)					
236 + 236		236 + 310		236 + 311	
61	62	64	66		
10 to 52					
R-410A					
5.7 + 5.9	5.9 + 5.9	5.9 + 9.2	5.9 + 9.4	5.9 + 9.2	5.9 + 9.4
ϕ 15.9 (Brazing)		ϕ 19.1 (Brazing)			
ϕ 28.6 (Brazing)		ϕ 34.9 (Brazing)			



RXUQ48BYM	RXUQ50BYM	RXUQ52BYM	RXUQ54BYM	RXUQ56BYM	RXUQ58BYM	RXUQ60BYM
RXUQ12BYM	RXUQ12BYM	RXUQ12BYM	RXUQ14BYM	RXUQ16BYM	RXUQ18BYM	RXUQ20BYM
RXUQ16BYM	RXUQ18BYM	RXUQ20BYM	RXUQ20BYM	RXUQ20BYM	RXUQ20BYM	RXUQ20BYM
RXUQ20BYM	RXUQ20BYM	RXUQ20BYM	RXUQ20BYM	RXUQ20BYM	RXUQ20BYM	RXUQ20BYM
3-phase, 4-wire system, 380-415 V/380 V, 50/60 Hz						
457,000	474,000	495,000	519,000	536,000	553,000	573,000
134	139	145	152	157	162	168
29.8	31.6	33.0	34.0	3.53	37.0	38.4
3 – 100						2 – 100
—	—	—	—	—	—	—
Ivory white (5Y7.5/1)						
Hermetically sealed scroll type						
4.5 + 3.3 + 3.6 + 4.3 + 4.6	4.5 + 3.8 + 4.1 + 4.3 + 4.6	4.5 + 4.3 + 4.6 + 4.3 + 4.6	2.9 + 3.2 + 4.3 + 4.6 + 4.3 + 4.6	3.3 + 3.6 + 4.3 + 4.6 + 4.3 + 4.6	3.8 + 4.1 + 4.3 + 4.6 + 4.3 + 4.6	4.3 + 4.6 + 4.3 + 4.6 + 4.3 + 4.6
195 + 217 + 294	195 + 243 + 294	195 + 294 + 294	195 + 294 + 294	217 + 294 + 294	243 + 294 + 294	294 + 294 + 294
(1,660 x 1,240 x 765) + (1,660 x 1,240 x 765) + (1,660 x 1,240 x 765)						
236 + 310 + 311	236 + 311 + 311		310 + 311 + 311		311 + 311 + 311	
67	68	69	70			
10 to 52						
R-410A						
5.9 + 9.4 + 9.4	5.9 + 9.2 + 9.4	5.9 + 9.4 + 9.4	9.2 + 9.4 + 9.4	9.4 + 9.4 + 9.4	9.2 + 9.4 + 9.4	9.4 + 9.4 + 9.4
ϕ 19.1 (Brazing)						
ϕ 41.3 (Brazing)						

VRV 6 A SERIES

Exceptional Performance in
More Reliable and Compact Structure

Cooling Only
8HP—78HP
(22.4 kW) (219 kW)

New



Single Outdoor units
RXQ8-26BYM

Double Outdoor units
RXQ28-52BYM

Triple Outdoor units
RXQ54-78BYM

Benefits for everyone involved

New **VRV 6 A** series has achieved significant energy savings with improved technology. In a design that is more compact and lightweight, the operating performance has been improved in all directions by introducing unique ideas, technologies and a wide variety of functions to strengthen design flexibility, easy installation and reliability.

VRV 6 A series provides higher benefits to various users related to air conditioning systems, for example, building owners, consultants, installers and building managers.

Upgraded Casing

Saves more space with the new casing for large-capacity single module of up to 26 HP and triple module of up to 78 HP.
Reduces the lifecycle cost with more compact combination.



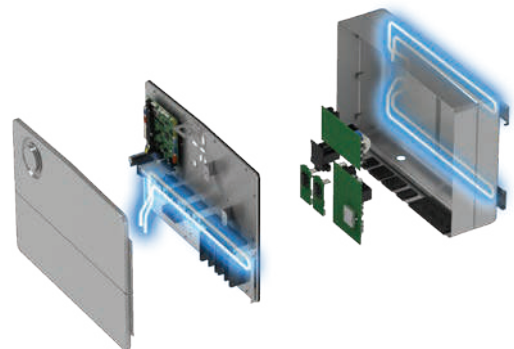
Saves More Energy

Enhanced energy efficiency during actual operation (low load) with a new compressor and VRT Smart II control.



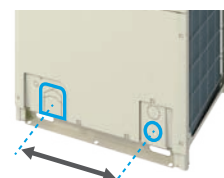
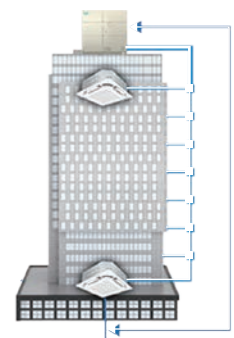
Durable, Stable, Reliable

Operates optimally even in extreme heat and humidity with IP55 sealed electrical component box, expanded operation temperature range, and backup operations



Flexible Design & Easy Installation

Improves workability with long and flexible piping and optimized parts layout



New Casing

Offers advanced design and new structure with excellent workability.

In addition to the conventional combination of two casings, a new large single unit for 22, 24, 26 HP has been added, expanding the range of multiple outdoor units up to 78 HP.



RXQ8,10,12BYM



RXQ14,16,18,20BYM



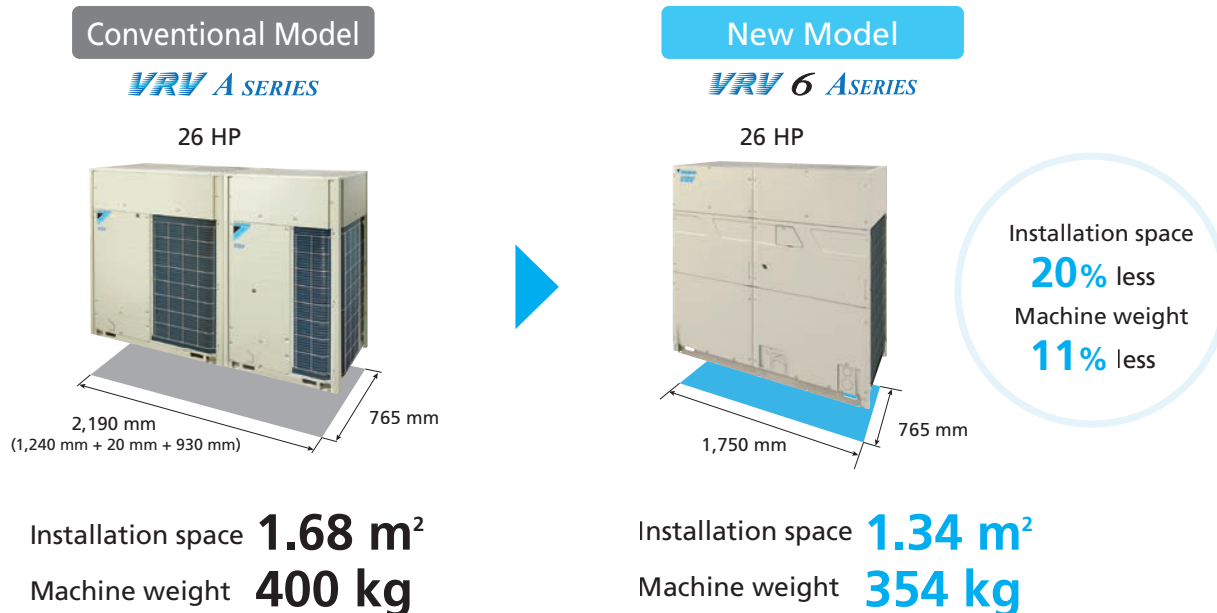
RXQ22,24,26BYM

Outdoor unit combination

System capacity		Number of units	Single module (HP)									
HP	kW		8	10	12	14	16	18	20	22	24	26
8	22.4	Single	●									
10	28.0			●								
12	33.5				●							
14	40.0					●						
16	45.0						●					
18	50.0							●				
20	56.0								●			
22	61.5									●		
24	67.0										●	
26	73.0											●
28	78.5	Double			●		●					
30	83.5				●			●				
32	89.5				●				●			
34	95.0						●	●				
36	100							●				
38	106							●	●			
40	112								●			
42	117							●			●	
44	123							●				●
46	129								●			●
48	134									●		●
50	140										●	●
52	146											●
54	150							●				●
56	156	Triple						●	●			
58	162							●	●			
60	168							●	●			
62	173								●	●		
64	179								●	●	●	
66	185								●	●		●
68	190								●	●		●
70	196								●		●	●
72	202								●			●
74	207									●		●
76	213										●	●
78	219											●

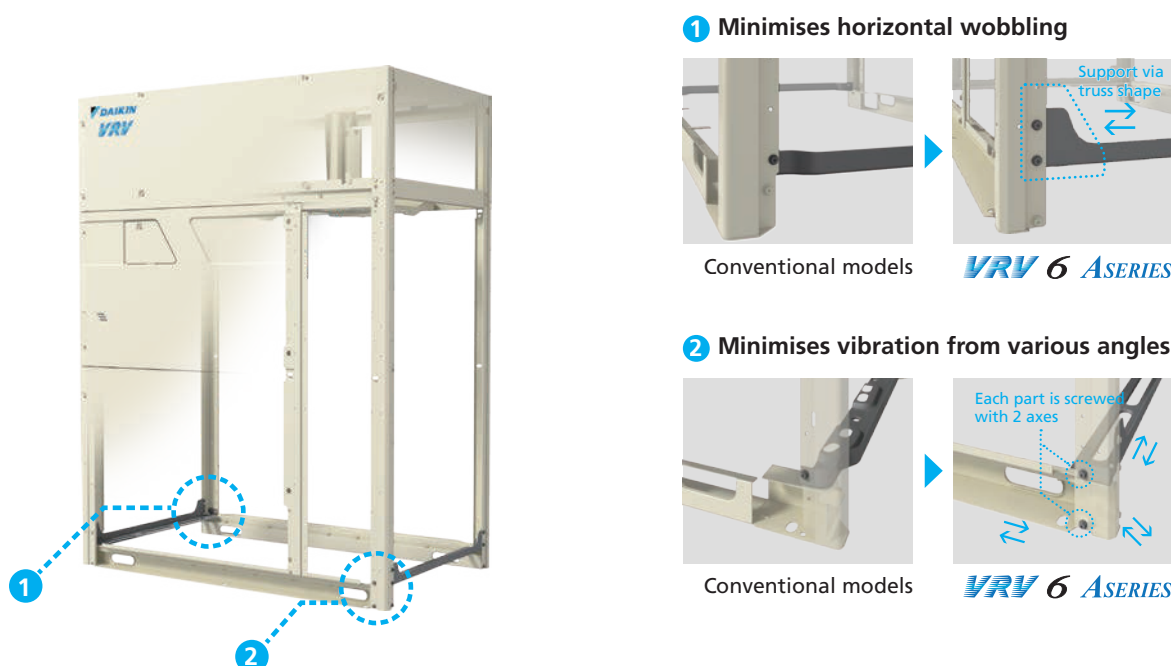
Large capacity single-module

The new large single unit casing reduces installation cost and space.



New reinforced design

The frame structure has been strengthened to improve resistance to earthquakes and wind while protecting against falling damage.



Energy Savings

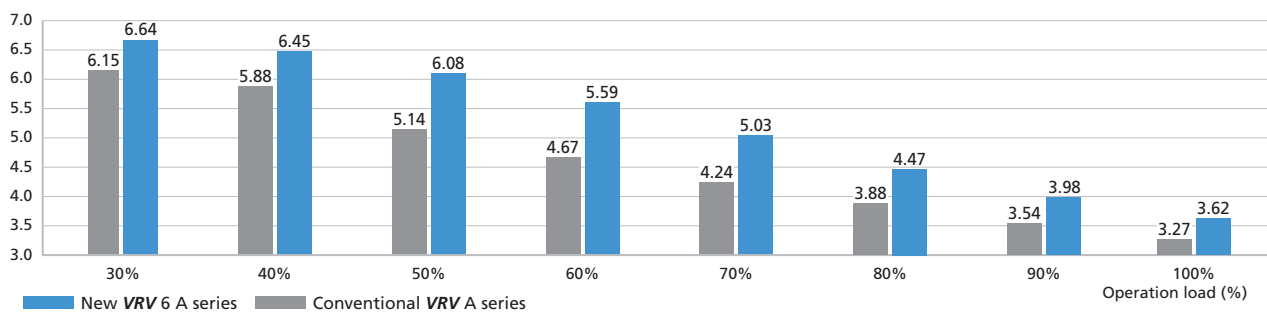
High Integrated Energy Efficiency Ratio EER (TCVN13256: 2021)

New **VRV 6 A** series improves energy efficiency during actual operation (low load), equipped with a new compressor and VRT Smart II control.

Outdoor unit	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP	22 HP	24 HP	26 HP
EER (TCVN13256: 2021)	5.50	5.41	5.11	5.29	4.94	4.97	4.80	4.84	4.75	4.57

EER at low load factor are improved to achieve higher EER (TCVN13256: 2021)

EER (Rated: Cooling operation) for 18 HP model



What is EER (TCVN13256: 2021)?

According to TCVN13256: 2021 issued by the Ministry of Science and Technology of Vietnam, EER (Energy Efficiency Ratio) is the index to describe the energy saving levels of **VRV** system. EER (TCVN13256: 2021) is calculated according to the following formula:

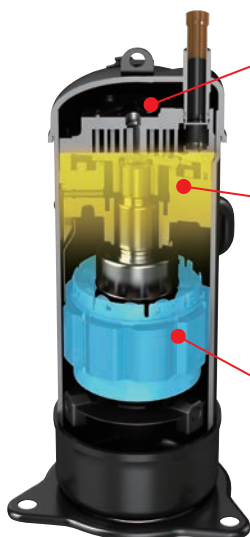
$$\text{EER (TCVN13256: 2021)} = 0.01 \times \frac{\phi_{100\%}}{P_{100\%}} + 0.42 \times \frac{\phi_{75\%}}{P_{75\%}} + 0.45 \times \frac{\phi_{50\%}}{P_{50\%}} + 0.12 \times \frac{\phi_{25\%}}{P_{25\%}}$$

$\phi n\%$: Cooling capacity at $n\%$ heat load (kW)

$P n\%$: Input power at $n\%$ heat load (kW)

Hardware technology High Efficiency Compressor

New technologies increase seasonal efficiency and enable a compact design.



Improvement of the discharge port

By improving the shape of the refrigerant discharge port, the pressure increase near the discharge port of the gas refrigerant after compression is suppressed and the compression loss is reduced.

Optimising the back pressure control / New oil control function

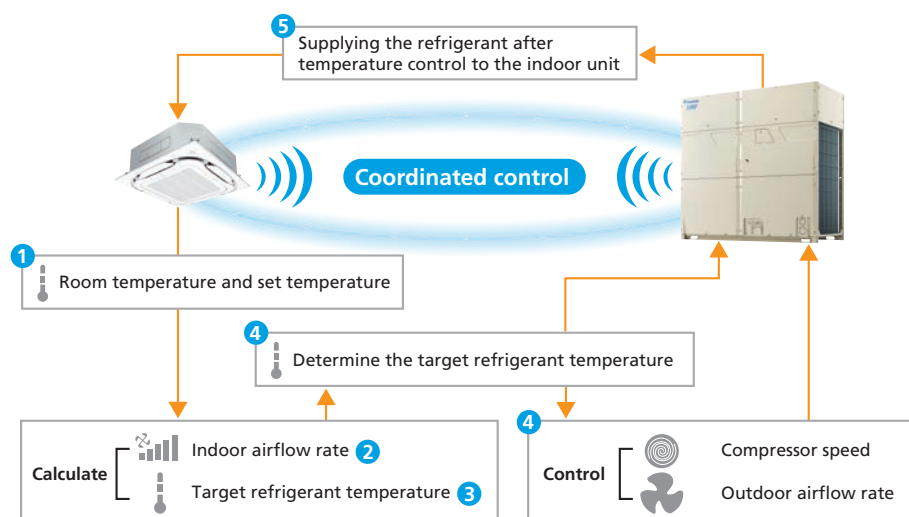
In addition to the conventional intermediate pressure adjustment port, the pressing pressure of the orbiting scroll during operation has been optimised, and the newly adopted oil control mechanism has reduced gas leakage and mechanical loss.

Adoption of a high-performance concentrated motor

By adopting it, the coil circumference is greatly reduced, which makes the coil denser and thicker, and the electrical resistance of the coil is dramatically reduced to improve motor efficiency. Furthermore, the motor is light-weighted and downsized.

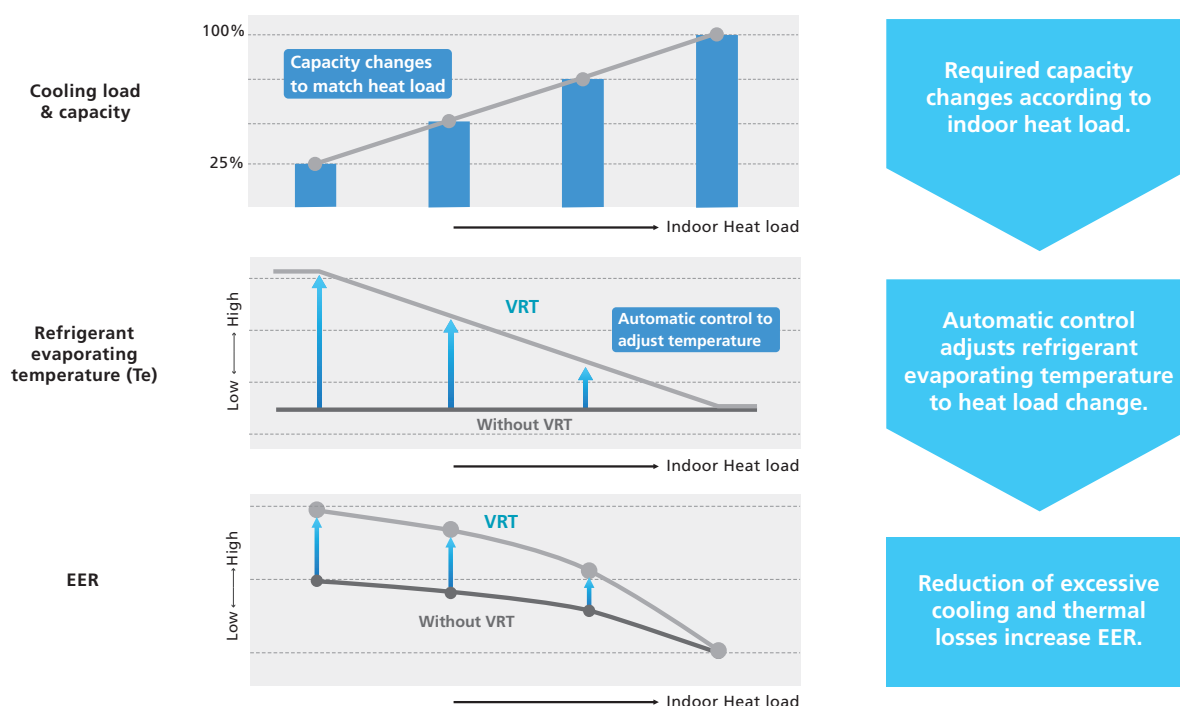
Software technology VRT Smart II control

Optimal supply exactly meets the required capacity of indoor units



- 1 Indoor unit will calculate capacity needed based on ΔT (Room temperature vs set temperature) and room temperature trend.
- 2 Indoor unit will try to regulate with fan speed control.
- 3 If fan cannot control speed, indoor unit request T_e change from outdoor unit.
- 4 Outdoor unit determines the refrigerant temperature based on the demands, and controls the compressor speed and outdoor airflow rate to change the refrigerant temperature.
- 5 The outdoor unit supplies the refrigerant adjusted to moderate temperature to the indoor unit.

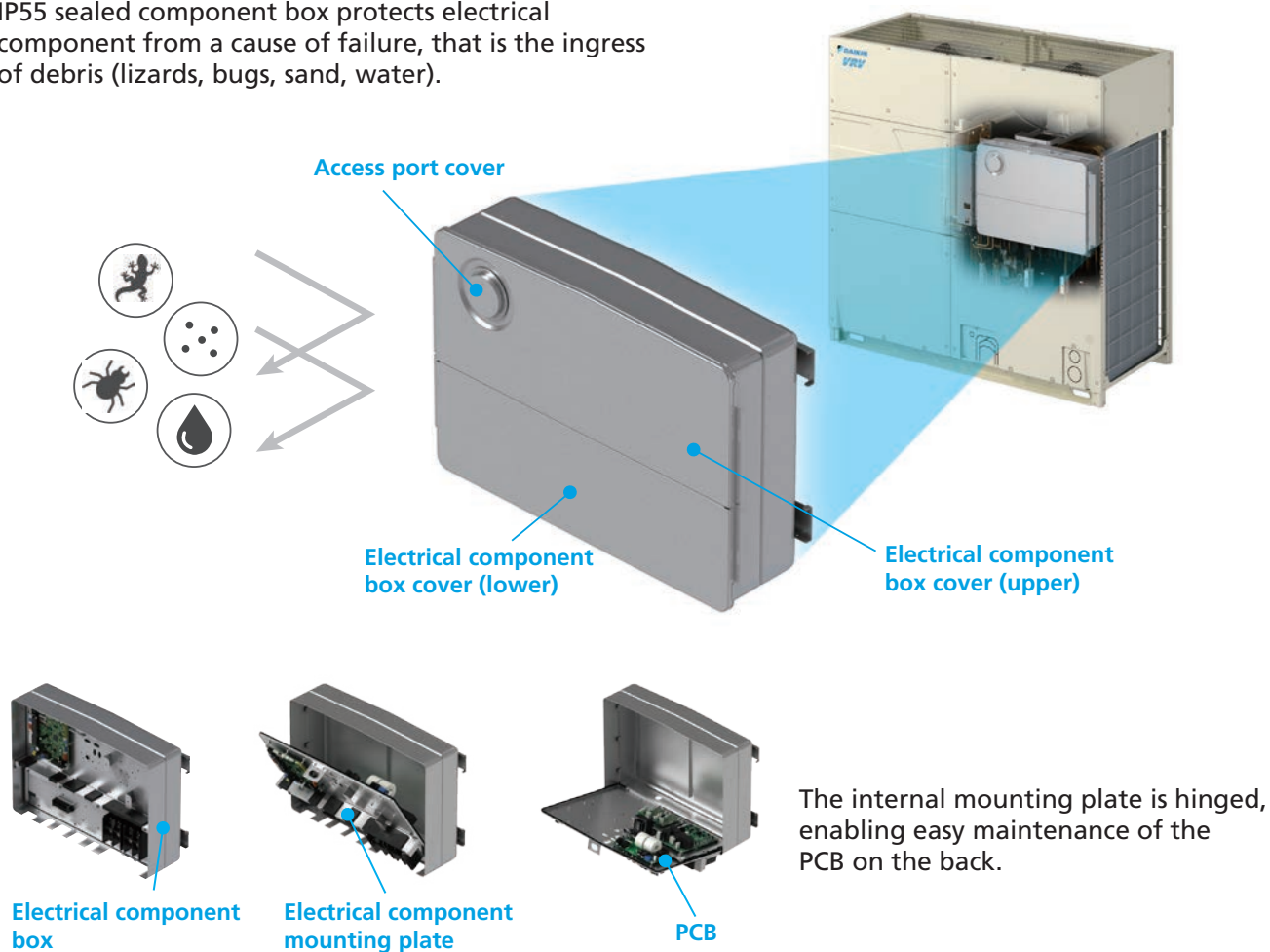
Greatly improved efficiency by adjusting the capacity by the refrigerant temperature



Reliability

■ IP55-compliant sealed component box

IP55 sealed component box protects electrical component from a cause of failure, that is the ingress of debris (lizards, bugs, sand, water).



What is IP55?

IP55 is the degree of dust and water protection for the electrical component box equipped within the outdoor unit.

IP55

Liquid ingress protection **Grade 5**

Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.

Solid particle protection **Grade 5**

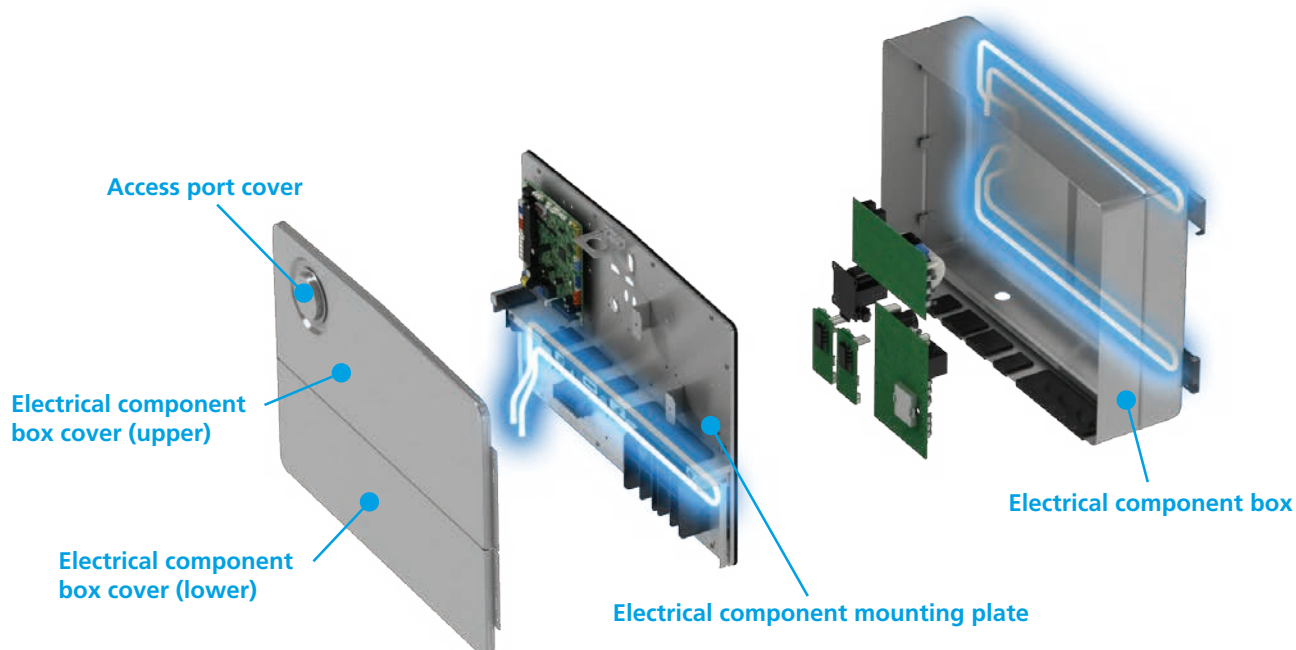
Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment.

Ingress Protection

*IP55 is the protection degree of the electrical component box installed inside the outdoor unit.
The protection grade of the outdoor unit is IP14 as well as the conventional model.

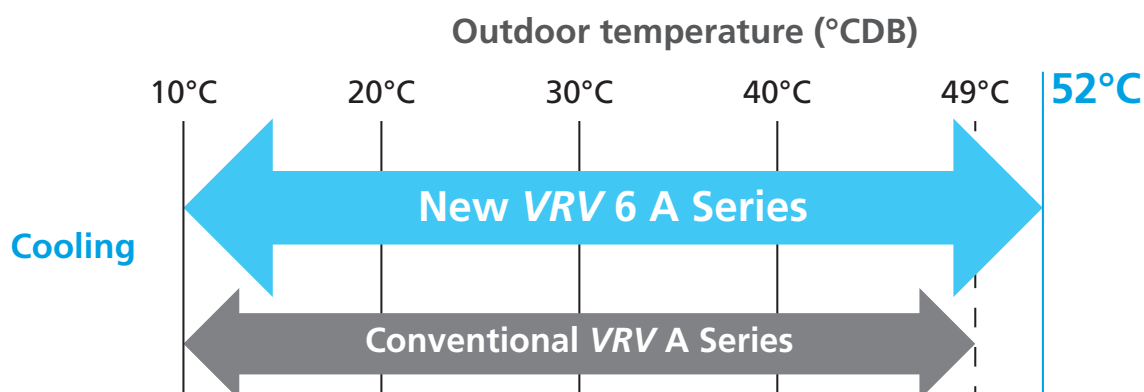
■ Enables operation in high outdoor temperature

Three refrigerant cooling circuits enable stable operation even in high outdoor temperatures by suppressing a temperature rise for the PCB mounted in the sealed electrical component box.



■ Expanded operation temperature range

The outdoor operation temperature range is now extended from 49 to 52°C. This enables reliable operation even under high temperature conditions and a wider choice of installation locations.



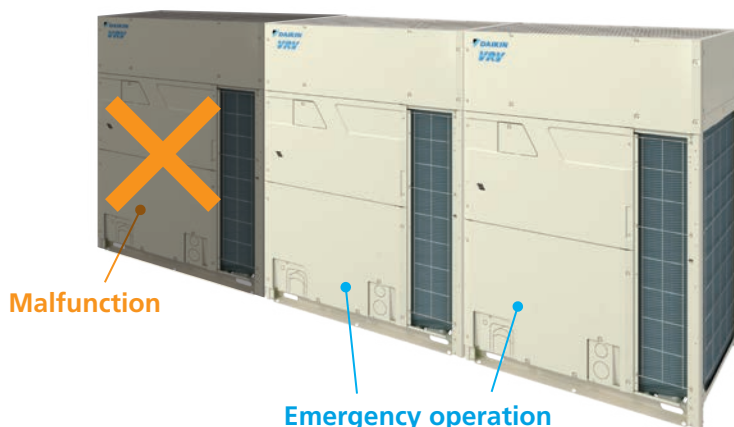
Note: If the height difference between the outdoor units and the indoor units exceeds 90 m, the operating temperature range is up to 49°C (Outdoor units above indoor units only).

Comfort

Backup operation function

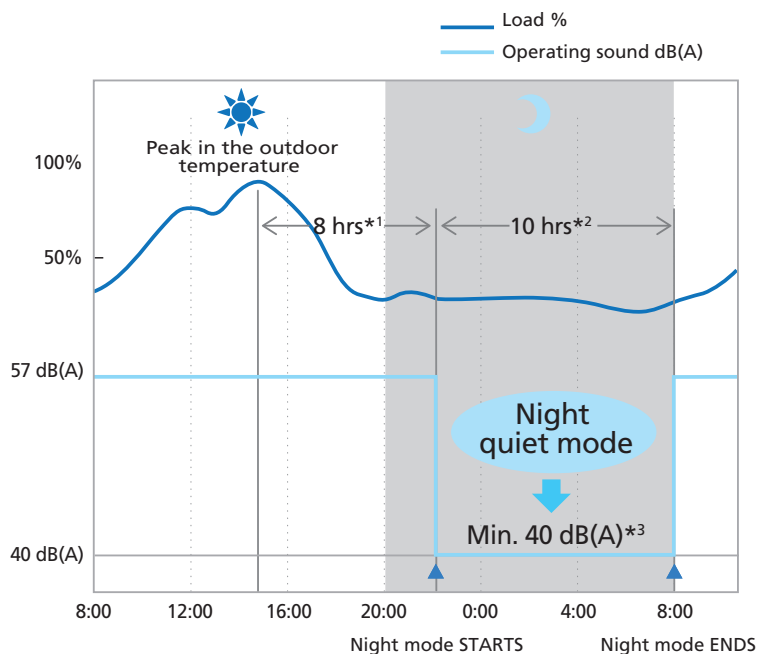
If malfunction occurs in an outdoor unit, the backup operation is supported.
(Only for multiple outdoor units)

Unit backup operation function



Nighttime quiet operation function

The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood. Three selectable modes are available depending on the required level.



*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.

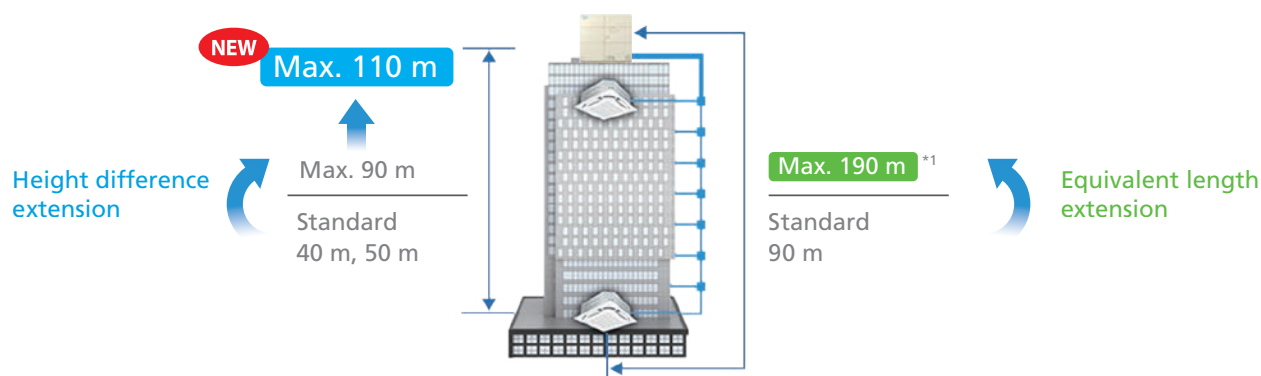
*3. 8-12 HP outdoor unit can maintain $\geq 30\%$ of the rated capacity with the sound < 40 dB(A).
14-26 HP outdoor unit can maintain $\geq 30\%$ of the rated capacity with the sound < 44 dB(A).

Notes: • This function is available in setting at site.

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

■ Simultaneous extension of height difference and equivalent length

Design flexibility is further improved by simultaneous extension of height difference, improved from 90 m to 110 m, and equivalent length (up to 190 m).



• Height difference extension **Max. 110 m**

For height differences exceeding 50 m with the outdoor unit above the indoor unit and 40 m with the outdoor unit below, the main liquid piping size must be increased.

The operating temperature range is up to 49°C (Outdoor units above indoor units only).

The minimum connection capacity index of the indoor unit shall be 62.5 (7.1 kW) or more (Outdoor units above indoor units only).

• Equivalent length **Max. 190 m** ^{*1}

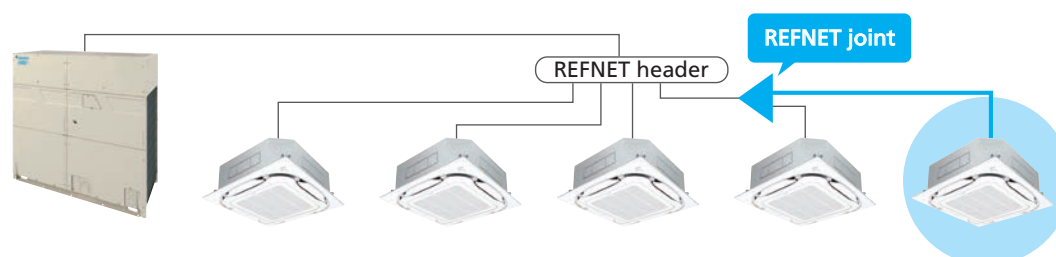
When the equivalent piping length from outdoor unit to indoor unit is 90 m or more, be sure to increase the size of the liquid and gas pipes of the main piping.

*1. Max. equivalent length for 68-78 HP is 145 m.

*2. In addition to increasing the size of the main pipe, there are other piping restrictions regarding height difference extension and equivalent length. Check the Installation Manual for details.

■ REFNET header downstream branching supported

Piping branch by REFNET joint is possible downstream of REFNET header. The indoor unit arrangement can be more flexible.

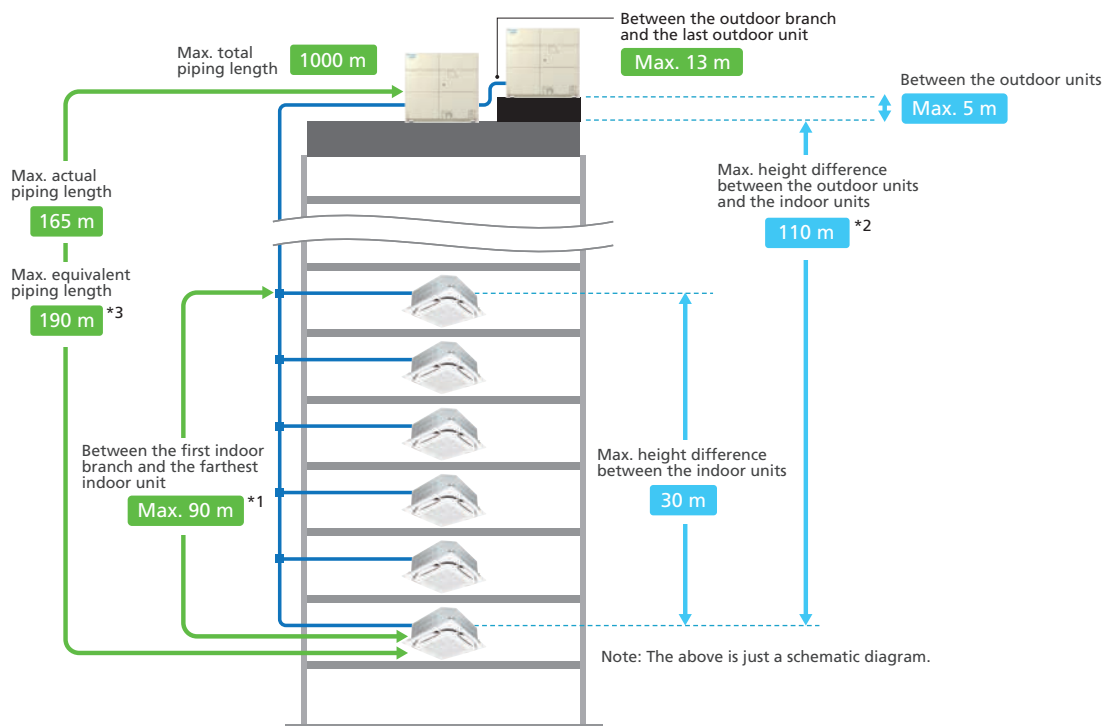


REFNET header	Indoor unit total capacity at REFNET joint
KHRP26M22H, KHRP26M33H, KHRP26M72H	< 50
KHRP26M73H + KHRP26M73HP	≤ 140

Design Flexibility

Long piping length

Long piping length enhances design flexibility, enabling support for large buildings.



		8-66 HP	68-78 HP
Maximum allowable piping length	Actual piping length (Equivalent)	165 m (190 m) ^{*3}	120 m (145 m) ^{*3}
	Total piping length	1000 m	1000 m
	Between the first indoor branch and the farthest indoor unit	90 m ^{*1}	90 m ^{*1}
	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)	10 m (13 m)
Maximum allowable height difference	Between the outdoor units (Multiple use)	5 m	5 m
	Between the indoor units	30 m	30 m
	Between the outdoor units and the indoor units	110 m ^{*2}	110 m ^{*2}

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

*2. When Height differences above 50 m if the outdoor unit is above the indoor unit and 40 m if the outdoor unit is below the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

*3. If equivalent piping length from outdoor unit to indoor unit is 90 m or more, make sure to size up the liquid and gas pipes of the main piping.

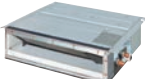
■ Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

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

Conditions of **VRV** indoor unit connection capacity

Applicable VRV indoor units		Indoor units				Other VRV indoor unit models
		When using only the following models	Including at least one of the following models			
		<div></div> <div>FXSQ</div> <div></div> <div>FXDBQ</div> <div></div> <div>FXAQ</div> <div></div> <div>FXD(S)Q</div> <div></div> <div>FXMQ-PA</div> <div></div> <div>FXB(P)Q</div>	<div></div> <div>FXF(T)(R)Q25A*1</div> <div></div> <div>FXVQ</div>	<div></div> <div>FXFSQ25/50C</div>		
Single outdoor units	8 - 20 HP	200%	130%	105%	200%	
	22 - 26 HP				180%	
Double outdoor units					160%	
Triple outdoor units					130%	

*1 FXF(T)(R)Q-A models 32 class and above belong to "Other **VRV** indoor unit models" category.

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

*Refer to the Engineering Data Book for max. connection ratio when Outdoor-Air Processing Unit is connected.

*Refer to page 91 for outdoor unit combination details.

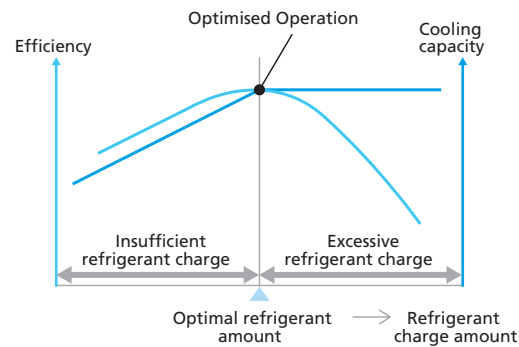
Easy Installation

Automatic refrigerant charge function

Contribute to optimised operation efficiency, higher quality and easier installation.

Optimised operation efficiency

This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



Reduced time for automatic charging operation

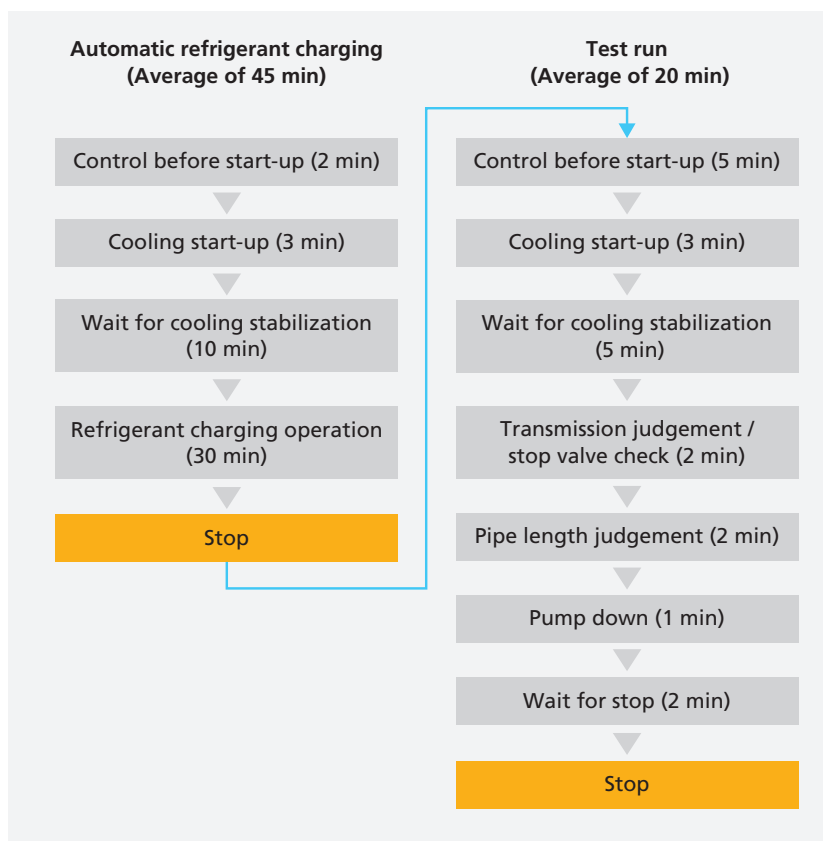
By designing optimal control, the average time has been shortened by 22% (14 min), and the number of on-site operations has been reduced.

Operation time
22% less

Conventional models

Test run is performed after automatic refrigerant charging is finished

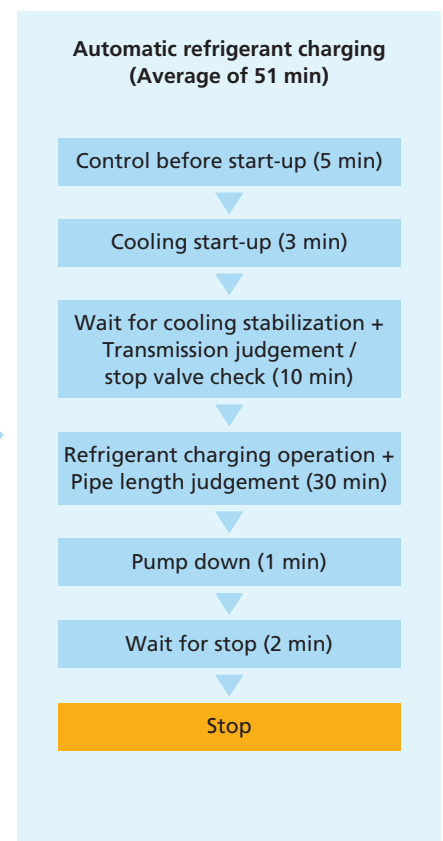
Total of 11 steps, PCB setting: 5 times
Total time: Average of 65 min



New VRV 6 A models

Automatic refrigerant charging and test run are performed at the same time

Reduction to 6 steps, PCB setting: 3 times
Total time: Average of 51 min



Process visualization (Test run only*)

In the new models, in addition to the actual step (t01 to t10), a progress rate (0% to 99%) is available as a guideline when making arrangements for on-site work.

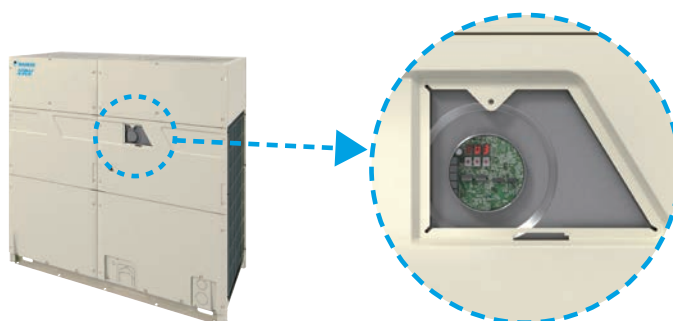
* Effective when test run is carried out independently after manual refrigerant charging.



Electrical component service window

An electrical component service window is newly installed on the front panel. Main PCB 7-segment LED can be accessed without removing the front panel.

Workability is greatly improved during on-site setting or test run. You can also quickly check the error code during service.



Improved refrigerant piping workability

By dividing piping and wiring holes to the left and right, piping and wiring work can be easily performed on site.

Conventional models



Working in closed place is difficult

VRV 6 A SERIES

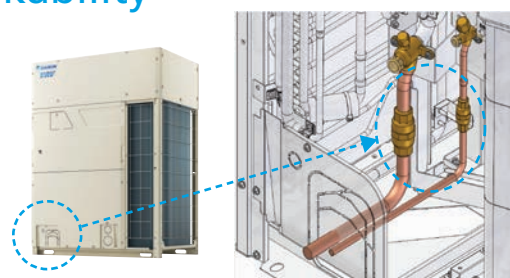


Work becomes easier with sufficient space

Improved by TIGHTFIT connection workability for VRV 6 series in outdoor unit

See page 278

By changing the connection method of refrigerant piping from brazing to TIGHTFIT (Daikin Gas Tight Joint) connection, construction is simplified and installation quality is improved.



TIGHTFIT (Daikin Gas Tight Joint)

Outdoor Unit Lineup

Capacity range from 8 to 78 HP

Lineup

● New lineup

HP	8	10	12	14	16	18	20	22	24	26
Single outdoor units	●	●	●	●	●	●	●	●	●	●

HP	28	30	32	34	36	38	40	42	44	46	48	50	52
Double outdoor units	●	●	●	●	●	●	●	●	●	●	●	●	●

HP	54	56	58	60	62	64	66	68	70	72	74	76	78
Triple outdoor units	●	●	●	●	●	●	●	●	●	●	●	●	●

Outdoor unit combinations

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
8	22.4	200	RXQ8B	RXQ8B	—	100 to 260 (400)	13 (20)
10	28.0	250	RXQ10B	RXQ10B	—	125 to 325 (500)	16 (25)
12	33.5	300	RXQ12B	RXQ12B	—	150 to 390 (600)	19 (30)
14	40.0	350	RXQ14B	RXQ14B	—	175 to 455 (700)	22 (35)
16	45.0	400	RXQ16B	RXQ16B	—	200 to 520 (800)	26 (40)
18	50.0	450	RXQ18B	RXQ18B	—	225 to 585 (900)	29 (45)
20	56.0	500	RXQ20B	RXQ20B	—	250 to 650 (1,000)	32 (50)
22	61.5	550	RXQ22B	RXQ22B	—	275 to 715 (990)	35 (49)
24	67.0	600	RXQ24B	RXQ24B	—	300 to 780 (1,080)	39 (54)
26	73.0	650	RXQ26B	RXQ26B	—	325 to 845 (1,170)	42 (58)
28	78.5	700	RXQ28B	RXQ12B + RXQ16B	BHFP22R135	350 to 910 (1,120)	45 (56)
30	83.5	750	RXQ30B	RXQ12B + RXQ18B		375 to 975 (1,200)	48 (60)
32	89.5	800	RXQ32B	RXQ12B + RXQ20B		400 to 1,040 (1,280)	52 (64)
34	95.0	850	RXQ34B	RXQ16B + RXQ18B		425 to 1,105 (1,360)	55 (64)
36	100	900	RXQ36B	RXQ18B × 2		450 to 1,170 (1,440)	58 (64)
38	106	950	RXQ38B	RXQ18B + RXQ20B		475 to 1,235 (1,520)	61 (64)
40	112	1,000	RXQ40B	RXQ20B × 2		500 to 1,300 (1,600)	64 (64)
42	117	1,050	RXQ42B	RXQ18B + RXQ24B		525 to 1,365 (1,680)	
44	123	1,100	RXQ44B	RXQ18B + RXQ26B		550 to 1,430 (1,760)	
46	129	1,150	RXQ46B	RXQ20B + RXQ26B		575 to 1,495 (1,840)	
48	134	1,200	RXQ48B	RXQ22B + RXQ26B		600 to 1,560 (1,920)	
50	140	1,250	RXQ50B	RXQ24B + RXQ26B		625 to 1,625 (2,000)	
52	146	1,300	RXQ52B	RXQ26B × 2		650 to 1,690 (2,080)	
54	150	1,350	RXQ54B	RXQ18B × 3	BHFP22R168	675 to 1,755 (1,755)	
56	156	1,400	RXQ56B	RXQ18B × 2 + RXQ20B		700 to 1,820 (1,820)	
58	162	1,450	RXQ58B	RXQ18B + RXQ20B × 2		725 to 1,885 (1,885)	
60	168	1,500	RXQ60B	RXQ20B × 3		750 to 1,950 (1,950)	
62	173	1,550	RXQ62B	RXQ20B × 2 + RXQ22B		775 to 2,015 (2,015)	
64	179	1,600	RXQ64B	RXQ20B × 2 + RXQ24B		800 to 2,080 (2,080)	
66	185	1,650	RXQ66B	RXQ20B × 2 + RXQ26B		825 to 2,145 (2,145)	
68	190	1,700	RXQ68B	RXQ20B + RXQ22B + RXQ26B		850 to 2,210 (2,210)	
70	196	1,750	RXQ70B	RXQ20B + RXQ24B + RXQ26B		875 to 2,275 (2,275)	
72	202	1,800	RXQ72B	RXQ20B + RXQ26B × 2		900 to 2,340 (2,340)	
74	207	1,850	RXQ74B	RXQ22B + RXQ26B × 2		925 to 2,405 (2,405)	
76	213	1,900	RXQ76B	RXQ24B + RXQ26B × 2		950 to 2,470 (2,470)	
78	219	1,950	RXQ78B	RXQ26B × 3		975 to 2,535 (2,535)	

Notes: *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 RXQ8-20B, 180% for RXQ22-26B, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 88 for notes on connection capacity of indoor units.

Indoor Unit Lineup

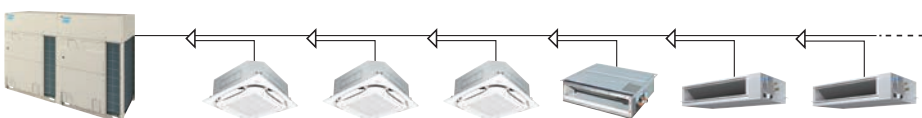
Enhanced range of choices

VRV 6 A Series

VRV 6 A Series

				New lineup				VRT smart	Indoor units subject to VRT smart control								VRT	Indoor units subject to VRT control				
Category	Type	Model Name	Capacity Range	20	25	32	40	50	63	71	80	100	125	140	200	250	400	500				
			Capacity Index	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP				
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM FXFSQ-CVM*																				
	Round Flow Cassette with Streamer	FXFRQ-AVM																				
	Round Flow Cassette	FXFQ-AVM																				
	Compact Multi Flow Cassette	FXZQ-BVM																				
	Double Flow Cassette	FXCQ-BVM																				
	Single Flow Cassette	FXEQ-AV36																				
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM																				
	Bedroom Duct	FXDBQ-AVM																				
	Slim Duct (Standard)	FXDQ-PDVE																				
		FXDQ-NDVE																				
	Slim Duct (Compact)	FXDQ-SPV1																				
	Middle Static Pressure Duct	FXSQ-PAVE																				
	Middle-High Static Pressure Duct	FXMQ-PAVE																				
	High Static Pressure Duct	FXMQ-PVM																				
	Outdoor-Air Processing Unit	FXMQ-MFV1																				
		FXMQ-AFVM																				
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB																				
	Ceiling Suspended	FXHQ-MAVE																				
		FXHQ-BVM																				
New	Wall Mounted	FXAQ-BVM																				
Floor Standing	Floor Standing	FXLQ-MAVE																				
	Concealed Floor Standing	FXNQ-MAVE																				
	Floor Standing Duct	FXVQ-NY1																				
		FXVQ-NY16 (high static pressure type)																				
Clean Room Air Conditioner	FXBQ-PVE																					
	FXBPQ-PVE																					
Heat Reclaim Ventilator with DX-Coil		VKM-GCVE		Airflow rate 500-950 m³/h																		
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h																		
Air Handling Unit		AHUR		6-120 HP																		

* Streamer filter clean unit is not available for FXFSQ-CVM.



Max.
64 indoor
units

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

Outdoor Units

VRV 6 A Series

Specifications

									
Model		RXQ8BYM	RXQ10BYM	RXQ12BYM	RXQ14BYM	RXQ16BYM	RXQ18BYM	RXQ20BYM	
Combination units		—	—	—	—	—	—	—	
Power supply		3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
Cooling capacity	Btu/h	76,400	95,500	114,000	136,000	154,000	171,000	191,000	
	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	
Power consumption	kW	5.00	6.41	8.38	9.88	12.6	13.8	15.9	
Capacity control	%	11 – 100	13 – 100	12 – 100	11 – 100	9 – 100	8 – 100	10 – 100	
EER (TCVN13256: 2021)		5.50	5.41	5.11	5.29	4.94	4.97	4.80	
Casing colour		Ivory white (5Y7.5/1)							
Compressor	Type	Hermetically sealed scroll type							
	Motor output	kW	3.2	3.8	4.6	5.4	6.9	7.9	8.3
Airflow rate	m³/min	158	174	185	237	266	258	306	
Dimensions (H x W x D)		mm	1,660 x 930 x 765			1,660 x 1,240 x 765			
Machine weight	kg	206	210		247	270	285	293	
Sound level	dB(A)	56	57	59	61	63		65	
Operation range		°CDB	10 to 52						
Refrigerant	Type	R-410A							
	Charge	kg	7.2	7.4	7.5	9.6	10.0	11.6	11.7
Piping connections	Liquid	mm	φ 9.5 (Brazing)		φ 12.7 (Brazing)		φ 15.9 (Brazing)		
	Gas	mm	φ 19.1 (Brazing)	φ 22.2 (Brazing)	φ 28.6 (Brazing)				

											
Model			RXQ34BYM	RXQ36BYM	RXQ38BYM	RXQ40BYM	RXQ42BYM	RXQ44BYM	RXQ46BYM		
Combination units			RXQ16BYM	RXQ18BYM	RXQ18BYM	RXQ20BYM	RXQ18BYM	RXQ18BYM	RXQ20BYM		
			RXQ18BYM	RXQ18BYM	RXQ20BYM	RXQ20BYM	RXQ24BYM	RXQ26BYM	RXQ26BYM		
Power supply			—	—	—	—	—	—	—		
Cooling capacity	Btu/h	324,000	341,000	362,000	382,000	399,000	420,000	440,000			
	kW	95.0	100	106	112	117	123	129			
Power consumption	kW	26.4	27.6	29.7	31.8	34.0	37.3	39.4			
Capacity control	%	4 – 100				5 – 100		4 – 100			
EER (TCVN13256: 2021)		—	—	—	—	—	—	—			
Casing colour			Ivory white (5Y7.5/1)								
Compressor	Type	Hermetically sealed scroll type									
	Motor output	kW	6.9 + 7.9	7.9 + 7.9	7.9 + 8.3	8.3 + 8.3	7.9 + 9.8	7.9 + 11.1	8.3 + 11.1		
Airflow rate	m³/min	266 + 258	258 + 258	258 + 306	306 + 306	258 + 390	258 + 411	306 + 411			
Dimensions (H x W x D)		mm	(1,660 x 1,240 x 765) + (1,660 x 1,240 x 765)				(1,660 x 1,240 x 765) + (1,660 x 1,750 x 765)				
Machine weight	kg	270 + 285	285 + 285	285 + 293	293 + 293	285 + 354	285 + 354	293 + 354			
Sound level	dB(A)	67		68	69	70					
Operation range		°CDB	10 to 52								
Refrigerant	Type	R-410A									
	Charge	kg	10.0 + 11.6	11.6 + 11.6	11.6 + 11.7	11.7 + 11.7	11.6 + 11.7		11.7 + 11.7		
Piping connections	Liquid	mm	φ 19.1 (Brazing)								
	Gas	mm	φ 34.9 (Brazing)	φ 41.3 (Brazing)				φ 41.3 (Brazing)			

Notes: Specifications are based on the following conditions;

- Indoor temp.: 27° CDB , 19° CWB / Outdoor temp.: 35° CDB / Equivalent piping length: 7.5m , Height 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.

*EER (TCVN13256: 2021)

According to TCVN13256: 2021 issued by the Ministry of Science and Technology of Vietnam, EER (Energy Efficiency Ratio) is the index to describe the energy saving levels of **VRV** system. EER (TCVN13256: 2021) is calculated according to the following formula:

$$EER (TCVN13256: 2021) = 0.01 \times \frac{\phi_{100\%}}{P_{100\%}} + 0.42 \times \frac{\phi_{75\%}}{P_{75\%}} + 0.45 \times \frac{\phi_{50\%}}{P_{50\%}} + 0.12 \times \frac{\phi_{25\%}}{P_{25\%}}$$

$\phi n\%$: Cooling capacity at $n\%$ heat load (kW)

$P n\%$: Input power at $n\%$ heat load (kW)

Cooling Only

						
	RXQ22BYM	RXQ24BYM	RXQ26BYM	RXQ28BYM	RXQ30BYM	RXQ32BYM
	—	—	—	RXQ12BYM	RXQ12BYM	RXQ12BYM
	—	—	—	RXQ16BYM	RXQ18BYM	RXQ20BYM
	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
	210,000	229,000	249,000	268,000	285,000	305,000
	61.5	67.0	73.0	78.5	83.5	89.5
	17.9	20.2	23.5	21.0	22.2	24.3
	8 – 100			5 – 100		
	4.84	4.75	4.57	—	—	—
	Ivory white (5Y7.5/1)					
	Hermetically sealed scroll type					
	8.9	9.8	11.1	4.6 + 6.9	4.6 + 7.9	4.6 + 8.3
	375	390	411	185 + 266	185 + 258	185 + 306
	1,660 x 1,750 x 765			(1,660 x 930 x 765) + (1,660 x 1,240 x 765)		
	354			210 + 270	210 + 285	210 + 293
	67	68		65		66
	10 to 52					
	R-410A					
	11.7			7.5 + 10.0	7.5 + 11.6	7.5 + 11.7
	φ 15.9 (Brazing)		φ 19.1 (Brazing)			
	φ 28.6 (Brazing)	φ 34.9 (Brazing)				

							
	RXQ48BYM	RXQ50BYM	RXQ52BYM	RXQ54BYM	RXQ56BYM	RXQ58BYM	RXQ60BYM
	RXQ22BYM	RXQ24BYM	RXQ26BYM	RXQ18BYM	RXQ18BYM	RXQ18BYM	RXQ20BYM
	RXQ26BYM	RXQ26BYM	RXQ26BYM	RXQ18BYM	RXQ18BYM	RXQ20BYM	RXQ20BYM
	—	—	—	RXQ18BYM	RXQ20BYM	RXQ20BYM	RXQ20BYM
	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz						
	457,000	478,000	498,000	512,000	532,000	553,000	573,000
	134	140	146	150	156	162	168
	41.4	43.7	47.0	41.4	43.5	45.6	47.7
		4 – 100			3 – 100		
	—	—	—	—	—	—	—
	Ivory white (5Y7.5/1)						
	Hermetically sealed scroll type						
	8.9 + 11.1	9.8 + 11.1	11.1 + 11.1	7.9 + 7.9 + 7.9	7.9 + 7.9 + 8.3	7.9 + 8.3 + 8.3	8.3 + 8.3 + 8.3
	375 + 411	390 + 411	411 + 411	258 + 258 + 258	258 + 258 + 306	258 + 306 + 306	306 + 306 + 306
	(1,660 x 1,750 x 765) + (1,660 x 1,750 x 765)			(1,660 x 1,240 x 765) + (1,660 x 1,240 x 765) + (1,660 x 1,240 x 765)			
	354 + 354	354 + 354	354 + 354	285 + 285 + 285	285 + 285 + 293	285 + 293 + 293	293 + 293 + 293
	71	72		68	69	70	
	10 to 52						
	R-410A						
	11.7 + 11.7			11.6 + 11.6 + 11.6	11.6 + 11.6 + 11.7	11.6 + 11.7 + 11.7	11.7 + 11.7 + 11.7
	φ 19.1 (Brazing)						
	φ 41.3 (Brazing)						

Outdoor Units

VRV 6 A Series

Specifications

									
Model			RXQ62BYM	RXQ64BYM	RXQ66BYM	RXQ68BYM			
Combination units			RXQ20BYM	RXQ20BYM	RXQ20BYM	RXQ20BYM			
			RXQ20BYM	RXQ20BYM	RXQ20BYM	RXQ22BYM			
			RXQ22BYM	RXQ24BYM	RXQ26BYM	RXQ26BYM			
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz						
Cooling capacity	Btu/h		590,000	611,000	631,000	648,000			
	kW		173	179	185	190			
Power consumption	kW		49.7	52.0	55.3	57.3			
Capacity control			3-100						
EER (TCVN13256: 2021)			—	—	—	—			
Casing colour			Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically sealed scroll type						
	Motor output	kW	8.3 + 8.3 + 8.9	8.3 + 8.3 + 9.8	8.3 + 8.3 + 11.1	8.3 + 8.9 + 11.1			
Airflow rate		m³/min	306 + 306 + 375	306 + 306 + 390	306 + 306 + 411	306 + 375 + 411			
Dimensions (H x W x D)		mm	(1,660 × 1,240 × 765) + (1,660 × 1,240 × 765) + (1,660 × 1,750 × 765)					(1,660 × 1,240 × 765) + (1,660 × 1,750 × 765) + (1,660 × 1,750 × 765)	
Machine weight		kg	293 + 293 + 354					293 + 354 + 354	
Sound level		dB(A)	71	72					
Operation range		°CDB	10 to 52						
Refrigerant	Type		R-410A						
	Charge	kg	11.7 + 11.7 + 11.7						
Piping connections	Liquid	mm	φ 19.1 (Brazing)						
	Gas	mm	φ 41.3 (Brazing)						

Notes: Specifications are based on the following conditions;

- Indoor temp.: 27° CDB , 19° CWB / Outdoor temp.: 35° CDB / Equivalent piping length: 7.5m , Height 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.

*EER (TCVN13256: 2021)

According to TCVN13256: 2021 issued by the Ministry of Science and Technology of Vietnam, EER (Energy Efficiency Ratio) is the index to describe the energy saving levels of **VRV** system. EER (TCVN13256: 2021) is calculated according to the following formula:

$$\text{EER (TCVN13256: 2021)} = 0.01 \times \frac{\phi_{100\%}}{P_{100\%}} + 0.42 \times \frac{\phi_{75\%}}{P_{75\%}} + 0.45 \times \frac{\phi_{50\%}}{P_{50\%}} + 0.12 \times \frac{\phi_{25\%}}{P_{25\%}}$$

$\phi n\%$: Cooling capacity at n% heat load (kW)

$P n\%$: Input power at n% heat load (kW)

Cooling Only

					
	RXQ70BYM	RXQ72BYM	RXQ74BYM	RXQ76BYM	RXQ78BYM
	RXQ20BYM	RXQ20BYM	RXQ22BYM	RXQ24BYM	RXQ26BYM
	RXQ24BYM	RXQ26BYM	RXQ26BYM	RXQ26BYM	RXQ26BYM
	RXQ26BYM	RXQ26BYM	RXQ26BYM	RXQ26BYM	RXQ26BYM
	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				
	669,000	689,000	706,000	727,000	747,000
	196	202	207	213	219
	59.6	62.9	64.9	67.2	70.5
	3-100				
	—	—	—	—	—
	Ivory white (5Y7.5/1)				
	Hermetically sealed scroll type				
	8.3 + 9.8 + 11.1	8.3 + 11.1 + 11.1	8.9 + 11.1 + 11.1	9.8 + 11.1 + 11.1	11.1 + 11.1 + 11.1
	306 + 390 + 411	306 + 411 + 411	375 + 411 + 411	390 + 411 + 411	411 + 411 + 411
	(1,660 × 1,240 × 765) + (1,660 × 1,750 × 765) + (1,660 × 1,750 × 765)		(1,660 × 1,750 × 765) + (1,660 × 1,750 × 765) + (1,660 × 1,750 × 765)		
	293 + 354 + 354		354 + 354 + 354		
	72		73		
	10 to 52				
	R-410A				
	11.7 + 11.7 + 11.7				
	φ 19.1 (Brazing)		φ 22.2 (Brazing)		
	φ 41.3 (Brazing)				

VRV X MAX

VRV A MAX

**Heavy Anti-Corrosion Model
Built for Seaside**

Cooling Only
6 HP—60 HP
(16 kW) (168 kW)



VRV X MAX

Single outdoor units
RXUQ6-20AYMW

Double outdoor units
RXUQ12-40AMYMW

Triple outdoor units
RXUQ42-60AMYMW

VRV A MAX

Single outdoor units
RXQ6-20AYMW

Double outdoor units
RXQ18-40AMYMW

Triple outdoor units
RXQ42-60AMYMW

Greater energy savings during low-load operation

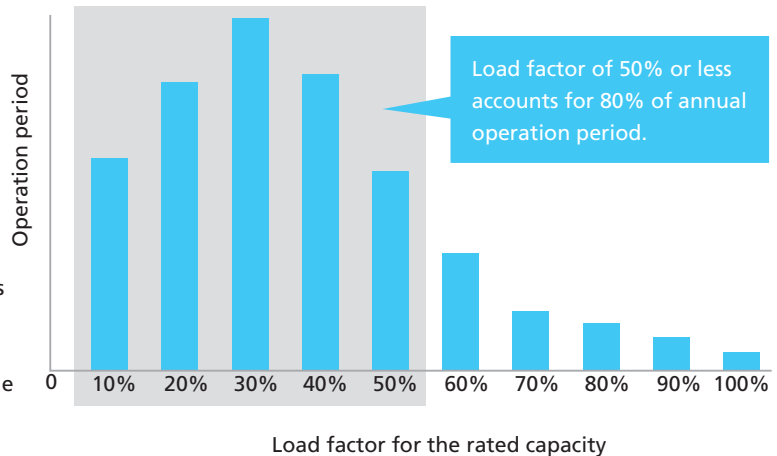
Daikin's **VRV X MAX** and **VRV A MAX** raised the standard of energy efficiency.

The key to innovative energy savings

Increased efficiency during low-load operation.

* Data source

- Number of properties connected to the Air Conditioning Network Service System: 42 projects
- Number of outdoor unit systems: 535 systems
- Data collection period: 8:00-18:00, weekdays (excluding public holidays), from July 2015 to June 2016 in office buildings in Singapore.



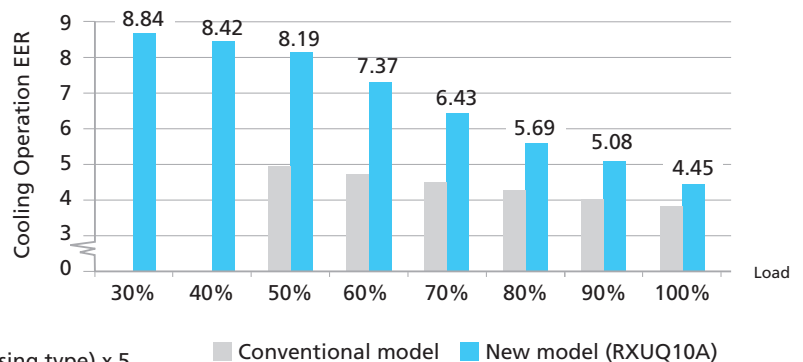
Higher Energy Efficiency Ratio (EER) for 10 HP

VRV X MAX

Annual power consumption
20% Lower

* 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**)



* Cooling operation conditions:

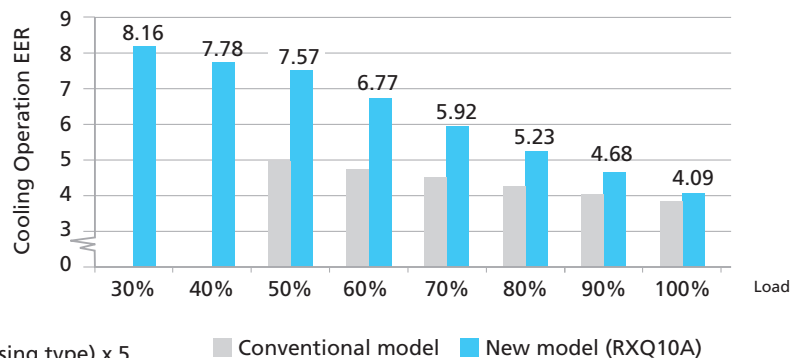
- Indoor temperature of 27°CDB, 19°CWB, and outdoor temperature of 35°CDB.

VRV A MAX

Annual power consumption
14% Lower

* 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**)



* Cooling operation conditions:

- Indoor temperature of 27°CDB, 19°CWB, and outdoor temperature of 35°CDB.

Advanced Technologies

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.

Software technology

VRT Smart Control

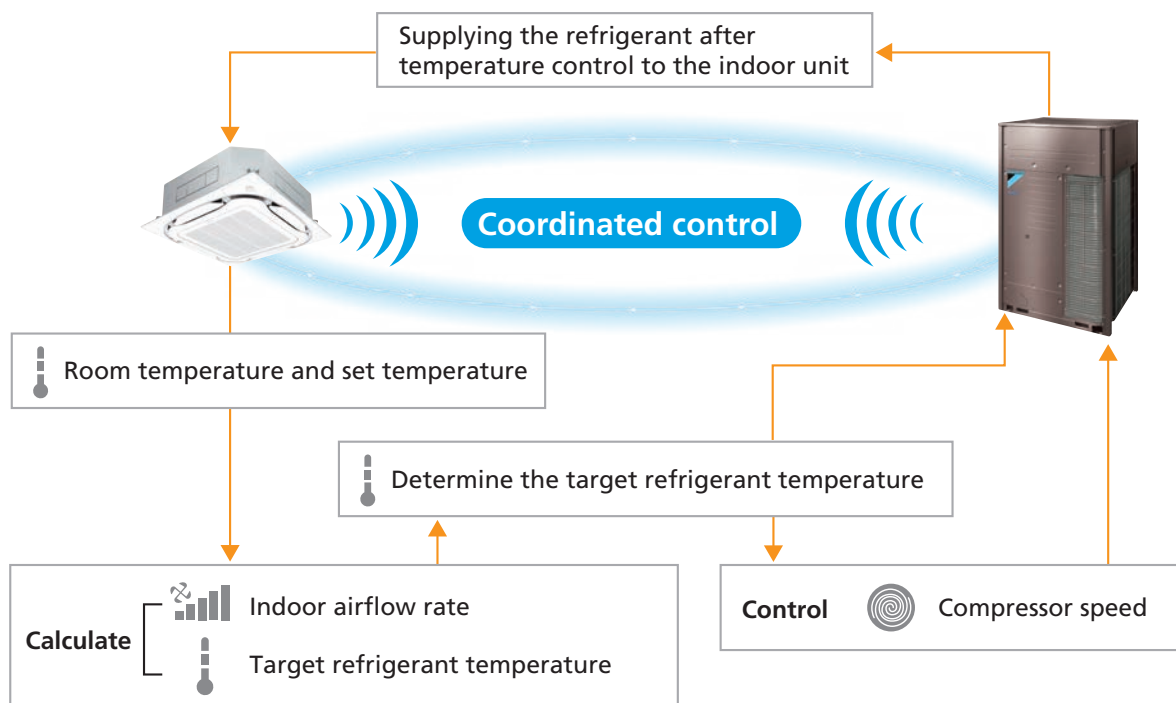
Fully Automatic Energy-saving Refrigerant Control



VRT Smart Control Function movie

■ Optimally supply only for the needed capacity of indoor units

- Reduces compressor load and minimizes operation loss so it is energy saving
- Controls capacity according to load to ensure a constant room temperature for greater comfort.



* For the classification of indoor units (VRT smart control and VRT control), refer to the indoor unit lineup.

VRV + VRT + VAV

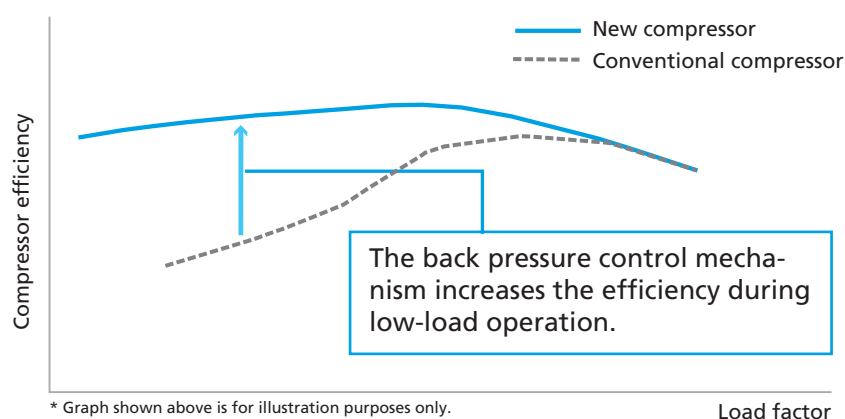
Hardware technology New Scroll Compressor



New Scroll Compressor movie

Refrigerant leakage is minimized during low-load operation

- Refrigerant leakage is minimized by a back pressure control mechanism that increases the efficiency during low-load operation.

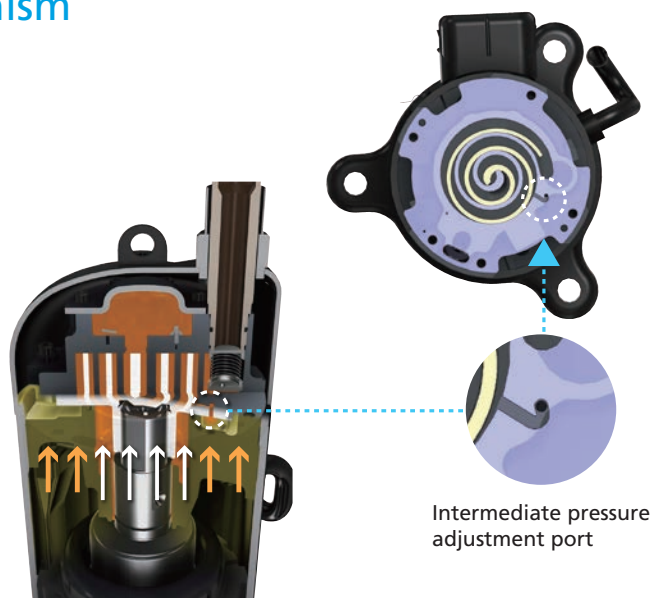


Back pressure control mechanism

New intermediate pressure mechanism

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

* The new mechanism is used in all models except RXQ6/8/16/18AW.



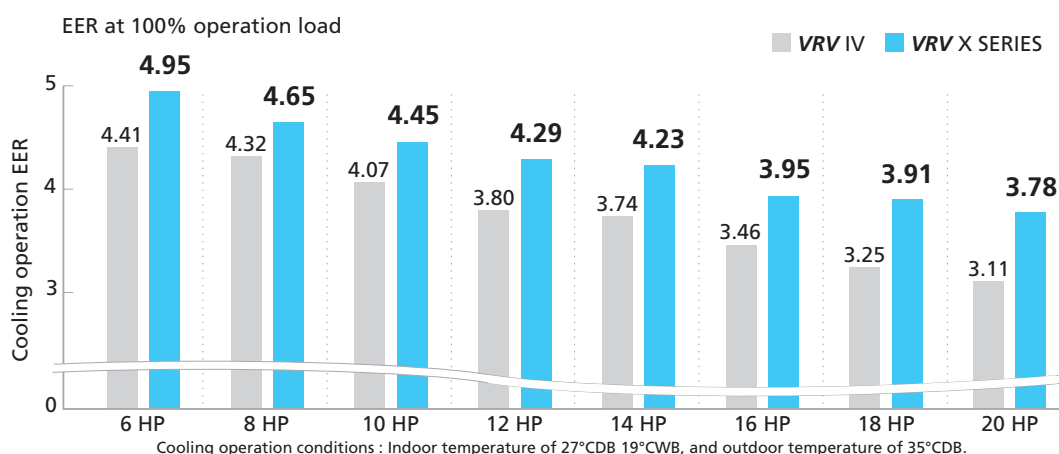
Advanced Technologies

Advanced oil temperature control

Standby power needed for preheating refrigerator oil was **reduced up to 65.4%** for **VRV X MAX** and **82.7%** for **VRV A MAX** to save energy when the air conditioner is stopped.

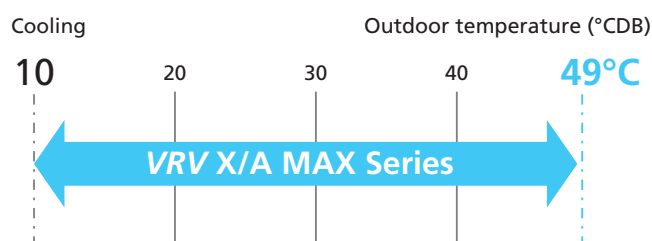
* Operation calculation conditions: VRV X/A MAX series 14 HP
Location: Singapore
Operation time: 08:00–18:00 on weekdays

Higher efficiency is provided during rated operation



Extended operation range up to 49°C

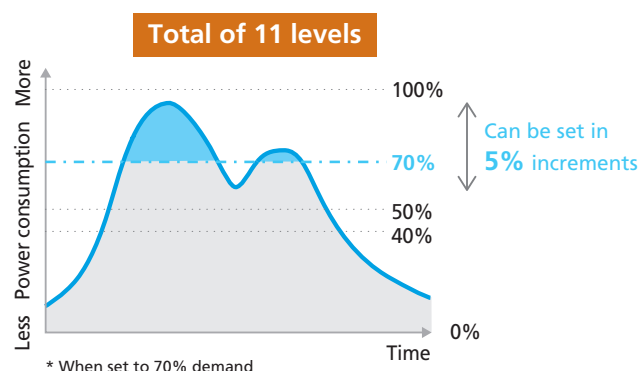
Note: When outdoor temperature falls below 10°C, the thermostat shuts OFF, the outdoor unit stops, and operation switches from cooling to fan operation.



I-demand function

Peak power limit can be accomplished according to each user situation.

* Set on the PCB of the outdoor unit.



High external static pressure

VRV X/A MAX series outdoor unit has been achieved high external static pressure up to **78.4 Pa**.

Active Filter Unit (Option) See page 281

Daikin's Active Filter unit can drastically reduce harmonics, preventing damages from harmonics and extending equipment lifespan.

Automatic refrigerant charge function

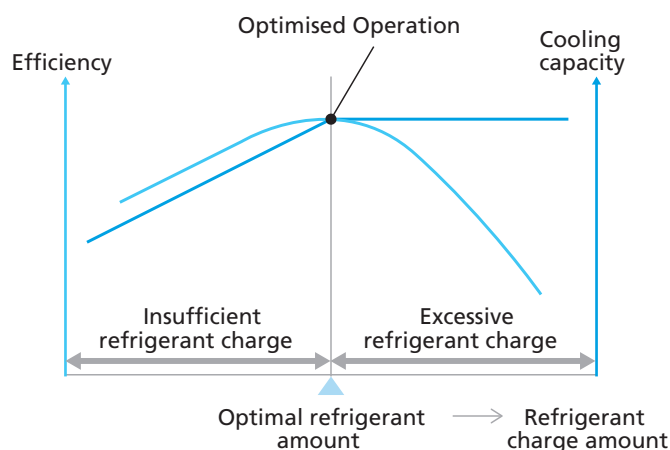
Contribute to optimised operation efficiency, higher quality and easier installation.

Optimised operation efficiency

This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



Automatic Refrigerant Charge Function movie



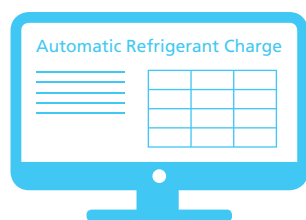
Higher quality and easier installation

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.

1 Calculation of necessary refrigerant amount from design drawing

2 Pre-charge of refrigerant

3 Start of automatic refrigerant charge operation



- Automatic completion by proper refrigerant amount
- Monitoring refrigerant charging is unnecessary
- No recalculation of charge amounts due to minor design changes locally

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

Comfort & Reliability

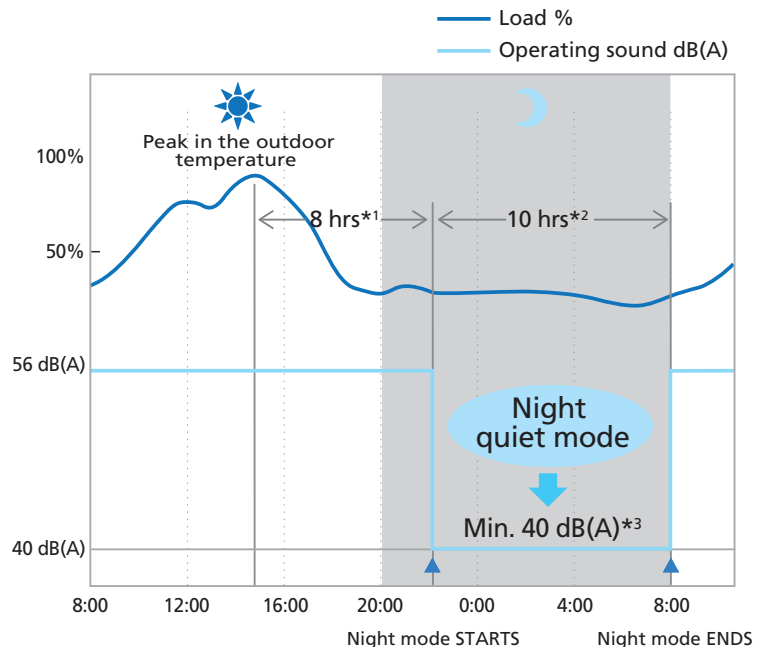
Comfort

Nighttime quiet operation function

The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood. Three selectable modes are available depending on the required level.

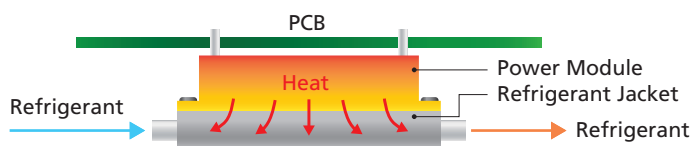
*1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.
*2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.
*3. In case of VRV X MAX 10 HP outdoor unit.

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

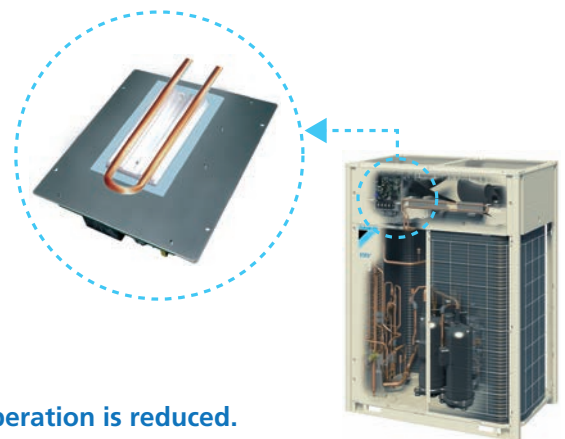


Reliable and stable technology

High reliability at high ambient temperature



Using refrigerant to cool the inverter power module helps minimise the size of the electronic components, and this results in reduction of airflow resistance and high efficiency of the heat exchanger.



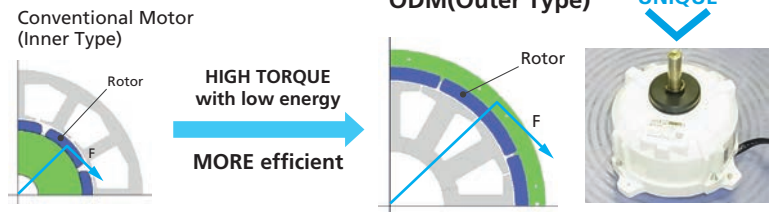
Control board failure ratio at stable operation is reduced.

This enables

- Suitability for high ambient temperatures
- Miniaturization of electronic components

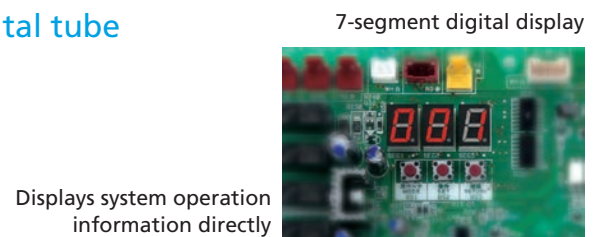
Outer rotor DC motor (ODM)

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



Function of information display by luminous digital tube

VRV X/A MAX series utilises a bright 7-segment digital display to convey operational status and facilitate simple installation and after-sales service.

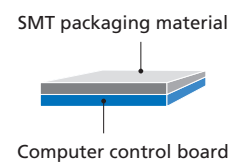
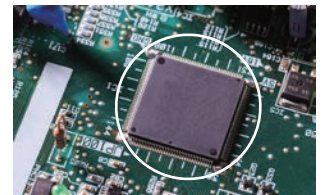


SMT* packaging technology

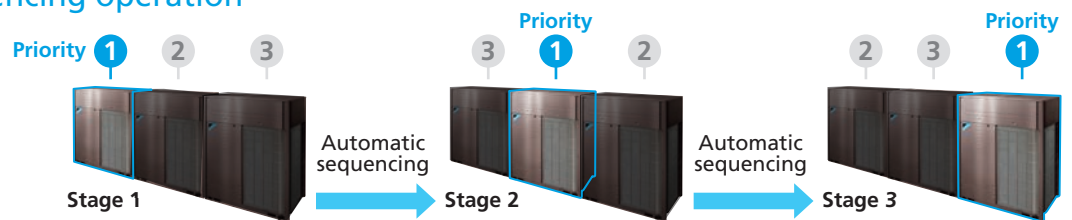
- Improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.

*SMT: Surface mounted technology

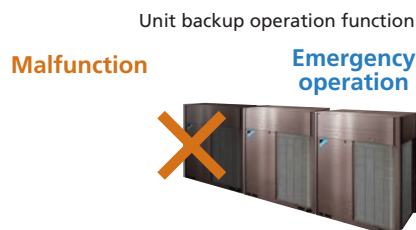
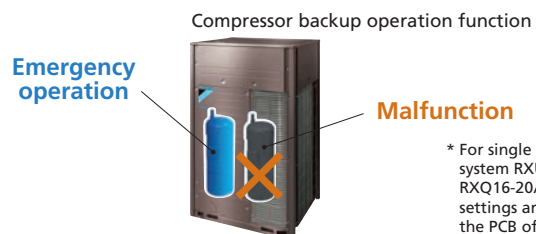
Computer control board surface adopting SMT packaging technology



Automatic sequencing operation



Double backup operation functions

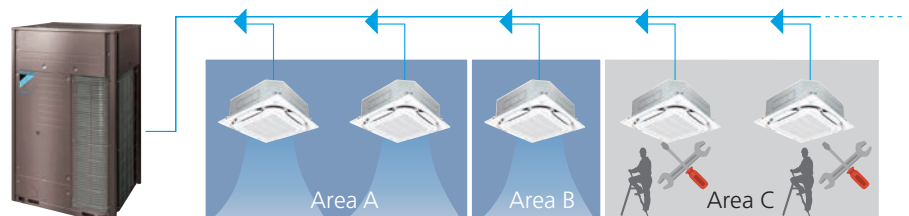


* For single outdoor unit system RXUQ14-20AW and RXQ16-20AW models. On-site settings are required using the PCB of the outdoor unit.

Ease of maintenance

Can provide maintenance feature* without shutting down the whole VRV system.

* Field setting is required.

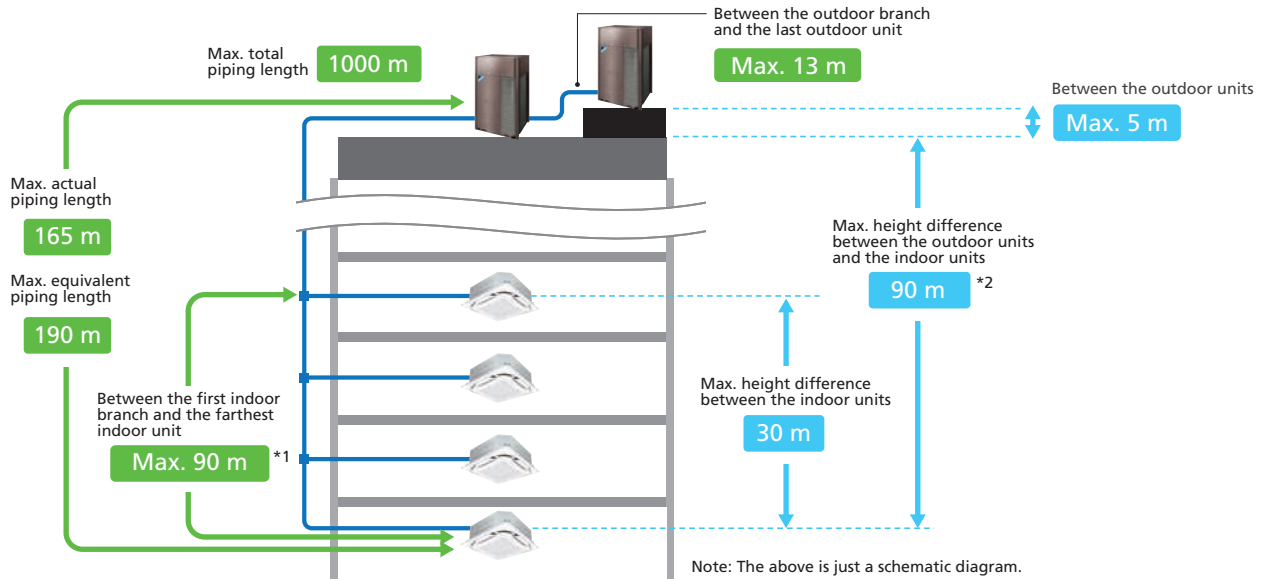


Flexible System Design

More options for installation location

Long piping length

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



Maximum allowable piping length

Actual piping length (Equivalent)	165 m (190 m)
Total piping length	1000 m
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)

Maximum allowable height difference

Between the outdoor units (Multiple use)	5 m
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/A MAX 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 height 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%.

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

Connection ratio
50%–200%

Conditions of VRV indoor unit connection capacity

Applicable VRV indoor units	     	Other VRV indoor unit models* ¹
Single outdoor units	200%	200%
Double outdoor units		160%
Triple outdoor units		130%

*1 For the FXF(T)(R)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.

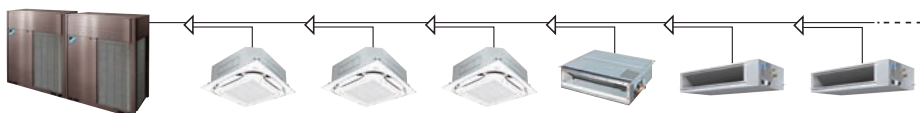
*Refer to page 109 for outdoor unit combination details.

Indoor Unit Lineup

VRV X/A MAX Series

Enhanced range of choices

				New lineup				Indoor units subject to VRT smart control										VRT	Indoor units subject to VRT control				
Category	Type	Model Name		Capacity Range	20	25	32	40	50	63	71	80	100	125	140	200	250	400	500				
					0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP				
				Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	500				
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM	VRT smart																				
	Round Flow Cassette with Streamer	FXFRQ-AVM	VRT smart																				
	Round Flow Cassette	FXFQ-AVM	VRT smart																				
	Compact Multi Flow Cassette	FXZQ-BVM	VRT smart																				
	Double Flow Cassette	FXCQ-BVM	VRT smart																				
	Single Flow Cassette	FXEQ-AV36	VRT																				
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM	VRT																				
	Bedroom Duct	FXDBQ-AVM	VRT smart																				
	Slim Duct (Standard)	FXDQ-PDVE	VRT smart																				
		FXDQ-NDVE	VRT smart																				
	Slim Duct (Compact)	FXDQ-SPV1	VRT																				
	Middle Static Pressure Duct	FXSQ-PAVE	VRT smart																				
	Middle-High Static Pressure Duct	FXMQ-PAVE	VRT smart																				
	High Static Pressure Duct	FXMQ-PVM	VRT smart																				
	Outdoor-Air Processing Unit	FXMQ-MFV1																					
		FXMQ-AFVM	VRT																				
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB	VRT																				
	Ceiling Suspended	FXHQ-MAVE	VRT																				
		FXHQ-BVM	VRT																				
New	Wall Mounted	FXAQ-BVM	VRT smart																				
Floor Standing	Floor Standing	FXLQ-MAVE	VRT																				
	Concealed Floor Standing	FXNQ-MAVE	VRT																				
	Floor Standing Duct	FXVQ-NY1	VRT																				
		FXVQ-NY16 (high static pressure type)	VRT																				
Clean Room Air Conditioner	FXBQ-PVE	VRT																					
	FXBPQ-PVE	VRT																					
Heat Reclaim Ventilator with DX-Coil		VKM-GCVE		Airflow rate 500-950 m³/h																			
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h																			
Air Handling Unit		AHUR		6-120 HP																			



Max.
64 indoor units

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

Anti-corrosion Technology

Heavy anti-corrosion model

VRV X MAX
VRV A MAX

Built for
Seaside



■ Maximize anti-corrosion and performance

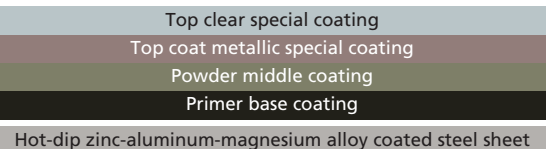
Outer casing

Multi coating for extreme durability

The hot-dip Zinc-Aluminum-Magnesium alloy coated sheet is optimised for even greater durability with an additional four-layer coating combination.



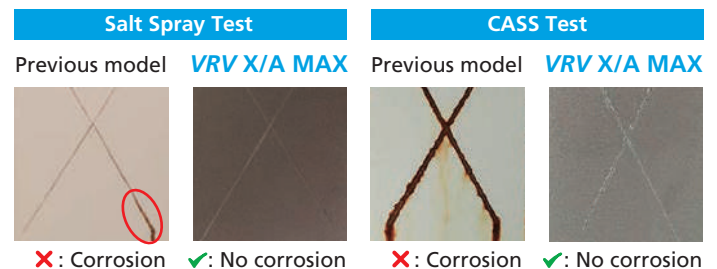
4-layer coating



Anti-corrosion verification by accelerated test

Although the previous anti-corrosion model is rusted, the **VRV X/A MAX** outer casing shows no signs of corrosion in either test.

* The cross cut was made in order to simulate a severe case of coating damage and corrosion (not from regular usage).



Heat exchanger (Fin)

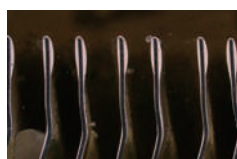
Anti-corrosion technology

The aluminum fins on **VRV X/A MAX** are manufactured with thicker anti-corrosion layer including an additional two-layer coating.

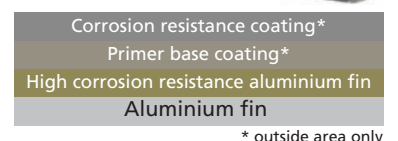


High performance technology

New aluminum fins are 21% thicker to maintain performance.



Achieves both anti-corrosion and high efficiency



* outside area only

Automated fin coating line

To prevent differences in coating thickness caused by manual application, the additional fin coatings are performed on the latest automated assembly line, maintaining high precision and quality.

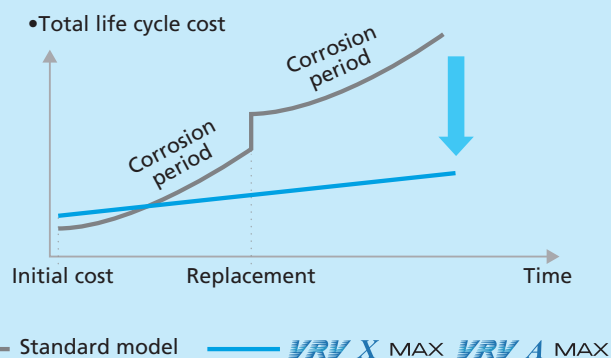
Maximize lifespan

A third party tested the corrosion resistance (ISO 9227: salt spray tests) of the reinforced fins and casing for ISO 12944: 2018 Category C5 and confirmed them to be at very high (VH) levels.

ISO 12944-6:2018	: Paints and varnishes – Corrosion protection of steel structures by protective paint systems
Category C5	: Industrial areas with high humidity and aggressive atmosphere and coastal areas with high salinity
Level VH	: Very high (equivalent to an expected life of 25 years *)
ISO 9227	: Corrosion test in artificial atmospheres-Salt spray tests

* This number of years is not the warranty period of the product.
Product life depends on installation location and operating conditions.

The new model resists corrosion by salt, maintains performance, and greatly reduces life cycle costs.



VRV X MAX VRV A MAX

Built for seaside

Previous model: Anti-corrosion

VRV X MAX VRV A MAX : Heavy Anti-corrosion

<p>Sea wind →</p> <p>Sea</p> <p>Building</p> <p>outdoor unit</p> <p>Must be installed at least 300 m away from the sea in a location not in direct contact with sea wind.</p> <p>300 - 1,000 m</p>	<p>Can be installed right by the sea</p> <p>Sea wind →</p> <p>Sea</p> <p>Building</p> <p>outdoor unit</p> <p>0 - 1000 m</p> <p>Must be installed where the unit does not get into contact with seawater.</p> <p>0 - 1,000 m</p>
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Specifications of anti-corrosion model

Item	Parts		Standard model	VRV X MAX VRV A MAX
1	Sheet metal casing	Outer casing	Hot dip zinc coated sheet + powder coating	Hot-dip zinc-aluminum-magnesium alloy-coated steel sheet + Primer base coating + Powder middle coating + Top coat metallic special coating (metallic brown) + Top clear special coating
2	Discharge grille • Protection net		Low Density Polyethylene (LDPE) coating	
3	Fasteners		SWCH + zinc-nickel plating	SUS410 + zinc-nickel plating
4	Heat exchanger		Copper tube + Standard aluminum fin	Copper tube + Anti-corrosion aluminum fin
5	Aluminum fin		Aluminum fin + Hydrophilic anti-corrosion	Aluminum fin + High corrosion resistance aluminum fin + Primer base coating (outside area only) + Corrosion resistance coating (outside area only)
6	Heat exchanger end plate		Hot-dip zinc-aluminum-magnesium alloy-coated steel sheet without coating	Hot dip zinc coated sheet + corrosion resistance polyurethane coating
7	Fan motor stand • Electric box • Inner casing sheet metal		Galvanized iron sheet	Hot dip zinc coated sheet + corrosion resistance polyurethane coating
8	Fan • Fan motor		Resin fan + resin casing motor	
9	Pressure vessel (oil separator)		Hot rolled sheet steel + painting	Hot rolled sheet steel + Double rust inhibitor coating with additional touch-up paint
10	Printed circuit board		Both side resin coating	Expanded both side resin coating

Outdoor Unit Lineup

VRV X MAX Series

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

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
VRV X MAX SERIES	Single outdoor units	●	●	●	●	●	●	●	●																				
	Double outdoor units				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●										
	Triple outdoor units							●	●											●	●	●	●	●	●	●	●	●	●

Outdoor unit combinations

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	16.0	150	RXUQ6AW	RXUQ6AW	—	75 to 195 (300)	9 (15)
8	22.4	200	RXUQ8AW	RXUQ8AW	—	100 to 260 (400)	13 (20)
10	28.0	250	RXUQ10AW	RXUQ10AW	—	125 to 325 (500)	16 (25)
12	33.5	300	RXUQ12AW	RXUQ12AW	—	150 to 390 (600)	19 (30)
14	40.0	350	RXUQ14AW	RXUQ14AW	—	175 to 455 (700)	22 (35)
16	45.0	400	RXUQ16AW	RXUQ16AW	—	200 to 520 (800)	26 (40)
18	50.0	450	RXUQ18AW	RXUQ18AW	—	225 to 585 (900)	29 (45)
20	56.0	500	RXUQ20AW	RXUQ20AW	—	250 to 650 (1,000)	32 (50)
12	32.0	300	RXUQ12AMW	RXUQ6AW + RXUQ6AW	BHFP22P100	150 to 390 (480)	19 (24)
14	38.4	350	RXUQ14AMW	RXUQ6AW + RXUQ8AW		175 to 455 (560)	22 (28)
16	44.8	400	RXUQ16AMW	RXUQ8AW + RXUQ8AW		200 to 520 (640)	26 (32)
18	50.4	450	RXUQ18AMW	RXUQ8AW + RXUQ10AW		225 to 585 (720)	29 (36)
20	55.9	500	RXUQ20AMW	RXUQ8AW + RXUQ12AW		250 to 650 (800)	32 (40)
18	48.0	450	RXUQ18AM1W	RXUQ6AW × 3	BHFP22P151	225 to 585 (585)	29 (29)
20	54.4	500	RXUQ20AM1W	RXUQ6AW × 2 + RXUQ8AW		250 to 650 (650)	32 (32)
22	61.5	550	RXUQ22AMW	RXUQ10AW + RXUQ12AW	BHFP22P100	275 to 715 (880)	35 (44)
24	67.0	600	RXUQ24AMW	RXUQ12AW × 2		300 to 780 (960)	39 (48)
26	73.5	650	RXUQ26AMW	RXUQ12AW + RXUQ14AW		325 to 845 (1,040)	42 (52)
28	78.5	700	RXUQ28AMW	RXUQ12AW + RXUQ16AW		350 to 910 (1,120)	45 (56)
30	83.5	750	RXUQ30AMW	RXUQ12AW + RXUQ18AW		375 to 975 (1,200)	48 (60)
32	89.5	800	RXUQ32AMW	RXUQ12AW + RXUQ20AW		400 to 1,040 (1,280)	52 (64)
34	96.0	850	RXUQ34AMW	RXUQ14AW + RXUQ20AW		425 to 1,105 (1,360)	55 (64)
36	101	900	RXUQ36AMW	RXUQ16AW + RXUQ20AW		450 to 1,170 (1,440)	58 (64)
38	106	950	RXUQ38AMW	RXUQ18AW + RXUQ20AW	BHFP22P151	475 to 1,235 (1,520)	61 (64)
40	112	1,000	RXUQ40AMW	RXUQ20AW × 2		500 to 1,300 (1,600)	64 (64)
42	117	1,050	RXUQ42AMW	RXUQ12AW × 2 + RXUQ18AW		525 to 1,365 (1,365)	64 (64)
44	123	1,100	RXUQ44AMW	RXUQ12AW × 2 + RXUQ20AW		550 to 1,430 (1,430)	
46	130	1,150	RXUQ46AMW	RXUQ12AW + RXUQ14AW + RXUQ20AW		575 to 1,495 (1,495)	
48	135	1,200	RXUQ48AMW	RXUQ12AW + RXUQ16AW + RXUQ20AW		600 to 1,560 (1,560)	
50	140	1,250	RXUQ50AMW	RXUQ12AW + RXUQ18AW + RXUQ20AW		625 to 1,625 (1,625)	
52	146	1,300	RXUQ52AMW	RXUQ12AW + RXUQ20AW × 2		650 to 1,690 (1,690)	
54	152	1,350	RXUQ54AMW	RXUQ14AW + RXUQ20AW × 2		675 to 1,755 (1,755)	
56	157	1,400	RXUQ56AMW	RXUQ16AW + RXUQ20AW × 2		700 to 1,820 (1,820)	
58	162	1,450	RXUQ58AMW	RXUQ18AW + RXUQ20AW × 2		725 to 1,885 (1,885)	
60	168	1,500	RXUQ60AMW	RXUQ20AW × 3		750 to 1,950 (1,950)	

Notes: *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 105 for notes on connection capacity of indoor units.

VRV A MAX Series

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

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
VRV A MAX SERIES	Single outdoor units	●	●	●	●	●	●	●	●																				
	Double outdoor units							●	●	●	●	●	●	●	●	●	●	●	●										
	Triple outdoor units																			●	●	●	●	●	●	●	●	●	●

Outdoor unit combinations

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	16.0	150	RXQ6AW	RXQ6AW	—	75 to 195 (300)	9 (15)
8	22.4	200	RXQ8AW	RXQ8AW	—	100 to 260 (400)	13 (20)
10	28.0	250	RXQ10AW	RXQ10AW	—	125 to 325 (500)	16 (25)
12	33.5	300	RXQ12AW	RXQ12AW	—	150 to 390 (600)	19 (30)
14	40.0	350	RXQ14AW	RXQ14AW	—	175 to 455 (700)	22 (35)
16	45.0	400	RXQ16AW	RXQ16AW	—	200 to 520 (800)	26 (40)
18	50.0	450	RXQ18AW	RXQ18AW	—	225 to 585 (900)	29 (45)
20	56.0	500	RXQ20AW	RXQ20AW	—	250 to 650 (1,000)	32 (50)
18	50.4	450	RXQ18AMW	RXQ8AW + RXQ10AW	BHFP22P100	225 to 585 (720)	29 (36)
20	55.9	500	RXQ20AMW	RXQ8AW + RXQ12AW		250 to 650 (800)	32 (40)
22	61.5	550	RXQ22AMW	RXQ10AW + RXQ12AW		275 to 715 (880)	35 (44)
24	67.0	600	RXQ24AMW	RXQ12AW × 2		300 to 780 (960)	39 (48)
26	73.5	650	RXQ26AMW	RXQ12AW + RXQ14AW		325 to 845 (1,040)	42 (52)
28	78.5	700	RXQ28AMW	RXQ12AW + RXQ16AW		350 to 910 (1,120)	45 (56)
30	83.5	750	RXQ30AMW	RXQ12AW + RXQ18AW		375 to 975 (1,200)	48 (60)
32	90.0	800	RXQ32AMW	RXQ14AW + RXQ18AW		400 to 1,040 (1,280)	52 (64)
34	95.0	850	RXQ34AMW	RXQ16AW + RXQ18AW		425 to 1,105 (1,360)	55 (64)
36	100	900	RXQ36AMW	RXQ18AW × 2		450 to 1,170 (1,440)	58 (64)
38	106	950	RXQ38AMW	RXQ18AW + RXQ20AW		475 to 1,235 (1,520)	61 (64)
40	112	1,000	RXQ40AMW	RXQ20AW × 2		500 to 1,300 (1,600)	64 (64)
42	117	1,050	RXQ42AMW	RXQ12AW × 2 + RXQ18AWW	BHFP22P151	525 to 1,365 (1,365)	
44	123	1,100	RXQ44AMW	RXQ12AW × 2 + RXQ20AW		550 to 1,430 (1,430)	
46	130	1,150	RXQ46AMW	RXQ14AW × 2 + RXQ18AW		575 to 1,495 (1,495)	
48	135	1,200	RXQ48AMW	RXQ14AW + RXQ16AW + RXQ18AW		600 to 1,560 (1,560)	
50	140	1,250	RXQ50AMW	RXQ14AW + RXQ18AW × 2		625 to 1,625 (1,625)	
52	145	1,300	RXQ52AMW	RXQ16AW + RXQ18AW × 2		650 to 1,690 (1,690)	
54	150	1,350	RXQ54AMW	RXQ18AW × 3		675 to 1,755 (1,755)	
56	156	1,400	RXQ56AMW	RXQ18AW × 2 + RXQ20AW		700 to 1,820 (1,820)	
58	162	1,450	RXQ58AMW	RXQ18AW + RXQ20AW × 2		725 to 1,885 (1,885)	
60	168	1,500	RXQ60AMW	RXQ20AW × 3		750 to 1,950 (1,950)	

Notes: *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 105 for notes on connection capacity of indoor units.

Outdoor Units

VRV X MAX Series

Specifications

												
MODEL			RXUQ6AYMW	RXUQ8AYMW	RXUQ10AYMW	RXUQ12AYMW	RXUQ14AYMW	RXUQ16AYMW	RXUQ18AYMW	RXUQ20AYMW		
Combination units			—	—	—	—	—	—	—	—		
			—	—	—	—	—	—	—	—		
			—	—	—	—	—	—	—	—		
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz									
Cooling capacity		Btu/h	54,600	76,400	95,500	114,000	136,000	154,000	171,000	191,000		
		kW	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0		
Power consumption		kW	3.23	4.82	6.29	7.81	9.46	11.4	12.8	14.8		
Capacity control		%	23-100	19-100	13-100	12-100	11-100	9-100		7-100		
Casing colour			Metallic brown									
Compressor	Type		Hermetically sealed scroll type									
	Motor output	kW	2.4×1	3.4×1	4.2×1	5.2×1	(3.4×1)+(2.9×1)	(3.4×1)+(3.9×1)	(3.7×1)+(4.3×1)	(4.9×1)+(4.2×1)		
Airflow rate		m³/min	119	178		191	218		268	297		
Dimensions (H×W×D)		mm	1,657×930×765			1,657×1,240×765						
Machine weight		kg	(195)		(235)		(295)		(316)			
Sound level		dB(A)	54	56		58	59		62	65		
Operation range		°CDB	10 to 49									
Refrigerant	Type		R-410A									
	Charge	kg	6.4	6.6	8.3	8.5	9.7	9.8	11.7			
Piping connections	Liquid	mm	φ 9.5 (Brazing)			φ 12.7 (Brazing)			φ 15.9 (Brazing)			
	Gas	mm	φ 19.1 (Brazing)		φ 22.2 (Brazing)	φ 28.6 (Brazing)						

											
MODEL			RXUQ28AYMW	RXUQ30AYMW	RXUQ32AYMW	RXUQ34AYMW	RXUQ36AYMW	RXUQ38AYMW	RXUQ40AYMW		
Combination units			RXUQ12AYMW	RXUQ12AYMW	RXUQ12AYMW	RXUQ14AYMW	RXUQ16AYMW	RXUQ18AYMW	RXUQ20AYMW		
			RXUQ16AYMW	RXUQ18AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW		
			—	—	—	—	—	—	—		
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz								
Cooling capacity	Btu/h		268,000	285,000	305,000	328,000	345,000	362,000	382,000		
	kW		78.5	83.5	89.5	96.0	101	106	112		
Power consumption	kW		19.2	20.6	22.6	24.3	26.2	27.6	29.6		
Capacity control	%		5-100			4-100					
Casing colour			Metallic brown								
Compressor	Type		Hermetically sealed scroll type								
	Motor output	kW	(5.2x1)+(3.4x1)+(3.9x1)	(5.2x1)+(3.7x1)+(4.3x1)	(5.2x1)+(4.9x1)+(4.2x1)	(3.4x1)+(2.9x1)+(4.9x1)+(4.2x1)	(3.4x1)+(3.9x1)+(4.9x1)+(4.2x1)	(3.7x1)+(4.3x1)+(4.9x1)+(4.2x1)	(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)		
Airflow rate		m³/min	191+218	191+268	191+297	218+297		268+297	297+297		
Dimensions (HxWxD)		mm	(1,657x1,240x765)+(1,657x1,240x765)								
Machine weight		kg	(235+295)	(235+316)		(295+316)		(316+316)			
Sound level		dB(A)	62	63	66			67	68		
Operation range		°CDB	10 to 49								
Refrigerant	Type		R-410A								
	Charge	kg	8.5+9.8	8.5+11.7		9.7+11.7	9.8+11.7	11.7+11.7			
Piping connections	Liquid	mm	φ 19.1 (Brazing)								
	Gas	mm	φ 34.9 (Brazing)				φ 41.3 (Brazing)				

Notes: Specifications are based on the following conditions;

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

Cooling Only

											
	RXUQ12AMYMW	RXUQ14AMYMW	RXUQ16AMYMW	RXUQ18AMYMW	RXUQ20AMYMW	RXUQ18AM1YM	RXUQ20AM1YM	RXUQ22AMYMW	RXUQ24AMYMW	RXUQ26AMYMW	
	RXUQ6AYMW	RXUQ6AYMW	RXUQ8AYMW	RXUQ8AYMW	RXUQ8AYMW	RXUQ6AYMW	RXUQ6AYMW	RXUQ10AYMW	RXUQ12AYMW	RXUQ12AYMW	
	RXUQ6AYMW	RXUQ8AYMW	RXUQ8AYMW	RXUQ10AYMW	RXUQ12AYMW	RXUQ6AYMW	RXUQ6AYMW	RXUQ12AYMW	RXUQ12AYMW	RXUQ14AYMW	
	—	—	—	—	—	RXUQ6AYMW	RXUQ8AYMW	—	—	—	
3-phase 4-wire system, 380-415 V/380 V, 50/60 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	6-100			
	Metallic brown										
	Hermetically sealed scroll type										
	(2.4x1)+(2.4x1)	(2.4x1)+(3.4x1)	(3.4x1)+(3.4x1)	(3.4x1)+(4.2x1)	(3.4x1)+(5.2x1)	(2.4x1)+(2.4x1)+(2.4x1)	(2.4x1)+(2.4x1)+(3.4x1)	(4.2x1)+(5.2x1)	(5.2x1)+(5.2x1)	(5.2x1)+(3.4x1)+(2.9x1)	
	119+119	119+178	178+178		178+191	119+119+119	119+119+178	178+191	191+191	191+218	
	(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)+(1,657×930×765)			(1,657×1,240×765)+(1,657×1,240×765)		
	(195+195)		(195+235)			(195+195+195)			(235+235)		
	57	58	59		60	59	60		61	62	
	10 to 49										
	R-410A										
	6.4+6.4	6.4+6.6	6.6+6.6	6.6+8.3	6.6+8.5	6.4+6.4+6.4	6.4+6.4+6.6	8.3+8.5	8.5+8.5	8.5+9.7	
	φ 12.7 (Brazing)			φ 15.9 (Brazing)						φ 19.1 (Brazing)	
	φ 28.6 (Brazing)								φ 34.9 (Brazing)		

										
	RXUQ42AMYMW	RXUQ44AMYMW	RXUQ46AMYMW	RXUQ48AMYMW	RXUQ50AMYMW	RXUQ52AMYMW	RXUQ54AMYMW	RXUQ56AMYMW	RXUQ58AMYMW	RXUQ60AMYMW
	RXUQ12AYMW	RXUQ12AYMW	RXUQ12AYMW	RXUQ12AYMW	RXUQ12AYMW	RXUQ12AYMW	RXUQ14AYMW	RXUQ16AYMW	RXUQ18AYMW	RXUQ20AYMW
	RXUQ12AYMW	RXUQ12AYMW	RXUQ14AYMW	RXUQ16AYMW	RXUQ18AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW
	RXUQ18AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW	RXUQ20AYMW
	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz									
	399,000	420,000	444,000	461,000	478,000	498,000	519,000	536,000	553,000	573,000
	117	123	130	135	140	146	152	157	162	168
	28.4	30.4	32.1	34.0	35.4	37.4	39.1	41.0	42.4	44.4
	4-100	3-100								2-100
	Metallic brown									
	Hermetically sealed scroll type									
	(5.2x1)+(5.2x1)+(3.7x1)+(4.3x1)	(5.2x1)+(5.2x1)+(4.9x1)+(4.2x1)	(5.2x1)+(3.4x1)+(2.9x1)+(4.9x1)+(4.2x1)	(5.2x1)+(3.4x1)+(3.9x1)+(4.9x1)+(4.2x1)	(5.2x1)+(3.7x1)+(4.3x1)+(4.9x1)+(4.2x1)	(5.2x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(3.4x1)+(2.9x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(3.4x1)+(3.9x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(3.7x1)+(4.3x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)
	191+191+268	191+191+297	191+218+297		191+268+297	191+297+297	218+297+297		268+297+297	297+297+297
	(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)									
	(235+235+316)		(235+295+316)		(235+316+316)		(295+316+316)		(316+316+316)	
	65	66	67			68	69			70
	10 to 49									
	R-410A									
	8.5+8.5+11.7		8.5+9.7+11.7	8.5+9.8+11.7	8.5+11.7+11.7		9.7+11.7+11.7	9.8+11.7+11.7	11.7+11.7+11.7	
	φ 19.1 (Brazing)									
	φ 41.3 (Brazing)									

Outdoor Units

VRV A MAX Series

Specifications

											
MODEL			RXQ6AYMW	RXQ8AYMW	RXQ10AYMW	RXQ12AYMW	RXQ14AYMW	RXQ16AYMW	RXQ18AYMW		
Combination units			—	—	—	—	—	—	—		
			—	—	—	—	—	—	—		
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz								
Cooling capacity	Btu/h	54,600	76,400	95,500	114,000	136,000	154,000	171,000			
	kW	16.0	22.4	28.0	33.5	40.0	45.0	50.0			
Power consumption	kW	3.38	5.17	6.84	8.70	10.7	12.9	15.3			
Capacity control	%	25-100	20-100	13-100	12-100	11-100	10-100	10-100			
Casing colour			Metallic brown								
Compressor	Type		Hermetically sealed scroll type								
	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	178			191	257				
Dimensions (H×W×D)	mm	1,657×930×765					1,657×1,240×765				
Machine weight	kg	(180)			(195)		(235)	(280)			
Sound level	dB(A)	56			57	59	60		61		
Operation range	°CDB	10 to 49									
Refrigerant	Type		R-410A								
	Charge	kg	5.9		6.7	6.8	7.4	8.2	8.4		
Piping connections	Liquid	mm	φ 9.5 (Brazing)			φ 12.7 (Brazing)			φ 15.9 (Brazing)		
	Gas	mm	φ 19.1 (Brazing)		φ 22.2 (Brazing)		φ 28.6 (Brazing)				

									
MODEL			RXQ32AYMW	RXQ34AYMW	RXQ36AYMW	RXQ38AYMW	RXQ40AYMW	RXQ42AYMW	RXQ44AYMW
Combination units			RXQ14AYMW	RXQ16AYMW	RXQ18AYMW	RXQ18AYMW	RXQ20AYMW	RXQ12AYMW	RXQ12AYMW
			RXQ18AYMW	RXQ18AYMW	RXQ18AYMW	RXQ20AYMW	RXQ20AYMW	RXQ12AYMW	RXQ12AYMW
			—	—	—	—	—	RXQ18AYMW	RXQ20AYMW
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz						
Cooling capacity	Btu/h		307,000	324,000	341,000	362,000	382,000	399,000	420,000
	kW		90.0	95.0	100	106	112	117	123
Power consumption	kW		26.0	28.2	30.6	33.0	35.4	32.7	35.1
Capacity control	%		5-100	5-100	5-100	4-100	3-100	4-100	3-100
Casing colour			Metallic brown						
Compressor	Type		Hermetically sealed scroll type						
	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	m³/min		257+257			257+297	297+297	191+191+257	191+191+297
Dimensions (H×W×D)	mm		(1,657×1,240×765)+(1,657×1,240×765)					(1,657×930×765)+(1,657×930×765)+ (1,657×1,240×765)	
Machine weight	kg		(235+280)	(280+280)		(280+310)	(310+310)	(195+195+280)	(195+195+310)
Sound level	dB(A)		64			66	68	65	67
Operation range	°CDB		10 to 49						
Refrigerant	Type		R-410A						
	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 connections	Liquid	mm	φ 19.1 (Brazing)						
	Gas	mm	φ 34.9 (Brazing)			φ 41.3 (Brazing)			

Notes: Specifications are based on the following conditions;

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

Cooling Only

								
	RXQ20AYMW	RXQ18AYMW	RXQ20AYMW	RXQ22AYMW	RXQ24AYMW	RXQ26AYMW	RXQ28AYMW	RXQ30AYMW
	—	RXQ8AYMW	RXQ8AYMW	RXQ10AYMW	RXQ12AYMW	RXQ12AYMW	RXQ12AYMW	RXQ12AYMW
	—	RXQ10AYMW	RXQ12AYMW	RXQ12AYMW	RXQ12AYMW	RXQ14AYMW	RXQ16AYMW	RXQ18AYMW
	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
	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
	Metallic brown							
	Hermetically sealed 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)				(1,657×930×765)+(1,657×1,240×765)		
	(310)	(180+195)		(195+195)		(195+235)	(195+280)	
	65	60	61		62	63		
	10 to 49							
	R-410A							
	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
	φ 15.9 (Brazing)					φ 19.1 (Brazing)		
	φ 28.6 (Brazing)				φ 34.9 (Brazing)			

								
	RXQ46AYMW	RXQ48AYMW	RXQ50AYMW	RXQ52AYMW	RXQ54AYMW	RXQ56AYMW	RXQ58AYMW	RXQ60AYMW
	RXQ14AYMW	RXQ14AYMW	RXQ14AYMW	RXQ16AYMW	RXQ18AYMW	RXQ18AYMW	RXQ18AYMW	RXQ20AYMW
	RXQ14AYMW	RXQ16AYMW	RXQ18AYMW	RXQ18AYMW	RXQ18AYMW	RXQ18AYMW	RXQ20AYMW	RXQ20AYMW
	RXQ18AYMW	RXQ18AYMW	RXQ18AYMW	RXQ18AYMW	RXQ18AYMW	RXQ20AYMW	RXQ20AYMW	RXQ20AYMW
	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
	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
	Metallic brown							
	Hermetically 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)+(4.0×1) +(4.0×1)+(3.8×1)+(6.3×1)	(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
	(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)							
	(235+235+280)	(235+280+280)		(280+280+280)		(280+280+310)	(280+310+310)	(310+310+310)
	65			66		68	69	70
	10 to 49							
	R-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
	ø 19.1 (Brazing)							
	ø 41.3 (Brazing)							

VRV *S High Efficiency SERIES*

The Ideal Air Conditioning System
for Residential Houses,
Small Offices and Shops



Presentation
Movie

Cooling Only

4 HP—9 HP
(11.2 kW) (24 kW)

Heat Pump

4 HP—8 HP
(11.2 kW) (22.4 kW)

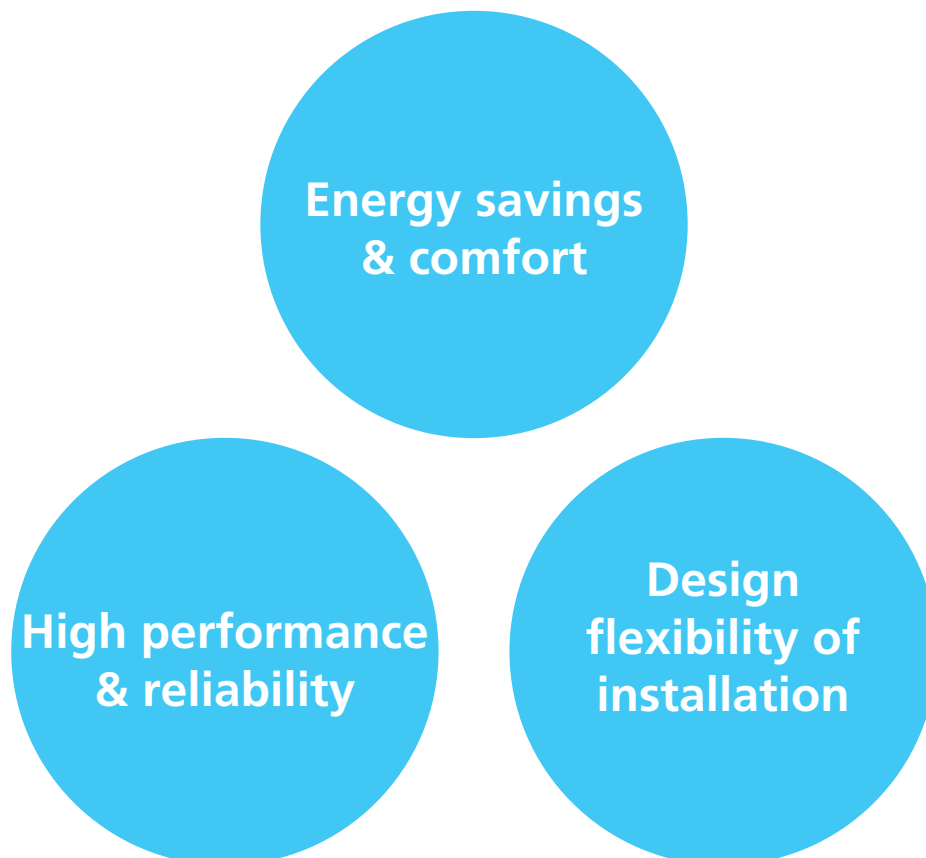


Cooling Only
RSUQ4-6AVM
RSUQ7-9AYM

Heat Pump
RSUYQ4-6AVM
RSUYQ7-8AYM

The **VRV S** High Efficiency Series concept

VRV S High Efficiency Series achieves higher energy efficiency with a variety of function for comfort and high performance. A wide range of options for installation location and application are easily achieved by the low height casing, long piping length and other features.



■ Energy savings & comfort

- ✓ Higher energy efficiency
- ✓ VRT Smart Control
- ✓ Quiet operation

■ High performance & reliability

- ✓ Extended operation range up to 52°C
- ✓ High voltage shield PCB
- ✓ Automatic refrigerant charge function

■ Design flexibility of installation

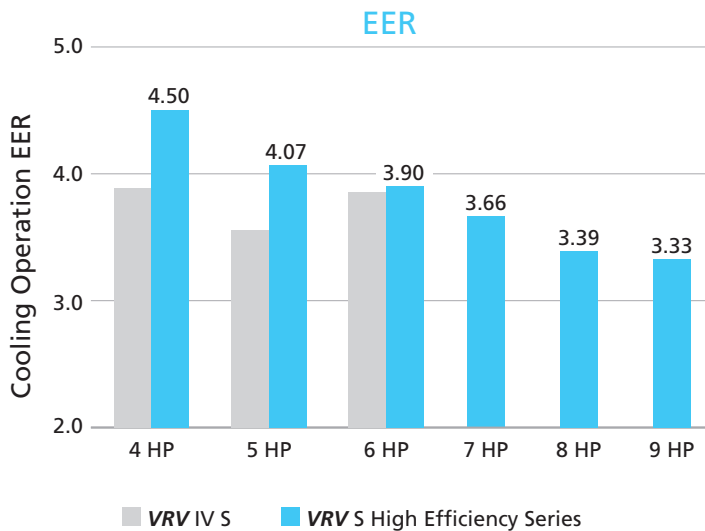
- ✓ The high external static pressure of 40 Pa enables installation in small installation spaces where the airflow direction needs to be diverted to avoid short circuits.
- ✓ Low height casing design
- ✓ Increased actual piping length up to 120 m

Energy Savings & Comfort

Energy savings

Higher energy efficiency

The large heat exchanger and highly efficient new swing compressor reduces power consumption and realizes higher energy efficiency.



6-9 HP

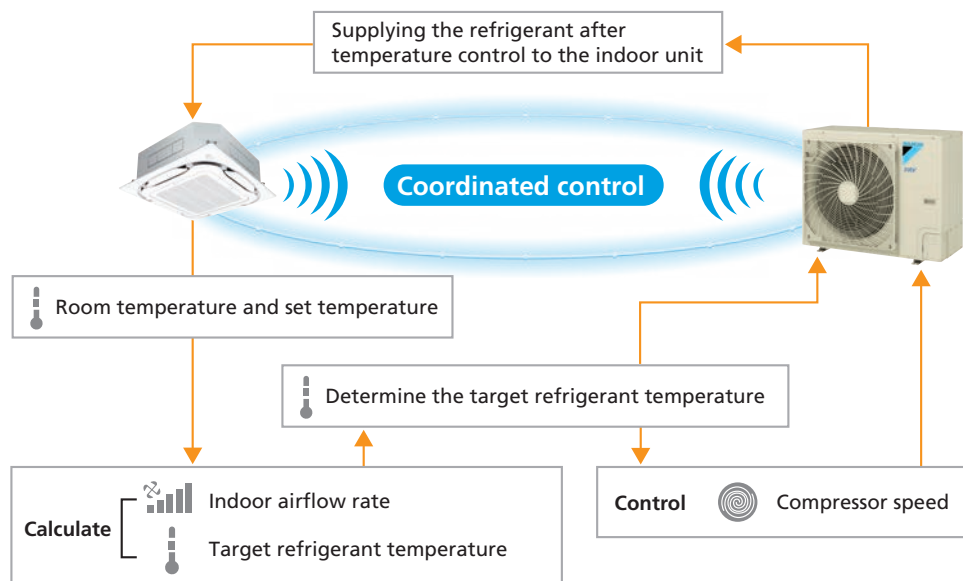


4-9 HP

4-9 HP models maintain high EER in the new compact single fan design.

VRT Smart Control

VRT Smart function is available in the **VRV S High Efficiency Series** for the first time. Coordination between indoor and outdoor units minimizes energy consumption by optimising capacity to meet actual operation load.



- Notes:
- For the classification of indoor units (VRT smart control and VRT control), refer to the indoor unit lineup.
 - If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
 - If a system has both outdoor-air processing air conditioners (FXMQ-MF series) and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

Comfort

■ Quiet operation

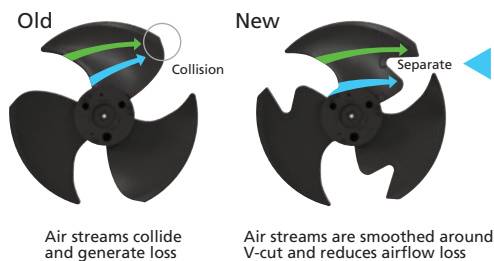
Low operation sound

New fan and bell mouth help enable low operation sound.

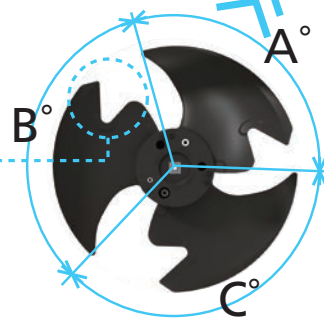
Cooling	4 HP	5 HP	6 HP	7 HP	8 HP	9 HP
New	51	51	52	58	59	60



V-cut & irregular pitch propeller fan



The fan's V-cut enables streamlined and effective airflow.



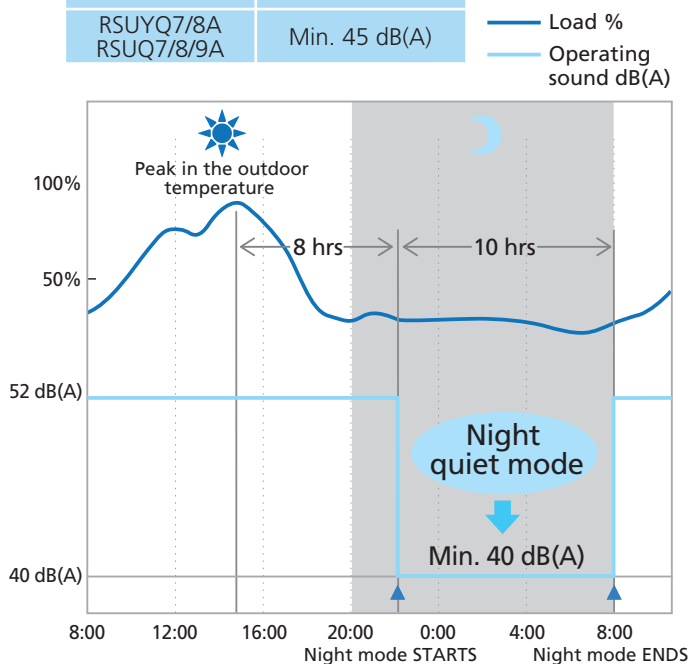
Irregular blade pitch also contributes to reduced airflow noise.

$$A^{\circ} < B^{\circ} < C^{\circ}$$

Nighttime quiet operation function

The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood. Three selectable modes are available depending on the required level. This function is suitable for use in residential areas.

Cooling	Night Quiet Mode
RSU(Y)Q4/5/6A	Min. 40 dB(A)
RSUYQ7/8A RSUQ7/8/9A	Min. 45 dB(A)



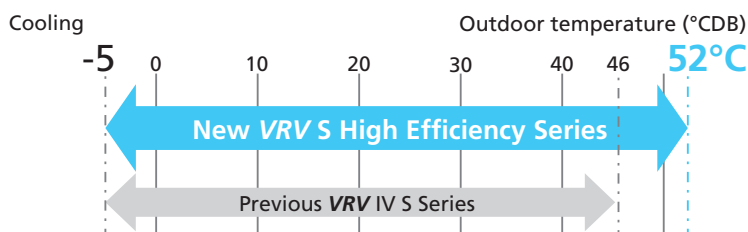
- Notes:
- This function is available in setting at site.
 - The operating sound in quiet operation mode is the actual value measured by our company.
 - The relationship of outdoor temperature (load) and time shown above is just an example.
 - In case of 4-6 HP outdoor unit

High Performance & Reliability

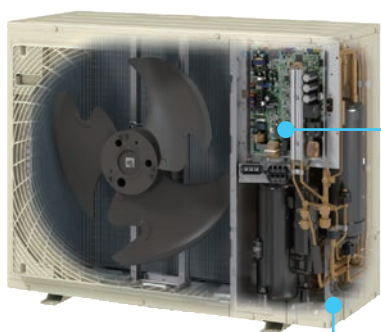
High temperature operation

Extended operation range up to 52°C

The outdoor operation temperature range is now extended to 52°C. This enables reliable operation even under high temperature conditions and a wider choice of installation locations.



The refrigerant-cooled PCB and large 3-row heat exchanger raise the maximum cooling outdoor operation temperature from 46°C to 52°C.



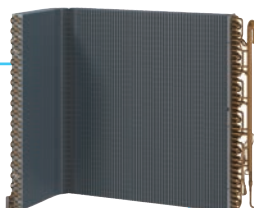
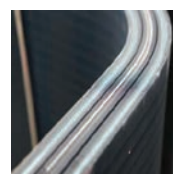
Refrigerant cooled PCB

Daikin's unique refrigerant cooling helps maintain high cooling capacity even during high outdoor temperatures.



New heat exchanger

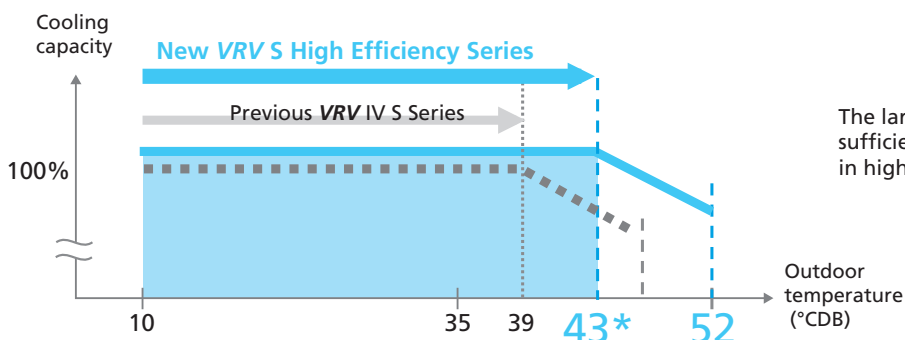
- 2-sided 3-row
- Heat exchanger area **68% UP** (4,5 HP model only)



Keep rated cooling capacity in high outdoor temperature up to 43°C*

Rated cooling capacity can be maintained even when outdoor temperature is up to 43°C*.

*Rated cooling capacity for 9 HP is up to 42°C.



The large heat exchanger ensures sufficient cooling capacity even in high ambient temperatures.

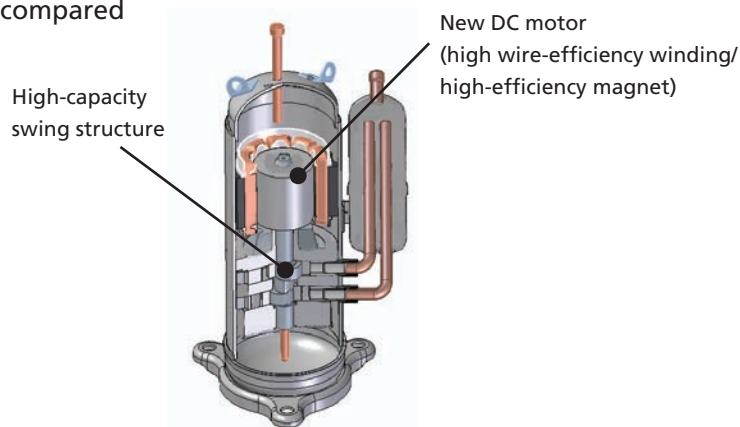
New swing compressor

High efficiency, high capacity DC inverter swing compressor

The new compressors offer higher performance compared to that of conventional scroll compressors.

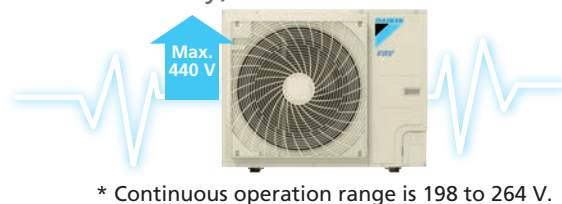
Improved performance

The new DC motor designed with small-diameter bearing and improved efficiency during low-speed operation has improved seasonal efficiency.



High voltage shield PCB (4-6 HP model only)

The high voltage shield PCB protects the electrical parts and prevents malfunctions at the highest voltage of 440 V.



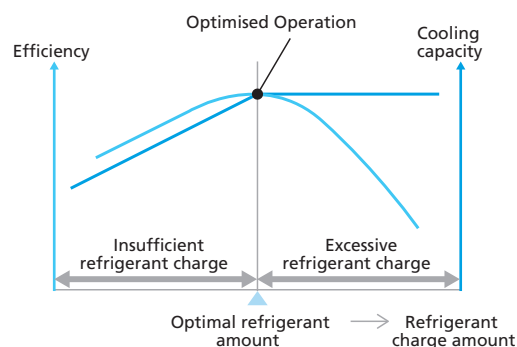
* Continuous operation range is 198 to 264 V.

Automatic refrigerant charge function

Contribute to optimised operation efficiency, higher quality and easier installation.

Optimised operation efficiency

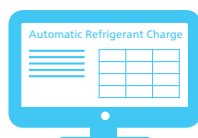
This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



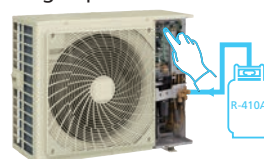
Higher quality and easier installation

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and easy start by pressing one button.

- 1 Calculation of necessary refrigerant amount from design drawing



- 2 Start of automatic refrigerant charge operation



- Automatic completion by proper refrigerant amount
- Monitoring refrigerant charging is unnecessary
- No recalculation of charge amounts due to minor design changes locally

* Must use automatic refrigerant charge function. Refer to installation manual for details.

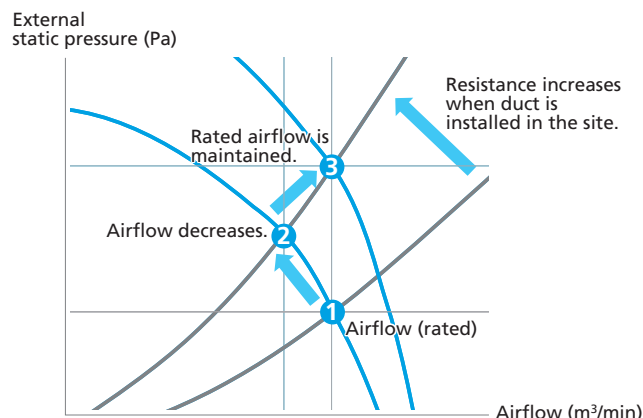
Design Flexibility of Installation

No short circuits

■ High external static pressure up to 40 Pa and automatic adjustment of external static pressure

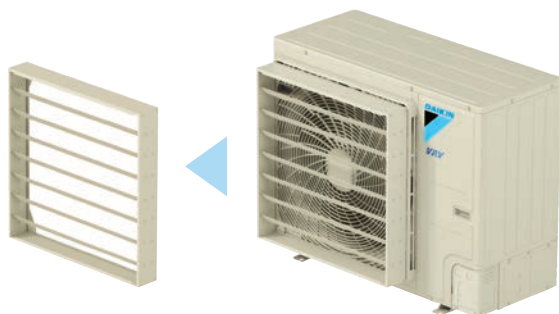
The **VRV S** High Efficiency Series outdoor unit has been achieved high external static pressure up to 40 Pa, realizing stable operation in small installation sites where the air direction adjustment grille or duct is used to avoid short circuits.

The external static pressure automatic adjustment function maintains rated airflow and capacity by automatically adjusting the external static pressure during the test operation to suit the resistance of the installation site.



■ Optimum airflow direction with the optional air direction adjustment grille

When discharged air is blocked by some obstacle, the optional air direction adjustment grille can divert the airflow to one of 4 directions (up, down, left or right) to avoid the obstacle.



Air direction adjustment grille (option)

Wind is diverted upwards.

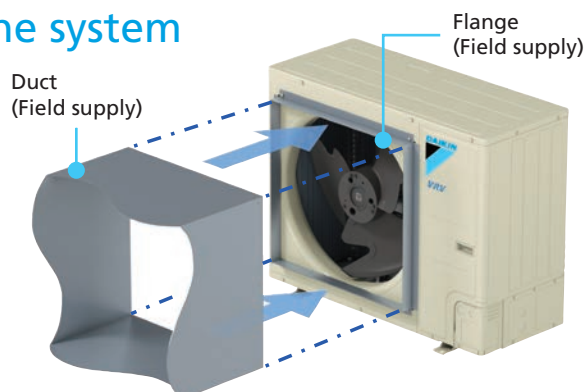


Wind is diverted sideways.



■ Duct installation to stabilize the system

When the obstacle is not avoidable by the air direction adjustment grille, installing a field-supplied duct can bypass the obstacle. In this way, installation of the outdoor unit is possible in places like behind an advertising board.

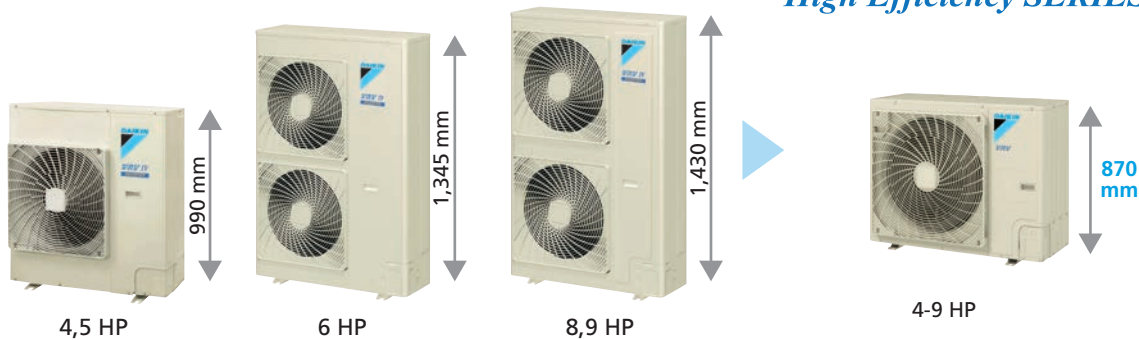


Low height casing design

The new design has been optimised for the **VRV S** High Efficiency Series with the height of all models reduced to only 870 mm. This low height casing design provides occupants with a clear, unobstructed view of the scenery.

Previous **VRV IV S** series

VRV S
High Efficiency SERIES

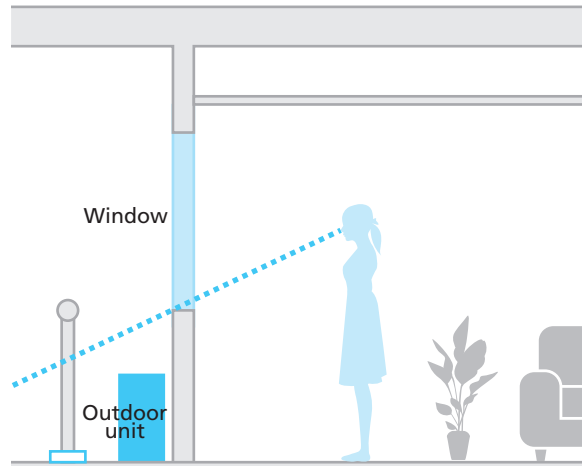


- Ideal solution that minimises both visual and sound impact
- Can be installed in a wide variety of locations and applications
- No space required for multiple outdoor units

View from outside

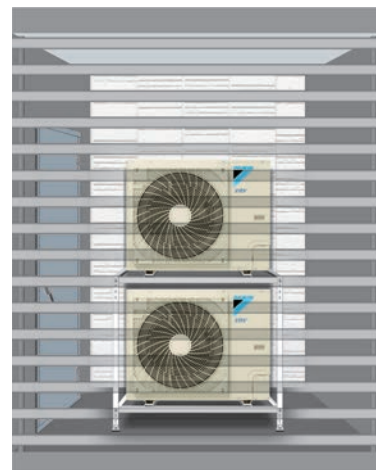


View from inside



Double-stacking installation possible

The low height casing design allows for compact double-stacking of outdoor units to maximize utilization of installation space.



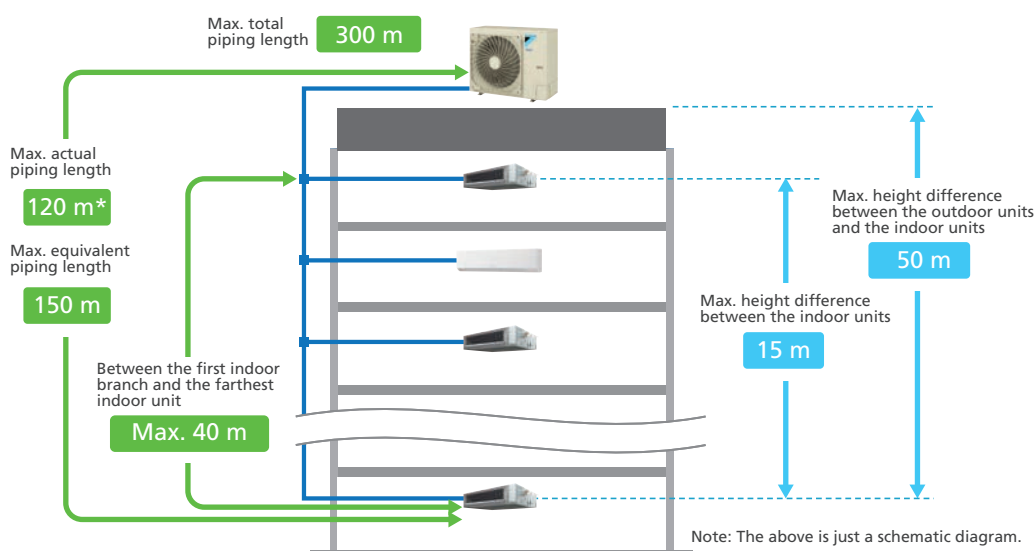
Design Flexibility of Installation

Increased actual piping length up to 120 m*

Actual piping length increased by 20% allows for various installation!

Installation on the rooftop of residential apartments

Previous **VRV IV S** series
100 m  **120 m***



		4 HP	5-9 HP
		120 m* (150 m)	120 m* (150 m)
Maximum allowable piping length	Actual piping length (Equivalent)	120 m* (150 m)	120 m* (150 m)
	Total piping length	300 m	300 m
	Between the first indoor branch and the farthest indoor unit	40 m	40 m
Maximum allowable height difference	Between the indoor units	10 m	15 m
	Between the outdoor units and the indoor units	If the outdoor unit is above.	50 m
		If the outdoor unit is below.	40 m

* Must use automatic refrigerant charge function.
Refer to installation manual for details.

Installation on balconies of residential apartments



One outdoor unit can provide comfort for the whole house

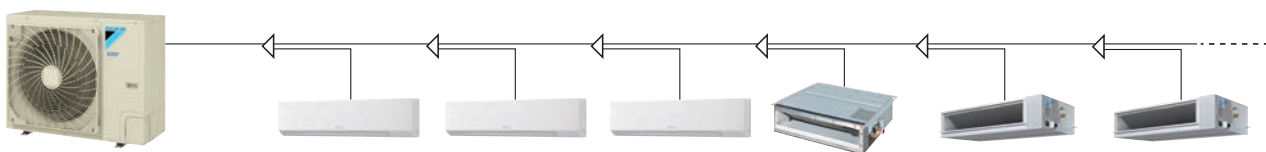


Indoor Unit Lineup

VRV S High Efficiency Series

Wide variety of indoor units

				New lineup				VRT smart		Indoor units subject to VRT smart control						VRT	Indoor units subject to VRT control			
Category	Type	Model Name	Capacity Range	20	25	32	40	50	63	71	80	100	125	140	200	250				
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250				
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM	VRT smart																	
	Round Flow Cassette with Streamer	FXFRQ-AVM	VRT smart																	
	Round Flow Cassette	FXFQ-AVM	VRT smart																	
	Compact Multi Flow Cassette	FXZQ-BVM	VRT smart																	
	Double Flow Cassette	FXCQ-BVM	VRT smart																	
	Single Flow Cassette	FXEQ-AV36	VRT																	
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM	VRT																	
	Bedroom Duct	FXDBQ-AVM	VRT smart																	
	Slim Duct (Standard)	FXDQ-PDVE	VRT smart																	
		FXDQ-NDVE	VRT smart																	
	Slim Duct (Compact)	FXDQ-SPV1	VRT																	
	Middle Static Pressure Duct	FXSQ-PAVE	VRT smart																	
	Middle-High Static Pressure Duct	FXMQ-PAVE	VRT smart																	
	High Static Pressure Duct	FXMQ-PVM	VRT smart																	
	Outdoor-Air Processing Unit	FXMQ-MFV1																		
		FXMQ-AFVM	VRT																	
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB	VRT																	
	Ceiling Suspended	FXHQ-MAVE	VRT																	
		FXHQ-BVM	VRT																	
New	Wall Mounted	FXAQ-BVM	VRT smart																	
Floor Standing	Floor Standing	FXLQ-MAVE	VRT																	
	Concealed Floor Standing	FXNQ-MAVE	VRT																	
	Floor Standing Duct	FXVQ-NY1	VRT																	
Clean Room Air Conditioner	FXBQ-PVE	VRT																		
	FXBPQ-PVE	VRT																		
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h																



Max.
14 indoor units

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

Outdoor Units

VRV S High Efficiency Series

Specifications

Cooling Only

								
MODEL			RSUQ4AVM	RSUQ5AVM	RSUQ6AVM	RSUQ7AYM	RSUQ8AYM	RSUQ9AYM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz			3-phase, 380-415 V/380 V, 50/60 Hz		
Cooling capacity		Btu/h	38,200	47,800	54,600	68,200	76,400	81,900
		kW	11.2	14.0	16.0	20.0	22.4	24.0
Power consumption		kW	2.49	3.44	4.10	5.46	6.61	7.21
Capacity control		%	23 to 100	16 to 100		9 to 100		
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed swing type					
	Motor output	kW	2.0	3.1	3.5	1.9	3.2	3.8
Airflow rate		m³/min	87	84	87	123		137
Dimensions (HxWxD)		mm	870×1,100×460					
Machine weight		kg	95	98		115		
Sound level		dB(A)	51		52	58	59	60
Operation range		°CDB	-5 to 52					
Refrigerant	Type		R-410A					
	Charge	kg	4.0	4.2		5.4		
Piping connections	Liquid	mm	φ 9.5 (Flare)					
	Gas	mm	φ 15.9 (Flare)		φ 19.1 (Brazing)			φ 22.2 (Brazing)

Note: Specifications are based on the following conditions;

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

MODEL			RSUQ4AVM	RSUQ5AVM	RSUQ6AVM	RSUQ7AYM	RSUQ8AYM	RSUQ9AYM
kW			11.2	14.0	16.0	20.0	22.4	24.0
HP			4	5	6	7	8	9
Capacity index			100	125	150	175	200	215
Total capacity index of connectable indoor units	Combination(%)	50%	50	62.5	75	87.5	100	107.5
		100%	100	125	150	175	200	215
		130%	130	162.5	195	227.5	260	280
Maximum number of connectable indoor units			6	8	9	11	13	14

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

Specifications

Heat Pump



							
MODEL			RSUYQ4AVM	RSUYQ5AVM	RSUYQ6AVM	RSUYQ7AYM	RSUYQ8AYM
Power supply			1-phase, 220-240/220-230 V, 50/60 Hz			3-phase, 380-415 V/380 V, 50/60 Hz	
Cooling capacity		Btu/h	38,200	47,800	54,600	68,200	76,400
		kW	11.2	14.0	16.0	20.0	22.4
Heating capacity		Btu/h	42,700	54,600	61,400	76,400	85,300
		kW	12.5	16.0	18.0	22.4	25.0
Power consumption	Cooling	kW	2.49	3.44	4.10	5.46	6.61
	Heating	kW	2.54	3.37	3.98	5.10	5.92
Capacity control		%	23 to 100	15 to 100		9 to 100	
Casing colour			Ivory white (5Y7.5/1)				
Compressor	Type		Hermetically sealed swing type				
	Motor output (Cooling / Heating)	kW	2.0/2.4	3.1/3.6	3.5/4.0	1.9/2.3	3.2/3.2
Airflow rate	Cooling	m ³ /min	87	84	87	123	
	Heating	m ³ /min	90	84	94	137	145
Dimensions (HxWxD)		mm	870×1,100×460				
Machine weight		kg	95	98		120	
Sound level (Cooling/Heating)		dB(A)	51/52		52/54	58/61	59/63
Operation range	Cooling	°CDB	-5 to 52				
	Heating	°CWB	-20 to 15.5				
Refrigerant	Type		R-410A				
	Charge	kg	4.0	4.2		5.4	
Piping connections	Liquid	mm	φ 9.5 (Flare)				
	Gas	mm	φ 15.9 (Flare)		φ 19.1 (Brazing)		

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height 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

MODEL			RSUYQ4AVM	RSUYQ5AVM	RSUYQ6AVM	RSUYQ7AYM	RSUYQ8AYM
kW			11.2	14.0	16.0	20.0	22.4
HP			4	5	6	7	8
Capacity index			100	125	150	175	200
Total capacity index of connectable indoor units	Combination(%)	50%	50	62.5	75	87.5	100
		100%	100	125	150	175	200
		130%	130	162.5	195	227.5	260
Maximum number of connectable indoor units			6	8	9	11	13

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

VRV IV S SERIES

The Ideal Air Conditioning System
for Residential Houses,
Small Offices and Shops

Cooling Only
Heat Pump

4 HP—9 HP
(11.2 kW) (24 kW)

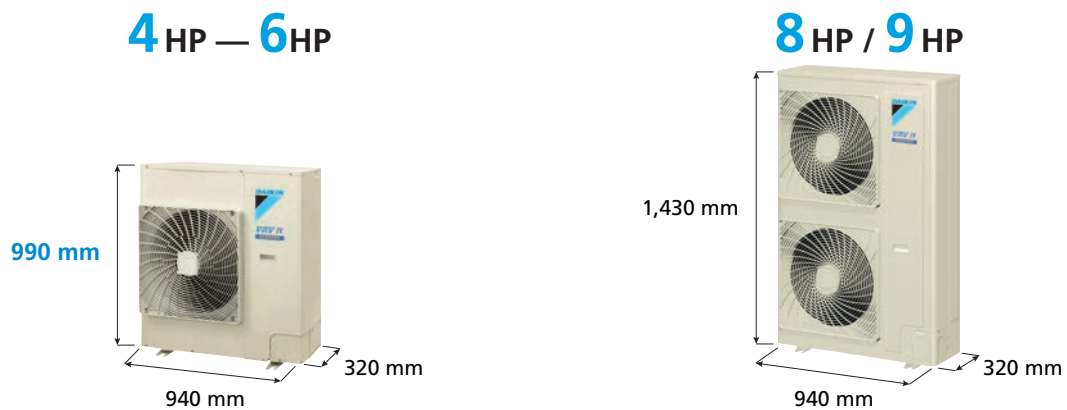


Cooling Only
RXMQ4AVE
RXMQ5-6BVM
RXMQ8-9AY1

Heat Pump
RXYMQ4AVE
RXYMQ5-6BVM
RXYMQ8-9AY1

■ Compact & lightweight design

The **VRV IV S** series is slim and compact, with outdoor units that require minimal installation space.



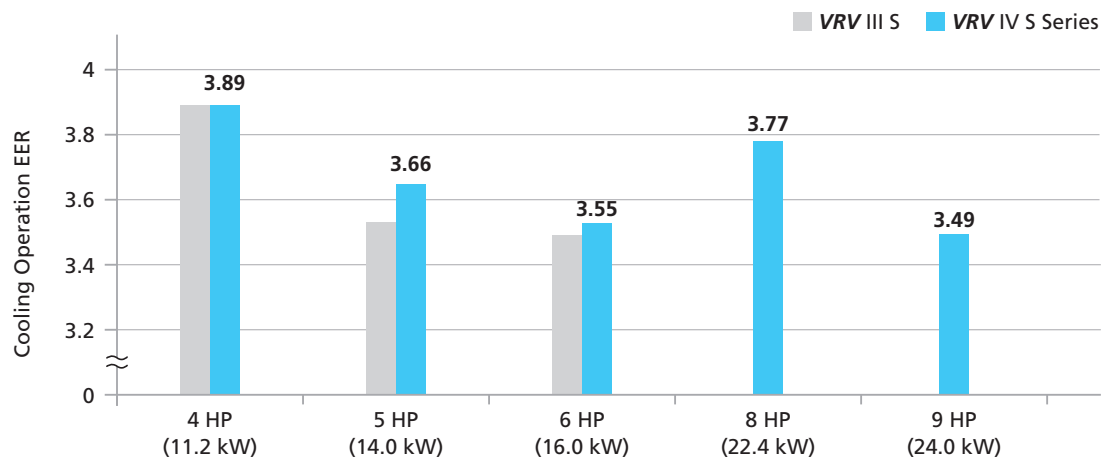
	4 HP	5 HP	6 HP	8 HP / 9 HP
Height	990 mm	990 mm	990 mm	1,430 mm
Product Weight	71 kg	76 kg*	78 kg*	131 kg*
Footprint	0.30 m ²	0.30 m ²	0.30 m ²	0.30 m ²

*For cooling only models

■ Energy saving

High Energy Efficiency Ratio (EER)

VRV IV S series provides greater energy saving as compared to **VRV III S** series.



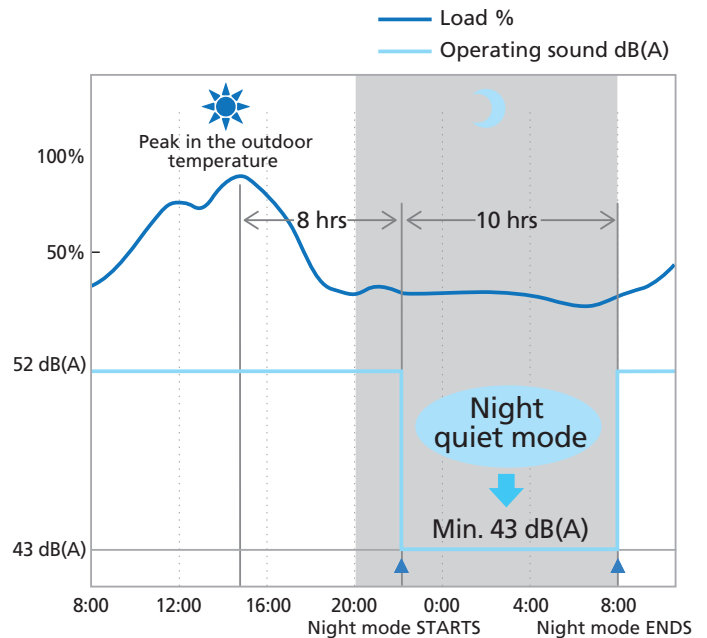
*Cooling operation conditions: Indoor temp. of 27° CDB, 19° CWB, and outdoor temp. of 35° CDB.

Comfort and Simplified Installation

Quiet operation

Nighttime quiet operation function

The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood. Three selectable modes are available depending on the required level. This function is suitable for use in residential areas.

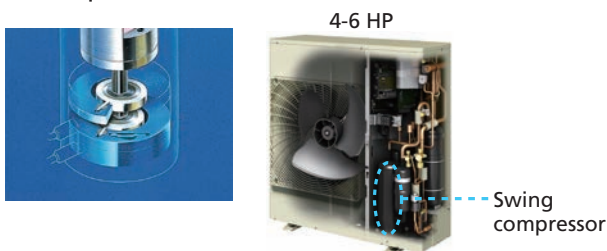


- Notes:
- This function is available in setting at site.
 - The operating sound in quiet operation mode is the actual value measured by our company.
 - The relationship of outdoor temperature (load) and time shown above is just an example.
 - In case of 4 HP outdoor unit

Technologies for efficient and quiet operation

Swing compressor (4-6 HP model only)

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.

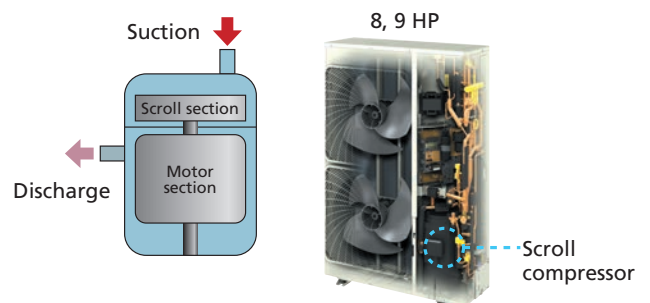


Smooth air inlet bell mouth and aero spiral fan

The smooth air inlet bell mouth and the aero spiral fan work to minimize turbulence in the airflow and reduce sound.

The structural scroll (8-9 HP model only)

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.



DC fan motor

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

■ Makes the long piping design possible

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

Actual piping length

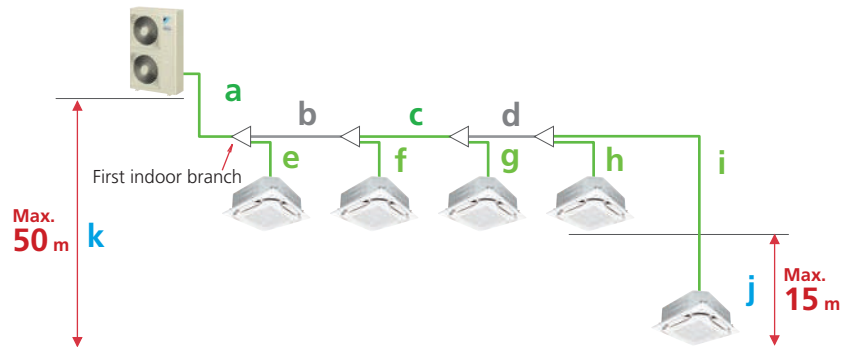
Max. 100 m

Equivalent piping length

Max. 130 m

Total piping length

Max. 300 m



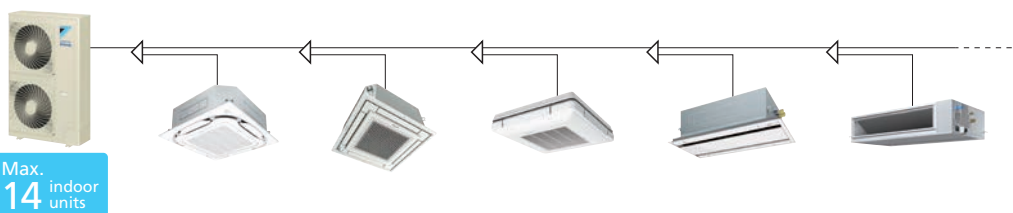
			4 HP	5,6 HP	8,9 HP
Max. allowable piping length	Actual refrigerant piping length (Equivalent)	a+b+c+d+i	50 m (65 m)	70 m (90 m)	100 m (130 m)
	Total piping length	a+b+c+d+e+f+g+h+i	250 m	300 m	300 m
	Between the first indoor branch and the farthest indoor unit	b+c+d+i	40 m	40 m	40 m
Max. allowable height difference	Between the indoor units	j	10 m	15 m	15 m
	Between the outdoor unit and the indoor unit	If the outdoor unit is above	k	30 m	50 m
		If the outdoor unit is below	k	30 m	40 m

Indoor Unit Lineup

Enhanced range of choices

 New lineup

Category	Type	Model Name	Capacity Range	20	25	32	40	50	63	71	80	100	125	140	200	250
				0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM			●	●	●	●	●		●	●	●	●		
	Round Flow Cassette with Streamer	FXFRQ-AVM			●	●	●	●	●		●	●	●	●		
	Round Flow Cassette	FXFQ-AVM			●	●	●	●	●		●	●	●	●		
	Compact Multi Flow Cassette	FXZQ-BVM		●	●	●	●	●								
	Double Flow Cassette	FXCQ-BVM		●	●	●	●	●	●		●		●			
	Single Flow Cassette	FXEQ-AV36		●	●	●	●	●	●							
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM		●	●	●	●	●	●							
	Bedroom Duct	FXDBQ-AVM					●	●	●		●					
	Slim Duct (Standard)	FXDQ-PDVE		●	●	●										
		FXDQ-NDVE					●	●	●							
	Slim Duct (Compact)	FXDQ-SPV1		●	●	●	●	●	●							
	Middle Static Pressure Duct	FXSQ-PAVE		●	●	●	●	●	●		●	●	●	●		
	Middle-High Static Pressure Duct	FXMQ-PAVE		●	●	●	●	●	●		●	●	●	●		
	High Static Pressure Duct	FXMQ-PVM													●	●
	Outdoor-Air Processing Unit	FXMQ-MFV1											●		●	
		FXMQ-AFVM									●			●	●	●
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●				
	Ceiling Suspended	FXHQ-MAVE				●			●			●				
		FXHQ-BVM											●	●		
 New	Wall Mounted	FXAQ-BVM		●	●	●	●	●	●	●	●	●				
Floor Standing	Floor Standing	FXLQ-MAVE		●	●	●	●	●	●							
	Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●							
	Floor Standing Duct	FXVQ-NY1											●		●	●
		FXVQ-NY16 (high static pressure type)														
Clean Room Air Conditioner		FXBQ-PVE					●	●	●							
		FXBPQ-PVE							●							
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h												



* Refer to page 133 - 134 for the maximum number of connectable indoor units.



Outdoor Units

VRV IV S Series

Specifications

Cooling Only

									
MODEL				RXMQ4AVE	RXMQ5BVM	RXMQ6BVM	RXMQ8AY1	RXMQ9AY1	
Power supply				1-phase, 220-230 V/220 V, 50/60 Hz		1-phase, 220-240 V/220-230 V, 50/60 Hz		3-phase, 380–415 V, 50 Hz	
Cooling capacity		Btu/h		38,200	47,800	54,600	76,400	81,900	
		kW		11.2	14.0	16.0	22.4	24.0	
Power consumption		kW		2.88	3.83	4.51	5.94	6.88	
Capacity control		%		24 to 100	15 to 100		20 to 100		
Casing colour				Ivory white (5Y7.5/1)					
Compressor	Type			Hermetically sealed swing type			Hermetically sealed scroll type		
	Motor output	kW		1.92	3.2	3.7	3.8	4.8	
Airflow rate		m³/min		76	81	80	140		
Dimensions (H×W×D)		mm		990×940×320			1,430×940×320		
Machine weight		kg		71	76	78	131		
Sound level		dB(A)		52	53	55	57	58	
Operation range			°CDB	-5 to 46					
Refrigerant	Type			R-410A					
	Charge	kg		2.9	3.4	4.0	5.8		
Piping connections	Liquid	mm	ϕ 9.5 (Flare)				ϕ 9.5 (Brazing)		
	Gas		ϕ 15.9 (Flare)			ϕ 19.1 (Brazing)		ϕ 22.2 (Brazing)	

Notes: Specifications are based on the following conditions;

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

MODEL			RXMQ4AVE	RXMQ5BVM	RXMQ6BVM	RXMQ8AY1	RXMQ9AY1
kW			11.2	14.0	16.0	22.4	24.0
HP			4	5	6	8	9
Capacity index			100	125	150	200	215
Total capacity index of connectable indoor units	Combination (%)	50%	50	62.5	75	100	107.5
		100%	100	125	150	200	215
		130%	130	162.5	195	260	280
Maximum number of connectable indoor units			6	8	9	13	14

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

Specifications

Heat Pump

								
MODEL			RXYMQ4AVE	RXYMQ5BVM	RXYMQ6BVM	RXYMQ8AY1	RXYMQ9AY1	
Power supply			1-phase, 220-230 V/220 V, 50/60 Hz		1-phase, 220-240 V/220-230 V, 50/60 Hz		3-phase, 380–415 V, 50 Hz	
Cooling capacity		Btu/h	38,200	47,800	54,600	76,400	81,900	
		kW	11.2	14.0	16.0	22.4	24.0	
Heating capacity		Btu/h	42,700	47,800	54,600	85,300	88,700	
		kW	12.5	14.0	16.0	25.0	26.0	
Power consumption	Cooling	kW	2.88	3.83	4.51	5.94	6.88	
	Heating		2.60	3.04	3.59	6.25	6.82	
Capacity control		%	24 to 100	15 to 100		20 to 100		
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed swing type			Hermetically sealed scroll type		
	Motor output (Cooling/Heating)	kW	1.92	3.2/3.5	3.7	3.8	4.8	
Airflow rate		m³/min	76	81	80	140		
Dimensions (H×W×D)		mm	990×940×320			1,430×940×320		
Machine weight		kg	71	78	80	138		
Sound level (Cooling/Heating)		dB(A)	52/54	53/54	55/56	57/58	58/59	
Operation range	Cooling	°CDB	-5 to 46					
	Heating	°CWB	-20 to 15.5					
Refrigerant	Type		R-410A					
	Charge	kg	2.9	3.4	4.0	5.8		
Piping connections	Liquid	mm	ϕ 9.5 (Flare)			ϕ 9.5 (Brazing)		
	Gas		ϕ 15.9 (Flare)		ϕ 19.1 (Brazing)		ϕ 22.2 (Brazing)	

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27° CDB, 19° CWB, Outdoor temp.: 35° CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 - Heating: Indoor temp.: 20° CDB, Outdoor temp.: 7° CDB, 6° CWB, Equivalent piping length: 7.5 m, Height 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

MODEL			RXYMQ4AVE	RXYMQ5BVM	RXYMQ6BVM	RXYMQ8AY1	RXYMQ9AY1
kW			11.2	14.0	16.0	22.4	24.0
HP			4	5	6	8	9
Capacity index			100	125	150	200	215
Total capacity index of connectable indoor units	Combination (%)	50%	50	62.5	75	100	107.5
		100%	100	125	150	200	215
		130%	130	162.5	195	260	280
Maximum number of connectable indoor units			6	8	9	13	14

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 Quality
Replacement Use

Cooling Only
Heat Pump
6 HP—48 HP
(16 kW) (135 kW)



Standard Type

Single outdoor units
RQ(Y)Q6-16TYM(1)

Double outdoor units
RQ(Y)Q18-32TNYM(1)

Triple outdoor units
RQ(Y)Q34-48TNYM(1)

Space Saving Type

Single outdoor units
RQ(Y)Q18-20TYM(1)

Double outdoor units
RQ(Y)Q30-40TSYM(1)

Triple outdoor units
RQ(Y)Q42-48TSYM(1)

The **VRV IV Q** Series concept

Reusing existing refrigerant piping minimizes installation time and cost

An automatic refrigerant charge function enables high quality installation

Improvement in capacity and greater number of indoor units

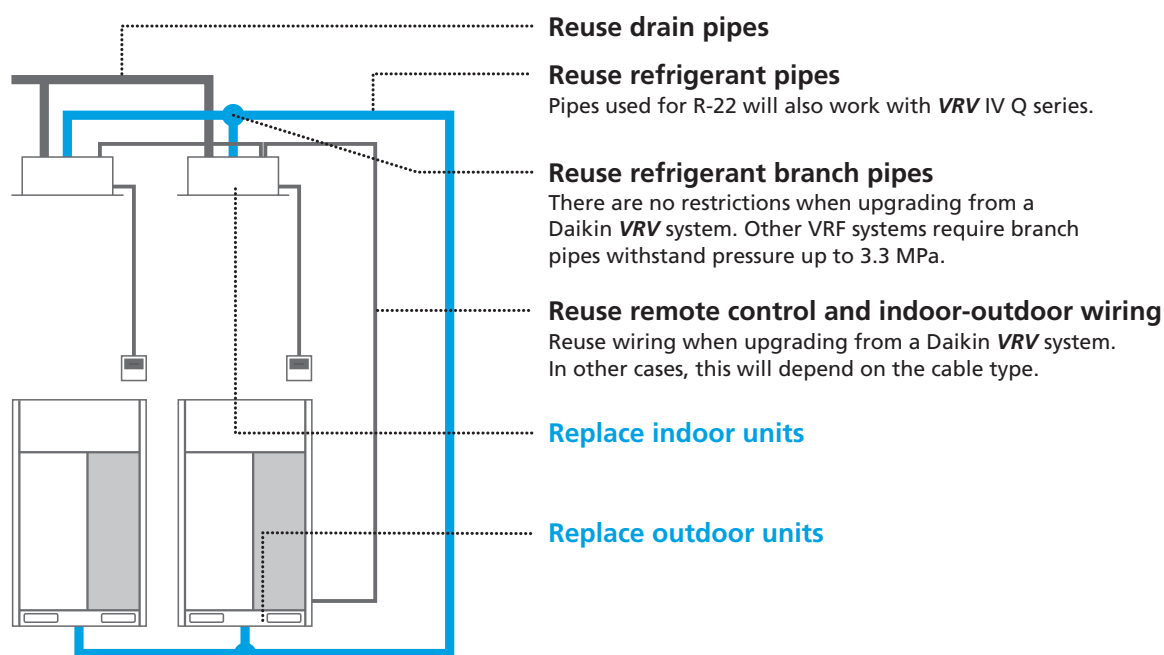
Quick, quality and economical replacement

■ Reuse

Simple use of existing refrigerant piping

Special equipment and work is no longer required to clean pipes. 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



Benefits of System Replacement

Automatic

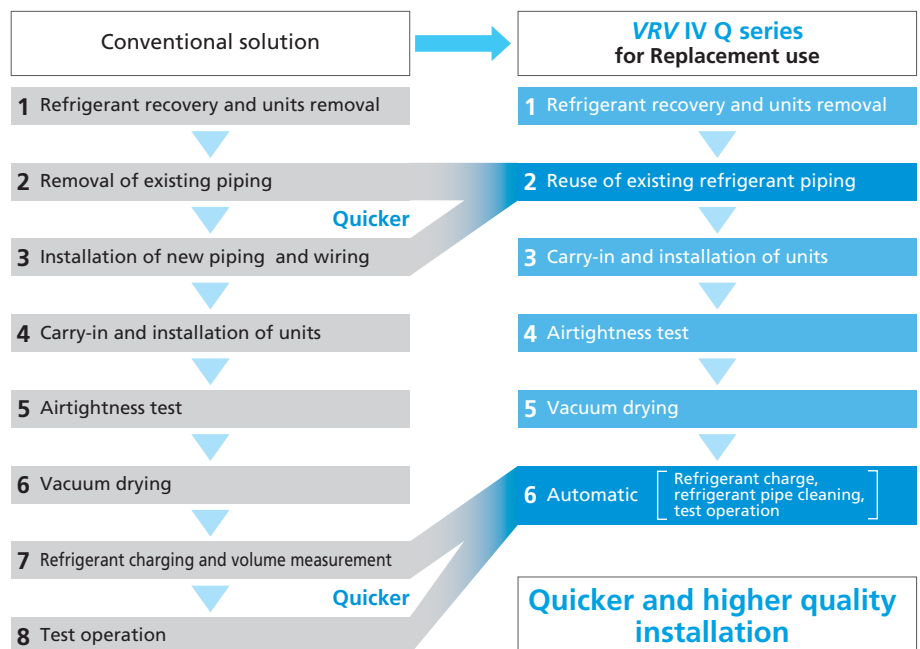
Refrigerant charging, cleaning and test operation done with just a single switch.

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. Furthermore, there is no need to clean inside piping as this is handled automatically by the **VRV IV Q** unit.

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

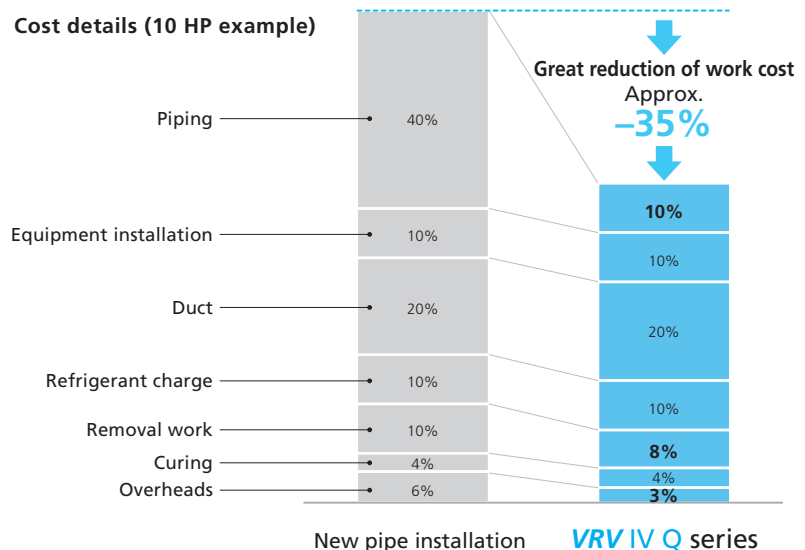
Time saving

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



Cost saving

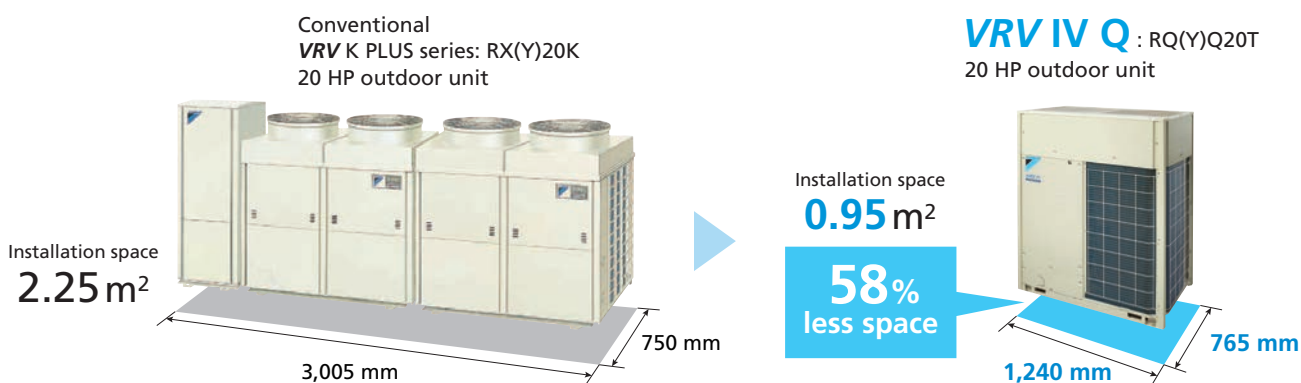
By the reuse of existing piping, 35% of cost down can be realized compared to installing new pipes.



■ Design flexibility

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

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



■ High external static pressure 78.4 Pa

Conventional
VRV K series

49.0 Pa

VRV IV Q

78.4 Pa

■ 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!

Conventional **VRV K PLUS** series: RX(Y)24–30K

Up to 30 indoor units connectable

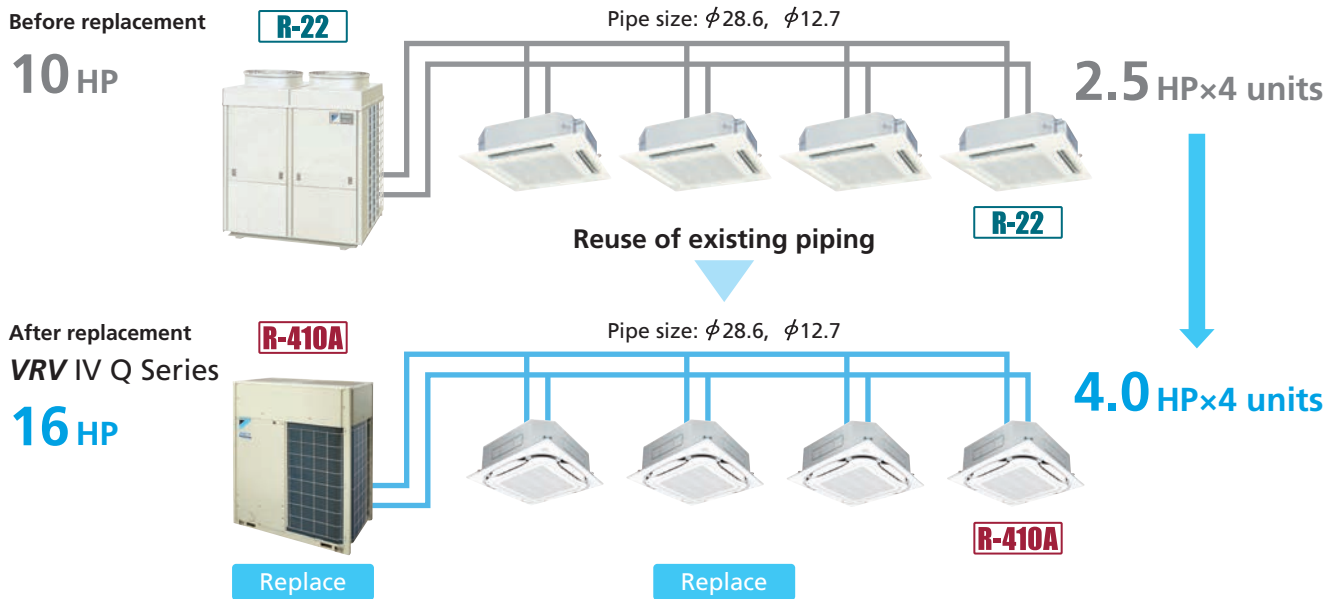
VRV IV Q : RQ(Y)Q40–48T

Up to 64 indoor units connectable

Benefits of System Replacement

Enables increased capacity

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 a 10 HP R-22 system.

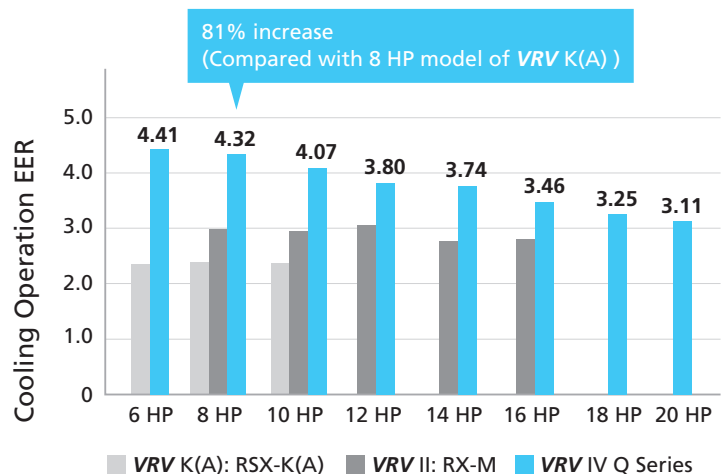


Energy saving

Higher Energy Efficiency Ratio (EER)

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

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



VRT Control for optimal annual efficiency

VRT automatically adjusts refrigerant temperature to individual building and climate requirement, thus further improving annual energy efficiency and maintaining comfort.



New technology that enables use of existing piping

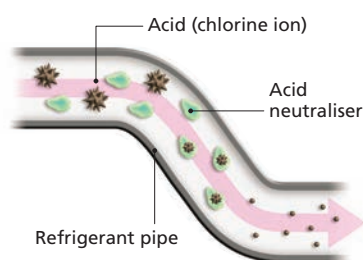
New tested contamination collection method

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

VRV IV Q series only

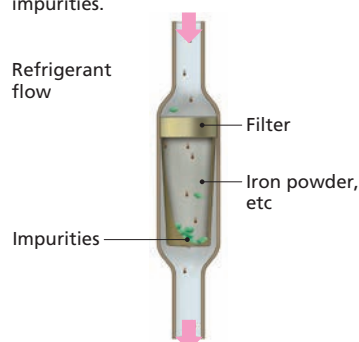
Acid

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



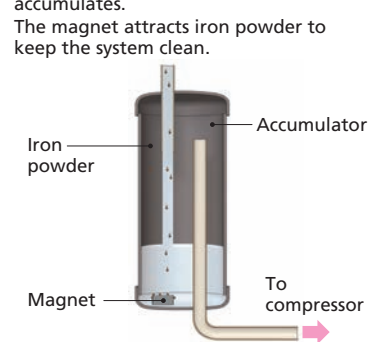
Impurities

A generously sized filter is provided inside the refrigerant circuit which traps impurities.



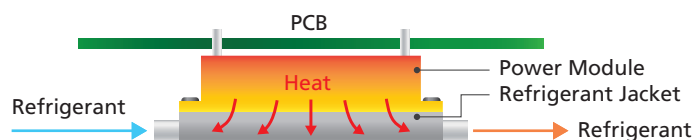
Iron powder

A magnet is installed inside the accumulator where liquid refrigerant accumulates. The magnet attracts iron powder to keep the system clean.



Reliable and stable technology

High reliability at high ambient temperatures



Using refrigerant to cool the inverter power module helps minimise the size of the electronic components, and this results in reduction of airflow resistance and high efficiency of the heat exchanger.

Control board failure ratio at stable operation is reduced.

This enables

- Suitability for high ambient temperatures
- Miniaturization of electronic components

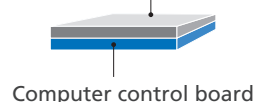
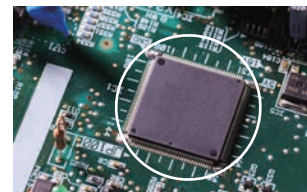
SMT* packaging technology

- Improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.

*SMT: Surface mounted technology

Computer control board surface adopting SMT packaging technology

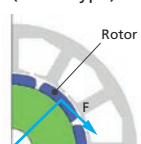
SMT packaging material



Outer Rotor DC Motor (ODM)

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

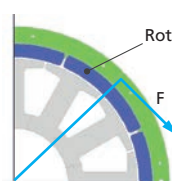
Conventional Motor (Inner Type)



HIGH TORQUE with low energy
MORE efficient

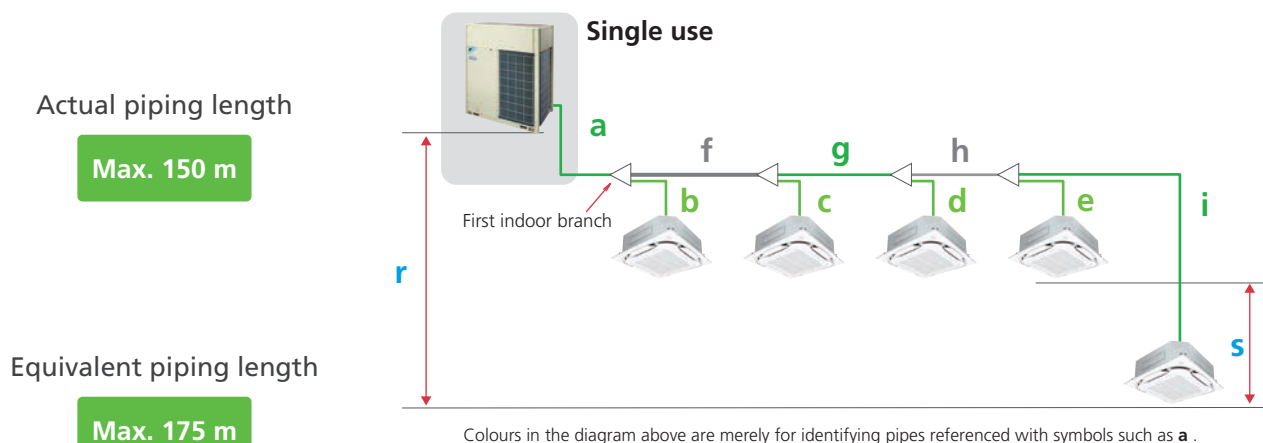
ODM (Outer Type)

UNIQUE



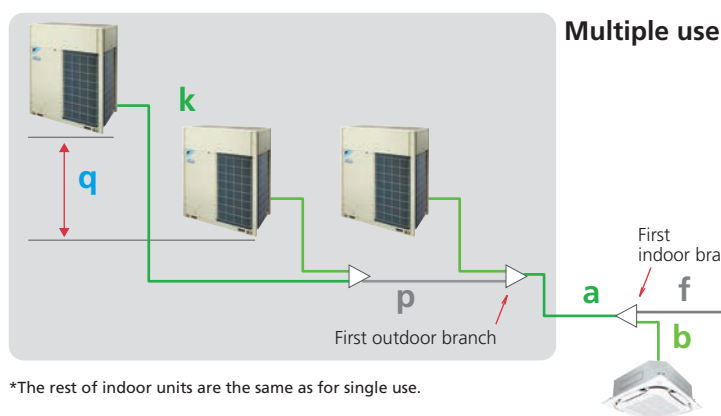
Guidelines for Reuse of Existing Refrigerant Piping

Piping limits for reuse of existing piping



Total piping length

Max. 300 m



		Piping length	Example
Maximum allowable piping length	Actual refrigerant piping length (Equivalent)	150 m (175 m)	a+f+g+h+i
	Total piping length	300 m	a+b+c+d+e+f+g+h+i
	Between the first indoor branch and the farthest indoor unit	40 m	f+g+h+i
	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)	k+p
		Height difference	Example
Maximum allowable height difference	Between the outdoor units (Multiple use)	5 m	q
	Between the indoor units	15 m	s
	Between the outdoor units and the indoor units	If the outdoor unit is above. 50 m	r
		If the outdoor unit is below. 40 m	r

Reusability of existing piping for VRV IV Q series

Type of piping	Capacity	Piping size														
		Liquid						Gas								
		φ 6.4	φ 9.5	φ 12.7	φ 15.9	φ 19.1	φ 22.2	φ 12.7	φ 15.9	φ 19.1	φ 22.2	φ 25.4	φ 28.6	φ 34.9	φ 41.3	φ 54.1
Main piping	6 HP	X	S○●			X	X	X	X	S○	●			X	X	X
	8 HP	X	S○	●		X	X	X	X	S○		●		X	X	X
	10 HP	X	S○	●		X	X	X	X	X	S○		●	X	X	X
	12 HP	X	X	S○	●	X	X	X	X	X	X	X	S○	●	X	X
	14 HP	X	X	S○	●	X	X	X	X	X	X	X	S○	●	X	X
	16 HP	X	X	S○	●	X	X	X	X	X	X	X	S○	●	X	X
	18 HP	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X	X
	20 HP	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X	X
	22 HP	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X	X
	24 HP	X	X	X	S○	●	X	X	X	X	X	X	S○	●		X
	26 HP	X	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X
	28 HP	X	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X
	30 HP	X	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X
	32 HP	X	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X
	34 HP	X	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X
	36 HP	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●
	38 HP	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●
	40 HP	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●
	42 HP	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●
	44 HP	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●
46 HP	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●	
48 HP	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●	
From REFNET to REFNET *1	< 100	X	S○●		X	X	X	X	S○●		X	X	X	X	X	X
	100 ≤ X < 150	X	S○●		X	X	X	X	S○	●	X	X	X	X	X	X
	150 ≤ X < 160	X	S○●		X	X	X	X	X	S○●			X	X	X	X
	160 ≤ X < 200	X	S○	●	X	X	X	X	X	S○		●	X	X	X	X
	200 ≤ X < 290	X	S○	●		X	X	X	X	X	S○	●		X	X	X
	290 ≤ X < 330	X	X	S○●		X	X	X	X	X	X	●	S○		X	X
	330 ≤ X < 420	X	X	S○	●	X	X	X	X	X	X	X	S○	●	X	X
	420 ≤ X < 480	X	X	X	S○●		X	X	X	X	X	X	S○	●	X	X
	480 ≤ X < 640	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X	X
	640 ≤ X < 900	X	X	X	X	S○●		X	X	X	X	X	X	S○	●	
900 ≤ X < 920	X	X	X	X	S○	●	X	X	X	X	X	X	S○		●	
920 ≤	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●	
From REFNET to indoor unit*2	20-40 class	S○●		X	X	X	X	S○●		X	X	X	X	X	X	X
	50 class	S○	●	X	X	X	X	S○	●	X	X	X	X	X	X	X
	63-80 class	X	S○●		X	X	X	X	S○●		X	X	X	X	X	X
	100-125 class	X	S○●		X	X	X	X	S○	●			X	X	X	X
	140 class	X	S○		X	X	X	X	S○				X	X	X	X
	200 class	X	S○	●	X	X	X	X	X	S○		●		X	X	X
	250 class	X	S○	●	X	X	X	X	X	X	S○		●	X	X	X

● : Piping size of conventional R-22 model

○ : Piping size of conventional R-410A model

S : Standard piping size of VRV IV Q series

■ : Possible

■ : 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.

X : Not possible

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

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

Outdoor Unit Lineup

VRV IV Q Series

Enhanced lineup to 2 types

Lineup

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

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	RQ(Y)Q6T	RQ(Y)Q6T	—	75 to 195	9
8	22.4	200	RQ(Y)Q8T	RQ(Y)Q8T	—	100 to 260	13
10	28.0	250	RQ(Y)Q10T	RQ(Y)Q10T	—	125 to 325	16
12	33.5	300	RQ(Y)Q12T	RQ(Y)Q12T	—	150 to 390	19
14	40.0	350	RQ(Y)Q14T	RQ(Y)Q14T	—	175 to 455	22
16	45.0	400	RQ(Y)Q16T	RQ(Y)Q16T	—	200 to 520	26
18	50.4	450	RQ(Y)Q18TN	RQ(Y)Q8T + RQ(Y)Q10T	BHFP22P100	225 to 585	29
20	55.9	500	RQ(Y)Q20TN	RQ(Y)Q8T + RQ(Y)Q12T		250 to 650	32
22	61.5	550	RQ(Y)Q22TN	RQ(Y)Q10T + RQ(Y)Q12T		275 to 715	35
24	67.0	600	RQ(Y)Q24TN	RQ(Y)Q12T × 2		300 to 780	39
26	73.5	650	RQ(Y)Q26TN	RQ(Y)Q12T + RQ(Y)Q14T		325 to 845	42
28	78.5	700	RQ(Y)Q28TN	RQ(Y)Q12T + RQ(Y)Q16T		350 to 910	45
30	85.0	750	RQ(Y)Q30TN	RQ(Y)Q14T + RQ(Y)Q16T		375 to 975	48
32	90.0	800	RQ(Y)Q32TN	RQ(Y)Q14T + RQ(Y)Q18T		400 to 1,040	52
34	95.0	850	RQ(Y)Q34TN	RQ(Y)Q10T + RQ(Y)Q12T × 2	BHFP22P151	425 to 1,105	55
36	101	900	RQ(Y)Q36TN	RQ(Y)Q12T × 3		450 to 1,170	58
38	106	950	RQ(Y)Q38TN	RQ(Y)Q8T + RQ(Y)Q12T + RQ(Y)Q18T		475 to 1,235	61
40	112	1,000	RQ(Y)Q40TN	RQ(Y)Q12T × 2 + RQ(Y)Q16T		500 to 1,300	64
42	119	1,050	RQ(Y)Q42TN	RQ(Y)Q12T + RQ(Y)Q14T + RQ(Y)Q16T		525 to 1,365	
44	124	1,100	RQ(Y)Q44TN	RQ(Y)Q12T + RQ(Y)Q16T × 2		550 to 1,430	
46	130	1,150	RQ(Y)Q46TN	RQ(Y)Q14T × 2 + RQ(Y)Q18T		575 to 1,495	
48	135	1,200	RQ(Y)Q48TN	RQ(Y)Q14T + RQ(Y)Q16T + RQ(Y)Q18T		600 to 1,560	

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

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

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

Space Saving Type

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*3	Maximum number of connectable indoor units*2
18	50.0	450	RQ(Y)Q18T	RQ(Y)Q18T	—	225 to 585	29
20	56.0	500	RQ(Y)Q20T	RQ(Y)Q20T	—	250 to 650	32
30	83.5	750	RQ(Y)Q30TS	RQ(Y)Q12T + RQ(Y)Q18T	BHFP22P100	375 to 975	48
32	89.5	800	RQ(Y)Q32TS	RQ(Y)Q12T + RQ(Y)Q20T		400 to 1,040	52
34	95.0	850	RQ(Y)Q34TS	RQ(Y)Q16T + RQ(Y)Q18T		425 to 1,105	55
36	100	900	RQ(Y)Q36TS	RQ(Y)Q18T × 2		450 to 1,170	58
38	106	950	RQ(Y)Q38TS	RQ(Y)Q18T + RQ(Y)Q20T		475 to 1,235	61
40	112	1,000	RQ(Y)Q40TS	RQ(Y)Q20T × 2		500 to 1,300	64
42	117	1,050	RQ(Y)Q42TS	RQ(Y)Q12T × 2 + RQ(Y)Q18T	BHFP22P151	525 to 1,365	
44	123	1,100	RQ(Y)Q44TS	RQ(Y)Q12T × 2 + RQ(Y)Q20T		550 to 1,430	
46	129	1,150	RQ(Y)Q46TS	RQ(Y)Q12T + RQ(Y)Q16T + RQ(Y)Q18T		575 to 1,495	
48	134	1,200	RQ(Y)Q48TS	RQ(Y)Q12T + RQ(Y)Q18T × 2		600 to 1,560	

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

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

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

Indoor Unit Lineup

VRV IV Q Series

Wide variety of indoor units

 New lineup

Category	Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	200	250	400	500
			Capacity Range	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	500
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM			●	●	●	●	●		●	●	●	●				
	Round Flow Cassette with Streamer	FXFRQ-AVM			●	●	●	●	●		●	●	●	●				
	Round Flow Cassette	FXFQ-AVM			●	●	●	●	●		●	●	●	●				
	Compact Multi Flow Cassette	FXZQ-BVM		●	●	●	●	●										
	Double Flow Cassette	FXCQ-BVM		●	●	●	●	●	●		●		●					
	Single Flow Cassette	FXEQ-AV36		●	●	●	●	●	●									
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM		●	●	●	●	●	●									
	Bedroom Duct	FXDBQ-AVM					●	●	●		●							
	Slim Duct (Standard)	FXDQ-PDVE		●	●	●												
		FXDQ-NDVE					●	●	●									
	Slim Duct (Compact)	FXDQ-SPV1		●	●	●	●	●	●									
	Middle Static Pressure Duct	FXSQ-PAVE		●	●	●	●	●	●		●	●	●	●				
	Middle-High Static Pressure Duct	FXMQ-PAVE		●	●	●	●	●	●		●	●	●	●				
	High Static Pressure Duct	FXMQ-PVM													●	●		
	Outdoor-Air Processing Unit	FXMQ-MFV1											●		●	●		
		FXMQ-AFVM										●		●	●	●		
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●						
	Ceiling Suspended	FXHQ-MAVE				●			●			●						
		FXHQ-BVM											●	●				
New	Wall Mounted	FXAQ-BVM		●	●	●	●	●	●	●	●	●						
Floor Standing	Floor Standing	FXLQ-MAVE		●	●	●	●	●	●									
	Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●									
	Floor Standing Duct	FXVQ-NY1											●		●	●	●	●
		FXVQ-NY16 (high static pressure type)																●
Heat Reclaim Ventilator with DX-Coil		VKM-GCVE		Airflow rate 500-950 m³/h														
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h														

Outdoor Units

VRV IV Q Series

Specifications

Standard Type

								
MODEL			RQQ6TYM	RQQ8TYM	RQQ10TYM	RQQ12TYM	RQQ14TYM	RQQ16TYM
Combination units			—	—	—	—	—	—
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
Cooling capacity	Btu/h		54,600	76,400	95,500	114,000	136,000	154,000
	kW		16.0	22.4	28.0	33.5	40.0	45.0
Power consumption	kW		3.63	5.18	6.88	8.82	10.7	13.0
Capacity control	%		20-100		16-100	15-100	11-100	10-100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll Type					
	Motor output	kW	2.4X1	3.4X1	4.1X1	5.2X1	(2.9X1)+(3.3X1)	(3.6X1)+(3.7X1)
Airflow rate	m ³ /min		119	157	165	178	233	233
Dimensions (H×W×D)	mm		1,657×930×765				1,657×1,240×765	
Machine weight	kg		185		195		285	
Sound level	dB(A)		55	56	57	59	60	61
Operation range	°CDB		-5 to 49					
Refrigerant	Type		R-410A					
	Charge	kg	5.9		6.0	6.3	10.3	10.4
Piping connections	Liquid	mm	φ 9.5(Brazing)			φ 12.7(Brazing)		
	Gas	mm	φ 19.1(Brazing)		φ 22.2(Brazing)	φ 28.6(Brazing)		

										
MODEL			RQQ34TNYM	RQQ36TNYM	RQQ38TNYM	RQQ40TNYM	RQQ42TNYM	RQQ44TNYM		
Combination units			RQQ10TYM	RQQ12TYM	RQQ8TYM	RQQ12TYM	RQQ12TYM	RQQ12TYM		
			RQQ12TYM	RQQ12TYM	RQQ12TYM	RQQ12TYM	RQQ14TYM	RQQ16TYM		
			RQQ12TYM	RQQ12TYM	RQQ18TYM	RQQ16TYM	RQQ16TYM	RQQ16TYM		
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
Cooling capacity	Btu/h		324,000	345,000	362,000	382,000	406,000	423,000		
	kW		95.0	101	106	112	119	124		
Power consumption	kW		24.5	26.5	29.4	30.6	32.5	34.8		
Capacity control	%		5-100			4-100				
Casing colour			Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically Sealed Scroll Type							
	Motor output	kW	(4.1X1)+(5.2X1)+ (5.2X1)	(5.2X1)+(5.2X1)+ (5.2X1)	(3.4X1)+(5.2X1)+ (4.4X1)+(4.0X1)	(5.2X1)+(5.2X1)+ (3.6X1)+(3.7X1)	(5.2X1)+(2.9X1)+ (3.3X1)+(3.6X1)+ (3.7X1)	(5.2X1)+(3.6X1)+ (3.7X1)+(3.6X1)+ (3.7X1)		
Airflow rate	m ³ /min		165+178+178	178+178+178	157+178+233	178+178+233	178+233+233			
Dimensions (HxWxD)	mm		(1,657x930x765)+(1,657x930x765)+ (1,657x930x765)			(1,657x930x765)+(1,657x930x765)+ (1,657x1,240x765)		(1,657x930x765)+(1,657x1,240x765)+ (1,657x1,240x765)		
Machine weight	kg		195+195+195	195+195+195	185+195+285	195+195+285	195+285+285			
Sound level	dB(A)		63	64			65			
Operation range	°CDB		-5 to 49							
Refrigerant	Type		R-410A							
	Charge	kg	6.0+6.3+6.3	6.3+6.3+6.3	5.9+6.3+10.5	6.3+6.3+10.4	6.3+10.3+10.4	6.3+10.4+10.4		
Piping connections	Liquid	mm	ϕ 19.1(Brazing)							
	Gas	mm	ϕ 34.9(Brazing)	ϕ 41.3(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, Height 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.

Cooling Only

								
	RQQ18TNYM	RQQ20TNYM	RQQ22TNYM	RQQ24TNYM	RQQ26TNYM	RQQ28TNYM	RQQ30TNYM	RQQ32TNYM
	RQQ8TYM	RQQ8TYM	RQQ10TYM	RQQ12TYM	RQQ12TYM	RQQ12TYM	RQQ14TYM	RQQ14TYM
	RQQ10TYM	RQQ12TYM	RQQ12TYM	RQQ12TYM	RQQ14TYM	RQQ16TYM	RQQ16TYM	RQQ18TYM
	—	—	—	—	—	—	—	—
	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
	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				6-100		5-100	
	Ivory white (5Y7.5/1)							
	Hermetically Sealed Scroll Type							
	(3.4X1)+ (4.1X1)	(3.4X1)+ (5.2X1)	(4.1X1)+ (5.2X1)	(5.2X1)+ (5.2X1)	(5.2X1)+(2.9X1)+ (3.3X1)	(5.2X1)+(3.6X1)+ (3.7X1)	(2.9X1)+(3.3X1)+ (3.6X1)+(3.7X1)	(2.9X1)+(3.3X1)+ (4.4X1)+(4.0X1)
	157+165	157+178	165+178	178+178	178+233		233+233	
	(1,657x930x765)+(1,657x930x765)				(1,657x930x765)+(1,657x1,240x765)		(1,657x1,240x765)+(1,657x1,240x765)	
	185+195		195+195		195+285		285+285	
	60	61		62	63		64	
	-5 to 49							
	R-410A							
	5.9+6.0	5.9+6.3	6.0+6.3	6.3+6.3	6.3+10.3	6.3+10.4	10.3+10.4	10.3+10.5
	φ 15.9(Brazing)				φ 19.1(Brazing)			
	φ 28.6(Brazing)			φ 34.9(Brazing)				

Space Saving Type

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

			MODEL		RQQ18TYM	RQQ20TYM
Combination units					—	—
Power supply					3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz	
Cooling capacity		Btu/h			171,000	191,000
		kW			50.0	56.0
Power consumption		kW			15.4	18.0
Capacity control		%			10-100	8-100
Casing colour					Ivory white (5Y7.5/1)	
Compressor	Type				Hermetically Sealed Scroll Type	
	Motor output	kW			(4.4X1)+(4.0X1)	(4.6X1)+(5.5X1)
Airflow rate		m³/min			233	268
Dimensions (HxWxD)		mm			1,657x1,240x765	
Machine weight		kg			285	320
Sound level		dB(A)			62	65
Operation range		°CDB			-5 to 49	
Refrigerant	Type				R-410A	
	Charge	kg			10.5	11.8
Piping connections	Liquid	mm			φ 15.9(Brazing)	
	Gas	mm			φ 28.6(Brazing)	

Outdoor Units

VRV IV Q Series

Specifications

Space Saving Type

									
MODEL			RQQ30TSYM	RQQ32TSYM	RQQ34TSYM	RQQ36TSYM			
Combination units			RQQ12TYM	RQQ12TYM	RQQ16TYM	RQQ18TYM			
			RQQ18TYM	RQQ20TYM	RQQ18TYM	RQQ18TYM			
			—	—	—	—			
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz						
Cooling capacity	Btu/h		285,000	305,000	324,000	341,000			
	kW		83.5	89.5	95.0	100			
Power consumption	kW		24.2	26.8	28.4	30.8			
Capacity control	%		6-100	5-100					
Casing colour			Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically Sealed Scroll Type						
	Motor output	kW	(5.2×1)+(4.4×1)+(4.0×1)	(5.2×1)+(4.6×1)+(5.5×1)	(3.6×1)+(3.7×1)+(4.4×1)+(4.0×1)	(4.4×1)+(4.0×1)+(4.4×1)+(4.0×1)			
Airflow rate		m³/min	178+233	178+268	233+233				
Dimensions (H×W×D)		mm	(1,657×930×765)+(1,657×1,240×765)			(1,657×1,240×765)+(1,657×1,240×765)			
Machine weight		kg	195+285	195+320	285+285				
Sound level		dB(A)	64	66	65				
Operation range		°CDB	-5 to 49						
Refrigerant	Type		R-410A						
	Charge	kg	6.3+10.5	6.3+11.8	10.4+10.5	10.5+10.5			
Piping connections	Liquid	mm	φ 19.1(Brazing)						
	Gas	mm	φ 34.9(Brazing)				φ 41.3(Brazing)		

Standard Type

								
MODEL			RQYQ6TY1	RQYQ8TY1	RQYQ10TY1	RQYQ12TY1	RQYQ14TY1	RQYQ16TY1
Combination units			—	—	—	—	—	—
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz					
Cooling capacity	Btu/h		54,600	76,400	95,500	114,000	136,000	154,000
	kW		16.0	22.4	28.0	33.5	40.0	45.0
Heating capacity	Btu/h		61,400	85,300	107,000	128,000	154,000	171,000
	kW		18.0	25.0	31.5	37.5	45.0	50.0
Power consumption	Cooling	kW	3.63	5.18	6.88	8.82	10.7	13.0
	Heating	kW	3.99	5.69	7.29	9.06	11.1	12.8
Capacity control	%		20-100		16-100	15-100	11-100	10-100
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll Type					
	Motor output	kW	2.4×1	3.4×1	4.1×1	5.2×1	(2.9×1)+(3.3×1)	(3.6×1)+(3.7×1)
Airflow rate	m ³ /min		119	157	165	178	233	
Dimensions (H×W×D)	mm		1,657×930×765				1,657×1,240×765	
Machine weight	kg		185		195		285	
Sound level	dB(A)		55	56	57	59	60	61
Operation range	Cooling	°CDB	-5 to 49					
	Heating	°CWB	-20 to 15.5					
Refrigerant	Type		R-410A					
	Charge	kg	5.9		6.0	6.3	10.3	10.4
Piping connections	Liquid	mm	φ 9.5(Brazing)			φ 12.7(Brazing)		
	Gas	mm	φ 19.1(Brazing)		φ 22.2(Brazing)	φ 28.6(Brazing)		

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

Cooling Only

						
	RQQ38TSYM	RQQ40TSYM	RQQ42TSYM	RQQ44TSYM	RQQ46TSYM	RQQ48TSYM
	RQQ18TYM	RQQ20TYM	RQQ12TYM	RQQ12TYM	RQQ12TYM	RQQ12TYM
	RQQ20TYM	RQQ20TYM	RQQ12TYM	RQQ12TYM	RQQ16TYM	RQQ18TYM
	—	—	RQQ18TYM	RQQ20TYM	RQQ18TYM	RQQ18TYM
	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
	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					
	Ivory white (5Y7.5/1)					
	Hermetically Sealed 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	
	(1,657×1,240×765)+(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)	
	285+320	320+320	195+195+285	195+195+320	195+285+285	
	67	68	65	67	66	
	-5 to 49					
	R-410A					
	10.5+11.8	11.8+11.8	6.3+6.3+10.5	6.3+6.3+11.8	6.3+10.4+10.5	6.3+10.5+10.5
	φ 19.1(Brazing)					
	φ 41.3(Brazing)					

Heat Pump

								
	RQYQ18TNY1	RQYQ20TNY1	RQYQ22TNY1	RQYQ24TNY1	RQYQ26TNY1	RQYQ28TNY1	RQYQ30TNY1	RQYQ32TNY1
	RQYQ8TY1	RQYQ8TY1	RQYQ10TY1	RQYQ12TY1	RQYQ12TY1	RQYQ12TY1	RQYQ14TY1	RQYQ14TY1
	RQYQ10TY1	RQYQ12TY1	RQYQ12TY1	RQYQ12TY1	RQYQ14TY1	RQYQ16TY1	RQYQ16TY1	RQYQ18TY1
	—	—	—	—	—	—	—	—
	3-phase 4-wire system, 380-415 V, 50 Hz							
	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
	193,000	213,000	235,000	256,000	281,000	299,000	324,000	345,000
	56.5	62.5	69.0	75.0	82.5	87.5	95.0	101
	12.1	14.0	15.7	17.6	19.5	21.8	23.7	26.1
	13.0	14.8	16.4	18.1	20.2	21.9	23.9	26.2
	8-100				6-100		5-100	
	Ivory white (5Y7.5/1)							
	Hermetically Sealed Scroll Type							
	(3.4×1)+ (4.1×1)	(3.4×1)+ (5.2×1)	(4.1×1)+ (5.2×1)	(5.2×1)+ (5.2×1)	(5.2×1)+(2.9×1)+ (3.3×1)	(5.2×1)+(3.6×1)+ (3.7×1)	(2.9×1)+(3.3×1)+ (3.6×1)+(3.7×1)	(2.9×1)+(3.3×1)+ (4.4×1)+(4.0×1)
	157+165	157+178	165+178	178+178	178+233		233+233	
	(1,657×930×765)+(1,657×930×765)				(1,657×930×765)+(1,657×1,240×765)		(1,657×1,240×765)+(1,657×1,240×765)	
	185+195		195+195		195+285		285+285	285+300
	60	61		62	63		64	
	-5 to 49							
	-20 to 15.5							
	R-410A							
	5.9+6.0	5.9+6.3	6.0+6.3	6.3+6.3	6.3+10.3	6.3+10.4	10.3+10.4	10.3+11.7
	φ 15.9(Brazing)				φ 19.1(Brazing)			
	φ 28.6(Brazing)			φ 34.9(Brazing)				

• 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.

Outdoor Units

VRV IV Q Series

Specifications

Standard Type

											
MODEL			RQYQ34TNY1	RQYQ36TNY1	RQYQ38TNY1	RQYQ40TNY1	RQYQ42TNY1	RQYQ44TNY1			
Combination units			RQYQ10TY1	RQYQ12TY1	RQYQ8TY1	RQYQ12TY1	RQYQ12TY1	RQYQ12TY1			
			RQYQ12TY1	RQYQ12TY1	RQYQ12TY1	RQYQ12TY1	RQYQ14TY1	RQYQ16TY1			
			RQYQ12TY1	RQYQ12TY1	RQYQ18TY1	RQYQ16TY1	RQYQ16TY1	RQYQ16TY1			
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz								
Cooling capacity		Btu/h	324,000	345,000	362,000	382,000	406,000	423,000			
		kW	95.0	101	106	112	119	124			
Heating capacity		Btu/h	365,000	386,000	406,000	427,000	454,000	471,000			
		kW	107	113	119	125	133	138			
Power consumption	Cooling	kW	24.5	26.5	29.4	30.6	32.5	34.8			
	Heating	kW	25.4	27.2	29.9	30.9	33.0	34.7			
Capacity control		%	5-100			4-100					
Casing colour			Ivory white (5Y7.5/1)								
Compressor	Type		Hermetically Sealed Scroll Type								
	Motor output	kW	(4.1×1)+(5.2×1)+ (5.2×1)	(5.2×1)+(5.2×1)+ (5.2×1)	(3.4×1)+(5.2×1)+ (4.4×1)+(4.0×1)	(5.2×1)+(5.2×1)+ (3.6×1)+(3.7×1)	(5.2×1)+(2.9×1)+ (3.3×1)+(3.6×1)+ (3.7×1)	(5.2×1)+(3.6×1)+ (3.7×1)			
Airflow rate		m³/min	165+178+178	178+178+178	157+178+233	178+178+233	178+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)+ (1,657×1,240×765)				
Machine weight		kg	195+195+195			185+195+300	195+195+285	195+285+285			
Sound level		dB(A)	63	64			65				
Operation range	Cooling	°CDB	-5 to 49								
	Heating	°CWB	-20 to 15.5								
Refrigerant	Type		R-410A								
	Charge	kg	6.0+6.3+6.3			5.9+6.3+11.7	6.3+6.3+10.4	6.3+10.3+10.4	6.3+10.4+10.4		
Piping connections	Liquid	mm	φ 19.1(Brazing)								
	Gas	mm	φ 34.9(Brazing)	φ 41.3(Brazing)							

											
MODEL			RQYQ30TSY1		RQYQ32TSY1		RQYQ34TSY1		RQYQ36TSY1		
Combination units			RQYQ12TY1		RQYQ12TY1		RQYQ16TY1		RQYQ18TY1		
			RQYQ18TY1		RQYQ20TY1		RQYQ18TY1		RQYQ18TY1		
			—		—		—		—		
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz								
Cooling capacity		Btu/h	285,000		305,000		324,000		341,000		
		kW	83.5		89.5		95.0		100		
Heating capacity		Btu/h	319,000		345,000		362,000		382,000		
		kW	93.5		101		106		112		
Power consumption	Cooling	kW	24.2		26.8		28.4		30.8		
	Heating	kW	24.2		26.6		27.9		30.2		
Capacity control		%	6-100				5-100				
Casing colour			Ivory white (5Y7.5/1)								
Compressor	Type		Hermetically Sealed Scroll Type								
	Motor output	kW	(5.2×1)+(4.4×1)+(4.0×1)		(5.2×1)+(4.6×1)+(5.5×1)		(3.6×1)+(3.7×1)+(4.4×1)+(4.0×1)		(4.4×1)+(4.0×1)+(4.4×1)+(4.0×1)		
Airflow rate		m³/min	178+233		178+268		233+233				
Dimensions (H×W×D)		mm	(1,657×930×765)+(1,657×1,240×765)				(1,657×1,240×765)+(1,657×1,240×765)				
Machine weight		kg	195+300		195+320		285+300		300+300		
Sound level		dB(A)	64		66		65				
Operation range	Cooling	°CDB	-5 to 49								
	Heating	°CWB	-20 to 15.5								
Refrigerant	Type		R-410A								
	Charge	kg	6.3+11.7		6.3+11.8		10.4+11.7		11.7+11.7		
Piping connections	Liquid	mm	φ 19.1(Brazing)								
	Gas	mm	φ 34.9(Brazing)						φ 41.3(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, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.

Space Saving Type

Heat Pump

	
RQYQ46TNY1	RQYQ48TNY1
RQYQ14TY1	RQYQ14TY1
RQYQ14TY1	RQYQ16TY1
RQYQ18TY1	RQYQ18TY1
3-phase 4-wire system, 380-415 V, 50 Hz	
444,000	461,000
130	135
498,000	515,000
146	151
36.8	39.1
37.3	39.0
3-100	
Ivory white (5Y7.5/1)	
Hermetically Sealed Scroll Type	
(2.9×1)+(3.3×1)+ (2.9×1)+(3.3×1)+ (4.4×1)+(4.0×1)	(2.9×1)+(3.3×1)+ (3.6×1)+(3.7×1)+ (4.4×1)+(4.0×1)
233+233+233	
(1,657×1,240×765)+(1,657×1,240×765)+ (1,657×1,240×765)	
285+285+300	
66	
-5 to 49	
-20 to 15.5	
R-410A	
10.3+10.3+11.7	10.3+10.4+11.7

		
MODEL		
RQYQ18TY1		
RQYQ20TY1		
Combination units		
—		
Power supply		
3-phase 4-wire system, 380-415 V, 50 Hz		
Cooling capacity	Btu/h	171,000
	kW	50.0
Heating capacity	Btu/h	191,000
	kW	56.0
Power consumption	Cooling	15.4
	Heating	17.5
Capacity control		%
10-100		8-100
Casing colour		
Ivory white (5Y7.5/1)		
Compressor	Type	Hermetically Sealed Scroll Type
	Motor output	kW
(4.4×1)+(4.0×1)		(4.6×1)+(5.5×1)
Airflow rate		m³/min
233		268
Dimensions (H×W×D)		mm
1,657×1,240×765		
Machine weight		kg
300		320
Sound level		dB(A)
62		65
Operation range	Cooling	°CDB
	Heating	°CWB
-5 to 49		-20 to 15.5
Refrigerant	Type	R-410A
	Charge	kg
11.7		11.8
Piping connections	Liquid	mm
	Gas	mm
φ 15.9(Brazing)		φ 28.6(Brazing)

						
	RQYQ38TSY1	RQYQ40TSY1	RQYQ42TSY1	RQYQ44TSY1	RQYQ46TSY1	RQYQ48TSY1
	RQYQ18TY1	RQYQ20TY1	RQYQ12TY1	RQYQ12TY1	RQYQ12TY1	RQYQ12TY1
	RQYQ20TY1	RQYQ20TY1	RQYQ12TY1	RQYQ12TY1	RQYQ16TY1	RQYQ18TY1
	—	—	RQYQ18TY1	RQYQ20TY1	RQYQ18TY1	RQYQ18TY1
	3-phase 4-wire system, 380-415 V, 50 Hz					
	362,000	382,000	399,000	420,000	440,000	457,000
	106	112	117	123	129	134
	406,000	430,000	447,000	471,000	491,000	512,000
	119	126	131	138	144	150
	33.4	36.0	33.0	35.6	37.2	39.6
	32.6	35.0	33.2	35.6	37.0	39.3
	4-100					
	Ivory white (5Y7.5/1)					
	Hermetically Sealed 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	
	(1,657×1,240×765)+(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)	
	300+320	320+320	195+195+300	195+195+320	195+285+300	195+300+300
	67	68	65	67	66	
	-5 to 49					
	-20 to 15.5					
	R-410A					
	11.7+11.8	11.8+11.8	6.3+6.3+11.7	6.3+6.3+11.8	6.3+10.4+11.7	6.3+11.7+11.7
	φ 19.1(Brazing)					
	φ 41.3(Brazing)					

• 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 W SERIES

Water Cooled System Suitable
for Tall Multi-Storied Buildings

Heat Pump
6 HP—36 HP
(16 kW) (101 kW)

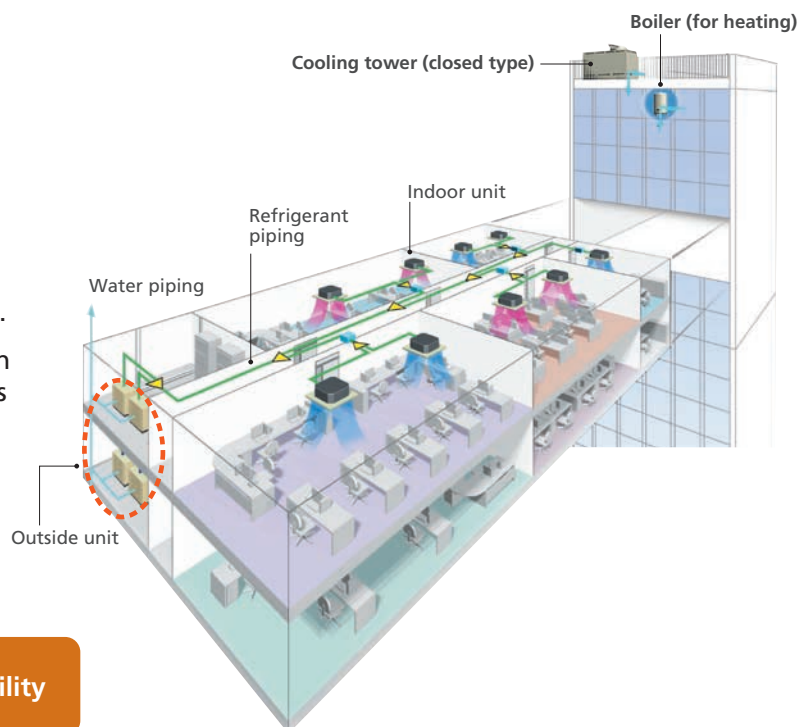


Single outside units
RWEYQ6-12TYM

Double outside units
RWEYQ14-24TYM

Triple outside units
RWEYQ26-36TYM

- Water cooled system does not require to exchange heat with outdoor air
- Outside units can be installed indoors.
- The air conditioning operation is stable even when the outdoor air temperature is high
- Individual air conditioning is achieved via on-demand operation in each room.
- The length of the refrigerant piping can be minimized by installing outside units in proximity to indoor units.
- As refrigerant piping is connected to indoor units, it reduces the risks of indoor water leakage.



High installation flexibility

Design flexibility

■ Design flexibility

High-rise buildings

Compact outside units can be easily installed in the machine rooms on each floor. It is adaptable to high-rise buildings.

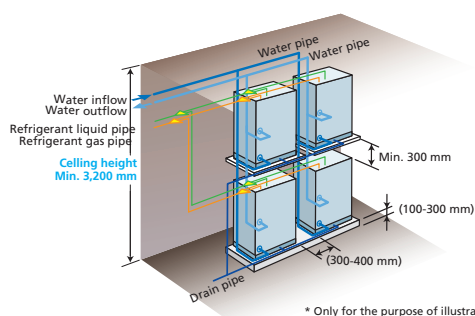
Condominiums and detached houses

We offer an extensive lineup of small capacity outside units.

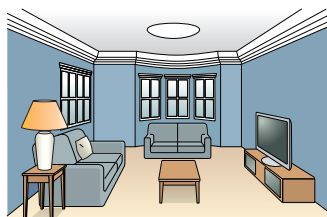
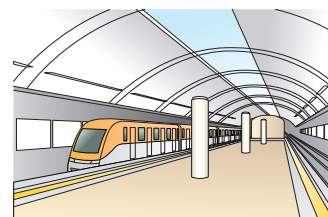
Underground shopping malls and subway

As heat exchanging with outdoor air is not required, individual air conditioning can be easily provided.

No balcony required



* Only for the purpose of illustration.



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

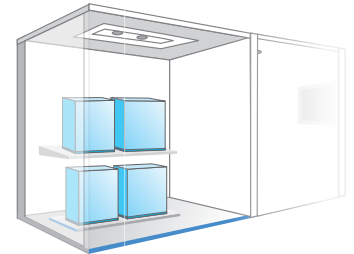
A flexible system convenient for expansion/renovation

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

Easy Installation

Indoor installation solves the puzzle of proper placement of outdoor units

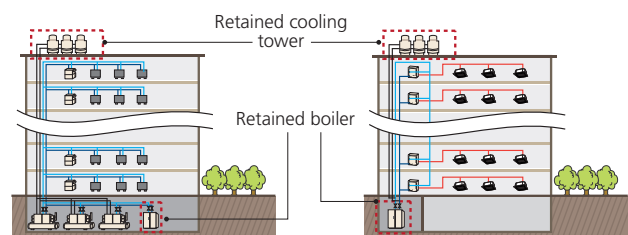
It is possible to place the outside unit inside the building, it makes easier to adapt to different type of buildings and open to various kinds of creative building exteriors.



Part of the old system can be retained

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

Cost Saving



Before renovation

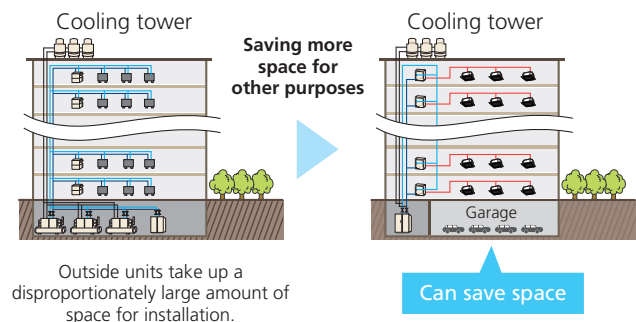
After renovation

*System diagram

The compact outside units facilitate the renovation process

- The outside units are conveniently compact so transport by elevator is possible. It also effectively simplifies installation. This also saves a great deal of time and labor.
- The modular design enables a free and flexible configuration of the outside units. Also can save space for other purposes.

Space Saving



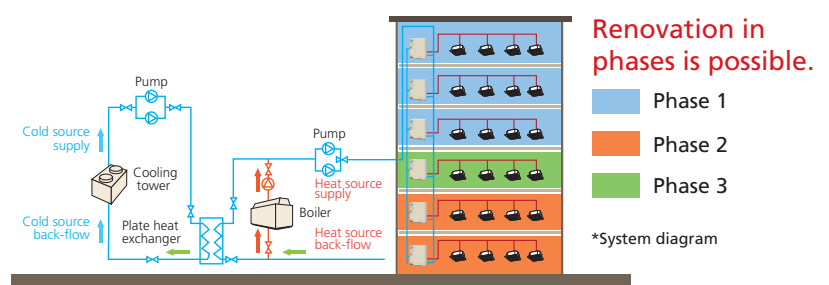
Outside units take up a disproportionately large amount of space for installation.

Can save space

Floor by floor renovation without disturbing other tenants

Because equipment can be replaced in phases, installation adapts to the renovation plans of the customers and ensures that work performed on some floors and zones will not affect other tenants.

Flexible Renovation



Renovation in phases is possible.

- Phase 1
- Phase 2
- Phase 3

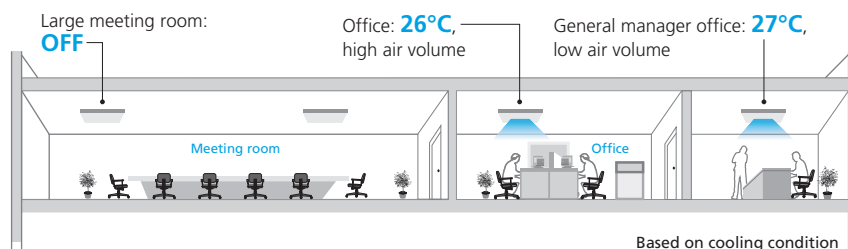
*System diagram

Water cooled **VRV** IV W series

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

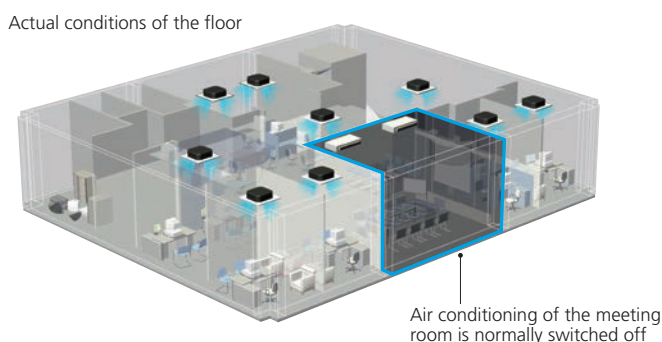
Independent control provides greater comfort and convenience.

Each indoor unit can be independently controlled and adjusted according to each tenant's individual needs for temperature and air volume.



Higher efficiency with partial load

During actual operation, the load of an air conditioning system changes according to variations in weather conditions outside and indoor unit operation rates. Daikin's advanced DC inverter technology and advanced refrigerant control technology boasts a higher efficiency under partial load than in the rated operating conditions.

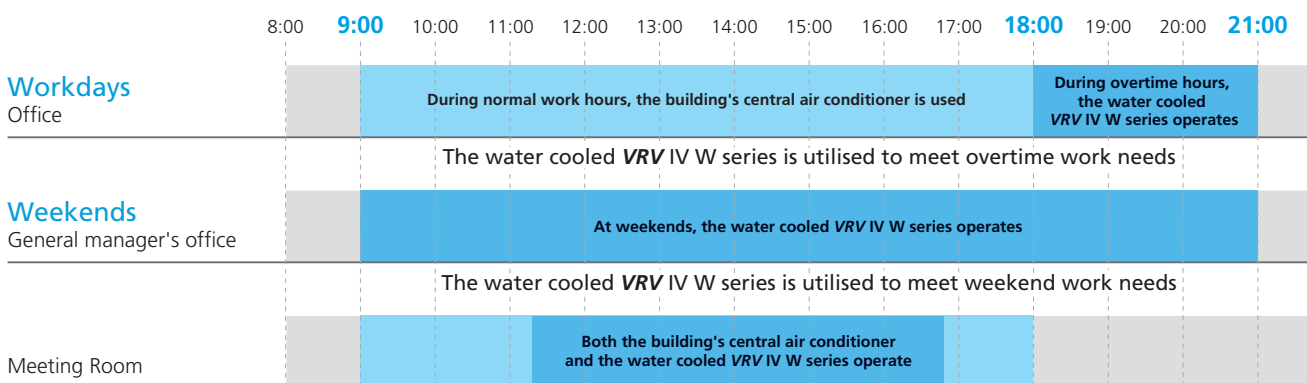


Flexibly satisfies conditions for working overtime and times of insufficient load

Each indoor unit can be independently controlled and adjusted according to each tenant's individual needs for temperature and air volume.

- Inconvenient transportation procedures are eliminated.
- Operation for each indoor unit can be precisely and individually set.

Example of air conditioning control for different rooms of the same floor



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

Easy Installation & Energy Saving

■ Compact and lightweight

VRV IV W SERIES

Footprint : **0.43 m²**

Product Weight : **146 kg**
(*For 6 HP, 8 HP)



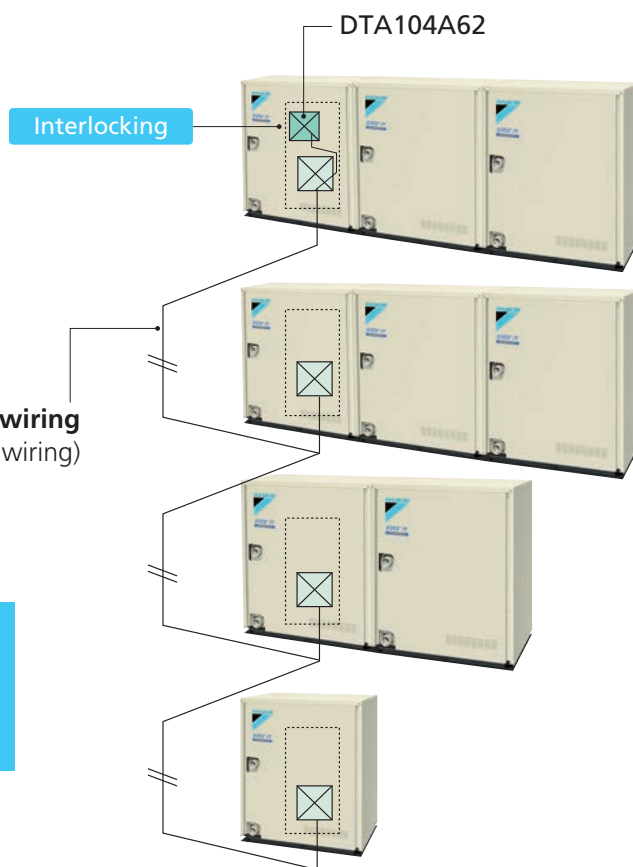
■ Enhanced usability

Centralised interlocking function

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

Control wiring
(external-to-external transmission wiring)

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



Enhanced lineup

VRV IV W SERIES

Wider capacity range from **6 to 36 HP**



6 HP, 8 HP, 10 HP, 12 HP

6, 8, 10, 12 HP



RWEYQ6TYM RWEYQ10TYM
RWEYQ8TYM RWEYQ12TYM

14, 16, 18, 20, 22, 24 HP



RWEYQ14TYM RWEYQ20TYM
RWEYQ16TYM RWEYQ22TYM
RWEYQ18TYM RWEYQ24TYM

26, 28, 30, 32, 34, 36 HP

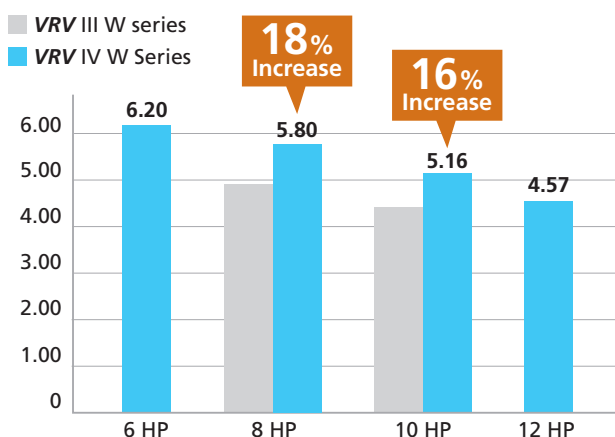


RWEYQ26TYM RWEYQ32TYM
RWEYQ28TYM RWEYQ34TYM
RWEYQ30TYM RWEYQ36TYM

Energy saving

Higher Energy Efficiency Ratio (EER)

Cooling Operation EER



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

VRT control for optimal annual efficiency

VRT automatically adjusts refrigerant temperature to individual building and climate requirement, thus further improving annual energy efficiency and maintaining comfort.



Flexible System Design

Long piping length

Actual piping length

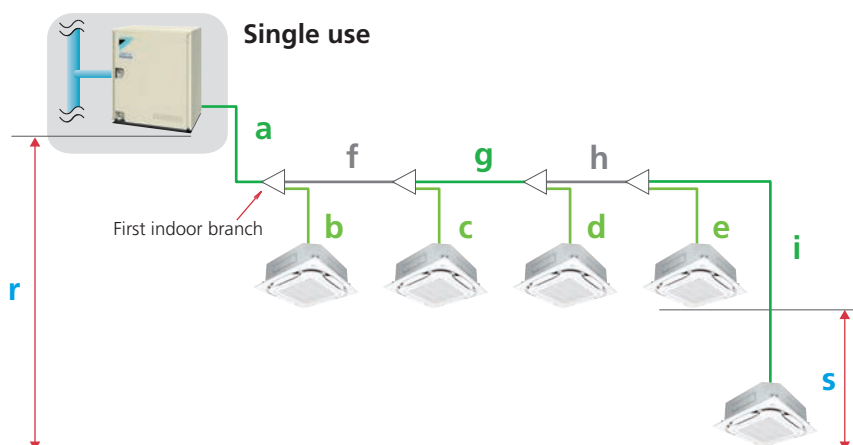
Max. 120 m

Equivalent piping length

Max. 140 m

Total piping length

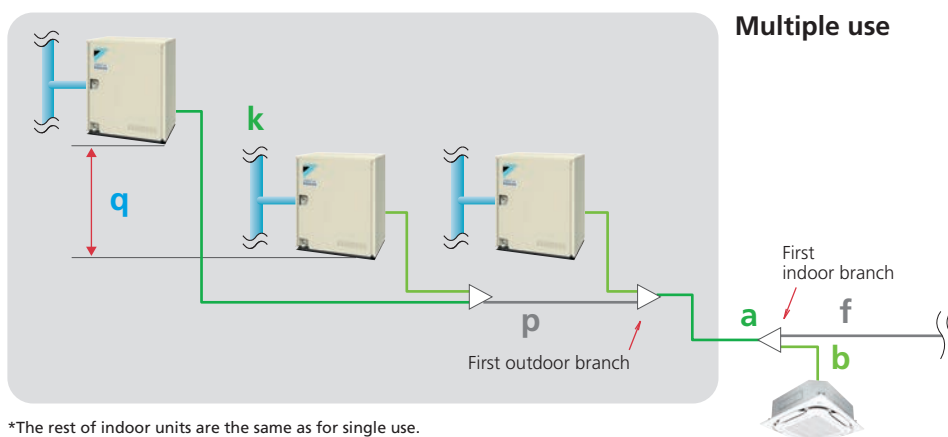
Max. 300 m



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

		Actual piping length	Example	Equivalent piping length
Maximum allowable piping length	Refrigerant piping length	120 m	$a+f+g+h+i$	140 m
	Total piping length	300 m	$a+b+c+d+e+f+g+h+i$	—
	Between the first indoor branch and the farthest indoor unit	$90\text{ m} \times 1$	$f+g+h+i$	—
	Between the first outside branch and the last outside unit	10 m	$k+p$	13 m
Maximum allowable height difference	Between the outdoor units (multiple use)	2 m	q	—
	Between the indoor units	15 m	s	—
	Between the outdoor units and the indoor units	If the outdoor unit is above. 50 m	r	—
		If the outdoor unit is below. 40 m	r	—

*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.

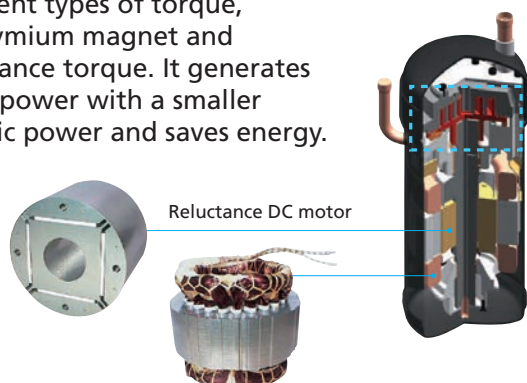


Advanced Technologies

VRV IV W Series

High efficiency compressor to achieve a high performance

The reluctance DC motor uses 2 different types of torque, neodymium magnet and reluctance torque. It generates more power with a smaller electric power and saves energy.

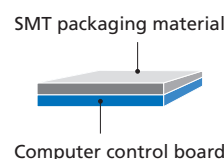
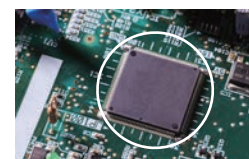


SMT* packaging technology

- Improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.

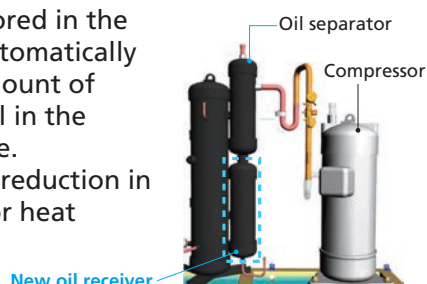
*SMT: Surface mounted technology

Computer control board surface adopting SMT packaging technology



Minimize performance degradation from refrigeration oil in all stages of operation

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



Function of information display by luminous digital tube

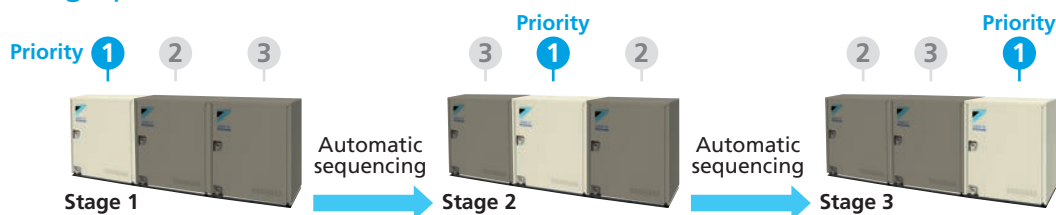
VRV IV W series utilises a bright 7-segment digital display to convey operational status and facilitate simple installation and after-sales service.

7-segment digital display

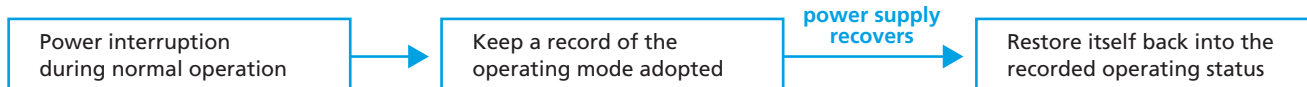


Displays system operation information directly

Automatic sequencing operation



Auto-restart technology



Refrigerant pressure detection technology

- Utilizes temperature sensors to detect the system's operating status.
- Employs high and low pressure sensors to carry out quick, comprehensive and accurate detection of the refrigerant status.

Outside Unit Lineup

VRV IV W Series

Lineup

Capacity Range	HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
	kW	16.0	22.4	28.0	33.5	38.4	44.8	50.4	56.0	61.5	67.0	72.8	78.4	84.0	89.5	95.0	101
VRV IV W SERIES		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Outside unit combinations

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.

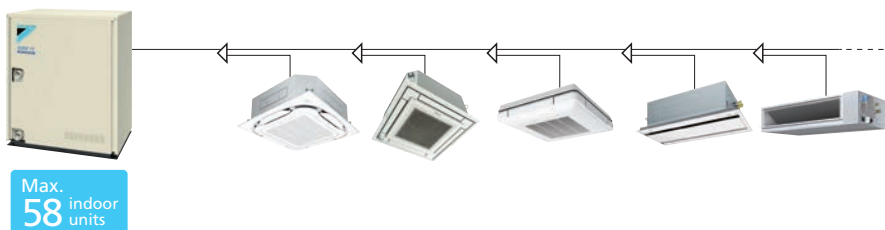
Indoor Unit Lineup

VRV IV W Series

Enhanced range of choices

New lineup

Category	Type	Model Name	Capacity Range	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	500
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM			●	●	●	●	●		●	●	●	●				
	Round Flow Cassette with Streamer	FXFRQ-AVM			●	●	●	●	●		●	●	●	●				
	Round Flow Cassette	FXFQ-AVM			●	●	●	●	●		●	●	●	●				
	Compact Multi Flow Cassette	FXZQ-BVM		●	●	●	●	●										
	Double Flow Cassette	FXCQ-BVM		●	●	●	●	●	●		●		●					
	Single Flow Cassette	FXEQ-AV36		●	●	●	●	●	●									
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM		●	●	●	●	●	●									
	Bedroom Duct	FXDBQ-AVM					●	●	●		●							
	Slim Duct (Standard)	FXDQ-PDVE		●	●	●												
		FXDQ-NDVE					●	●	●									
	Slim Duct (Compact)	FXDQ-SPV1		●	●	●	●	●	●									
	Middle Static Pressure Duct	FXSQ-PAVE		●	●	●	●	●	●		●	●	●	●				
	Middle-High Static Pressure Duct	FXMQ-PAVE		●	●	●	●	●	●		●	●	●	●				
	High Static Pressure Duct	FXMQ-PVM													●	●		
	Outdoor-Air Processing Unit	FXMQ-MFV1											●		●	●		
		FXMQ-AFVM										●			●	●	●	
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●						
	Ceiling Suspended	FXHQ-MAVE				●			●			●						
		FXHQ-BVM												●	●			
New	Wall Mounted	FXAQ-BVM		●	●	●	●	●	●	●	●	●						
Floor Standing	Floor Standing	FXLQ-MAVE		●	●	●	●	●	●									
	Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●									
	Floor Standing Duct	FXVQ-NY1											●		●	●	●	●
		FXVQ-NY16 (high static pressure type)																●
Heat Reclaim Ventilator with DX-Coil		VKM-GCVE		Airflow rate 500-950 m³/h														
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h														
Air Handling Unit		AHUR		6–120 HP														



Outside Units

VRV IV W Series

Specifications

							
MODEL			RWEYQ6TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ12TYM	
Combination units			—	—	—	—	
			—	—	—	—	
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				
Cooling capacity		Btu/h	54,600	76,400	95,500	114,000	
		kW	16.0	22.4	28.0	33.5	
Heating capacity		Btu/h	61,400	85,300	107,000	128,000	
		kW	18.0	25.0	31.5	37.5	
Power consumption	Cooling	kW	2.58	3.86	5.43	7.33	
	Heating	kW	2.69	3.98	5.60	7.87	
Casing colour			Ivory white (5Y7.5/1)				
Dimensions (H × W × D)		mm	1,000 × 780 × 550				
Compressor	Type		Hermetically sealed scroll type				
	Motor output	kW	1.9	2.8	3.7	4.7	
Refrigerant piping connections	Liquid	mm	φ 9.5 (Flare)				
	Suction gas *1		φ 19.1 (Brazing)		φ 22.2 (Brazing)		
	High and low pressure gas		φ 15.9*2, φ 19.1*3 (Brazing)		φ 19.1*2, φ 22.2*3 (Brazing)		
Water piping connections	Water inlet		PT1 1/4B internal thread				
	Water outlet		PT1 1/4B internal thread				
	Drain outlet		PS1/2B internal thread				
Machine weight (Operating weight)		kg	146 (148)		147 (149)		
Sound level		dB(A)	49	50	51	53	
Operation range (Inlet water temp.)		°C	10 to 45				
Capacity control		%	23-100		19-100		
Refrigerant	Type		R-410A				
	Charge	kg	3.5		4.2		

						
MODEL			RWEYQ26TYM	RWEYQ28TYM	RWEYQ30TYM	
Combination units			RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	
			RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	
			RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM	
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz			
Cooling capacity		Btu/h	248,000	268,000	287,000	
		kW	72.8	78.4	84.0	
Heating capacity		Btu/h	278,000	300,000	322,000	
		kW	81.5	88.0	94.5	
Power consumption	Cooling	kW	13.2	14.7	16.3	
	Heating	kW	13.6	15.2	16.8	
Casing colour			Ivory white (5Y7.5/1)			
Dimensions (H × W × D)		mm	(1,000 × 780 × 550) × 3			
Compressor	Type		Hermetically sealed scroll type			
	Motor output	kW	2.8 × 2 + 3.7	2.8 + 3.7 × 2	3.7 × 3	
Refrigerant piping connections	Liquid	mm	φ 19.1 (Flare)			
	Suction gas *1		φ 34.9 (Brazing)			
	High and low pressure gas		φ 28.6*2, φ 34.9*3 (Brazing)			
Water piping connections	Water inlet		(PT1 1/4B) × 3 internal thread			
	Water outlet		(PT1 1/4B) × 3 internal thread			
	Drain outlet		(PS1/2B) × 3 internal thread			
Machine weight (Operating weight)		kg	146 × 2 + 147 (148 × 2 + 149)	146 + 147 × 2 (148 + 149 × 2)	147 × 3 (149 × 3)	
Sound level		dB(A)	55	56		
Operation range (Inlet water temp.)		°C	10 to 45			
Capacity control		%	21-100	20-100	19-100	
Refrigerant	Type		R-410A			
	Charge	kg	3.5 + 3.5 + 4.2	3.5 + 4.2 + 4.2	4.2 + 4.2 + 4.2	

Heat Pump



	RWEYQ14TYM	RWEYQ16TYM	RWEYQ18TYM	RWEYQ20TYM	RWEYQ22TYM	RWEYQ24TYM
	RWEYQ6TYM	RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM
	RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM
	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
	131,000	153,000	172,000	191,000	210,000	229,000
	38.4	44.8	50.4	56.0	61.5	67.0
	147,000	171,000	193,000	215,000	235,000	256,000
	43.0	50.0	56.5	63.0	69.0	75.0
	6.44	7.72	9.29	10.9	12.8	14.7
	6.67	7.96	9.58	11.2	13.5	15.7
	Ivory white (5Y7.5/1)					
	(1,000 × 780 × 550) × 2					
	Hermetically sealed scroll type					
	1.9 + 2.8	2.8 × 2	2.8 + 3.7	3.7 × 2	3.7 + 4.7	4.7 × 2
	ϕ 12.7 (Flare)		ϕ 15.9 (Flare)		ϕ 19.1 (Flare)	
	ϕ 28.6 (Brazing)					
	ϕ 22.2*2, ϕ 28.6*3 (Brazing)					
	(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)		
	53		54		55	56
	10 to 45					
	23-100		20-100	19-100		
	R-410A					
	3.5 + 3.5		3.5 + 4.2		4.2 + 4.2	



	RWEYQ32TYM	RWEYQ34TYM	RWEYQ36TYM
	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM
	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM
	RWEYQ12TYM	RWEYQ12TYM	RWEYQ12TYM
	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz		
	305,000	324,000	345,000
	89.5	95.0	101
	345,000	365,000	386,000
	101	107	113
	18.2	20.1	22.0
	19.1	21.3	23.6
	Ivory white (5Y7.5/1)		
	(1,000 × 780 × 550) × 3		
	Hermetically sealed scroll type		
	3.7 × 2 + 4.7	3.7 + 4.7 × 2	4.7 × 3
	ϕ 19.1 (Flare)		
	ϕ 34.9 (Brazing)		
	ϕ 28.6*2, ϕ 34.9*3 (Brazing)		
	(PT1 1/4B) × 3 internal thread		
	(PT1 1/4B) × 3 internal thread		
	(PS1/2B) × 3 internal thread		
	147 × 3 (149 × 3)		
	57	58	
	10 to 45		
	19-100		
	R-410A		
	4.2 + 4.2 + 4.2		

Notes:

1. Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB / inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB / inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

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

3. Hold ambient temperature at 0 – 40°C and humidity at 80%RH or less. Heat rejection from the casing: 0.51 kW / 6 - 8 HP / hour, 0.58 kW / 10 - 12 HP / hour.

4. Connectable to closed type cooling tower only.
*1: In the case of heat pump system, suction gas pipe is not used.

*2: In the case of heat recovery system.

*3: In the case of heat pump system.

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

VRV IV HEAT RECOVERY HOT WATER SYSTEM

**Comfortable Air Conditioning and
Energy-efficient Hot Water Heating**

Cooling Only
6 HP—60 HP
(16 kW) (168 kW)

High-COP Type

Double outdoor units
RWHQ12-16THYM

Triple outdoor units
RWHQ18-50THYM



Standard Type

Single outdoor units
RWHQ6-16TYM

Double outdoor units
RWHQ18-32TNYM

Triple outdoor units
RWHQ34-60TNYM

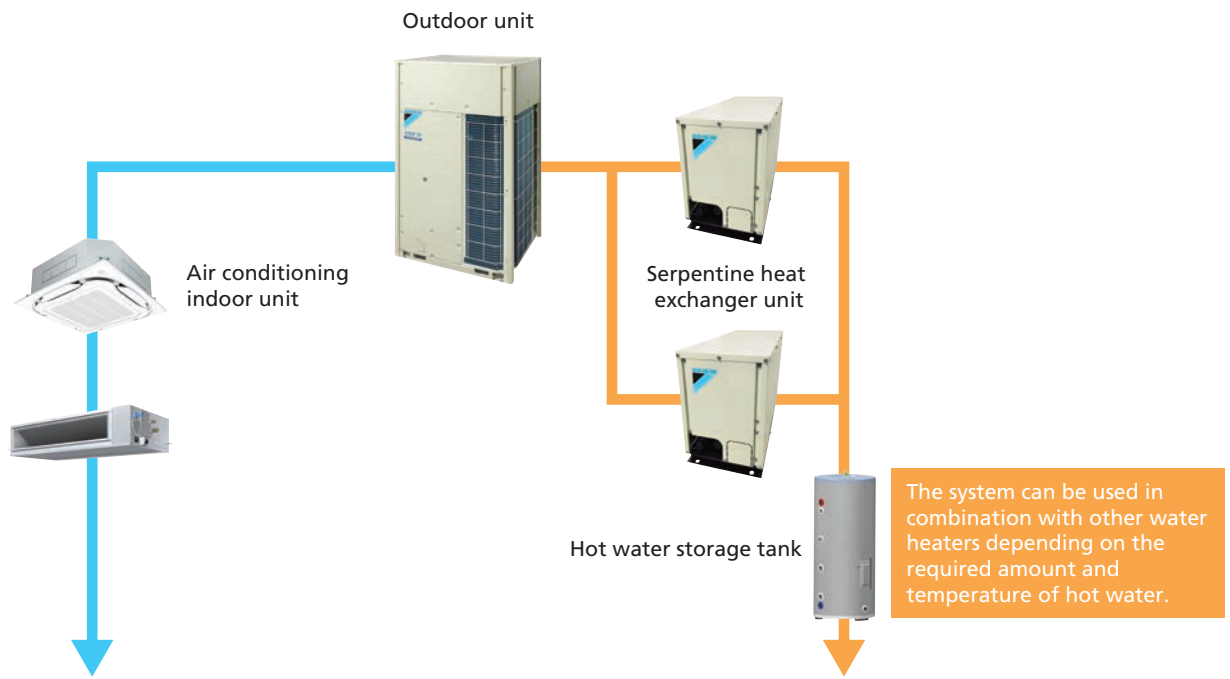
Space Saving Type

Single outdoor units
RWHQ18-20TYM

Double outdoor units
RWHQ22-40TSYM

Triple outdoor units
RWHQ42-50TSYM

Air conditioning combined with hot water supply – Compact system



Flexible combination of VRV IV indoor units achieves comfort and aesthetic

AIR CONDITIONING



Extremely energy-efficient energy source

HOT WATER SUPPLY



Energy to supply hot water – Cost-effective
Hot water temperature – Up to 65 °C

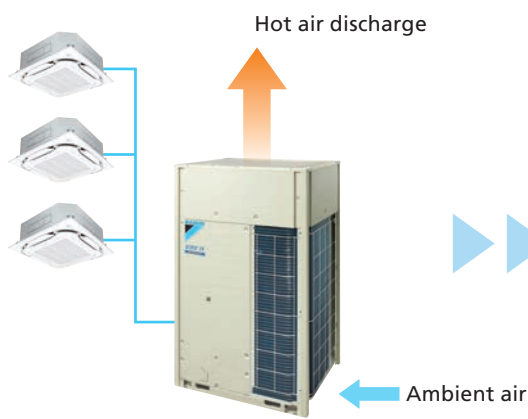
Can be used in combination with other water heaters depending on the required amount and temperature of hot water.

Innovative and Reliable System

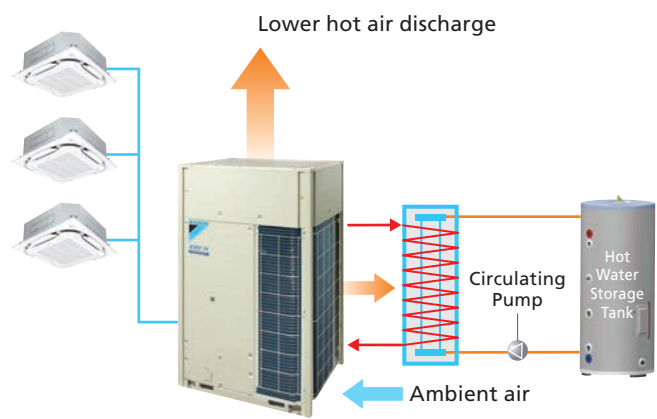
The energy-efficient system recovers waste heat as energy to heat water

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

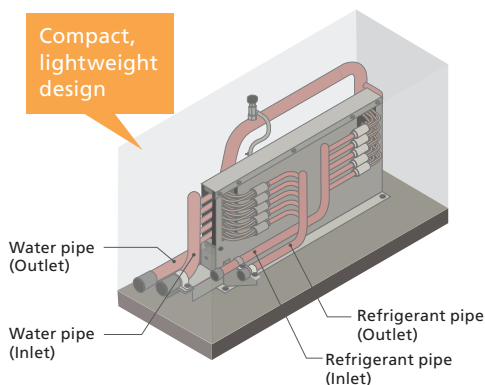
In a conventional system, waste heat from air conditioning is released into the ambience.



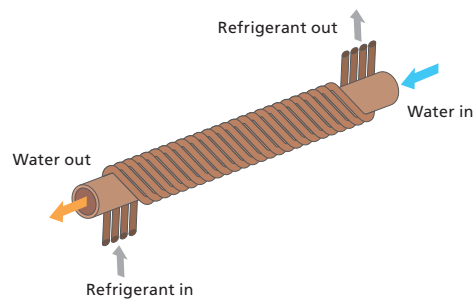
This system recovers waste heat from air conditioning to heat water.



The serpentine heat exchanger unit recovers heat



The proprietary Serpentine Heat Exchanger achieves excellent heat exchange efficiency.



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



Refrigerant leakage does not contaminate water.

Increased energy efficiency of the outdoor unit

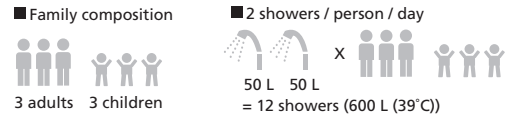
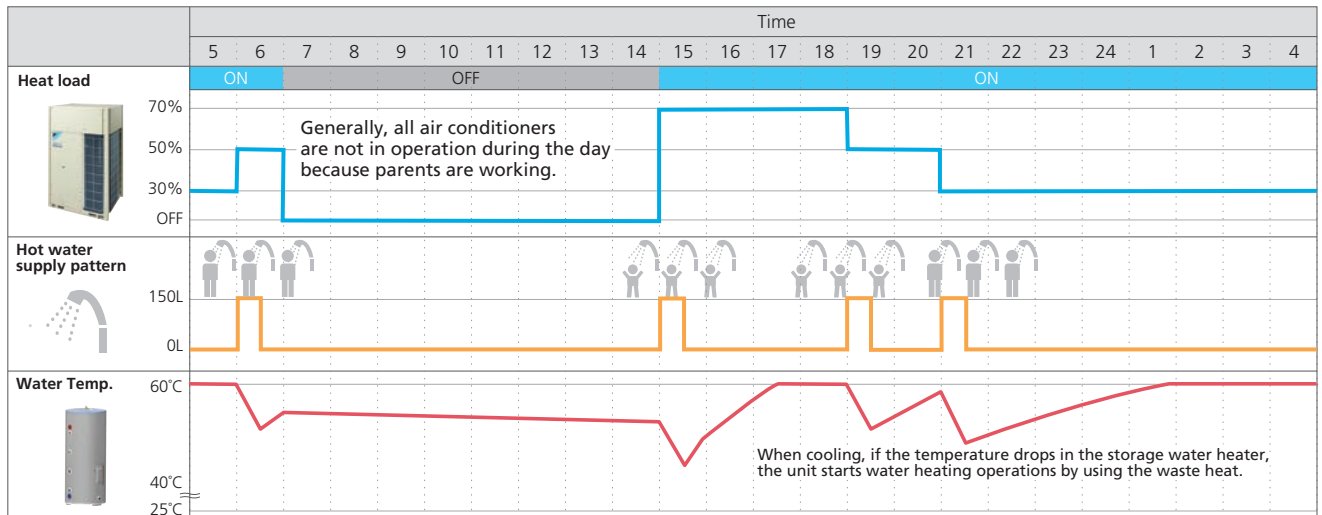
The waste heat from air conditioning is transferred to heat water. This mechanism reduces the amount of heat processed by the outdoor unit, resulting in better operation efficiency. The EER for **VRV IV Heat Recovery Hot Water** has increased from 4.41 to 4.50, compared with the conventional **VRV IV**.

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.

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

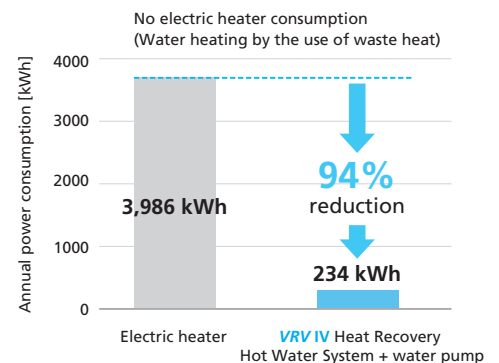
Boiling temperature: 25°C to 60°C (tap water)

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

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 disables 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.



BRCS82

Indoor Unit Lineup

Enhanced range of choices

 New lineup

Category	Type	Model Name		Capacity Range															
				0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP	
				Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	500
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM			●	●	●	●	●			●	●	●	●				
	Round Flow Cassette with Streamer	FXFRQ-AVM			●	●	●	●	●			●	●	●	●				
	Round Flow Cassette	FXFQ-AVM			●	●	●	●	●			●	●	●	●				
	Compact Multi Flow Cassette	FXZQ-BVM		●	●	●	●	●											
	Double Flow Cassette	FXCQ-BVM		●	●	●	●	●	●			●		●					
	Single Flow Cassette	FXEQ-AV36		●	●	●	●	●	●										
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM		●	●	●	●	●	●										
	Bedroom Duct	FXDBQ-AVM					●	●	●			●							
	Slim Duct (Standard)	FXDQ-PDVE		●	●	●													
		FXDQ-NDVE					●	●	●										
	Slim Duct (Compact)	FXDQ-SPV1		●	●	●	●	●	●										
	Middle Static Pressure Duct	FXSQ-PAVE		●	●	●	●	●	●			●	●	●	●				
	Middle-High Static Pressure Duct	FXMQ-PAVE		●	●	●	●	●	●			●	●	●	●				
	High Static Pressure Duct	FXMQ-PVM														●	●		
	Outdoor-Air Processing Unit	FXMQ-MFV1												●		●	●		
		FXMQ-AFVM											●			●	●	●	
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●			●						
	Ceiling Suspended	FXHQ-MAVE				●				●			●						
		FXHQ-BVM												●	●				
New	Wall Mounted	FXAQ-BVM		●	●	●	●	●	●	●	●	●	●						
Floor Standing	Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
	Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●										
	Floor Standing Duct	FXVQ-NY1												●		●	●	●	●
		FXVQ-NY16 (high static pressure type)																	●
Clean Room Air Conditioner		FXBQ-PVE					●	●	●										
		FXBPQ-PVE							●										
Heat Reclaim Ventilator with DX-Coil		VKM-GCVE		Airflow rate 500-950 m³/h															
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h															
Air Handling Unit		AHUR		6-120 HP															



Outdoor Units

VRV IV Heat Recovery Hot Water System

Specifications

High-COP Type

										
MODEL			RWHQ12THYM	RWHQ14THYM	RWHQ16THYM	RWHQ18THYM	RWHQ20THYM	RWHQ22THYM	RWHQ24THYM	
Combination units			RWHQ6TYM	RWHQ6TYM	RWHQ8TYM	RWHQ6TYM	RWHQ6TYM	RWHQ6TYM	RWHQ8TYM	
			RWHQ6TYM	RWHQ8TYM	RWHQ8TYM	RWHQ6TYM	RWHQ6TYM	RWHQ8TYM	RWHQ8TYM	
			—	—	—	RWHQ6TYM	RWHQ8TYM	RWHQ8TYM	RWHQ8TYM	
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
Cooling capacity	Btu/h		109,000	131,000	153,000	164,000	186,000	207,000	229,000	
	kW		32.0	38.4	44.8	48.0	54.4	60.8	67.2	
Power consumption	kW		7.10	8.68	10.3	10.7	12.2	13.8	15.4	
Capacity control	%		10-100			7-100				
Casing colour			Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically Sealed Scroll Type							
	Motor output	kW	(2.4x1)+ (2.4x1)	(2.4x1)+ (3.4x1)	(3.4x1)+ (3.4x1)	(2.4x1)+(2.4x1)+ (2.4x1)	(2.4x1)+(2.4x1)+ (3.4x1)	(2.4x1)+(3.4x1)+ (3.4x1)	(3.4x1)+(3.4x1)+ (3.4x1)	
Airflow rate		m³/min	119+119	119+157	157+157	119+119+119	119+119+157	119+157+157	157+157+157	
Dimensions (HxWxD)		mm	(1,657x930x765)+(1,657x930x765)			(1,657x930x765)+(1,657x930x765)+(1,657x930x765)				
Machine weight		kg	185+185			185+185+185				
Sound level		dB(A)	58	59		60			61	
Operation range		°CDB	15 to 49							
Refrigerant	Type		R-410A							
	Charge	kg	6.4+6.4			6.4+6.4+6.4				
Piping connections (Indoor unit)	Liquid	mm	φ 12.7(Brazing)			φ 15.9(Brazing)				
	Gas	mm				φ 28.6(Brazing)			φ 34.9(Brazing)	
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(Brazing x 2)			φ 19.1(Brazing x 3)				
	Outlet pipe	mm	φ 19.1(Brazing x 2)			φ 19.1(Brazing x 3)				

							
MODEL			RWHQ42THYM	RWHQ44THYM	RWHQ46THYM	RWHQ48THYM	RWHQ50THYM
Combination units			RWHQ14TYM	RWHQ14TYM	RWHQ14TYM	RWHQ16TYM	RWHQ16TYM
			RWHQ14TYM	RWHQ14TYM	RWHQ16TYM	RWHQ16TYM	RWHQ16TYM
			RWHQ14TYM	RWHQ16TYM	RWHQ16TYM	RWHQ16TYM	RWHQ18TYM
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz				
Cooling capacity	Btu/h		409,000	427,000	444,000	461,000	478,000
	kW		120	125	130	135	140
Power consumption	kW		32.4	34.5	36.6	38.7	41.1
Capacity control	%		4-100	3-100			
Casing colour			Ivory white (5Y7.5/1)				
Compressor	Type		Hermetically Sealed Scroll Type				
	Motor output	kW	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)	(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)
Airflow rate		m³/min	233+233+233				
Dimensions (HxWxD)		mm	(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)				
Machine weight		kg	285+285+285				
Sound level		dB(A)	65			66	
Operation range		°CDB	15 to 49				
Refrigerant	Type		R-410A				
	Charge	kg	10.3+10.3+10.3	10.3+10.3+10.4	10.3+10.4+10.4	10.4+10.4+10.4	10.4+10.4+10.5
Piping connections (Indoor unit)	Liquid	mm	φ 19.1(Brazing)				
	Gas	mm	φ 41.3(Brazing)				
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(Brazing x 3)				
	Outlet pipe	mm	φ 19.1(Brazing x 3)				

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 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, 380-415 V/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		5-100			4-100		
	Ivory white (5Y7.5/1)							
	Hermetically Sealed Scroll Type							
	(3.4x1)+(3.4x1)+ (4.1x1)	(3.4x1)+(3.4x1)+ (5.2x1)	(3.4x1)+(4.1x1)+ (5.2x1)	(3.4x1)+(5.2x1)+ (5.2x1)	(3.4x1)+(5.2x1)+ (2.9x1)+(3.3x1)	(3.4x1)+(2.9x1)+(3.3x1)+ (2.9x1)+(3.3x1)	(5.2x1)+(5.2x1)+ (2.9x1)+(3.3x1)	(5.2x1)+(2.9x1)+(3.3x1)+ (2.9x1)+(3.3x1)
	157+157+165	157+157+178	157+165+178	157+178+178	157+178+233	157+233+233	178+178+233	178+233+233
	(1,657x930x765)+(1,657x930x765)+(1,657x930x765)				(1,657x930x765)+ (1,657x930x765)+ (1,657x1,240x765)	(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+200+200		185+200+285	185+285+285	200+200+285	200+285+285
	61	62		63		64		
	15 to 49							
	R-410A							
	6.4+6.4+6.5	6.4+6.4+6.8	6.4+6.5+6.8	6.4+6.8+6.8	6.4+6.8+10.3	6.4+10.3+10.3	6.8+6.8+10.3	6.8+10.3+10.3
	φ 19.1(Brazing)							
	φ 34.9(Brazing)					φ 41.3(Brazing)		
	φ 19.1(Brazing x 3)							
	φ 19.1(Brazing x 3)							

Standard Type

MODEL			RWHQ6TYM	RWHQ8TYM	RWHQ10TYM	RWHQ12TYM	RWHQ14TYM	RWHQ16TYM
Combination units			—	—	—	—	—	—
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
Cooling capacity	Btu/h	54,600	76,400	95,500	114,000	136,000	154,000	
	kW	16.0	22.4	28.0	33.5	40.0	45.0	
Power consumption	kW	3.55	5.13	7.22	8.93	10.8	12.9	
Capacity control	%	20-100		16-100	15-100	11-100	10-100	
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll Type					
	Motor output	kW	2.4x1	3.4x1	4.1x1	5.2x1	(2.9x1)+(3.3x1)	(3.6x1)+(3.7x1)
Airflow rate	m³/min		119	157	165	178	233	
Dimensions (HxWxD)	mm		1,657x930x765				1,657x1,240x765	
Machine weight	kg		185		200		285	
Sound level	dB(A)		55	56	57	59	60	61
Operation range	°CDB		15 to 49					
Refrigerant	Type		R-410A					
	Charge	kg	6.4		6.5	6.8	10.3	10.4
Piping connections (Indoor unit)	Liquid	mm	φ 9.5(Brazing)			φ 12.7(Brazing)		
	Gas	mm	φ 19.1(Brazing)		φ 22.2(Brazing)	φ 28.6(Brazing)		
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(Brazing)					
	Outlet pipe	mm	φ 19.1(Brazing)					

•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.

Outdoor Units

VRV IV Heat Recovery Hot Water System

Specifications

Standard Type

											
MODEL			RWHQ18TNYM	RWHQ20TNYM	RWHQ22TNYM	RWHQ24TNYM	RWHQ26TNYM	RWHQ28TNYM	RWHQ30TNYM		
Combination units			RWHQ8TYM	RWHQ8TYM	RWHQ8TYM	RWHQ10TYM	RWHQ12TYM	RWHQ14TYM	RWHQ14TYM		
			RWHQ10TYM	RWHQ12TYM	RWHQ14TYM	RWHQ14TYM	RWHQ14TYM	RWHQ14TYM	RWHQ16TYM		
			—	—	—	—	—	—	—		
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz								
Cooling capacity	Btu/h		172,000	191,000	213,000	232,000	251,000	273,000	290,000		
	kW		50.4	55.9	62.4	68.0	73.5	80.0	85.0		
Power consumption	kW		12.4	14.1	15.9	18.0	19.7	21.6	23.7		
Capacity control	%		8-100		7-100	6-100		5-100			
Casing colour			Ivory white (5Y7.5/1)								
Compressor	Type		Hermetically Sealed Scroll Type								
	Motor output	kW	(3.4x1)+ (4.1x1)	(3.4x1)+ (5.2x1)	(3.4x1)+(2.9x1)+ (3.3x1)	(4.1x1)+(2.9x1)+ (3.3x1)	(5.2x1)+(2.9x1)+ (3.3x1)	(2.9x1)+(3.3x1)+ (2.9x1)+(3.3x1)	(2.9x1)+(3.3x1)+ (3.6x1)+(3.7x1)		
Airflow rate		m³/min	157+165	157+178	157+233	165+233	178+233	233+233			
Dimensions (HxWxD)		mm	(1,657x930x765)+ (1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)			(1,657x1,240x765)+ (1,657x1,240x765)			
Machine weight		kg	185+200		185+285	200+285		285+285			
Sound level		dB(A)	60	61		62	63		64		
Operation range		°CDB	15 to 49								
Refrigerant	Type		R-410A								
	Charge	kg	6.4+6.5	6.4+6.8	6.4+10.3	6.5+10.3	6.8+10.3	10.3+10.3	10.3+10.4		
Piping connections (Indoor unit)	Liquid	mm	φ 15.9(Brazing)				φ 19.1(Brazing)				
	Gas	mm	φ 28.6(Brazing)				φ 34.9(Brazing)				
Piping connections (Heat exchanger unit)	Inlet pipe	mm					φ 19.1(Brazing x 2)				
	Outlet pipe	mm					φ 19.1(Brazing x 2)				

Standard Type

									
MODEL			RWHQ48TNYM	RWHQ50TNYM	RWHQ52TNYM	RWHQ54TNYM	RWHQ56TNYM	RWHQ58TNYM	RWHQ60TNYM
Combination units			RWHQ14TYM	RWHQ14TYM	RWHQ16TYM	RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ20TYM
			RWHQ16TYM	RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ20TYM	RWHQ20TYM
			RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ18TYM	RWHQ20TYM	RWHQ20TYM	RWHQ20TYM
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz						
Cooling capacity	Btu/h		461,000	478,000	495,000	512,000	532,000	553,000	573,000
	kW		135	140	145	150	156	162	168
Power consumption	kW		39.0	41.4	43.5	45.9	48.5	51.1	53.7
Capacity control	%		3-100						
Casing colour			Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically Sealed Scroll Type						
	Motor output	kW	(2.9x1)+(3.3x1)+(3.6x1)+ (3.7x1)+(4.4x1)+(4.0x1)	(2.9x1)+(3.3x1)+(4.4x1)+ (4.0x1)+(4.4x1)+(4.0x1)	(3.6x1)+(3.7x1)+(4.4x1)+ (4.0x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.4x1)+ (4.0x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.4x1)+ (4.0x1)+(4.4x1)+(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+268	233+268+268	268+268+268
Dimensions (HxWxD)	mm		(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)						
Machine weight	kg		285+285+285				285+285+320	285+320+320	320+320+320
Sound level	dB(A)		66			67	68	69	70
Operation range	°CDB		15 to 49						
Refrigerant	Type		R-410A						
	Charge	kg	10.3+10.4+10.5	10.3+10.5+10.5	10.4+10.5+10.5	10.5+10.5+10.5	10.5+10.5+11.8	10.5+11.8+11.8	11.8+11.8+11.8
Piping connections (Indoor unit)	Liquid	mm	ø 19.1(Brazing)						
	Gas	mm	ø 41.3(Brazing)						
Piping connections (Heat exchanger unit)	Inlet pipe	mm	ø 19.1(Brazing x 3)						
	Outlet pipe	mm	ø 19.1(Brazing x 3)						

Notes: Specifications are based on the following conditions;

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

								
	RWHQ32TNYM	RWHQ34TNYM	RWHQ36TNYM	RWHQ38TNYM	RWHQ40TNYM	RWHQ42TNYM	RWHQ44TNYM	RWHQ46TNYM
	RWHQ14TYM	RWHQ10TYM	RWHQ12TYM	RWHQ8TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ14TYM
	RWHQ18TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ14TYM	RWHQ16TYM	RWHQ14TYM
	—	RWHQ12TYM	RWHQ12TYM	RWHQ18TYM	RWHQ16TYM	RWHQ16TYM	RWHQ16TYM	RWHQ18TYM
	3-phase 4-wire system, 380-415 V/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			4-100				3-100
	Ivory white (5Y7.5/1)							
	Hermetically Sealed Scroll Type							
	(2.9x1)+(3.3x1)+(4.4x1)+(4.0x1)	(4.1x1)+(5.2x1)+(5.2x1)	(5.2x1)+(5.2x1)+(5.2x1)	(3.4x1)+(5.2x1)+(4.4x1)+(4.0x1)	(5.2x1)+(5.2x1)+(3.6x1)+(3.7x1)	(5.2x1)+(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)	(5.2x1)+(3.6x1)+(3.7x1)+(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		233+233+233
	(1,657x1,240x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)		(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)		(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)
	285+285	200+200+200		185+200+285	200+200+285	200+285+285		285+285+285
	64	63	64		65			66
	15 to 49							
	R-410A							
	10.3+10.5	6.5+6.8+6.8	6.8+6.8+6.8	6.4+6.8+10.5	6.8+6.8+10.4	6.8+10.3+10.4	6.8+10.4+10.4	10.3+10.3+10.5
	φ 19.1(Brazing)							
	φ 34.9(Brazing)		φ 41.3(Brazing)					
	φ 19.1(Brazing x 2)	φ 19.1(Brazing x 3)						
	φ 19.1(Brazing x 2)	φ 19.1(Brazing x 3)						

Space Saving Type

										
MODEL			RWHQ18TYM		RWHQ20TYM		RWHQ22TSYM		RWHQ24TSYM	
Combination units			—		—		RWHQ10TYM		RWHQ12TYM	
							RWHQ12TYM		RWHQ12TYM	
							—		—	
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz							
Cooling capacity		Btu/h	171,000		191,000		210,000		229,000	
		kW	50.0		56.0		61.5		67.0	
Power consumption		kW	15.3		17.9		16.2		17.9	
Capacity control		%	10-100		8-100					
Casing colour			Ivory white (5Y7.5/1)							
Compressor	Type		Hermetically Sealed Scroll Type							
	Motor output	kW	(4.4x1)+(4.0x1)		(4.6x1)+(5.5x1)		(4.1x1)+(5.2x1)		(5.2x1)+(5.2x1)	
Airflow rate		m³/min	233		268		165+178		178+178	
Dimensions (HxWxD)		mm	1,657x1,240x765				(1,657x930x765)+(1,657x930x765)			
Machine weight		kg	285		320		200+200			
Sound level		dB(A)	62		65		61		62	
Operation range		°CDB	15 to 49							
Refrigerant	Type		R-410A							
	Charge	kg	10.5		11.8		6.5+6.8		6.8+6.8	
Piping connections (Indoor unit)	Liquid	mm	φ 15.9(Brazing)							
	Gas	mm	φ 28.6(Brazing)						φ 34.9(Brazing)	
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(Brazing)				φ 19.1(Brazing x 2)			
	Outlet pipe	mm	φ 19.1(Brazing)				φ 19.1(Brazing x 2)			

• 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.

Outdoor Units

VRV IV Heat Recovery Hot Water System

Specifications

Space Saving Type

												
MODEL			RWHQ26TSYM	RWHQ28TSYM	RWHQ30TSYM	RWHQ32TSYM	RWHQ34TSYM	RWHQ36TSYM				
Combination units			RWHQ8TYM	RWHQ12TYM	RWHQ12TYM	RWHQ12TYM	RWHQ16TYM	RWHQ18TYM				
			RWHQ18TYM	RWHQ16TYM	RWHQ18TYM	RWHQ20TYM	RWHQ18TYM	RWHQ18TYM				
			—	—	—	—	—	—				
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz									
Cooling capacity		Btu/h	247,000	268,000	285,000	305,000	324,000	341,000				
		kW	72.4	78.5	83.5	89.5	95.0	100				
Power consumption		kW	20.4	21.8	24.2	26.8	28.2	30.6				
Capacity control		%	7-100	6-100			5-100					
Casing colour			Ivory white (5Y7.5/1)									
Compressor	Type		Hermetically Sealed Scroll Type									
	Motor output	kW	(3.4x1)+(4.4x1)+(4.0x1)	(5.2x1)+(3.6x1)+(3.7x1)	(5.2x1)+(4.4x1)+(4.0x1)	(5.2x1)+(4.6x1)+(5.5x1)	(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)				
Airflow rate		m³/min	157+233	178+233			178+268	233+233				
Dimensions (HxWxD)		mm	(1,657x930x765)+(1,657x1,240x765)					(1,657x1,240x765)+(1,657x1,240x765)				
Machine weight		kg	185+285	200+285			200+320	285+285				
Sound level		dB(A)	63			64	66	65				
Operation range		°CDB	15 to 49									
Refrigerant	Type		R-410A									
	Charge	kg	6.4+10.5	6.8+10.4	6.8+10.5	6.8+11.8	10.4+10.5	10.5+10.5				
Piping connections (Indoor unit)	Liquid	mm	φ 19.1(Brazing)									
	Gas	mm	φ 34.9(Brazing)						φ 41.3(Brazing)			
Piping connections (Heat exchanger unit)	Inlet pipe	mm	φ 19.1(Brazing x 2)									
	Outlet pipe	mm	φ 19.1(Brazing x 2)									

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height 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
	3-phase 4-wire system, 380-415 V/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						3-100
	Ivory white (5Y7.5/1)						
	Hermetically Sealed Scroll Type						
	(4.4x1)+(4.0x1)+ (4.6x1)+(5.5x1)	(4.6x1)+(5.5x1)+ (4.6x1)+(5.5x1)	(5.2x1)+(5.2x1)+ (4.4x1)+(4.0x1)	(5.2x1)+(5.2x1)+ (4.6x1)+(5.5x1)	(5.2x1)+(3.6x1)+(3.7x1)+ (4.4x1)+(4.0x1)	(5.2x1)+(4.4x1)+(4.0x1)+ (4.4x1)+(4.0x1)	(5.2x1)+(4.4x1)+(4.0x1)+ (4.6x1)+(5.5x1)
	233+268	268+268	178+178+233	178+178+268	178+233+233		178+233+268
	(1,657x1,240x765)+(1,657x1,240x765)		(1,657x930x765)+(1,657x930x765)+ (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+320
	67	68	65	67	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 41.3(Brazing)						
	φ 19.1(Brazing x 2)		φ 19.1(Brazing x 3)				
	φ 19.1(Brazing x 2)		φ 19.1(Brazing x 3)				

Outdoor Units

VRV IV Heat Recovery Hot Water System

Serpentine heat exchanger unit (HWHQ30A)



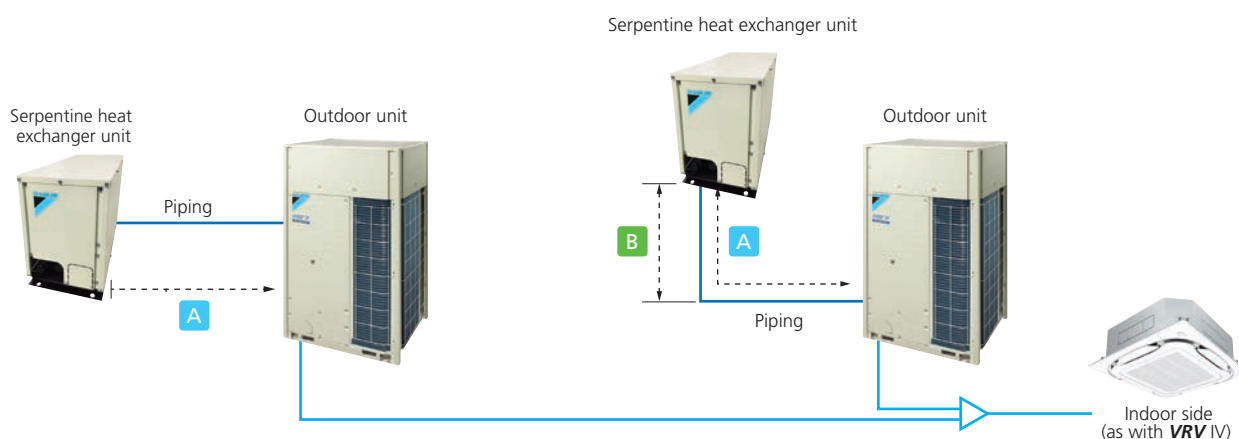
Model Name (RWHQ-TYM, HWHQ30A)		Single Heat Exchanger Unit							
		RWHQ6TYM +HWHQ30A	RWHQ8TYM +HWHQ30A	RWHQ10TYM +HWHQ30A	RWHQ12TYM +HWHQ30A	RWHQ14TYM +HWHQ30A	RWHQ16TYM +HWHQ30A	RWHQ18TYM +HWHQ30A	RWHQ20TYM +HWHQ30A
Rated inlet temperature	°C	40							
Rated water flow	L/min	10							
Range of inlet temperature	°C	20-65							
Range of water flow	L/min	5-20							
Rated Hot-water capacity *1	kW	3.2	3.3	3.3	3.5	3.7	4.0	4.2	4.4
Machine weight	kg	27							
Diameter of Refrigerant pipe (Gas)	mm	φ 19.1 (Braze)							
Diameter of Refrigerant pipe (Liquid)	mm	φ 19.1 (Braze)							
Diameter of water pipe (Inlet)	mm	φ 25.4 (Screw)							
Diameter of water pipe (Outlet)	mm	φ 25.4 (Screw)							
Piping length (max)	m	2 (5)							
Design pressure (Water side)	MPa	0.5							
Loss of Head *2	m	0.2							
Casing colour		Ivory white (5Y7.5/1)							
Dimensions (HxWxD)	mm	446 × 306 × 765							

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

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

*2: Water flow 10L/min.

Pipe length restriction of VRV IV Heat Recovery Hot Water System



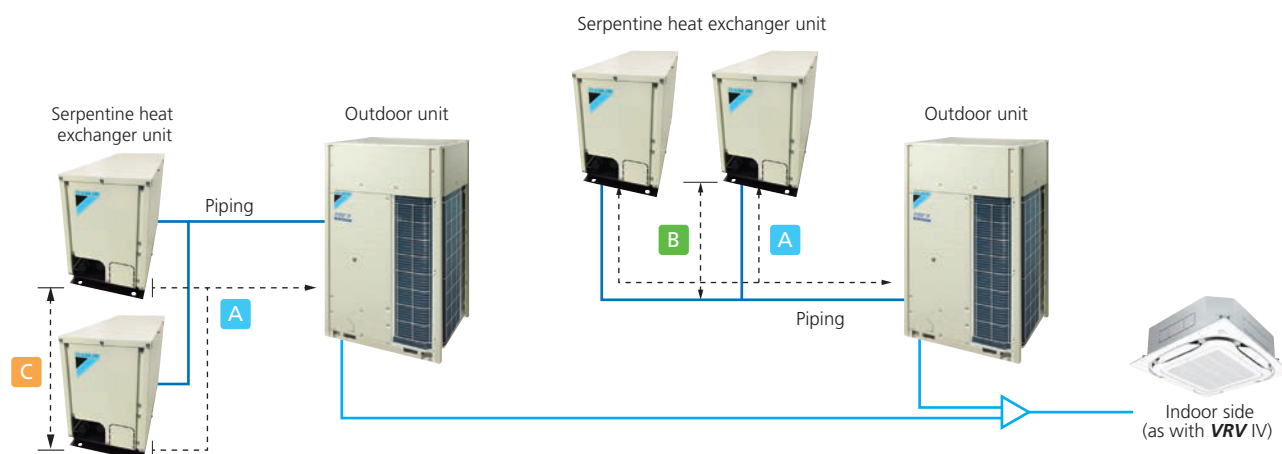
Max. allowable piping length	A Between outdoor unit and heat exchanger unit length	5 m
Max. allowable height difference	B Between outdoor unit and heat exchanger unit level	3 m



Model Name (RWHQ-TYM, HWHQ30A)		Double Heat Exchanger Unit							
		RWHQ6TYM +HWHQ30Ax2	RWHQ8TYM +HWHQ30Ax2	RWHQ10TYM +HWHQ30Ax2	RWHQ12TYM +HWHQ30Ax2	RWHQ14TYM +HWHQ30Ax2	RWHQ16TYM +HWHQ30Ax2	RWHQ18TYM +HWHQ30Ax2	RWHQ20TYM +HWHQ30Ax2
Rated inlet temperature	°C	40							
Rated water flow	L/min	20 (10 × 2)							
Range of inlet temperature	°C	20-65							
Range of water flow	L/min	10-40 (5-20 × 2)							
Rated Hot-water capacity *1	kW	5.4	5.6	5.6	5.9	6.2	6.8	7.1	7.4
Machine weight	kg	54 (27 × 2)							
Diameter of Refrigerant pipe (Gas)	mm	φ 19.1 (Braze) × 2							
Diameter of Refrigerant pipe (Liquid)	mm	φ 19.1 (Braze) × 2							
Diameter of water pipe (Inlet)	mm	φ 25.4 (Screw) × 2							
Diameter of water pipe (Outlet)	mm	φ 25.4 (Screw) × 2							
Piping length (max)	m	2 (5)							
Design pressure (Water side)	MPa	0.5							
Loss of Head *2	m	0.2							
Casing colour		Ivory white (5Y7.5/1)							
Dimensions (H×W×D)	mm	(446 × 306 × 765) + (446 × 306 × 765)							

Notes: It is necessary to satisfy the water standard of Daikin for the water that is used. In the case that the water standard is not satisfied, special measures are required.
Please contact your local sales office for details.
*1: [Cooling] Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Inlet water temperature 40°C, Water flow 10L/min, Indoor load 100%, Outdoor-Heat Exchanger Unit 2m.
*2: Water flow 10L/min.

Pipe length restriction of VRV IV Heat Recovery Hot Water System



Max. allowable piping length	A Between outdoor unit and heat exchanger unit length	5 m
Max. allowable height difference	B Between outdoor unit and heat exchanger unit level	3 m
Max. allowable height difference	C Between heat exchanger units	3 m

INDOOR UNIT LINEUP

Round Flow Cassette with Sensing and Streamer Type

Comfort, energy savings by sensing functions and enhanced maximum efficiency in cleaning

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FXFTQ-AVM
FXFSQ-CVM*

Round Flow Cassette with Streamer Type

360° airflow for improved comfort and enhanced maximum efficiency in cleaning

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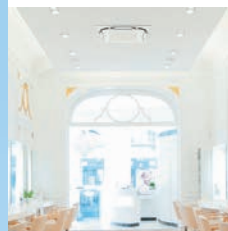


FXFRQ-AVM

Round Flow Cassette Type

360° airflow for improved comfort

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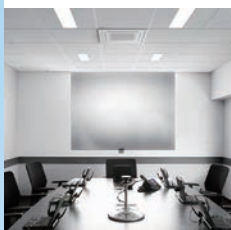
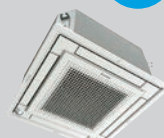


FXFQ-AVM

Compact Multi Flow Cassette Type

Quiet, compact, and designed for user comfort

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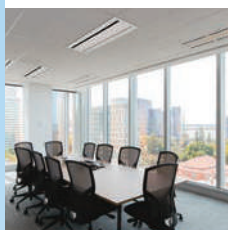


FXZQ-BVM

Double Flow Cassette Type

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

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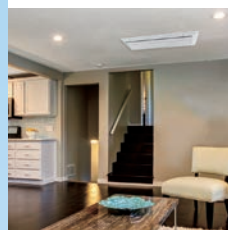


FXCQ-BVM

Single Flow Cassette Type

Slim design for flexible installation

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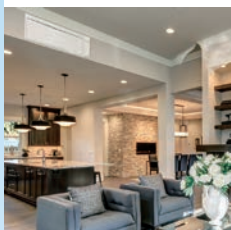


FXEQ-AV36

3D Airflow Duct with Sensing Type

3D airflow with sensing function for comfort and energy savings

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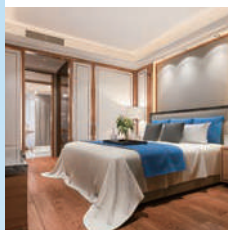
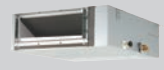


FXDSQ-AVM

Bedroom Duct Type

Suitable for close living spaces such as hotels and condominiums

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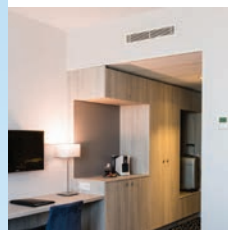


FXDBQ-AVM

Slim Duct (Standard) Type

Slim design, quietness and ideal for drop-ceilings

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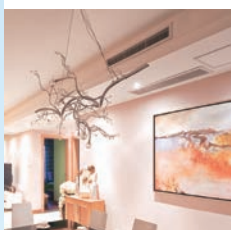
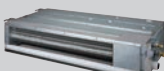
FXDQ-PDVE

FXDQ-NDVE

Slim Duct (Compact) Type

Slim and compact design for easy and flexible installation

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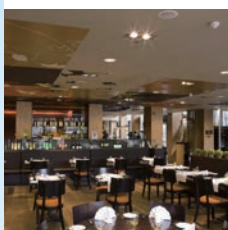


FXDQ-SPV1

Middle Static Pressure Duct Type

Middle static pressure and slim design allow flexible installations.

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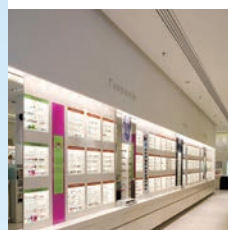
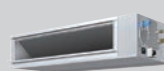


FXSQ-PAVE

Middle-High Static Pressure Duct Type

Middle and high static pressure allows for flexible duct design.

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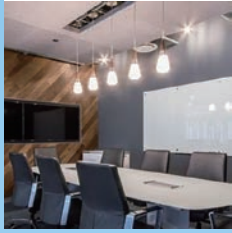
FXMQ-PAVE

* Streamer filter clean unit is not available for FXFSQ-CVM.

High Static Pressure Duct Type

High static pressure allows for flexible duct design.

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FXMQ-PVM

Outdoor-Air Processing Unit

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

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FXMQ-MFV1

Outdoor-Air Processing Unit

Improve IAQ with fresh air ventilation and precise room temperature control

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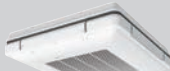


FXMQ-AFVM

4-Way Flow Ceiling Suspended Type

Slim and stylish design, optimum air distribution, installation without ceiling cavity

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FXUQ-AVEB

Ceiling Suspended Type

Slim body with quiet and wide airflow.

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FXHQ-MAVE



FXHQ-BVM

Wall Mounted Type

Slim and stylish flat panel design harmonised with your interior décor.

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New FXAQ-BVM

Floor Standing Type / Conceal Floor Standing Type

Suitable for perimeter zone air conditioning

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FXLQ-MAVE



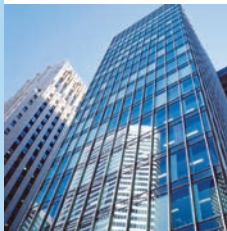
FXNQ-MAVE

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Floor Standing Duct Type

Large airflow type for large spaces.

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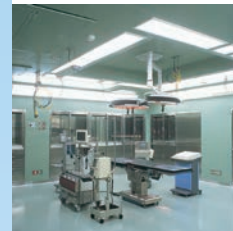


FXVQ-NY1
FXVQ-NY16
(high static pressure type)

Clean Room Air Conditioner

Suitable for hospitals and other clean spaces

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FXBQ-PVE
FXBPQ-PVE

Air Handling Unit

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

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AHUR

Air treatment equipment

Heat Reclaim Ventilator with DX-Coil

Air quality improvement by introducing fresh outdoor air in the room

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VKM-GCVE

Heat Reclaim Ventilator

Daikin VAM series ensures fresh air intake and energy savings

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VAM-HVE

Round Flow Cassette with Sensing and Streamer Type

FXFTQ-A FXFSQ-C*

Comfort, energy savings by sensing functions and enhanced maximum efficiency in cleaning

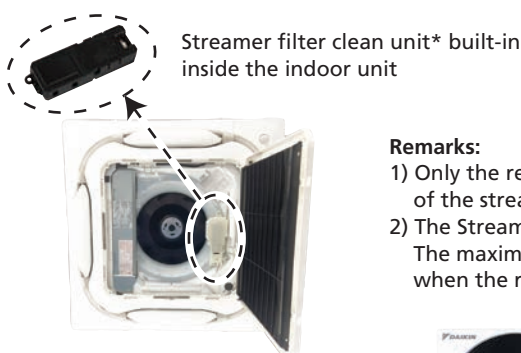


Introducing Streamer technology to VRV Indoor unit

Daikin Streamer Technology enhances maximum efficiency in cleaning, which uses powerful decomposition properties to decompose substances captured by filter for better air quality.



Streamer filter clean unit irradiates Streamer when the fan and air conditioning operation are stopped. Streamer fumigates the cabin and sterilizes the filter.



Remarks:

- 1) Only the remote controller BRC1H63W(K) can be connected for ON/OFF operation of the streamer.
- 2) The Streamer function operates only when the fan and air conditioning operation are stopped. The maximum operation of streamer is 180 minutes per day. (This function is available only when the remote controller BRC1H63W(K) is connected.)



Stylish Remote Controller
BRC1H63W/K



Streamer ON/OFF setting and status icon are available.

* Streamer filter clean unit is not available for FXFSQ-C.

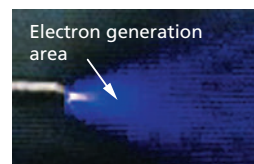


Streamer Technology

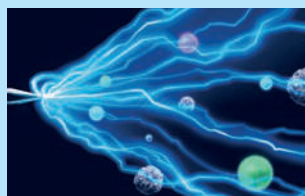
Streamer, a type of plasma discharge, decomposes hazardous chemical substances. The decomposition power is comparable to thermal energy of about 100,000°C.*1

Note: *1. Comparison of oxidation decomposition. This does not mean temperature will become high.

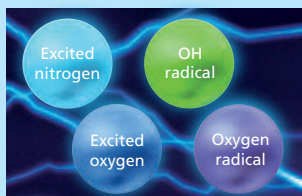
VRV Indoor Units



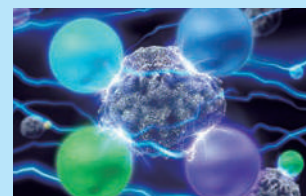
Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.



The electrons collide and combine with nitrogen and oxygen in the air to form four kinds of decomposing elements with decomposition power.

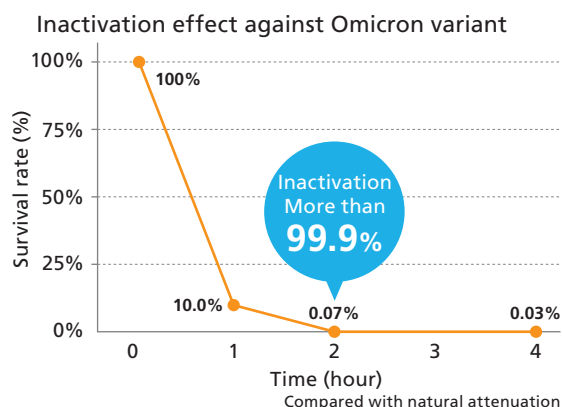


The decomposing elements provide decomposition power.

> 99.93% Inactivation of Omicron variant in 2 hours

■ Experimental Results

Irradiation with Streamer discharge for two hours inactivated 99.93%, and for four hours inactivated 99.97% of the Omicron variant of Coronavirus (SARS-CoV-2), when compared to without Streamer discharge.



■ Test Method

hCoV-19/Japan/ TY38-873/2021 strain (Omicron variant) was used. Two acrylic boxes of about 31L were placed in a safety cabinet in the BSL-3 facility, and Streamer discharge device was installed in one of the acrylic boxes. Seesaw shakers with a 6-well plate were placed in both boxes, and 0.5 mL of virus solution was placed in each well of the plate. Streamer irradiation was performed on one 6-well plate while stirring with a seesaw shaker. After 1, 2, and 4 hours, the virus solution was collected, and the virus titer was measured by the TCID50 method using Vero E6/TMPRSS2 cells.

DAIKIN Streamer Research Institute



■ Test Organization

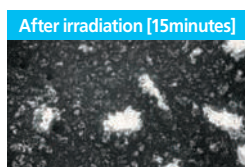
Professor Tatsuo Shioda, Department of Virus Infections, Research Institute for Microbial Diseases, Osaka University

*This result was obtained by using a Streamer discharge device for testing in lab conditions. The effect of products equipped with Streamer technology or results in actual use environments may differ.

> Streamer decomposes mould and mites (feces and carcasses) and suppresses the causes of allergies.

■ Demonstration of mould

Picture of mould



■ Test Method

"Moulds" were placed on the electrodes of a Streamer discharge unit where they were exposed to Streamer discharge for 15 minutes and photographed with an electron microscope.

■ Test Organization

Demonstration test was performed at Wakayama Medical University.

> Why Daikin Streamer?

Recognized as clean technology by public bodies

Winner of the 2005 Progress Award, Institute of Electrostatics Japan

Awarded for the development of a domestic air purifier which uses DC Streamer discharge.

105 Patents Acquired

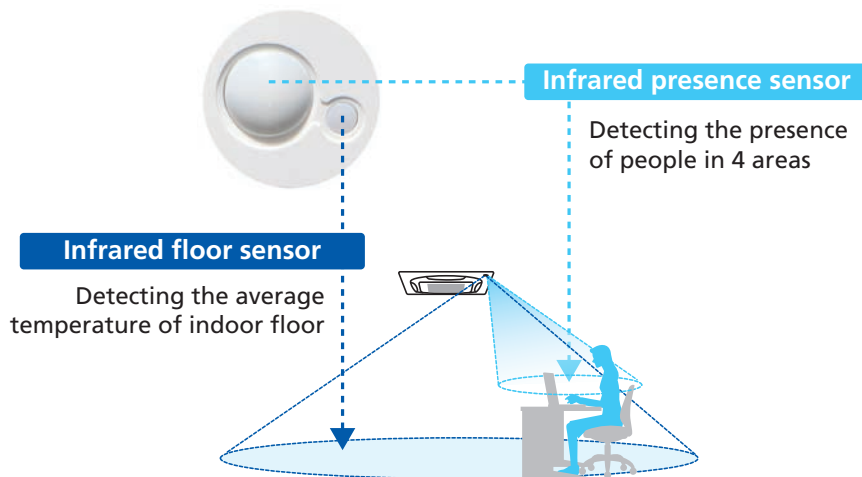
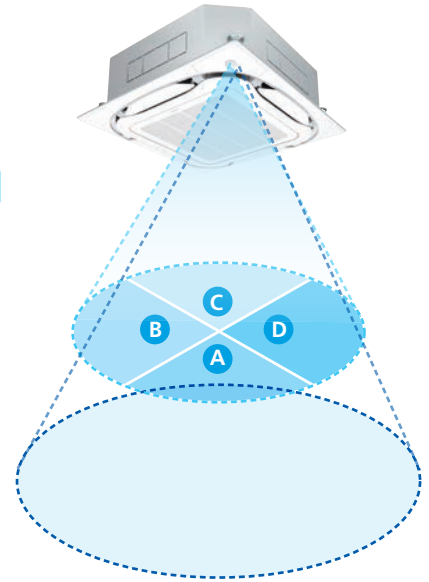
Patents acquired relating to Streamer technology

Round Flow Cassette with Sensing and Streamer Type

Daikin advanced sensing technology dual sensors

Round flow with sensing

Comfort and energy saving by sensing functions



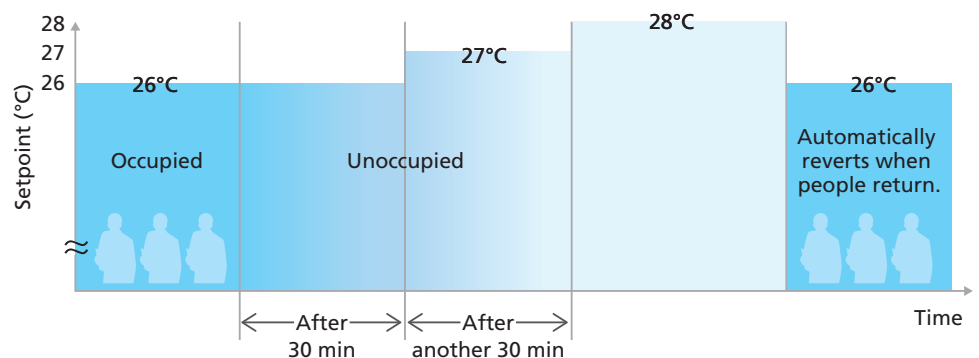
■ Sensing sensor mode Energy saving

Sensing sensor low mode (default: OFF)

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

Example

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



Sensing sensor stop mode (default: OFF)

Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

*Adjustment is possible for shift time and set temperature by local setting.

Individual airflow direction control

■ Comfortable air conditioning for all room layouts and conditions

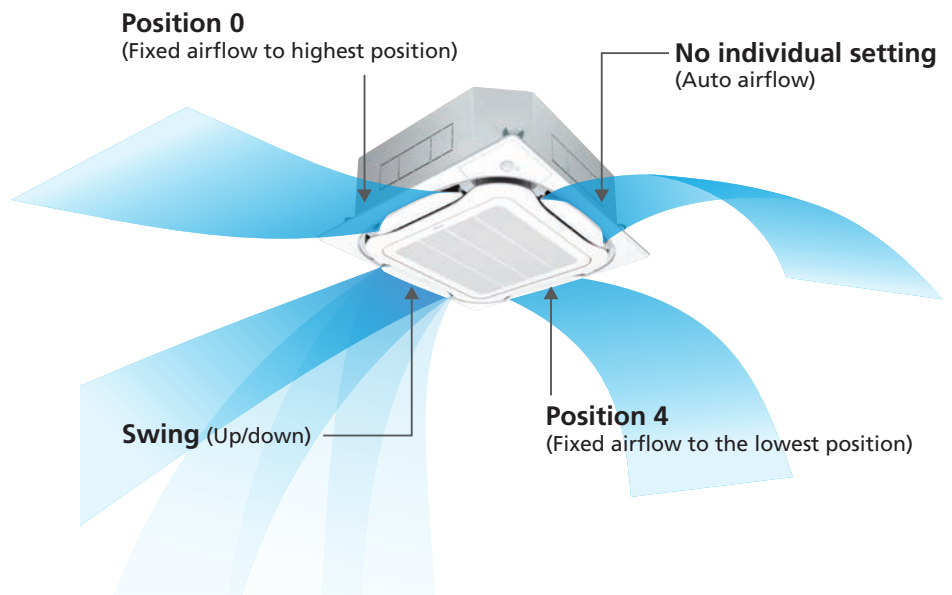
Easy setting is possible with a wired remote controller

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

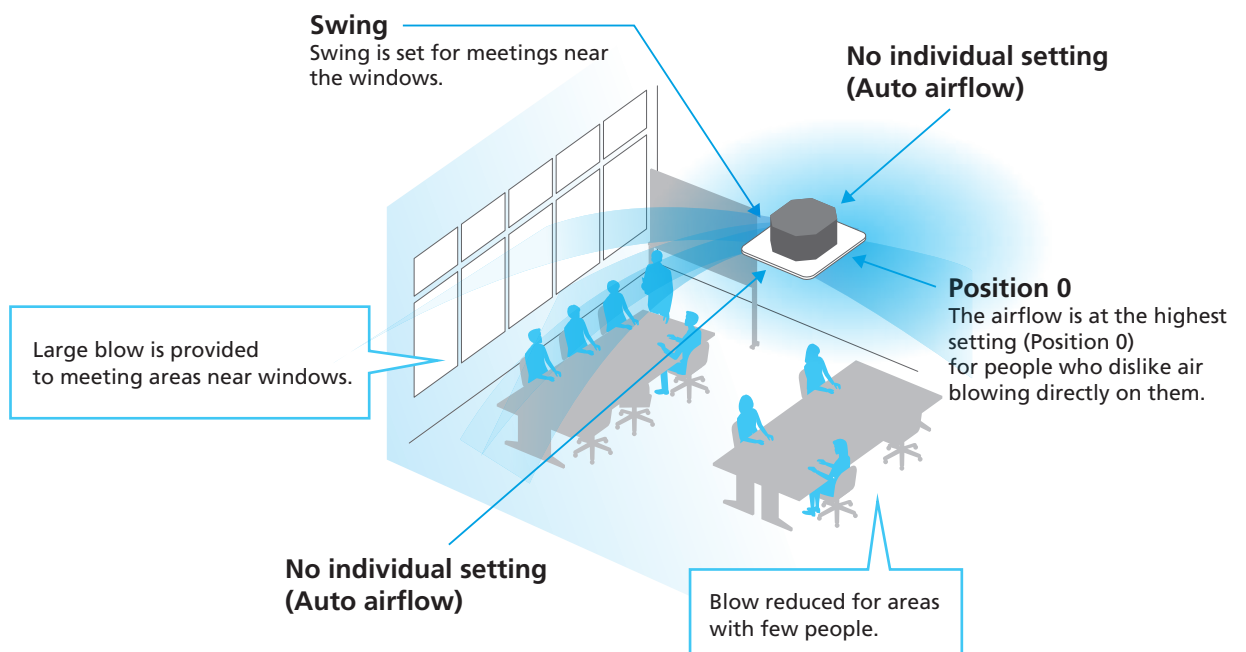
Individual airflow settings

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

Individual settings are possible as stated above.



Comfort is provided to the entire room by individual setting corresponding to 4-way flow conditions.



Round Flow Cassette with Sensing and Streamer Type

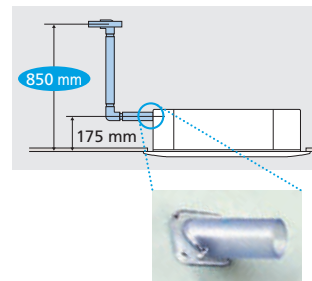
Other functions

■ Quick and easy installation

Installable in tight ceiling spaces

Min. of 261 mm* ceiling space when using standard panel.

* For FXFTQ25-80A models.



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

■ Easy maintenance

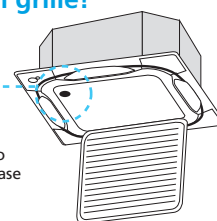
Drain pan and drain water check

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

Just open the suction grille!

Drain outlet
(with rubber plug)

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



■ Cleanliness

Silver ion anti-bacterial drain pan

Prevents the growth of slime, bacteria, and mould that cause odours and clogging.

* Drain pan should be changed once every two to three years.



Filter has anti-mould and antibacterial treatment

High Performance Prefilter (MERV 8) (Option) See page 296

This filter can catch more harmful substances in the air such as PM2.5.

BAF552A160



New

UV Streamer air purifier unit (Option for FXFSQ-C only) See page 5 - 6

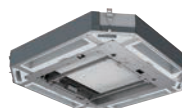
Adopts "deep ultraviolet (UVC) LED" which irradiates deep ultraviolet rays with a wavelengths of around 265 nm that have a high sterilizing effect.



Antibacterial /
Antiviral filter
MERV 13 rating



Promotion
Movie



BAEF125AW1

■ Panel (Option)



Standard panel with sensing

BYCQ125EEF (Fresh White)



Standard panel with sensing

BYCQ125EEK (Black)

Specifications

MODEL			FXFTQ25AVM	FXFTQ32AVM	FXFTQ40AVM	FXFTQ50AVM	FXFTQ63AVM	FXFTQ80AVM	FXFTQ100AVM	FXFTQ125AVM	FXFTQ140AVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz								
Cooling capacity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Heating capacity		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,600	
		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
Power consumption	Cooling	kW	0.028		0.035	0.056	0.061	0.092	0.164	0.170	0.194
	Heating		0.026		0.034	0.056	0.060	0.092	0.144	0.159	0.183
Casing			Galvanised steel plate								
Airflow rate (H/HM/M/ML/L)		m³/min	13/12.5/11.5/11/10		17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
		cfm	459/441/406/388/353		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)	30/29.5/28.5/28/27		35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35
Dimensions (H×W×D)		mm	256×840×840						298×840×840		
Machine weight		kg	19			24	22		25		26
Piping connections	Liquid (Flare)	mm	φ 6.4				φ 9.5				
	Gas (Flare)		φ 12.7				φ 15.9				
	Drain		VP25 (External Dia. 32/Internal Dia. 25)								
MODEL			FXFSQ25CVM				FXFSQ50CVM				
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz								
Cooling capacity		Btu/h	9,600						19,100		
		kW	2.8						5.6		
Heating capacity		Btu/h	10,900						21,500		
		kW	3.2						6.3		
Power consumption	Cooling	kW	0.035				0.056				
	Heating		0.035				0.056				
Casing			Galvanised steel plate								
Airflow rate (H/HM/M/ML/L)		m³/min	19/15.5/14.5/12.5/11				28.5/27/25.5/24/23				
		cfm	671/547/512/441/388				1,006/953/900/847/812				
Sound level (H/HM/M/ML/L)		dB(A)	34.5/32/29.5/28.5/27				39.5/38.0/37.0/36.0/35.0				
Dimensions (H×W×D)		mm	256×840×840				298×840×840				
Machine weight		kg	24				25				
Piping connections	Liquid	mm	φ 6.4								
	Gas		φ 12.7								
	Drain		VP25 (External dia. 32/Internal dia. 25)								

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height 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.

Panel (Option)

Standard panel with sensing	Model	BYCQ125EEF (Fresh White)	
	Dimensions(HxWxD)	mm	50x950x950
	Weight	kg	5.5
	Model	BYCQ125EEK (Black)	
	Dimensions(HxWxD)	mm	50x950x950
	Weight	kg	5.5

Function List

Remote controller	Wired			Wireless
	FXFTQ-A	FXFSQ-C		FXFSQ-C
	BRC1H63W(K)	BRC1H63W(K)	BRC1E63	BRC7M635F(K) / BRC7M634F(K)
Streamer function unit	○	—	—	—
Dual sensors *1	○	○	○	—
Auto airflow function (Direct airflow) *1	—	—	○	—
Auto airflow function (Draft prevention) *1	○	○	○	—
Sensing sensor low mode *1	○	○	○	—
Sensing sensor stop mode *1	○	○	○	—
Circulation airflow *2	—	—	○	—
Individual airflow direction control	○	○	○	—
Switchable 5 step fan speed	○	○	○	○
Auto airflow rate	○	○	○	○
Auto swing	○	○	○	○
Selectable airflow pattern *1	—	○	○	○
High ceiling application	○	○	○	—

*1. Applicable when sensing panel is installed.

*2. Refer to Circulation airflow on page 189 for details.

Round Flow Cassette with Streamer Type

FXFRQ-A

360° airflow for improved comfort and enhanced maximum efficiency in cleaning

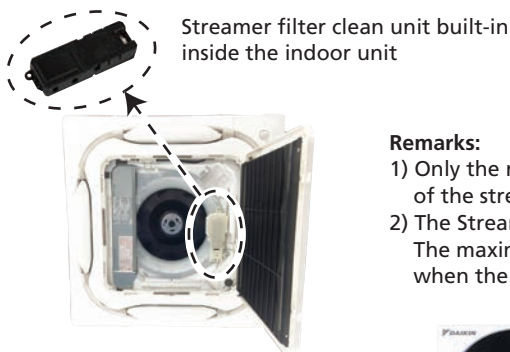


Introducing Streamer technology to VRV Indoor unit

Daikin Streamer Technology enhances maximum efficiency in cleaning, which uses powerful decomposition properties to decompose substances captured by filter for better air quality.



Streamer filter clean unit irradiates Streamer when the fan and air conditioning operation are stopped. Streamer fumigates the cabin and sterilizes the filter.



Remarks:

- 1) Only the remote controller BRC1H63W(K) can be connected for ON/OFF operation of the streamer.
- 2) The Streamer function operates only when the fan and air conditioning operation are stopped. The maximum operation of streamer is 180 minutes per day. (This function is available only when the remote controller BRC1H63W(K) is connected.)



Stylish Remote Controller
BRC1H63W/K



Streamer ON/OFF setting and
status icon are available.

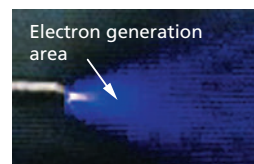


Streamer Technology

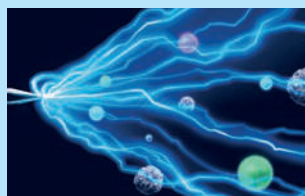
Streamer, a type of plasma discharge, decomposes hazardous chemical substances. The decomposition power is comparable to thermal energy of about 100,000°C.*1

Note: *1. Comparison of oxidation decomposition. This does not mean temperature will become high.

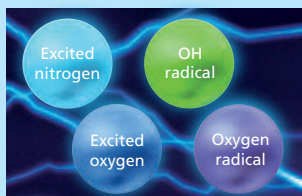
VRV Indoor Units



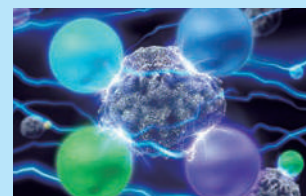
Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.



The electrons collide and combine with nitrogen and oxygen in the air to form four kinds of decomposing elements with decomposition power.

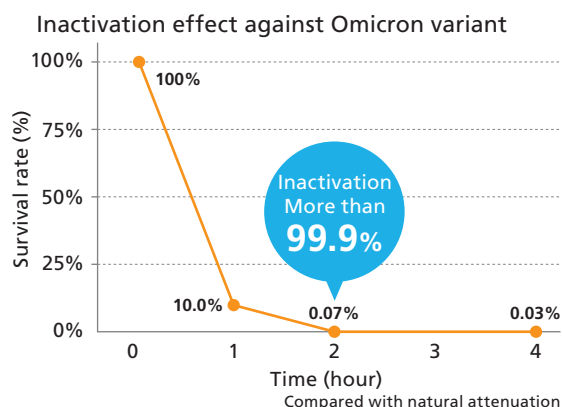


The decomposing elements provide decomposition power.

> 99.93% Inactivation of Omicron variant in 2 hours

■ Experimental Results

Irradiation with Streamer discharge for two hours inactivated 99.93%, and for four hours inactivated 99.97% of the Omicron variant of Coronavirus (SARS-CoV-2), when compared to without Streamer discharge.



■ Test Method

hCoV-19/Japan/ TY38-873/2021 strain (Omicron variant) was used. Two acrylic boxes of about 31L were placed in a safety cabinet in the BSL-3 facility, and Streamer discharge device was installed in one of the acrylic boxes. Seesaw shakers with a 6-well plate were placed in both boxes, and 0.5 mL of virus solution was placed in each well of the plate. Streamer irradiation was performed on one 6-well plate while stirring with a seesaw shaker. After 1, 2, and 4 hours, the virus solution was collected, and the virus titer was measured by the TCID50 method using Vero E6/TMPRSS2 cells.

DAIKIN Streamer Research Institute



■ Test Organization

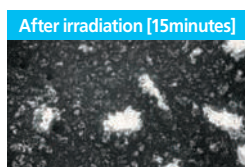
Professor Tatsuo Shioda, Department of Virus Infections, Research Institute for Microbial Diseases, Osaka University

*This result was obtained by using a Streamer discharge device for testing in lab conditions. The effect of products equipped with Streamer technology or results in actual use environments may differ.

> Streamer decomposes mould and mites (feces and carcasses) and suppresses the causes of allergies.

■ Demonstration of mould

Picture of mould



■ Test Method

"Moulds" were placed on the electrodes of a Streamer discharge unit where they were exposed to Streamer discharge for 15 minutes and photographed with an electron microscope.

■ Test Organization

Demonstration test was performed at Wakayama Medical University.

> Why Daikin Streamer?

Recognized as clean technology by public bodies

Winner of the 2005 Progress Award, Institute of Electrostatics Japan

Awarded for the development of a domestic air purifier which uses DC Streamer discharge.

105 Patents Acquired

Patents acquired relating to Streamer technology

Round Flow Cassette with Streamer Type

Individual airflow direction control

Comfortable air conditioning for all room layouts and conditions

Easy setting is possible with a wired remote controller

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

Individual airflow settings

No individual setting
(Auto airflow)

Position 0 (Highest point)

Position 1

Position 2

Position 3

Position 4 (Lowest point)

Swing

Position 0
(Fixed airflow to
highest position)

No individual setting
(Auto airflow)

Swing
(Up/down)

Position 4
(Fixed airflow to the lowest position)

Individual settings are possible as stated above.

Swing

Swing is set for
meetings near
the windows.

Large blow is
provided to
meeting areas
near windows.

No individual setting (Auto airflow)

Position 0
The airflow is at the
highest setting
(Position 0) for people
who dislike air blowing
directly on them.

No individual setting (Auto airflow)

Blow reduced for areas
with few people.

Comfort is provided to the entire room
by individual setting corresponding to 4-way
flow conditions.

Other functions

Quick and easy installation

Installable in tight ceiling spaces

Min. of 261 mm* ceiling space when using standard panel.

* For FXFRQ25-80A models.

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

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.

Cleanliness

Silver ion anti-bacterial drain pan

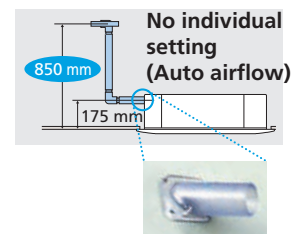
Prevents the growth of slime, bacteria, and mould that cause odours and clogging.

* Drain pan should be changed once every two to three years.

Filter has anti-mould and antibacterial treatment

High Performance Prefilter (MERV 8) (Option) [See page 296](#)

This filter can catch more harmful substances in the air such as PM2.5.



Just open the suction grille!

Drain outlet
(with rubber plug)



BAF552A160

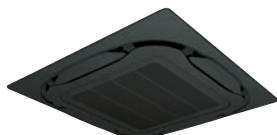


■ Decoration Panel (Option)

Standard panel



Standard panel
BYCQ125EAF (Fresh White)



Standard panel
BYCQ125EAK (Black)

New designer panel

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



Designer panel
BYCQ125EAPF (Fresh White)

FLAT
Flatter styling:
Suction panel grid
texture smoothed.



CLEAN
Clean-cut form:
Soiling is hard to see
on smart-looking panel.



ROUND
Subtle distinction:
around suction inlets
silvering is a tasteful touch.



Close to ideal styling
New designer panel

Auto grille panel

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 is included.



Wireless
Remote
Controller

Grille panel can be lowered
to a maximum of 3.9 m.
BYCQ125EBSF (Fresh White)

Specifications

MODEL		FXFRQ25AVM	FXFRQ32AVM	FXFRQ40AVM	FXFRQ50AVM	FXFRQ63AVM	FXFRQ80AVM	FXFRQ100AVM	FXFRQ125AVM	FXFRQ140AVM	
Power supply		1-phase, 220-240 V/220-230 V, 50/60 Hz									
Cooling capacity	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600	
	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0	
Heating capacity	Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	47,800	54,600	
	kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	14.0	16.0	
Power consumption	Cooling	kW	0.029		0.036	0.040	0.063	0.096	0.158	0.178	0.203
	Heating		0.027		0.036	0.040	0.063	0.096	0.150	0.166	0.191
Casing		Galvanised steel plate									
Airflow rate (H/HM/M/ML/L)	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	
	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)	30/29.5/28.5/28/27		35/29.5/29/28/27	35/33.5/29.5/28/27	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						298×840×840			
Machine weight		kg	19			22		25		26	
Piping connections	Liquid (Flare)	mm	φ 6.4			φ 9.5					
	Gas (Flare)		φ 12.7			φ 15.9					
	Drain		VP25 (External Dia. 32/Internal Dia. 25)								

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height 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.

Panel (Option)

Standard panel	Model	BYCQ125EAF (Fresh White) / BYCQ125EAK (Black)	
	Dimensions(HxWxD)	mm	50×950×950
	Weight	kg	5.5
Designer panel	Model	BYCQ125EAPF (Fresh White)	
	Dimensions(HxWxD)	mm	97×950×950
	Weight	kg	6.5
Auto grille panel	Model	BYCQ125EBSF (Fresh White)	
	Dimensions(HxWxD)	mm	105×950×950
	Weight	kg	8

Function List

Wired remote controller	BRC1H63W(K)
Streamer function unit	○
Individual airflow direction control	○
Switchable 5 step fan speed	○
Auto airflow rate	○
Auto swing	○
High ceiling application	○

Round Flow Cassette Type

FXFQ-A

360° airflow for improved comfort



Circulation airflow*

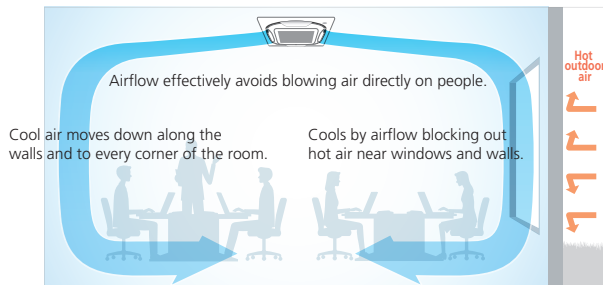


Configurations of circulation airflow

Circulation airflow cools the entire room to deliver comfort that never feels cold.

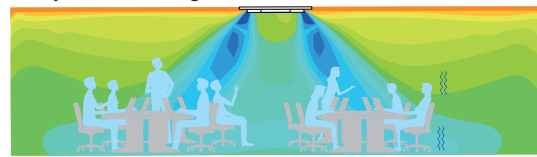
Cooling

During 2-way horizontal flow

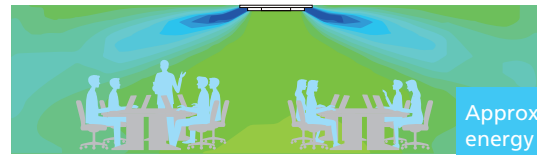


Comfort without cold air pockets at floor level.

4-way cassette (Swing)



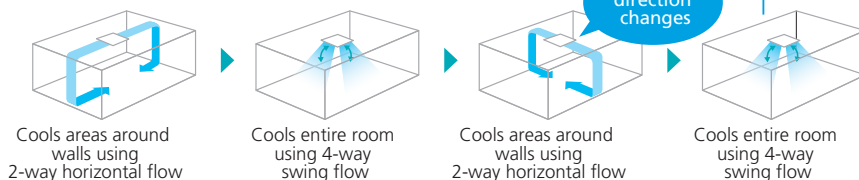
Circulation Airflow (2-way horizontal + 4-way swing) reduce uneven temperatures



Comparison Conditions
Room size: Width 7.5m x depth 7.5m x height 2.6m
Indoor unit capacity: 71 class
Outdoor air temperature: 35°C
Airflow rate and air direction: high / swing

Operation (at start)

Performs repeatedly



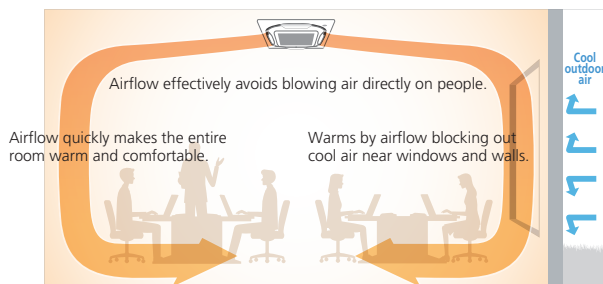
* Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor reaches set temperature. (26°C)

When the target temperature is reached, normal operation (all-round flow) begins.

Circulation airflow warms the entire room starting from your feet.

Heating

During 2-way horizontal flow



Warmth reliably reaches feet.

4-way cassette (Down blow)



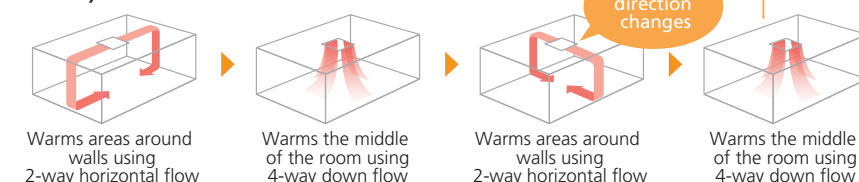
Circulation Airflow (2-way horizontal + 4-way swing) reduce uneven temperatures



Comparison Conditions
Room size: Width 7.5m x depth 7.5m x height 2.6m
Indoor unit capacity: 71 class
Outdoor air temperature: 5°C
Airflow rate and air direction: high / Down blow

Operation (at start)

Performs repeatedly



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

When the target temperature is reached, normal operation (all-round flow) begins.

Individual airflow direction control

* Applicable when wired remote controller BRC1E63 or BRC1H63W(K) is used.

Comfortable air conditioning for all room layouts and conditions

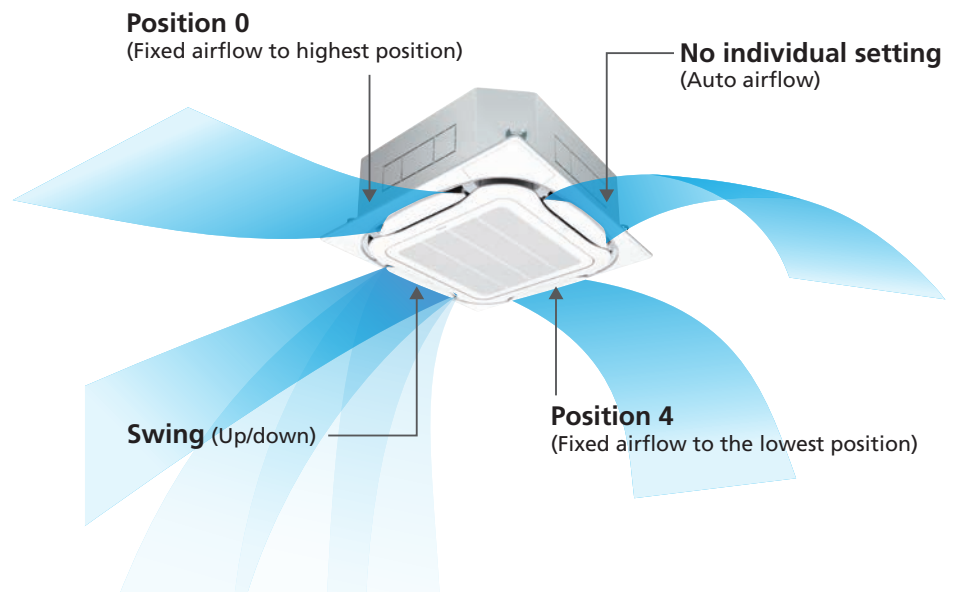
Easy setting is possible with a wired remote controller

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

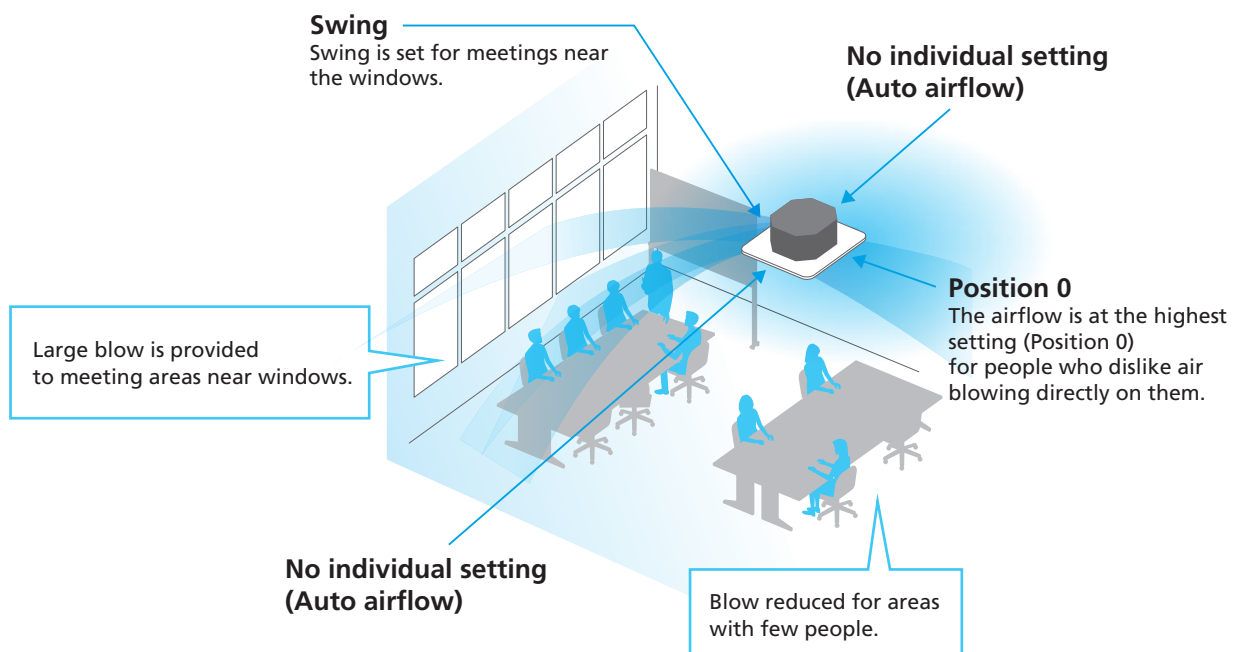
Individual airflow settings

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

Individual settings are possible as stated above.



Comfort is provided to the entire room by individual setting corresponding to 4-way flow conditions.



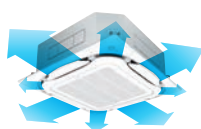
Round Flow Cassette Type

Other functions

Comfort

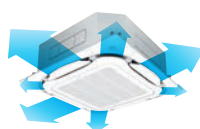
From All-round flow to 2-way flow, various airflow patterns available.

All-round flow



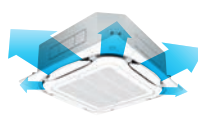
(E.g., installed in middle of ceiling)
4-way flow also possible.

3-way flow



(E.g., installed near a wall)

L-shaped 2-way flow



(E.g., installed in a corner)

Opposite 2-way flow



(E.g., installed in a long room)

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

Suitable for high ceilings

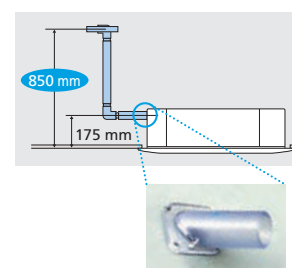
Even in spaces with high ceilings, a comfortable airflow is carried down to the floor level.

Quick and easy installation

Installable in tight ceiling spaces

Min. of 261 mm* ceiling space when using standard panel.

* For FXFQ25-80A models.



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

Easy maintenance

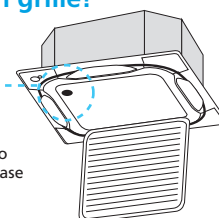
Drain pan and drain water check

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

Just open the suction grille!

Drain outlet
(with rubber plug)

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



Cleanliness

New

UV Streamer air purifier unit (Option)

See page 5 - 6

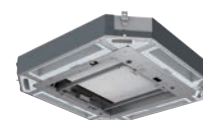
Adopts "deep ultraviolet (UVC) LED" which irradiates deep ultraviolet rays with a wavelengths of around 265 nm that have a high sterilizing effect.



Antibacterial /
Antiviral filter
MERV 13 rating



Promotion
Movie



BAEF125AW1

Silver ion anti-bacterial drain pan

Prevents the growth of slime, bacteria, and mould that cause odours and clogging.

* Drain pan should be changed once every two to three years.



Filter has anti-mould and antibacterial treatment

High Performance Prefilter (MERV 8) (Option)

See page 296

This filter can catch more harmful substances in the air such as PM2.5.

BAF552A160

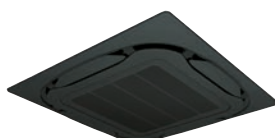


■ Decoration Panel (Option)

Standard panel



Standard panel
BYCQ125EAF (Fresh White)



Standard panel
BYCQ125EAK (Black)

New designer panel

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



Designer panel
BYCQ125EAPF (Fresh White)

FLAT
Flatter styling:
Suction panel grid
texture smoothed.



CLEAN
Clean-cut form:
Soiling is hard to see
on smart-looking panel.



ROUND
Subtle distinction:
around suction inlets
silvering is a tasteful touch.



Close to ideal styling
New designer panel

Auto grille panel

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 is included. Operation is not possible using other remote controllers.



Wireless
Remote
Controller

Grille panel can be lowered
to a maximum of 3.9 m.
BYCQ125EBSF (Fresh White)

Specifications

MODEL		FXFQ25AVM	FXFQ32AVM	FXFQ40AVM	FXFQ50AVM	FXFQ63AVM	FXFQ80AVM	FXFQ100AVM	FXFQ125AVM	FXFQ140AVM	
Power supply		1-phase, 220-240 V/220-230 V, 50/60 Hz									
Cooling capacity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Heating capacity		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	47,800	54,600
		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	14.0	16.0
Power consumption	Cooling	kW	0.029		0.036	0.040	0.063	0.096	0.158	0.178	0.203
	Heating		0.027		0.036	0.040	0.063	0.096	0.150	0.166	0.191
Casing		Galvanised steel plate									
Airflow rate (H/HM/M/ML/L)		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
		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)	30/29.5/28.5/28/27		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						298×840×840		
Machine weight		kg	19				22		25		26
Piping connections	Liquid (Flare)	mm	φ 6.4				φ 9.5				
	Gas (Flare)		φ 12.7				φ 15.9				
	Drain		VP25 (External Dia. 32/Internal Dia. 25)								

Notes: Specifications are based on the following conditions;

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

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

Decoration Panel (Option)

Standard panel	Model	BYCQ125EAF (Fresh White) / BYCQ125EAK (Black)	
	Dimensions(HxWxD)	mm	50x950x950
	Weight	kg	5.5
Designer panel	Model	BYCQ125EAPF (Fresh White)	
	Dimensions(HxWxD)	mm	97x950x950
	Weight	kg	6.5
Auto grille panel	Model	BYCQ125EBSF (Fresh White)	
	Dimensions(HxWxD)	mm	105x950x950
	Weight	kg	8

Function List

Remote controller	Wired		Wireless
	BRC1E63	BRC1H63W(K)	BRC7M635/634F(K)
Circulation airflow	○	—	—
Individual airflow direction control	○	○	—
Switchable 5 step fan speed	○	○	○
Auto airflow rate	○	○	○
Auto swing	○	○	○
Selectable airflow pattern	○	○	○
High ceiling application	○	○	—

Compact Multi Flow Cassette Type

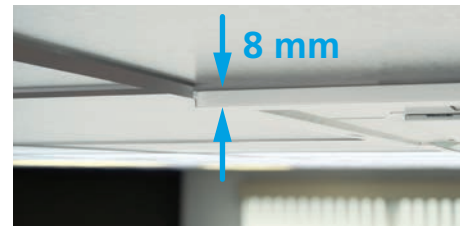
FXZQ-B

Quiet, compact, and designed for user comfort



Compact & elegant design

- Fully-flat integration in standard architectural ceiling tiles, leaving only 8 mm
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white
- The newly designed panel integrates fully within one ceiling tile enabling lights, speakers and sprinklers to be installed in the adjoining ceiling tiles.



Efficiency & comfort

Dual sensors (Option)

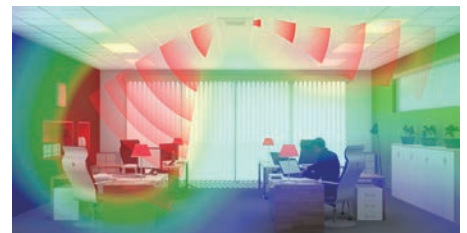
- Two optional intelligent sensors improve energy efficiency and comfort.
- An optional presence and floor sensor kit can be fitted to the cassette for draught prevention, energy-saving operation and to provide optimal control of airflow.



Individual airflow direction control*

- Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

*Applicable when wired remote controller BRC1E63 or BRC1H63W(K) is used.



Auto swing (up/down)

- Possibility to select automatic vertical moving of the air discharge flaps for efficient air and temperature distribution throughout the room.

Cleanliness

Streamer filter clean unit (Option) See page 7 - 8

- Irradiates Streamer when the fan and air conditioning operation are stopped. Streamer fumigates the cabin and sterilizes the filter.

Remarks:

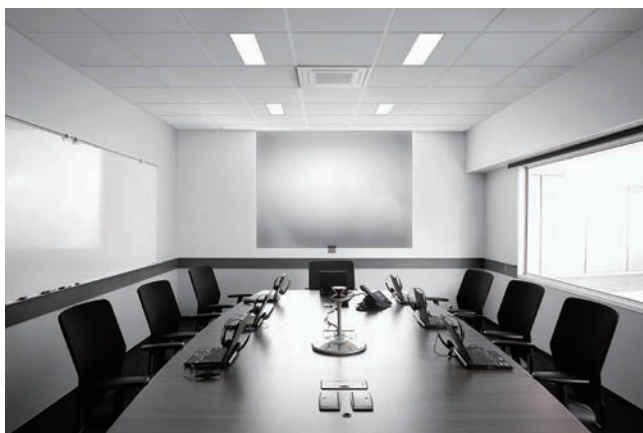
- 1) Only the stylish remote controller BRC1H63W(K) can be connected for ON/OFF operation of the streamer.
 - 2) The Streamer function operates only when the fan and air conditioning operation are stopped.
- The maximum operation of Streamer is 180 minutes per day.



BAPWS55A61

Ceiling soiling prevention

- Prevents air from blowing against the ceiling to prevent ceiling stains.



Specifications

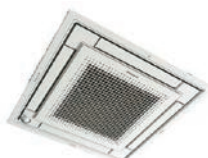
MODEL			FXZQ20BVM	FXZQ25BVM	FXZQ32BVM	FXZQ40BVM	FXZQ50BVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz				
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100
		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500
		kW	2.5	3.2	4.0	5.0	6.3
Power consumption	Cooling	kW	0.043		0.045	0.059	0.092
	Heating		0.036		0.038	0.053	0.086
Casing			Galvanised steel plate				
Airflow rate (H/M/L)		m³/min	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.5/12.5/10.0
		cfm	307/265/229	318/282/229	353/300/247	406/335/282	512/441/353
Sound level (H/M/L)		dB(A)	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
Sound power (H)		dB(A)	49	50	51	54	60
Dimensions (H×W×D)		mm	260×575×575 (For depth add 63 mm for electrical box)				
Machine weight		kg	15.5		16.5		18.5
Piping connections	Liquid (Flare)	mm	ϕ 6.4				
	Gas (Flare)		ϕ 12.7				
	Drain		VP20 (External Dia. 26/Internal Dia. 20)				

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWDB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWDB, Equivalent piping length: 7.5 m, Height 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.

Panel (Option)

Panel type		Grid ceiling panel	
Appearance			
Model		BYFQ60CAW	
Colour		White (N9.5)	
Dimensions (HxWxD)	mm	46x620x620	
Weight	kg	2.8	

Double Flow Cassette Type

FXCQ-B

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



Stylish design

- Stylish unit blends easily with any interior.
- The flat flaps close entirely when the unit is not operating and there are no air intake grilles visible.
- Depth of all units is 620 mm, ideal for narrow spaces

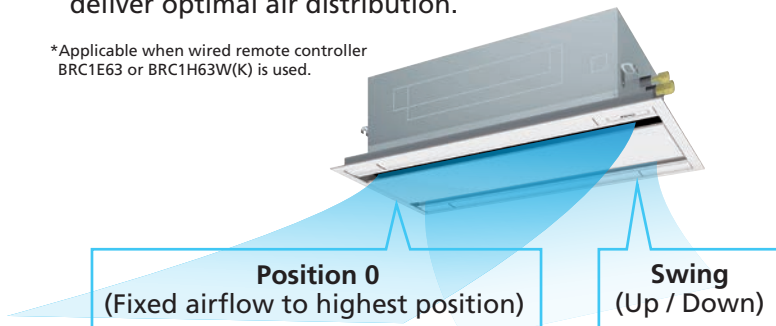


Comfort

Individual airflow direction control*

- Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

*Applicable when wired remote controller BRC1E63 or BRC1H63W(K) is used.



Individual airflow settings

No individual setting (Auto airflow)

Position

- Position 0 (Highest point)
- Position 1
- Position 2
- Position 3
- Position 4 (Lowest point)

Swing

Individual settings are possible as stated above.

5-step & auto airflow control

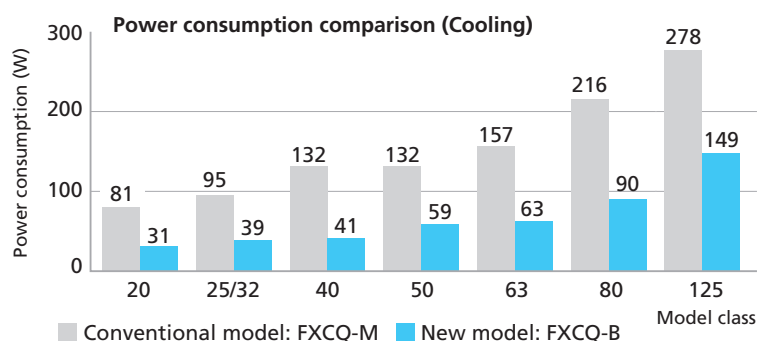
- Control of airflow rate has been improved from 3-step to 5-step. Auto airflow rate is newly available.

Suitable for high ceilings

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

Energy saving

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



Easy maintenance

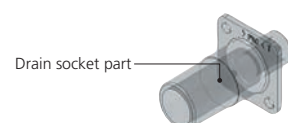
- The flap parts are easy to clean because it is hard to condensate and get dirty.
- Check contamination in drain pan by simply removing suction grille and panel.
- Adjuster pockets mount at four corners of the unit enable to adjust the main unit without removing the panel.



Adjuster Pocket

Flexible installation

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



Drain socket part

Cleanliness

Streamer filter clean unit (Option) See page 7 - 8

Irradiates Streamer when the fan and air conditioning operation are stopped.
Streamer fumigates the cabin and sterilizes the filter.



BAPWS55A61

Remarks:

- 1) Only the stylish remote controller BRC1H63W(K) can be connected for ON/OFF operation of the streamer.
- 2) The Streamer function operates only when the fan and air conditioning operation are stopped.

The maximum operation of Streamer is 180 minutes per day.

Silver ion anti-bacterial drain pan

- Prevents the growth of slime, bacteria, and mould that cause odours and clogging.

* Drain pan should be changed once every two to three years.

Filter has anti-mould and antibacterial treatment



Specifications

MODEL		FXCQ20BVM	FXCQ25BVM	FXCQ32BVM	FXCQ40BVM	FXCQ50BVM	FXCQ63BVM	FXCQ80BVM	FXCQ125BVM
Power supply		1-phase, 220-240 V/220-230 V, 50/60 Hz							
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	47,800
	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100	54,600
	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power consumption	Cooling	0.031	0.039		0.041	0.059	0.063	0.090	0.149
	Heating	0.028	0.035		0.037	0.056	0.060	0.086	0.146
Casing		Galvanised steel plate							
Airflow rate (H/HM/M/L/L)	m³/min	10.5/9.5/9/8/7.5	11.5/10.5/9.5/8.5/8		12/11/10.5/9.5/8.5	15/14/13/11.5/10.5	16/15/14/12.5/11.5	26/24/22.5/20.5/18.5	32/29.5/27.5/25/22.5
	cfm	371/335/318/282/265	406/371/335/300/282		424/388/371/335/300	530/494/459/406/371	565/530/494/441/406	918/847/794/724/653	1,130/1,041/971/883/794
Sound level (H/HM/M/L/L)		32/31/30/29/28	34/33/31/30/29	34/33/32/31/30	36/35/33/32/31	37/36/35/33/31	39/38/37/35/32	42/40/38/36/33	46/44/42/40/38
Dimensions (H × W × D)		mm	305×775×620				305×990×620		305×1,445×620
Machine weight		kg	19			22	25	33	38
Piping connections	Liquid (Flare)	mm	ϕ 6.4				ϕ 9.5		
	Gas (Flare)		ϕ 12.7				ϕ 15.9		
	Drain		VP25 (External Dia. 32/Internal Dia. 25)						
Panel (Option)	Model		BYBCQ40CF			BYBCQ63CF		BYBCQ125CF	
	Colour		Fresh white (6.5Y 9.5/0.5)						
	Dimensions (HxWxD)		55×1,070×700			55×1,285×700		55×1,740×700	
	Weight		10			11		13	

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 - Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height 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.

Single Flow Cassette Type

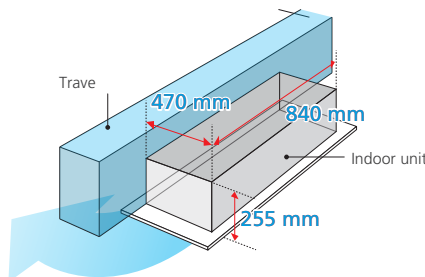
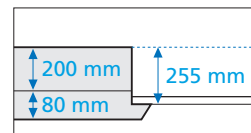
FXEQ-A

Slim design for flexible installation



Slim design

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

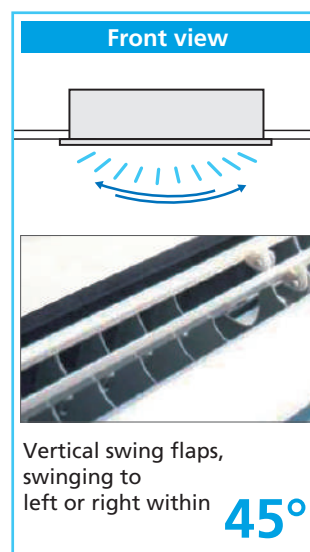
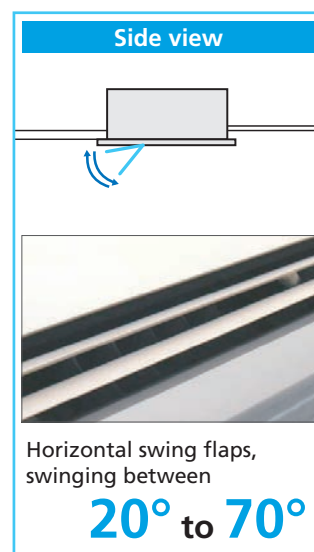


- The novel smooth panel design makes dust difficult to accumulate, thus causing the cleaning more conveniently.



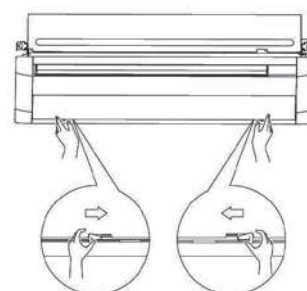
Comfort

- The swinging of horizontal and vertical swing flaps can be adjusted freely with the remote controller, providing 3D airflow to every corner of the room.
- Control of airflow rate can be selected from 5-step control, Automatic and quiet operation mode, which provides comfortable airflow.
- DC motor is adopted both in the fan and drain pump of the indoor unit, not only enhancing the energy saving performance, but also reducing the operating sound and the vibration incurred to the unit.
- While creating a cozy indoor environment, the unit can prevent the suspended ceiling from being soiled by adjusting its louvre angle.



Easy maintenance

- Drain pump is equipped as standard accessory with 850 mm lift.
- Maintenance operations can be performed by removing the front panel.





Specifications

MODEL			FXEQ20AV36	FXEQ25AV36	FXEQ32AV36	FXEQ40AV36	FXEQ50AV36	FXEQ63AV36
Power supply			1-phase, 220-240 V, 50 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.026	0.027	0.034	0.046	0.048	0.067
	Heating		0.022	0.023	0.030	0.042	0.044	0.063
Casing			Galvanised steel plate					
Airflow rate (H/HM/M/ML/L)	Cooling	m³/min	6.0/5.4/4.9/4.4/4.0	6.9/6.4/5.8/5.3/4.8	8.0/7.5/7.0/6.3/5.5	9.8/8.8/7.8/7.0/6.2	12.5/11.4/10.4/9.5/8.7	15.0/13.6/12.2/11.0/9.8
		cfm	212/191/173/155/141	244/226/205/187/169	282/265/247/222/194	346/311/275/247/219	441/402/367/335/307	530/480/431/388/346
	Heating	m³/min	6.0/5.6/5.1/4.7/4.2	7.2/6.7/6.1/5.6/5.0	8.6/8.0/7.4/6.7/6.0	10.2/9.3/8.4/7.6/6.8	14.0/12.8/11.6/10.7/9.8	16.9/15.3/13.6/12.3/11.0
		cfm	212/198/180/166/148	254/237/215/198/177	304/282/261/237/212	360/328/297/268/240	494/452/409/378/346	597/540/480/434/388
Sound level (H/HM/M/ML/L)	Cooling	dB(A)	30/29/28/27/26	32/31/30/29/28	35/34/33/32/30	38/37/35/33/31	38/37/35/33/31	43/41/39/37/35
	Heating		33/31/29/28/26	35/33/31/30/28	38/36/34/33/31	41/39/37/35/33	41/39/37/36/34	46/44/42/40/38
Dimensions (HxWxD)		mm	200x840x470				200x1,240x470	
Machine weight		kg	17			18	23	
Piping connections	Liquid (Flare)	mm	φ 6.4					φ 9.5
	Gas (Flare)		φ 12.7					φ 15.9
	Drain		PVC26 (External Dia. 26/Internal Dia. 20)					
Panel (Option)	Model		BYEP40AW1				BYEP63AW1	
	Colour		Fresh white					
	Dimensions(HxWxD)	mm	80x950x550				80x1,350x550	
	Weight	kg	8.0				10.0	

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height 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.

3D Airflow Duct with Sensing Type

FXDSQ-A

3D airflow with sensing function for comfort and energy savings

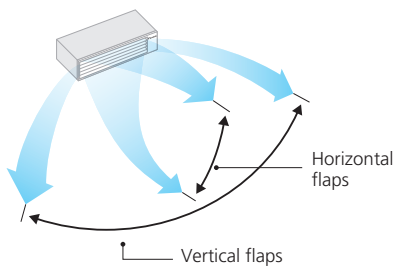
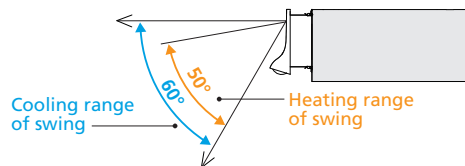
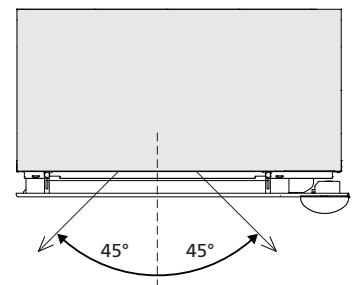


Comfort

3D airflow

The wide coverage of the airflow angle creates a comfortable 3D airflow.

- Horizontal & Vertical direction can be adjusted freely by the remote controller settings as to provide 3D airflow to every corner of the room.
- Can freely select 5 positions and swing mode for each up/down and left/right direction with remote controller.



5-step & auto airflow control

- Control of airflow rate can be selected from 5-step and Auto to provide comfortable airflow.

Installation flexibility

Slim design

- Slim and compact design with a height of only 200 mm and the depth of only 450 mm which is suitable to install in limited spaces.



* Panel dimensions are not included.

Daikin advanced sensing technology

Dual sensors



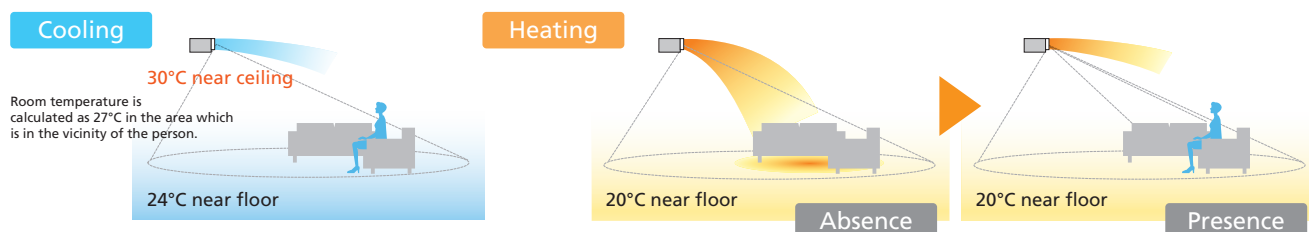
Infrared presence sensor

The presence sensor detects where people are and adjusts the airflow direction accordingly.

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.

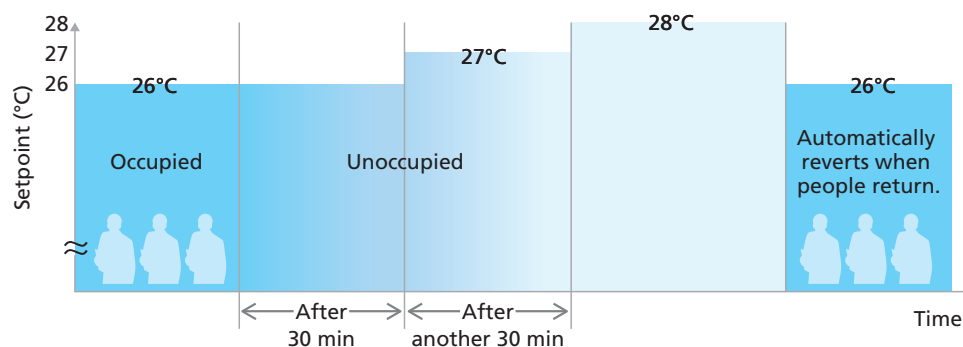
Comfort and energy saving preventing over cooling / heating



Sensing sensor mode

Sensing sensor low mode (default: OFF)

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



Example

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

Sensing sensor stop mode (default: OFF)

- Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

*Adjustment is possible for shift time and set temperature by local setting.

Specifications

MODEL			FXDSQ20AVM	FXDSQ25AVM	FXDSQ32AVM	FXDSQ40AVM	FXDSQ50AVM	FXDSQ63AVM
Power supply			1-phase, 220-240/220-230 V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption *1	Cooling	kW	0.028	0.029	0.032	0.049		0.054
	Heating		0.024	0.025	0.028	0.045		0.050
Casing			Galvanized steel plate					
Airflow rate (H/HM/M/ML/L)		m³/min	8.7/8.1/7.6/7.0/6.5	9.0/8.5/8.0/7.5/7.0	10.0/9.3/8.6/7.9/7.2	12.0/11.2/10.5/9.7/9.0	15.0/14.0/13.0/11.5/10.5	19.0/17.0/15.0/13.0/11.5
		cfm	307/286/268/247/229	318/300/282/265/247	353/328/304/279/254	424/395/371/342/318	530/494/459/406/371	671/600/530/459/406
External static pressure		Pa	10-0 *2					
Sound level (H/HM/M/ML/L)*1 *3		dB(A)	31/29/27/26/24	31/29/27/26/24	34/32/30/29/27	39/37/35/33/31		39/37/35/33/30
Dimensions (H×W×D)		mm	200×700×450				200×900×450	200×1,100×450
Machine weight		kg	17				20	23
Piping connections	Liquid (Flare)	mm	φ 6.4				φ 9.5	
	Gas (Flare)		φ 12.7				φ 15.9	
	Drain		PVC26 (External Dia. 26 / Internal Dia. 20)					
3D Auto swing panel	Dimensions (H×W×D)	mm	180×722×70				180×922×70	180×1,122×70
	Colour		Fresh white					
	Weight	kg	1.0				1.5	2.0

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

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

*1: Values are based on external static pressure of 10 Pa.

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

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

Bedroom Duct Type

FXDBQ-A

Suitable for close living spaces such as hotels and condominiums



Installation flexibility

Only 700 mm width

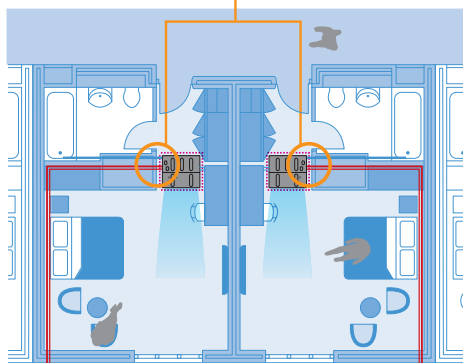
- Installation is possible even in narrow entrance ways at hotels and condominiums.



*1,000 mm in width for the FXDBQ63/80 model.

Mirror piping

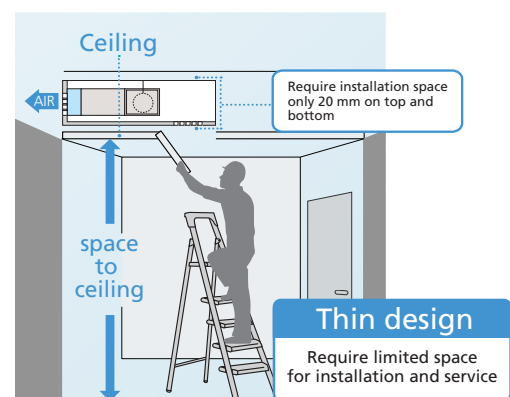
- Allows pipe installation from either side of indoor unit, simplified design process and installation.



Easy maintenance

1-stop service space

- Requires minimum spaces for installation and maintenance can be done from only one inspection access.



Easier and faster cleaning

- In conventional model, the parts need to be removed one by one in order. However in new model, the integrated fan motor can be removed and reinstalled in one time.



Easy access to control box from bottom side

- All wiring is simplified to control box, so maintenance can be done from bottom side.



Energy efficiency & comfort

- Control of airflow rate can be selected from 5-step and Auto to provide comfortable airflow.
- Quiet operation 27 dB(A) in L tap for the FXDBQ40/63



Specifications

MODEL			FXDBQ40AVM	FXDBQ50AVM	FXDBQ63AVM	FXDBQ80AVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz			
Cooling capacity		Btu/h	15,400	19,100	24,200	30,700
		kW	4.5	5.6	7.1	9.0
Heating capacity		Btu/h	17,100	21,500	27,300	34,100
		kW	5.0	6.3	8.0	10.0
Power consumption*1	Cooling	kW	0.062	0.080	0.090	0.120
	Heating		0.062	0.080	0.090	0.120
Casing			Galvanized steel plate			
Airflow rate (H/HM/M/ML/L)		m³/min	13.3/12/10.5/10/8.5	14.8/13/11.5/10.5/9	22/19/18/16/14.5	25/22/20/18/16
		cfm	470/424/371/353/300	522/459/406/371/318	777/671/635/565/512	883/777/706/635/565
External static pressure		Pa	15-50 (15)*2			
Sound level (H/HM/M/ML/L)*1		dB(A)	35/33/31/29/27	37/36/33/31/28	35/33/31/29/27	37/35/34/32/30
Dimensions (HxWxD)		mm	245×700×800		245×1,000×800	
Machine weight		kg	26		36	
Piping connections	Liquid (Flare)	mm	φ6.4		φ9.5	
	Gas (Flare)		φ12.7		φ15.9	
	Drain		VP25 (External Dia. 32/Internal Dia.25)			

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

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

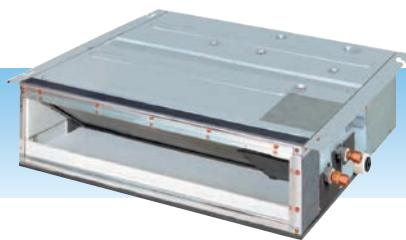
*1: Power consumption values are based on conditions of rated external static pressure.

*2: External static pressure is changeable to set by the remote controller. These values indicate the lowest and highest possible static pressures. The rated static pressure is 15 Pa.

Slim Duct (Standard) Type

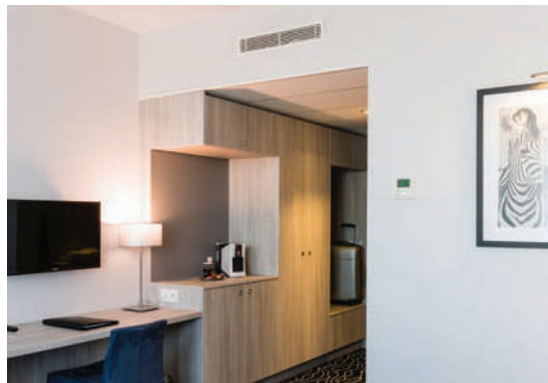
FXDQ-PD / ND

Slim design, quietness and ideal for drop-ceilings



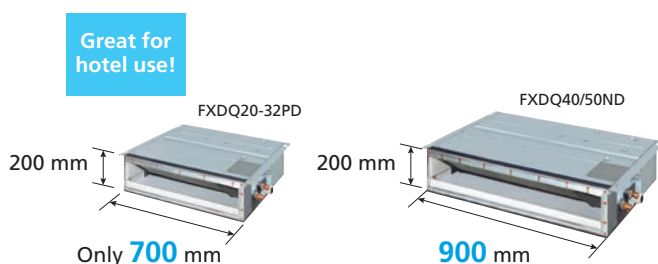
Comfort

- 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.
- Low operation sound level: down to 23 dB(A)



Installation flexibility

- Only 200 mm in height, this model can be installed in rooms with as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab.
- Drain pump is equipped as standard accessory with 750 mm lift.



*1,100 mm in width for the FXDQ63ND model.

Specifications

MODEL		FXDQ20PDVE	FXDQ25PDVE	FXDQ32PDVE	FXDQ40NDVE	FXDQ50NDVE	FXDQ63NDVE
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption (FXDQ-PD/NDVE) *1	Cooling	0.086		0.089	0.160	0.165	0.181
	Heating	0.067		0.070	0.147	0.152	0.168
Casing		Galvanised steel plate					
Airflow rate (HH/H/L)	m ³ /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
	cfm	282/254/226			371/335/300	441/388/353	583/512/459
External static pressure		30-10 *2			44-15 *2		
Sound level (HH/H/L) *1 *3		28/26/23		28/26/24	30/28/26	33/30/27	33/31/29
Dimensions (HxWxD)		200x700x620			200x900x620		200x1,100x620
Machine weight		23			27	28	31
Piping connections	Liquid (Flare)	ø6.4					ø9.5
	Gas (Flare)	ø12.7					ø15.9
	Drain	VP20 (External Dia. 26/Internal Dia. 20)					

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height 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.

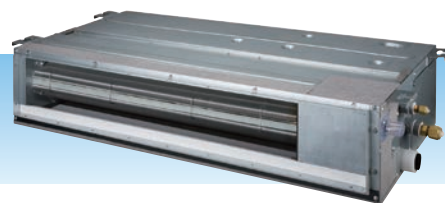
*2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ-PD models and 15 Pa for FXDQ-ND models.)

*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 Duct (Compact) Type

FXDQ-SP

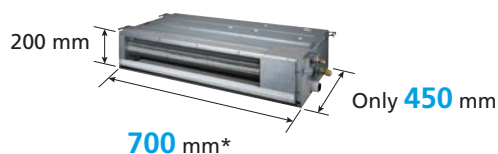
Slim and compact design for easy and flexible installation



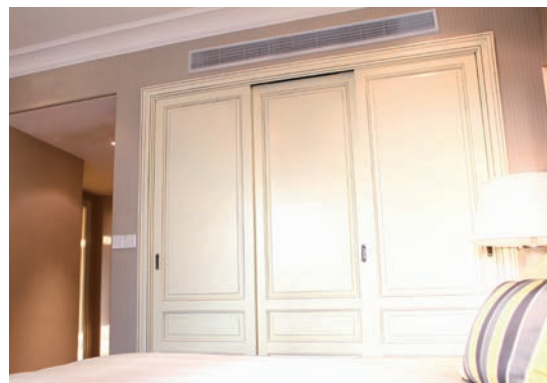
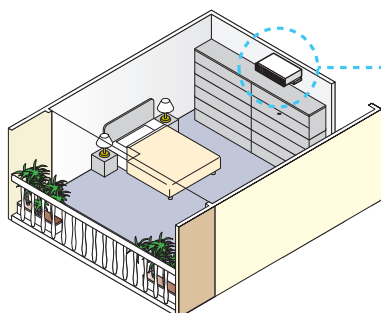
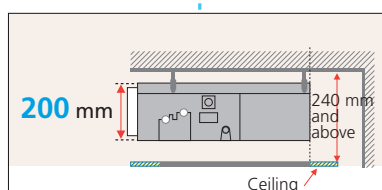
Installation flexibility

- Slim and compact design with a height of only 200 mm and the depth of only 450 mm which is suitable to install in limited spaces.

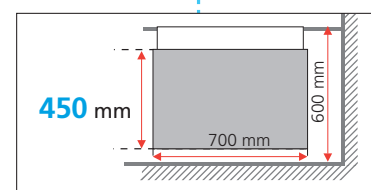
Great for residential use



*For FXDQ20-32SP models



Side view



Top view

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

Specifications

MODEL		FXDQ20SPV1	FXDQ25SPV1	FXDQ32SPV1	FXDQ40SPV1	FXDQ50SPV1	FXDQ63SPV1	
Power supply		1-phase, 220-240 V, 50 Hz						
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption *1	Cooling	kW	0.072	0.075	0.078	0.180		0.196
	Heating		0.056	0.059	0.062	0.152		0.168
Casing		Galvanised steel plate						
Airflow rate (HH/H/L)		m³/min	8.7/7.6/6.5	9.0/8.0/7.0	10.0/9.0/8.0	15.0/13.0/10.5		20.0/16.0/12.5
		cfm	307/268/229	318/282/247	353/318/282	530/459/371		706/565/441
External static pressure		Pa	30-10 *2			50-20 *2		40-20 *2
Sound level (HH/H/L) *1 *3		dB(A)	33/31/29		34/32/30	35/33/31		37/35/33
Dimensions (H×W×D)		mm	200×700×450			200×900×450		200×1,100×450
Machine weight		kg	17			20		23
Piping connections	Liquid (Flare)	mm	φ 6.4				φ 9.5	
	Gas (Flare)		φ 12.7				φ 15.9	
	Drain		VP20 (External Dia. 26/Internal Dia. 20)					

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 5.0 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 5.0 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

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

*1: Values are based on the following conditions: FXDQ20-32SP: external static pressure of 10 Pa; FXDQ40-63SP: external static pressure of 20 Pa.

*2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard".

(Factory setting is 10 Pa for FXDQ20-32SP models and 20 Pa for FXDQ40-63SP models.)

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

Middle Static Pressure Duct Type

FXSQ-PA

Middle static pressure and slim design allow flexible installations



Installation flexibility

Slim design

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

245 mm

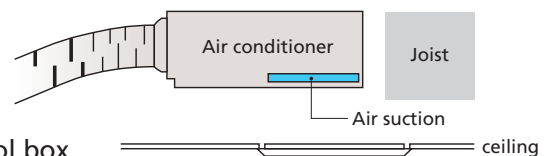


Standard DC drain pump

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

Bottom suction possible

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



Design flexibility

Adjustable external static pressure

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

Adjustable external static pressure

30 Pa*

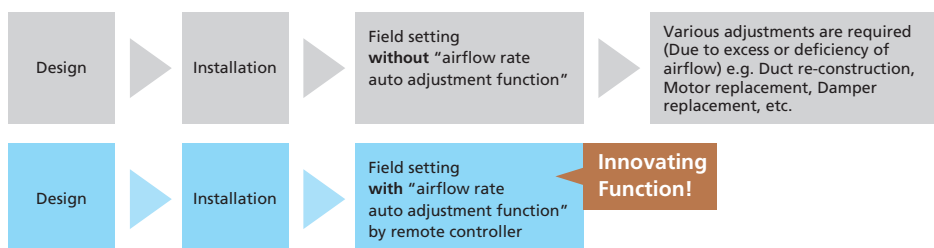
150 Pa

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

Easy installation

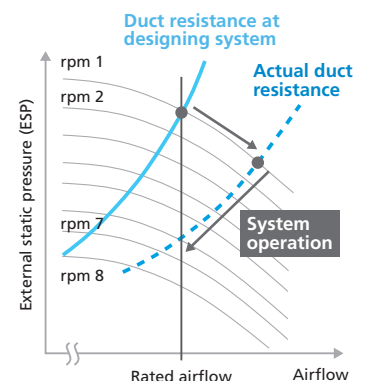
"Airflow rate auto adjustment function" at field setting (local setting by remote controller)

*This function can only be set via wired remote controller.



<Mechanism>

- During field setting, power input of DC fan is detected.
- External static pressure is estimated from power input of DC fan because PCB of FXSQ-PA has table of external static pressure vs. power input of DC fan.
- Actual duct resistance is calculated according to 1 and 2.
- Fan speed is automatically adjusted to produce rated airflow.



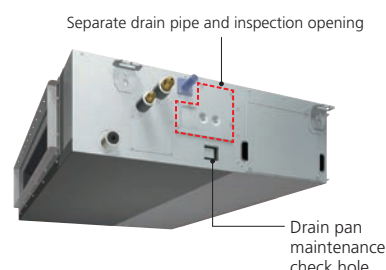
Notes: "Airflow rate auto adjustment function" can be adjusted within $\pm 10\%$ of rated airflow.
(Refer to Engineering Data Book for details)
"Airflow rate auto adjustment function" should be used at field setting only.

Comfort

- Control of the airflow rate can be selected from 3-step control. Auto airflow rate control can be selected with wired remote controller.
- Lower sound level: down to 28 dB(A)

Easy maintenance

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



Cleanliness

Silver ion anti-bacterial drain pan

- Prevents the growth of slime, bacteria, and mould that cause odours and clogging.

* Drain pan should be changed once every two to three years.



Filter has anti-mould and antibacterial treatment

Specifications

MODEL		FXSQ20PAVE	FXSQ25PAVE	FXSQ32PAVE	FXSQ40PAVE	FXSQ50PAVE
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
	kW	2.2	2.8	3.6	4.5	5.6
Heating capacity	Btu/h	8,500	10,900	13,600	17,100	21,500
	kW	2.5	3.2	4.0	5.0	6.3
Power consumption	Cooling	0.058* ¹		0.066* ¹	0.101* ¹	0.075* ¹
	Heating	0.053* ¹		0.061* ¹	0.096* ¹	0.070* ¹
Casing		Galvanised steel plate				
Airflow rate (H/M/L)	m ³ /min	9/7.5/6.5		9.5/8/7	15/12.5/10.5	17/14.5/11.5
	cfm	318/265/229		335/282/247	530/441/371	600/512/406
External static pressure	Pa	30-150 (50) * ²				50-150 (50) * ²
Sound level (H/M/L)	dB(A)	33/30/28		34/32/30	36/33/30	34/32/29
Dimensions (H×W×D)	mm	245×550×800			245×700×800	245×1,000×800
Machine weight	kg	25		27	35	
Piping connections	Liquid (Flare)	φ 6.4				
	Gas (Flare)	φ 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				
Cooling capacity	Btu/h	24,200	30,700	38,200	47,800	54,600
	kW	7.1	9.0	11.2	14.0	16.0
Heating capacity	Btu/h	27,300	34,100	42,700	54,600	61,400
	kW	8.0	10.0	12.5	16.0	18.0
Power consumption	Cooling	0.106* ¹	0.126* ¹	0.151* ¹	0.206* ¹	0.222* ¹
	Heating	0.101* ¹	0.121* ¹	0.146* ¹	0.201* ¹	0.217* ¹
Casing		Galvanised steel plate				
Airflow rate (H/M/L)	m ³ /min	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26	39/33.5/28
	cfm	741/618/512	812/688/565	1,130/953/794	1,306/1,112/918	1,377/1,183/988
External static pressure	Pa	50-150 (50) * ²				50-140 (50) * ²
Sound level (H/M/L)	dB(A)	36/32/29	37.5/34/30	39/35/32	42/38.5/35	43/40/36
Dimensions (H×W×D)	mm	245×1,000×800		245×1,400×800	245×1,550×800	
Machine weight	kg	35	37	46	47	52
Piping connections	Liquid (Flare)	φ 9.5				
	Gas (Flare)	φ 15.9				
	Drain	VP25 (External Dia. 32/Internal Dia. 25)				

Notes:

Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height 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.

Middle-High Static Pressure Duct Type

FXMQ-PA

Middle and high static pressure allows for flexible duct design



Design flexibility

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

Adjustable external static pressure

30 Pa* **200 Pa**

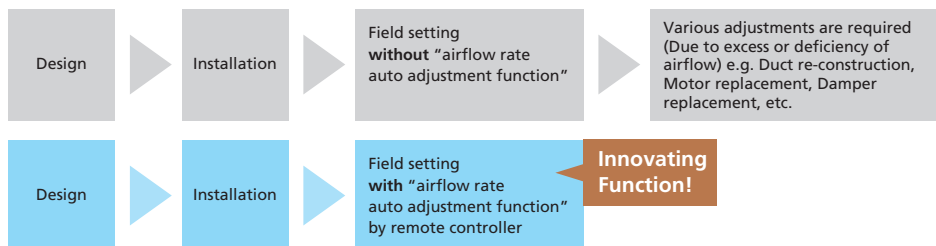
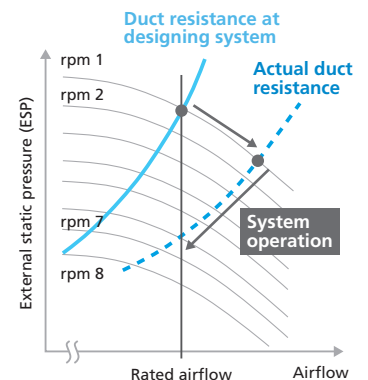
*30 Pa – 100 Pa for FXMQ20PA-32PA
 *30 Pa – 160 Pa for FXMQ40PA
 *50 Pa – 200 Pa for FXMQ50PA-125PA
 *50 Pa – 140 Pa for FXMQ140PA



Easy installation

“Airflow rate auto adjustment function” at field setting
 (local setting by remote controller)

*This function is not available with FXMQ140PAVE.
 *This function can only be set via wired remote controller.



<Mechanism>

1. During field setting, power input of DC fan is detected.
2. External static pressure is estimated from power input of DC fan because PCB of FXMQ-PA has table of external static pressure vs. power input of DC fan.
3. Actual duct resistance is calculated according to 1 and 2.
4. Fan speed is automatically adjusted to produce rated airflow.

Notes: “Airflow rate auto adjustment function” can be adjusted within $\pm 10\%$ of rated airflow. (Refer to Engineering Data Book for details)
 “Airflow rate auto adjustment function” should be used at field setting only.

- 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.

Comfort

- 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.
- Low operation sound level: down to 29 dB(A)

Energy saving

- DC fan motor is used to realise energy-saving operation.

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

Cleanliness

Silver ion anti-bacterial drain pan

Prevents the growth of slime, bacteria, and mould that cause odours and clogging.

*Drain pan should be changed once every two to three years.



Filter has anti-mould and antibacterial treatment

Specifications

MODEL			FXMQ20PAVE	FXMQ25PAVE	FXMQ32PAVE	FXMQ40PAVE	FXMQ50PAVE
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
	kW		2.2	2.8	3.6	4.5	5.6
Heating capacity	Btu/h		8,500	10,900	13,600	17,100	21,500
	kW		2.5	3.2	4.0	5.0	6.3
Power consumption	Cooling	kW	0.056 *1		0.060 *1	0.151 *1	0.128 *1
	Heating	kW	0.044 *1		0.048 *1	0.139 *1	0.116 *1
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)	m ³ /min		9/7.5/6.5		9.5/8/7	16/13/11	18/16.5/15
	cfm		318/265/229		335/282/247	565/459/388	635/582/530
External static pressure			30-100 (50) *2			30-160 (100) *2	50-200 (100) *2
Sound level (HH/H/L)			33/31/29		34/32/30	39/37/35	41/39/37
Dimensions (HxWxD)			300x550x700			300x700x700	300x1,000x700
Machine weight			25			27	35
Piping connections	Liquid (Flare)		ø 6.4				
	Gas (Flare)	mm	ø 12.7				
	Drain		VP25 (External Dia. 32/Internal Dia. 25)				

MODEL			FXMQ63PAVE	FXMQ80PAVE	FXMQ100PAVE	FXMQ125PAVE	FXMQ140PAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		Btu/h	24,200	30,700	38,200	47,800	54,600
		kW	7.1	9.0	11.2	14.0	16.0
Heating capacity		Btu/h	27,300	34,100	42,700	54,600	61,400
		kW	8.0	10.0	12.5	16.0	18.0
Power consumption	Cooling	kW	0.138 *1	0.185 *1	0.215 *1	0.284 *1	0.405 *1
	Heating		0.127 *1	0.173 *1	0.203 *1	0.272 *1	0.380 *1
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)		m³/min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
		cfm	688/618/565	883/794/706	1,130/953/812	1,377/1,165/988	1,624/1,377/1,130
External static pressure		Pa	50-200 (100) *2				50-140 (100) *2
Sound level (HH/H/L)		dB(A)	42/40/38	43/41/39		44/42/40	46/45/43
Dimensions (H×W×D)		mm	300×1,000×700			300×1,400×700	
Machine weight		kg	35		45		46
Piping connections	Liquid (Flare)	mm	ø 9.5				
	Gas (Flare)		ø 15.9				
	Drain		VP25 (External Dia. 32/Internal Dia. 25)				

Notes: Specifications are based on the following conditions;

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

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

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

*2: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32PA), thirteen (FXMQ40PA), fourteen (FXMQ50-125PA) or ten (FXMQ140PA) levels of control.

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

High Static Pressure Duct Type

FXMQ-P

High static pressure allows for flexible duct design.



Design flexibility

Adjustable external static pressure

- Using a DC fan motor, the external static pressure can be controlled within a range of 50 Pa to 250 Pa.

Adjustable external static pressure

50 Pa

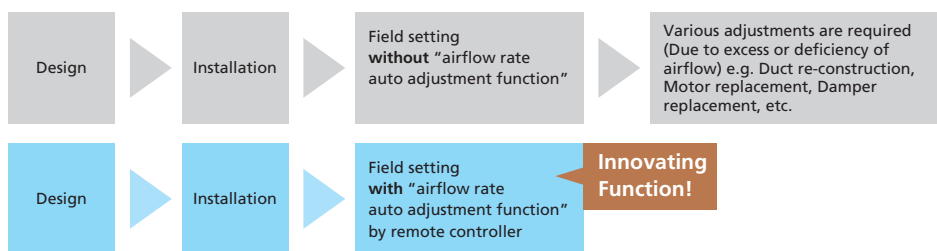
250 Pa



Easy installation

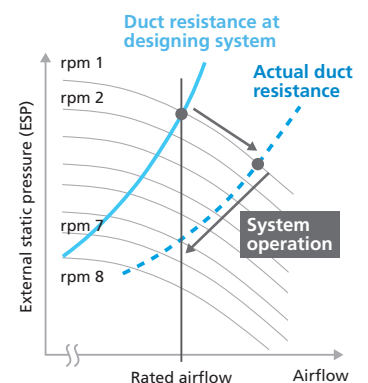
"Airflow rate auto adjustment function" at field setting (local setting by remote controller)

*This function can only be set via wired remote controller.



<Mechanism>

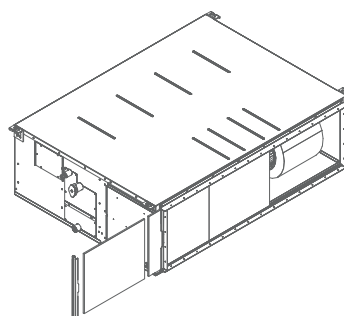
1. During field setting, power input of DC fan is detected.
2. External static pressure is estimated from power input of DC fan because PCB of FXMQ-P has table of external static pressure vs. power input of DC fan.
3. Actual duct resistance is calculated according to 1 and 2.
4. Fan speed is automatically adjusted to produce rated airflow.



Notes: "Airflow rate auto adjustment function" can be adjusted within $\pm 10\%$ of rated airflow. (Refer to Engineering Data Book for details)
"Airflow rate auto adjustment function" should be used at field setting only.

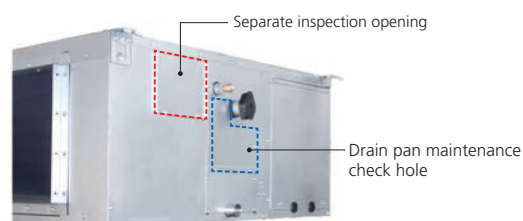
Built-in pre-filter slot

- To cater for easy installation of filter at site, a filter rail is available at the return flange.

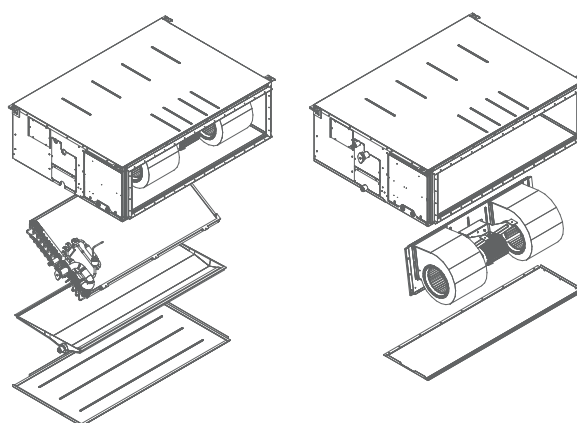


Easy maintenance

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



- Heat exchanger, drain pan and fan deck can be easily accessed and removed from bottom for maintenance.



Specifications

MODEL			FXMQ200PVM	FXMQ250PVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz	
Cooling capacity	Btu/h		76,400	95,500
	kW		22.4	28.0
Heating capacity	Btu/h		85,300	107,500
	kW		25.0	31.5
Power consumption	Cooling	kW	0.55 *1	0.67 *1
	Heating	kW	0.54 *1	0.65 *1
Casing			Galvanised steel plate	
Airflow rate (HH/H/L)	m³/min		74/61/50	84/71/58
	cfm		2,612/2,153/1,765	2,965/2,506/2,047
External static pressure	Pa		50-250 (150) *2	50-250 (150) *2
Sound level (HH/H/L)	dB(A)		42/38/35	44/40/37
Dimensions (H × W × D)	mm		470×1,490×1,100	470×1,490×1,100
Machine weight	kg		95	105
Piping connections	Liquid (Flare)	mm	φ 9.5	
	Gas (Flange)		φ 19.1	φ 22.2
	Drain		BSP1"	

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 - Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Height 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 fifteen levels of control.

These values indicate the lowest and highest possible static pressures. The standard static pressure is 150 Pa.

4-way Flow Ceiling Suspended Type

FXUQ-A

Slim and stylish design, optimum air distribution, installation without ceiling cavity



Slim and stylish design

- Unit body and suction panel have round shapes that form a slim design, that fits various locations such as the ceilings without cavity.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- All models have a unified slim height of 198 mm that gives a similar impression even when models with different capacities are installed in the same area.

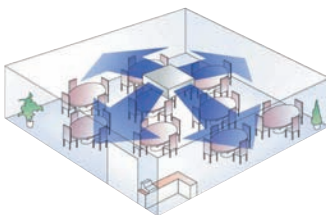
Comfort

- Airflow direction adjustment can be individually adjusted for each air discharge outlet to deliver optimal air distribution. 5 directions of airflow and auto-swing can be selected with BRC1E63 or BRC1H63W(K).
- Control of the airflow rate can be selected from 3-step control. Auto airflow rate control can be selected with wired remote controller.

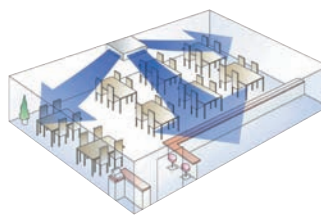
Flexible installation

- Drain pump is equipped as a standard accessory with 600 mm lift.
- Depending on installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.

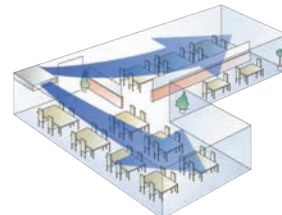
4-way flow



3-way flow



L-shaped 2-way flow



Cleanliness

Silver ion anti-bacterial drain pan

- Prevents the growth of slime, bacteria, and mould that cause odours and clogging.

* Drain pan should be changed once every two to three years.



Filter has anti-mould and antibacterial treatment



Specifications

MODEL			FXUQ71AVEB	FXUQ100AVEB
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz	
Cooling capacity		Btu/h	27,300	38,200
		kW	8.0	11.2
Heating capacity		Btu/h	30,700	42,700
		kW	9.0	12.5
Power consumption	Cooling	kW	0.090	0.200
	Heating		0.073	0.179
Casing			Fresh white	
Airflow rate (H/M/L)		m³/min	22.5/19.5/16	31/26/21
		cfm	794/688/565	1,094/918/741
Sound level (H/M/L)		dB(A)	40/38/36	47/44/40
Dimensions (H×W×D)		mm	198×950×950	
Machine weight		kg	26	27
Piping connections	Liquid (Flare)	mm	ϕ 9.5	
	Gas (Flare)		ϕ 15.9	
	Drain		VP20 (External Dia. 26/Internal Dia. 20)	

Notes:

Specifications are based on the following conditions;

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

Ceiling Suspended Type

FXHQ-MA / B

FXHQ32 / 63 / 100MA

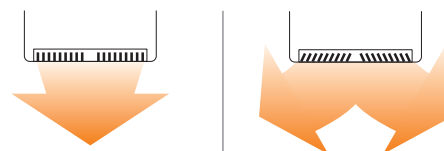
FXHQ125 / 140B

Slim body with quiet and wide airflow



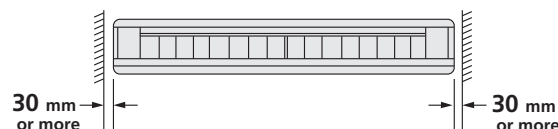
Comfort

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

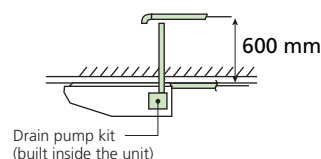


Installation flexibility

- Flexible installation
The unit fits more snugly into tight spaces.
- Drain pump kit (option) can be easily incorporated.
Drain pipe connection can be done inside the unit.
Refrigerant and drain pipe outlets are at the same opening.
- All wiring and internal servicing can be done from under the unit.

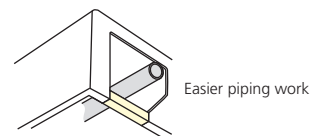


*Water used in the test-run can be drained from the air discharge opening rather than from the side as was formerly the case.



New 125 / 140 models provide greater capacity for large spaces

- The technology of the DC fan motor, wide sirocco fan, and large heat exchanger combine for greater airflow and quiet operation.
- Sophisticated design: Flap neatly closes when not in use.
- Suitable for high ceilings: maximum 4.3 m
- Control of the airflow rate can be selected from 3-step control.
- Drain pump kit (option) includes a silver ion antibacterial agent that assists in preventing the growth of slime, bacteria, and mould that cause smells and clogging.
- The rear side removable frame allows ease of access for piping work.



Cleanliness

Streamer filter clean unit (Option) for new 125 / 140 models

See page 7 - 8

Irradiates Streamer when the fan and air conditioning operation are stopped.
Streamer fumigates the cabin and sterilizes the filter.

Remarks:

- 1) Only the stylish remote controller BRC1H63W(K) can be connected for ON/OFF operation of the streamer.
- 2) The Streamer function operates only when the fan and air conditioning operation are stopped.
The maximum operation of Streamer is 180 minutes per day.



BAPWS55A61





Specifications

MODEL			FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE	FXHQ125BVM	FXHQ140BVM
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz			1-phase, 220-240 V/220-230 V, 50/60 Hz	
Cooling capacity		Btu/h	12,300	24,200	38,200	48,000	52,900
		kW	3.6	7.1	11.2	14.1	15.5
Heating capacity		Btu/h	13,600	27,300	42,700	54,600	58,000
		kW	4.0	8.0	12.5	16.0	17.0
Power consumption	Cooling	kW	0.111	0.115	0.135	0.168	0.181
	Heating		0.111	0.115	0.135	0.168	0.181
Casing			White (10Y9/0.5)			Sheet Metal / White	
Airflow rate (H/M/L)		m³/min	12/-/10	17.5/-/14	25/-/19.5	34/26/20	36/27/20
		cfm	424/-/353	618/-/494	883/-/688	1,200/918/706	1,271/953/706
Sound level (H/M/L)		dB(A)	36/-/31	39/-/34	45/-/37	46/41/37	48/42/37
Dimensions (H × W × D)		mm	195×960×680	195×1,160×680	195×1,400×680	235×1,590×690	
Machine weight		kg	24	28	33	41	
Piping connections	Liquid (Flare)	mm	φ 6.4	φ 9.5			
	Gas (Flange)		φ 12.7	φ 15.9			
	Drain		VP20 (External Dia. 26/Internal Dia. 20)				

Notes: Specifications are based on the following conditions;

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

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

Wall Mounted Type

New FXAQ-B

Slim and stylish flat panel design harmonised with your interior décor



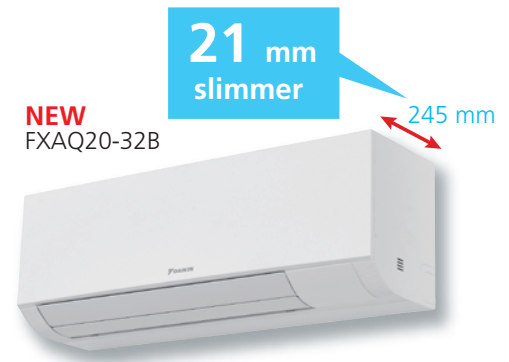
Slim and stylish design

- Slim and stylish flat panel design creates a graceful harmony that enhances any interior space.

Conventional
FXAQ20-32A



NEW
FXAQ20-32B

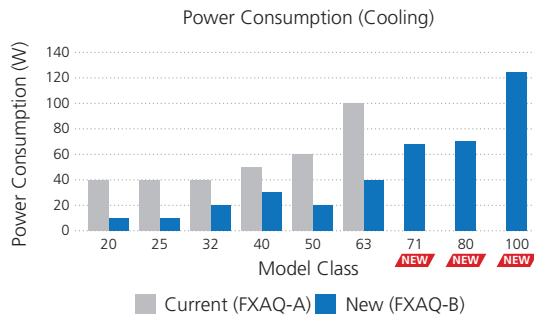
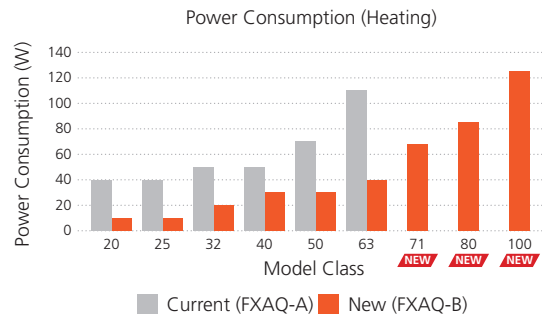


Wide capacity lineup

New 71/80/100 models provide greater capacity for large spaces.

Energy savings

New FXAQ-B provides greater energy saving due to the significantly lower power consumption.



Cleanliness

Streamer discharge unit (Option) [See page 7 - 8](#)

Patented Streamer Technology decomposes and removes allergens



Streamer discharge attacks bacteria, mold and virus captured on the filter by irradiating them with an advanced plasma electric discharge.

The streamer function operates automatically without light indication when the air conditioner is on and deactivates when the air conditioner is off.

Air quality filter (Enzyme blue / PM2.5) (Option)

Combination of the Enzyme blue deodorizing filter and the PM2.5 dust collection filter



Enzyme blue deodorizing filter traps fine particles, breaks down odors, and deactivates bacteria and viruses.

PM2.5 filter removes inhalable particles such as dust, pollen, and mold ($\geq 2.5 \mu\text{m}$).



Comfort

Lower sound level

- Whisper quiet in operation, with sound levels as low as 22 dB(A)*

*Sound level for FXAQ20-25B during heating operation

- New fan and operate valve with bubble crusher help enable low operation sound.

Bubble controlling technology

New motor-operated valve features an integrated rectifying plate that stabilizes refrigerant flow by suppressing turbulence and bubbles, resulting in smoother operation and reduced flow noise.

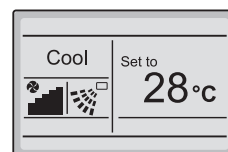


5-step airflow control

Control of airflow rate is available up to 5-step.

Auto airflow rate is also available.

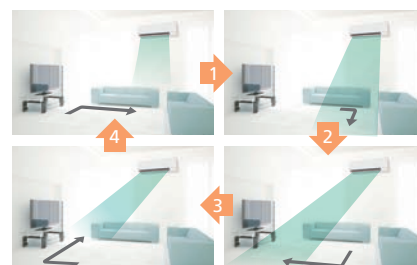
This wide range allows you to conveniently control the fan according to your individual needs.



3D airflow*

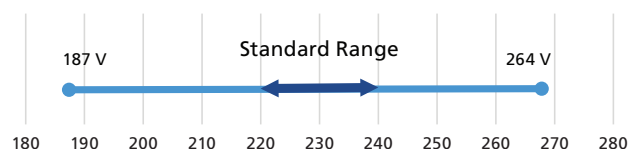
3D airflow combines vertical and horizontal Auto-Swing to reduce indoor temperature fluctuation. the entire room, providing consistent cooling or heating even in large areas.

*3D airflow is not available with BRC2E61.



Voltage fluctuation guard

FXAQ-B series operates from 187 V to 264 V due to the new PCB, increasing durability and resistance to power surges.



Specifications

MODEL		FXAQ20BVM	FXAQ25BVM	FXAQ32BVM	FXAQ40BVM	FXAQ50BVM	FXAQ63BVM	FXAQ71BVM	FXAQ80BVM	FXAQ100BVM	
Power supply		1-phase, 220-240 V/220-230 V, 50/60 Hz									
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	27,300	30,700	38,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	30,700	34,100	38,200
		kW	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	11.2
Power consumption	Cooling	kW	0.010	0.010	0.020	0.030	0.020	0.040	0.068	0.070	0.125
	Heating		0.010	0.010	0.020	0.030	0.030	0.040	0.068	0.085	0.125
Casing / Colour		Resin / White N9.5									
Airflow rate (H/HM/M/ML/L)		m³/min	7/6.6/6.2/ 5.7/5.3	8/7.4/6.8/ 6.1/5.5	10/9.2/8.3/ 7.2/6.5	13.5/11.7/11/ 9.4/7.7	14/13/12/ 11/10	18/16.5/14.9/ 13.2/11.8	19.5/18.1/16.7/ 15.3/13.8	27/24/21/ 20/19	31/27/23/ 21/19
		cfm	247/233/219/ 201/187	282/261/240/ 215/194	353/325/293/ 254/229	477/413/388/ 332/272	494/459/424/ 388/353	635/582/526/ 466/417	688/639/590/ 540/487	953/848/742/ 706/671	1,094/953/812/ 742/671
Sound level (H/HM/M/ML/L)	Cooling	dB(A)	28.5/27/26/ 25/24	29/28/26/ 25/24	34/31/29/ 26/25	41/37/35/ 31/28	39/37/35/ 32/31	41/39/37/ 34/32	47/44/39/ 37/34	47.5/46/44/ 43/41	53.5/50/46/ 43.5/41
	Heating		28/27/25/ 24/22	29/28/26/ 24/22	34/31/28/ 26/24	40/37/34/ 31/28	39/37/35/ 32/30	43/40/37/ 34/32	48/44/40/ 37/34	50/47/44/ 43/41	53.5/50/46/ 43.5/41
Dimensions (H×W×D)		mm	295×858×245			295×1,120×245			325×1,260×260		
Machine weight		kg	12			16			21		
Piping connections	Liquid	mm	ϕ 6.4				ϕ 9.5				
	Gas		ϕ 12.7				ϕ 15.9				
	Drain		VP14 (External Dia. 16, Internal Dia. 14)								

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

Floor Standing Type

FXLQ-MA

Suitable for perimeter zone air conditioning



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

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

Specifications

MODEL			FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.049		0.090		0.110	
	Heating		0.049		0.090		0.110	
Casing			Ivory white (5Y7.5/1)					
Airflow rate (H/L)		m³/min	7/6		8/6	11/8.5	14/11	16/12
		cfm	247/212		282/212	388/300	494/388	565/424
Sound level (H/L)	220 V	dB(A)	38/35			41/36	42/37	43/38
	240 V		39/36			43/37	44/38	45/39
Dimensions (H × W × D)		mm	600×1,000×222		600×1,140×222		600×1,420×222	
Machine weight		kg	25		30		36	
Piping connections	Liquid (Flare)	mm	ϕ 6.4					ϕ 9.5
	Gas (Flare)		ϕ 12.7					ϕ 15.9
	Drain		210.D.					

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height 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.
- A long-life filter (maintenance free up to one year*) is equipped as standard accessory.

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

Specifications

MODEL		FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE	
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz						
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
	kW	2.2	2.8	3.6	4.5	5.6	7.1	
Heating capacity	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	
	kW	2.5	3.2	4.0	5.0	6.3	8.0	
Power consumption	Cooling	kW	0.049		0.090		0.110	
	Heating		0.049		0.090		0.110	
Casing		Galvanised steel plate						
Airflow rate (H/L)	m³/min	7/6		8/6	11/8.5	14/11	16/12	
	cfm	247/212		282/212	388/300	494/388	565/424	
Sound level (H/L)	220 V	dB(A)	38/35			41/36	42/37	43/38
	240 V		39/36			43/37	44/38	45/39
Dimensions (H × W × D)		mm	610×930×220		610×1,070×220		610×1,350×220	
Machine weight		kg	19		24		29	
Piping connections	Liquid (Flare)	mm	ϕ 6.4					ϕ 9.5
	Gas (Flare)		ϕ 12.7					ϕ 15.9
	Drain		210.D.					

Notes: Specifications are based on the following conditions;

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

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

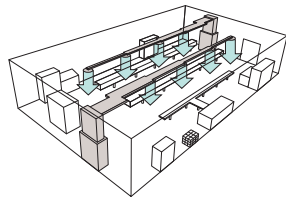
Floor Standing Duct Type

FXVQ-N

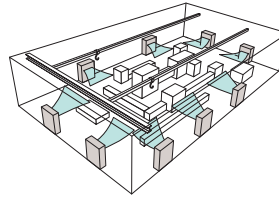
Large airflow type for large spaces



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



Duct connection airflow type



Direct airflow type

- Adding the plenum chamber (option) allows for simple operation with direct airflow.

*Note that the operation sound increases by approximately 5dB(A).

- The belt drive system allows for use of air discharge outlets in various shapes as well as long ducts.

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

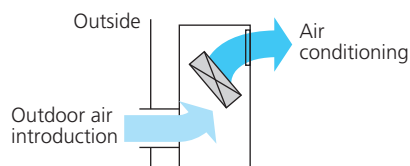
*8 hr/day, 26 day/month. For dust concentration of 0.15 mg/m³

- A wide range of optional accessories are available such as high-efficiency filters.

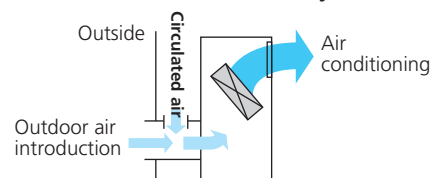
- Outdoor air intake mode is useable as an outdoor-air processing air conditioner.

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

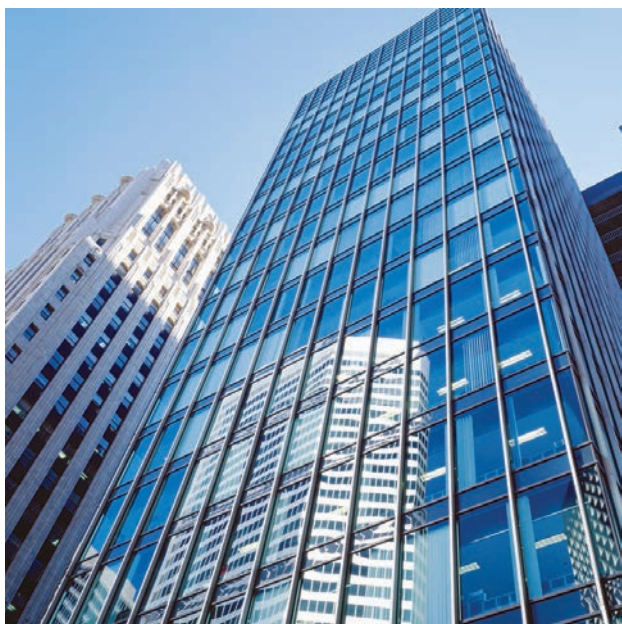
All-fresh (using outdoor air only) system



Return + Outdoor air mixed system



* Air introduced from the outside and circulated air must be mixed in the air conditioner primary side before introduction into the air conditioner.



Specifications

MODEL			FXVQ125NY1	FXVQ200NY1	FXVQ250NY1	FXVQ400NY1	FXVQ500NY1	FXVQ500NY16
Power supply			3-phase 4-wire system, 380–415 V, 50 Hz					
Cooling capacity		Btu/h	47,800	76,400	95,500	154,000	191,000	
		kW	14.0	22.4	28.0	45.0	56.0	
Heating capacity		Btu/h	54,600	85,300	107,500	171,000	215,000	
		kW	16.0	25.0	31.5	50.0	63.0	
Power consumption	Cooling	kW	0.53	1.33	1.61	3.97	2.62	4.70
	Heating		0.53	1.33	1.61	3.97	2.62	4.70
Casing colour			Ivory white (5Y7.5/1)					
Dimensions (H × W × D)		mm	1,670×750×510	1,670×950×510	1,670×1,170×510	1,900×1,170×720	1,900×1,470×720	
Machine weight		kg	118	144	169	236	281	306
Sound level *1		dB(A)	52	56	60	65	62	66
Piping connections	Liquid	mm	φ 9.5 (Brazing)			φ 12.7 (Brazing)	φ 15.9 (Brazing)	
	Gas	mm	φ 15.9 (Brazing)	φ 19.1 (Brazing)	φ 22.2 (Brazing)	φ 28.6 (Brazing)		
	Drain	mm	Rp1 (PS 1B internal thread)					
Air filter	Type		Long-life filter (anti-mould resin net)					
Fan	Motor output	kW	0.75	1.5		3.7		5.5
	Airflow rate	m³/min	43	69	86	134	165	172
		cfm	1,518	2,436	3,036	4,730	5,825	6,072
	External static pressure *2	Pa	152	217	281	420	142	390
	Drive system		Belt drive system					

Notes: Specifications are based on the following conditions;

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

*1: Sound level : measured when the air discharge outlet duct (2 m) is attached (anechoic chamber conversion value).

It increases by approximately 5 dB(A) when the plenum chamber is installed to deliver direct airflow.

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

Clean Room Air Conditioner

FXB(P)Q-P

Suitable for hospitals and other clean spaces



■ Easily provides the high cleanliness environment required by various industries

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

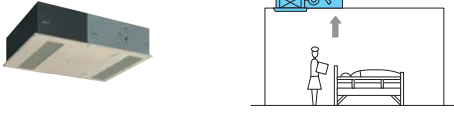
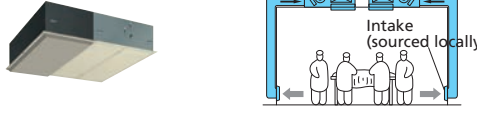
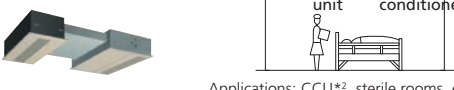
■ Select the air flow system and installation method to match the layout and purpose of the room

Two types of clean 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)

Type		Ceiling intake type (high speed contracted flow/high ceiling model)	Floor-level intake type (gentle wind distribution/high cleanliness class model)
Features		Construction work is simple and a ceiling installation is possible. Dust filtering and air-conditioning can be started immediately.	Easy to increase the cleanliness and air-conditioning effect. A low flow speed prevents drying of the affected part and the experience of drafts.
Cleanliness class*1		100,000 to 10,000	10,000
Wind speed		1.0 m/s or higher	Approximately 0.5 m/s
Blow method	Integrated outlet unit model	<ul style="list-style-type: none"> Concentrated air conditioning centered directly under the unit Easy installation  <p>Applications: Surgery prep rooms, recovery rooms, nurse stations, etc.</p>	<ul style="list-style-type: none"> Total air conditioning with an emphasis on cleanliness  <p>Applications: Operating theatres, delivery rooms, etc.</p>
	Separate outlet unit model	<ul style="list-style-type: none"> Somewhat concentrated air conditioning centered directly under the outlet Can provide air conditioning in rooms with irregular shapes  <p>Applications: CCU*2, sterile rooms, etc.</p>	<ul style="list-style-type: none"> Total air conditioning with an emphasis on cleanliness Maintenance possible from a different room  <p>Applications: Premature nurseries, newborn nurseries, ICU*3, etc.</p>

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

* 2. CCU (Cardiac Care Unit). A ward dedicated to the admission of patients with myocardial infarctions and other heart diseases.

* 3. ICU (Intensive Care Unit). A ward for the careful treatment and nursing of patients with serious illnesses, injuries, or recovering from operations.

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

The floor-level intake system has a low flow speed of approximately 0.5 m/s.

■ 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.

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

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.

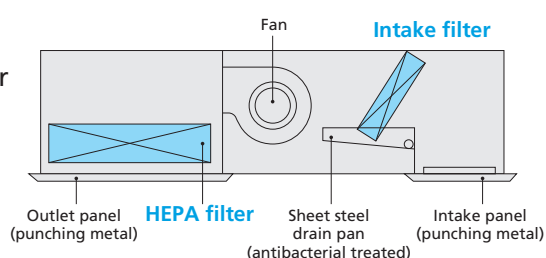
Antibacterial fiber used in the intake filter

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).



Specifications

Type	Integrated outlet unit model				Separate outlet unit model
MODEL	Indoor unit	FXBQ40PVE	FXBQ50PVE	FXBQ63PVE	FXBPQ63PVE
	Outlet unit	Integrated with the indoor unit			BAF82A63
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz			
Cooling capacity	Btu/h	15,400	19,100		24,200
	kW	4.5	5.6		7.1
Heating capacity	Btu/h	17,100	21,500		27,300
	kW	5.0	6.3		8.0
Power consumption	Cooling	0.31			0.45
	Heating	0.31			0.45
Intake filter efficiency *1		70% by gravimetric method			
Outlet HEPA filter efficiency *2		99.97% by DOP method *5			
Indoor unit weight	kg	140 *3		185 *3	120 *6
Casing		Galvanised steel plate			
Airflow rate (H/L)	m ³ /min	19.5/17.5		26/22.5	
	cfm	688/618		918/794	
Sound level (H/L) *4	dB(A)	44/42			
Dimensions (H×W×D)	mm	492×1,788×1,000		492×1,788×1,300	492×1,078×1,300
Outlet unit weight	kg		—		65 *3
Piping connections	Liquid (Flare)	φ 6.4			φ 9.5
	Gas (Flare)	φ 12.7			φ 15.9
	Drain	PT1B			
Filter(Optional)	HEPA filter	BAFH82A50			BAFH82A63
Panel (Option)	Ceiling intake type	BYB82A50C			BYB82A63CP
	Floor-level intake type	BYB82A50W			BYB82A63WP

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height 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.
- 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.

BS Units

BS Units for Heat Recovery

■ BS unit (Single type/Multi type)

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

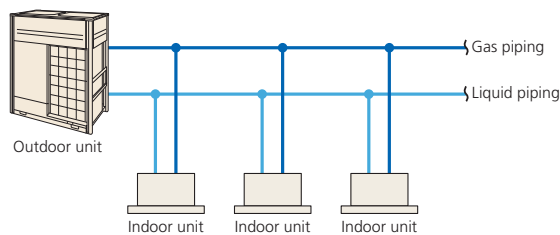


Single BS unit

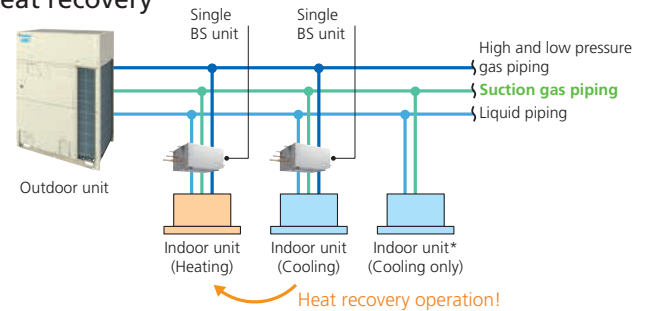


Multi BS unit

Heat pump

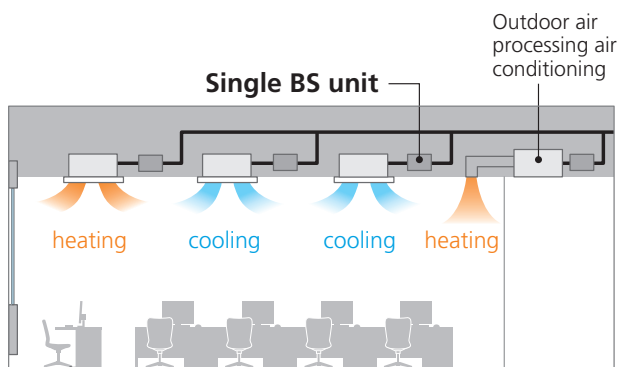


Heat recovery



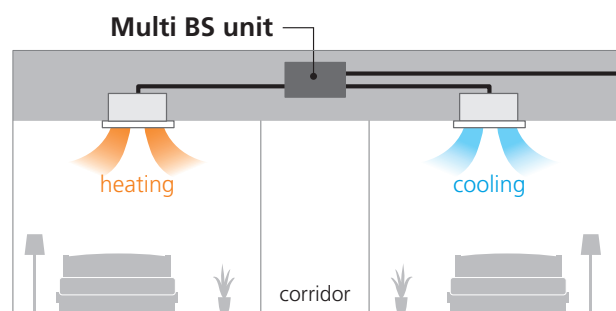
* For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outdoor units.

■ Application reference



Winter season (Office Building)

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



Winter season (Hotel)

- Able to cater to individual heating and cooling requirement

BS Unit Lineup

Single and multi BS unit allow greater design flexibility

Single BS unit



Drainless Type

BSQ100AVE
BSQ160AVE
BSQ250AVE

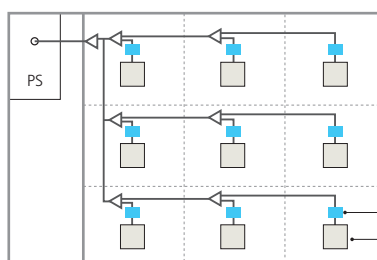
■ No need for drain piping

- Easy installation
- Less risk of water leakage

■ Compact and flexible installation

■ Flexible design

■ Low noise



Recommended for large spaces or areas subject to frequent layout change

Single BS unit
Indoor unit

Specifications — Single BS Unit

MODEL						
			BSQ100AVE	BSQ160AVE	BSQ250AVE	
Power supply			1-phase, 220-240/220 V, 50/60 Hz			
No. of branches			1			
Total capacity index of connectable indoor units			20 to 100	More than 100 but 160 or less	More than 160 but 250 or less	
No. of connectable indoor units			Max. 5	Max. 8	Max. 8	
Casing			Galvanised steel plate			
Dimensions (HxWxD)		mm	207×388×326			
Piping connections	Indoor Unit	Liquid	mm	φ9.5 (Brazing) ★ ¹	φ9.5 (Brazing)	φ9.5 (Brazing)
		Gas		φ15.9 (Brazing) ★ ¹	φ15.9 (Brazing) ★ ²	φ22.2 (Brazing) ★ ³
	Outdoor Unit	Liquid	mm	φ9.5 (Brazing)	φ9.5 (Brazing)	φ9.5 (Brazing)
		Suction gas		φ15.9 (Brazing)	φ15.9 (Brazing) ★ ²	φ22.2 (Brazing) ★ ³
		High and low pressure gas		φ12.7 (Brazing)	φ12.7 (Brazing) ★ ²	φ19.1 (Brazing) ★ ³
	Machine weight		kg	11	11	14
Sound level		dB(A)	35(40) ★ ⁴	41(45) ★ ⁴	41(45) ★ ⁴	

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

BS Units

Multi BS unit



Drainless Type

BS4Q14BVM (4-branch)
BS6Q14BVM (6-branch)
BS8Q14BVM (8-branch)
BS10Q14BVM (10-branch)
BS12Q14BVM (12-branch)

Standard Type

BS16Q14AVM (16-branch)

■ No need for drain piping (Drainless type only)

- Easy installation
- Less risk of water leakage

■ Wide range lineup

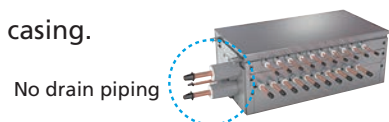
- Max. 16 branches with a single unit up to 30 HP

■ Individual control and cooling/heating changeover for each branch

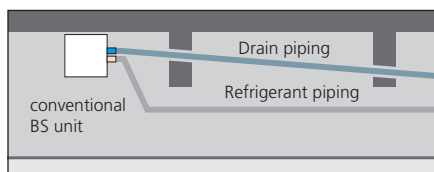
■ Installation cost reduction by reduction of brazing points.

Drainless function enables a drastic reduction of on-site work

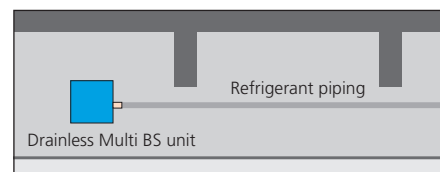
Drain is eliminated with the use of foam insulation inside the casing.



Conventional Multi BS unit

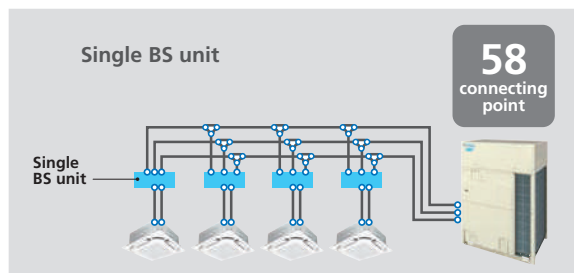


New Drainless Multi BS unit



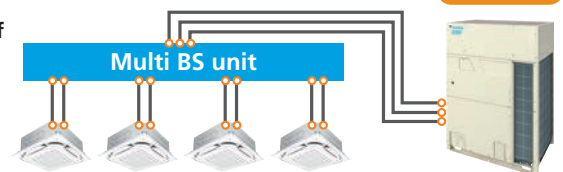
Since no drain piping is required, it can be installed flexibly, and installation costs can be significantly reduced.

Multi BS units significantly reduce installation work and construction costs



Multi BS unit

In case of multi BS unit



* 16-branch model requires drain pipe

Greater design flexibility achieved by increasing the connection capacity range

Multi BS unit



Increased to

16.0kW

Multi BS unit

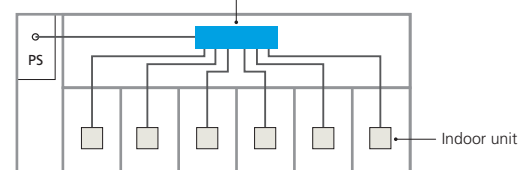
Joint kit (Option)



By merging two branches adaptable up to

28.0kW

Multi BS unit



Recommended for areas which have many small rooms

Specifications — Multi BS Unit

MODEL										
			BS4Q14BVM	BS6Q14BVM	BS8Q14BVM	BS10Q14BVM	BS12Q14BVM	BS16Q14AVM		
Power supply			1-phase, 220-240 V / 220-230 V,50 / 60 Hz							
No. of branches			4	6	8	10	12	16		
Capacity index of connectable indoor units of branch			Max. 140							
Capacity index of connectable indoor units			Max. 400	Max. 600	Max. 750					
No. of connectable indoor units per branch			5							
Casing			Galvanised steel plate							
Dimensions (HxWxD)			mm	298x370x480	298x580x480	298x820x480	298x1060x430			
Piping connections	Indoor Unit	Liquid	mm	φ6.4, φ9.5 Brazing★ ¹						
		Gas		φ12.7, φ15.9 Brazing★ ¹						
	Outdoor Unit	Liquid	mm	φ9.5 Brazing★ ²	φ12.7 Brazing★ ²	φ12.7 Brazing (φ15.9)★ ²	φ15.9 Brazing★ ²	φ15.9 Brazing (φ19.1)★ ²	φ19.1 Brazing★ ²	
		Suction gas		φ22.2 Brazing (φ19.1)★ ²	φ28.6 Brazing★ ²		φ28.6 Brazing(φ34.9)★ ²		φ34.9 Brazing★ ²	
		High and low pressure gas		φ19.1 Brazing (φ15.9)★ ²	φ19.1 Brazing (φ22.2)★ ²	φ19.1 Brazing (φ22.2,28.6)★ ²	φ28.6 Brazing★ ²			
	Machine weight			kg	22	31	33	46	48	50
Sound level			dB(A)	38(45)★ ³	39(47)★ ³		40(48)★ ³		41(49)★ ³	
Drain pipe size			mm	Not necessary						VP20(External Dia. 26/Internal Dia. 20)

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

Air Handling Unit

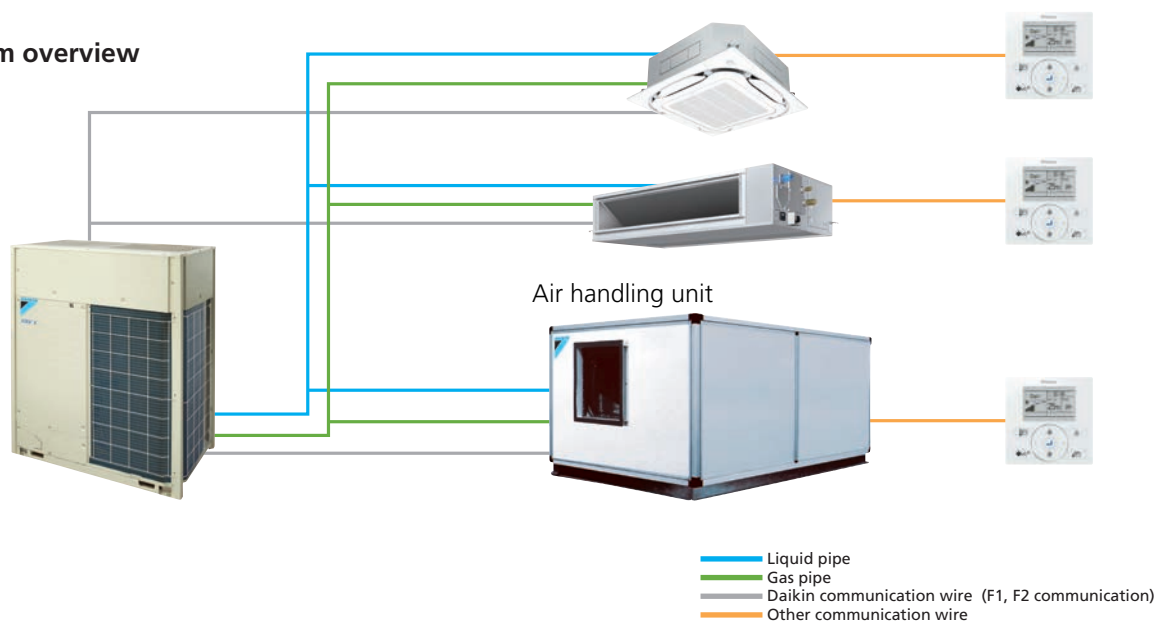
Integrate your air handling unit in a total solution for large size spaces such as factories and large stores.

- 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



AHUR
Capacity range : 6 – 120 HP

System overview



Daikin air handling units can be connected to **VRV** systems.

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

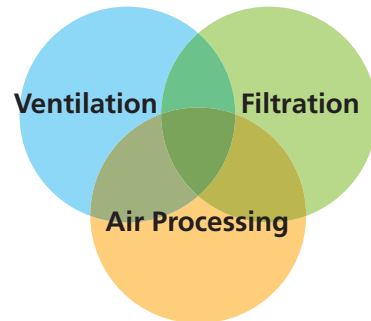


Air Treatment Equipment

Daikin's air treatment systems creating a higher IAQ

Components of indoor air quality

Air Conditioning +



A recent trend rapidly gaining popularity is for air treatment to be required as well as air conditioning. Daikin has a lineup of 3 products that provide adequate IAQ, according to the client's needs.

Our Solutions for Indoor Air Quality Problems

You may think cool and comfortable air-conditioned room is enough, but...



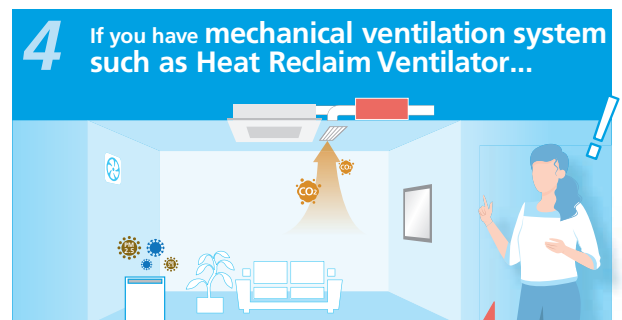
Virus and CO₂ will accumulate in the room.



PM2.5 and humidity will come in, and it will become hot.

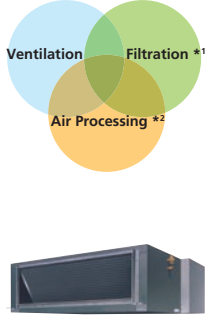
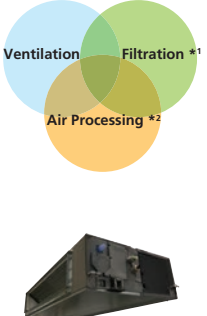
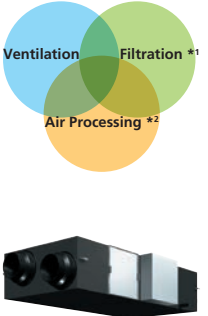


Air conditioning regulates heat and humidity, and air purifier can remove PM2.5, but CO₂ remains high. It is hard to concentrate.



Finally, the CO₂ has been removed, and a comfortable space has been achieved!

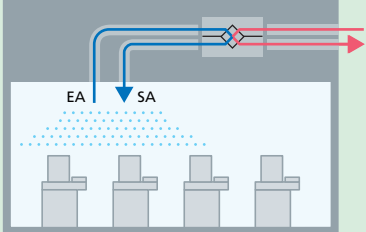
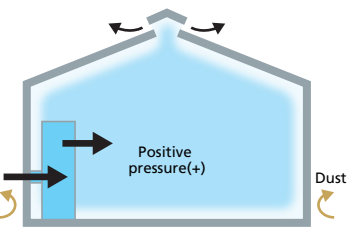
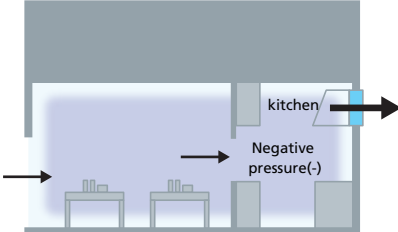
Ventilation equipment can be selected according to suit purpose and circumstances

		Outdoor Air Processing Unit		Heat Reclaim Ventilator	
		FXMQ-MF series	FXMQ-AF series	VKM-GC series	VAM-H series
					
Connections with VRV systems	Refrigerant Piping	Connectable	Connectable	Connectable	Not connectable
	Wiring	Connectable	Connectable	Connectable	Connectable
	After-cool & After-heat Control	Available	Available	Available	Not available
Ventilation class		Class 2	Class 2	Class 1	Class 1
		Air supply only	Air supply only	Air supply & air exhaust	Air supply & air exhaust
Heat Exchange Element		—	—	Energy savings obtained	Energy savings obtained
High Efficiency Filter (Option)		Available	—	Available	Available
PM2.5 Filter (Option)		—	—	Available	Available
MERV8/14 Filter (Option)		—	Available	—	—
Airflow Rate		1,080 - 2,100 m³/h	690 - 2,160 m³/h	500 - 950 m³/h	150 - 2,000 m³/h

*1. Optional filter is necessary. Refer to option list for details.

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

Ventilation class

Class 1 Ventilation	Class 2 Ventilation	Class 3 Ventilation
Installing a Heat Reclaim Ventilator enables mechanical ventilation to control both air supply and air exhaust while ensuring continuous room comfort through the supply of temperature-controlled air.	Mechanical ventilation is used for air supply, and natural ventilation is used for air exhaust. This prevents dirty outdoor air from entering and maintains a clean environment even for large spaces.	Natural ventilation is used for air supply, and mechanical ventilation is used for air exhaust. Odours and steam generated indoors are eliminated before spreading to other areas.
		

Air Treatment Equipment

Outdoor-Air Processing Unit (Discharge Air Temperature Control Type)

FXMQ-MF Series

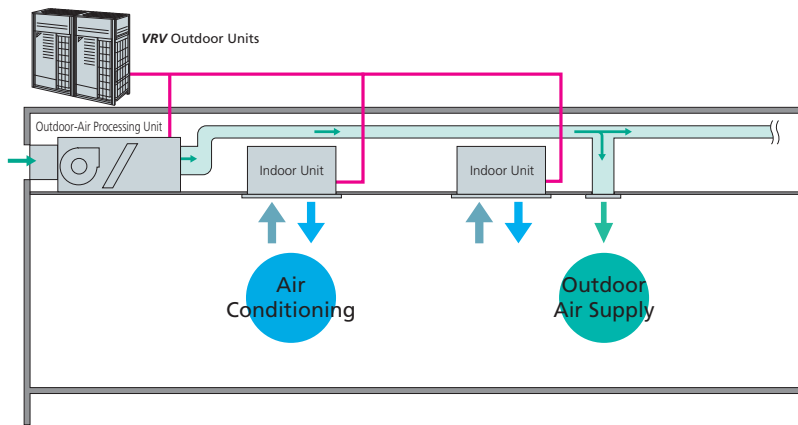
Combine fresh air treatment and air conditioning, supplied from a single system.



Fresh air treatment and air conditioning can be achieved with a single system. **VRV** indoor units for air conditioning and an outdoor-air processing unit can be connected to the same refrigerant line.

Lineup

Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity index	125	200	250
Airflow rate	1,080 m ³ /h	1,680 m ³ /h	2,100 m ³ /h

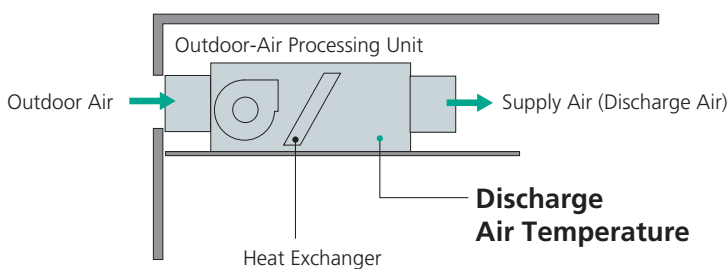


Connection Conditions

- Outdoor-air processing units can be used without indoor units. 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 combined, 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 even when the capacity index of outdoor-air processing units exceeds 30% of the capacity index of the outdoor units, contact your local distributor.

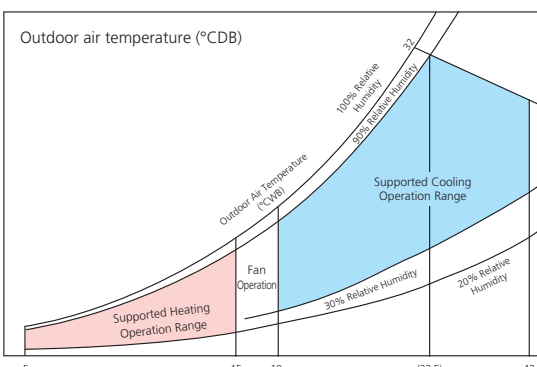
Outdoor-air processing / Discharge air temperature control

The unit supplies outdoor fresh air controlling discharge air temperature from the unit.



- * The default setting of the discharge air temperature is 18°C for cooling operation, and 25°C for heating operation.
- * While in unit protection mode and depending on outdoor air conditions, discharge air temperature may not be at the set temperature.
- * The fan stops in defrosting, oil returning and hot start operations due to mechanical protection control.

Operation range



Applicable to outdoor air temperature range from -5 to 43°C. In cooling operation, 19 to 43°C is adoptable.

- Notes:
1. The operation range shown in the graph is under the following conditions. Equivalent piping length: 7.5 m, Height difference: 0 m.
 2. The system will not operate in fan mode when the outdoor air temperature is 5°C or below.

Precautions for use of FXMQ-MF series

1. This unit is intended for the treatment of outdoor air only. Not to be used for maintaining indoor air temperature. Be sure that the discharge airflow will not blow on people directly.
2. Group control of the product and standard indoor units is not supported. A separate remote controller should be connected to individual unit.
3. If the unit is utilised to operate 24 hours a day, maintenance (part replacement, etc.) must be performed periodically.
4. Temperature setting and Power Proportional Distribution (PPD) are not possible even if the intelligent Touch Controller or the intelligent Touch Manager is installed.
5. 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.

Specifications

Type		Ceiling Mounted Duct Type		
MODEL		FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Power supply		1-phase 220-240 V, 50 Hz		
Cooling capacity *1	Btu/h	47,800	76,400	95,500
	kW	14.0	22.4	28.0
Heating capacity *1	Btu/h	30,400	47,400	59,400
	kW	8.9	13.9	17.4
Power consumption		0.359	0.548	0.638
Casing		Galvanised steel plate		
Dimensions (H × W × D)		470 × 744 × 1,100	470 × 1,380 × 1,100	
Fan	Motor output	kW	0.380	
	Airflow rate	m³/min	18	28
		cfm	635	988
	External static pressure	220 V/240 V Pa	185/225	225/275
Air filter		*2		
Refrigerant piping	Liquid	mm	φ 9.5 (Flare)	
	Gas		φ 15.9 (Flare)	φ 19.1 (Brazing)
	Drain		φ 22.2 (Brazing)	
Machine weight		kg	86	123
Sound level *3		220 V/240 V dB(A)	42/43	47/48
Connectable outdoor units *4			5 HP and above	8 HP and above
Operation range (Fan mode operation between 15 and 19°C)	Cooling		19 to 43°C	
	Heating		-5 to 15°C	
Range of the discharge temperature *5	Cooling		13 to 25°C	
	Heating		18 to 30°C	

Notes: *1. Specifications are based on the following conditions:

- Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
- Heating: Outdoor temp. 0°CDB, -2.9°CWB (50% RH), and discharge temp. of 25°CDB.
- Equivalent reference piping length: 7.5 m (0 m horizontal)

*2. An intake filter is not supplied, so be sure to install the optional long-life filter or high-efficiency filter.

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

These values are normally somewhat higher during actual operation as a result of ambient conditions.

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

*5. Local setting mode is not displayed on the remote controller.

- This equipment cannot be incorporated into the remote group control of the VRV system.

Options

MODEL			FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Operation/control	Operation remote controller		BRC 1H63W(K) / BRC 1E63 / BRC2E61		
	Simple touch controller		DTP401A61		
	AC adaptor for simple touch controller		DTP401A62		
	Central remote controller		DCS302CA61		
	Unified ON/OFF controller		DCS301BA61		
	Schedule timer		DST301BA61		
	Wiring adaptor for electrical appendices (2)		KRP4AA51		
Filters	Long-life replacement filter		KAF371N140	KAF371N280	
	High-efficiency filter	Colourimetric method 65%	KAF372M140	KAF372M280	
		Colourimetric method 90%	KAF373M140	KAF373M280	
	Filter chamber *		KDJ3705L140	KDJ3705L280	
	Streamer duct chamber		BDEZ500A140VE	BDEZ500A510VE	
Drain pump kit			KDU30L250VE		
Adaptor for wiring			KRP1B61		

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

- Dimensions and weight of the equipment may vary depending on the options used.
- Some options may not be usable due to the equipment installation conditions, so please confirm prior to ordering.
- Some options may not be used in combination.
- Operating sound may increase somewhat depending on the options used.

Air Treatment Equipment

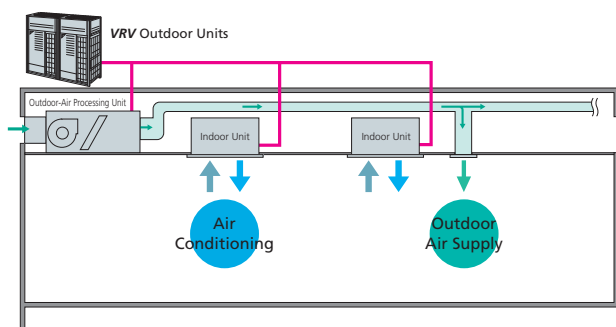
Outdoor-Air Processing Unit (Room Temperature Control Type)

FXMQ-AF Series

Improve IAQ with fresh air ventilation and precise room temperature control



Fresh air treatment and air conditioning can be achieved with a single system. **VRV** indoor units for air conditioning and an outdoor-air processing unit can be connected to the same refrigerant line.



Lineup

Model Name	FXMQ80AFVM	FXMQ140AFVM	FXMQ200AFVM	FXMQ250AFVM
Capacity index	80	140	200	250
Airflow rate	690 m ³ /h	1,230 m ³ /h	1,740 m ³ /h	2,160 m ³ /h

Type of connected indoor units	Connection ratio	FXMQ-AF connection ratio
FXMQ-AF only	50%-130%	
Mixed combination (FXMQ-AF and standard VRV indoor units)	120%-130%	≤10%
	110%-120%	≤20%
	100%-110%	≤30%
	50%-100%	≤40%

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

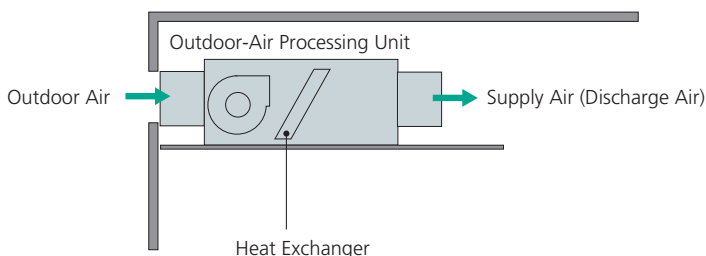
Larger connection ratio

Maximum connection ratio increased from 100% to 130%.

When outdoor-air processing units and standard **VRV** indoor units are combined, the total connection capacity index of the outdoor-air processing units must not exceed 40% of the capacity index of the outdoor units.

Outdoor-air processing / Room temperature control

The unit improves IAQ with fresh air ventilation and precise room temperature control.



Set point temperature can be selected similar to standard **VRV** indoor unit. Maintains comfortability and precise temperature control in large areas with the remote sensor option BRCS01A-6.

- * This unit cannot be used to handle internal heat loads.
- * The discharge air temperature changes depending on the air conditioning load, outside air temperature, and operation of the protective device.
When the protection function is activated, unprocessed outside air maybe sent directly.
- * The fan stops in defrosting, oil returning and hot start operations due to mechanical protection control.

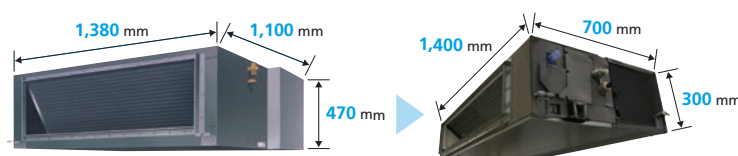
3-step airflow control

Control of the airflow rate has been improved from 1-step to 3-step control, which enhance usage and design flexibility.

Slim & compact design

Only 300 mm in height and 700 mm in depth, the new casing comes with smaller footprint and with 59% reduction* in unit size.

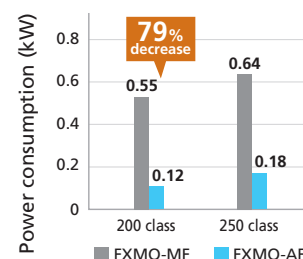
* Reduction in size compared to conventional FXMQ200/250MF series



Lower power consumption

The change from AC motor to DC motor resulted in lower power consumption and more energy efficiency.

The new FXMQ200AF requires 79% less power consumption making it the perfect choice for small commercial applications.



VRT control

With the VRT* control feature, higher efficiency can be achieved.

* Default setting is VRT off and field setting is required.



New small capacity model

The new 9 kW capacity model is the perfect fit for smaller business such as small/medium-sized shops and convenience stores.

Adjustable external static pressure

Using a DC fan motor, the external static pressure can be controlled within a range of 50 Pa to 200 Pa.

Adjustable external static pressure

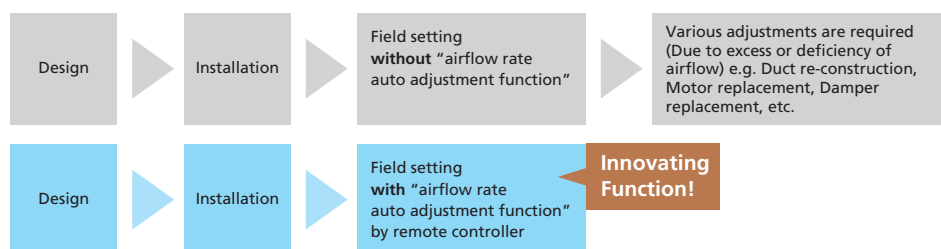
50 Pa

200 Pa

“Airflow rate auto adjustment function” at field setting

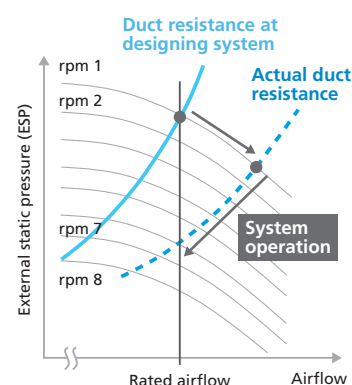
(local setting by remote controller)

*This function can only be set via wired remote controller.



<Mechanism>

1. During field setting, power input of DC fan is detected.
2. External static pressure is estimated from power input of DC fan because PCB of FXMQ-AF has table of external static pressure vs. power input of DC fan.
3. Actual duct resistance is calculated according to 1 and 2.
4. Fan speed is automatically adjusted to produce rated airflow.



Notes: “Airflow rate auto adjustment function” can be adjusted within $\pm 10\%$ of rated airflow. (Refer to Engineering Data Book for details)
“Airflow rate auto adjustment function” should be used at field setting only.

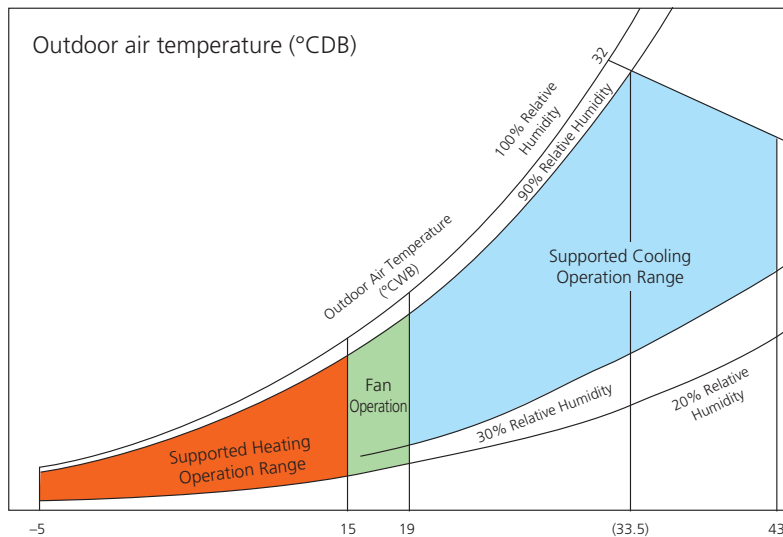
Air Treatment Equipment

Outdoor-Air Processing Unit (Room Temperature Control Type)

Extended operation range

The outdoor operation temperature range extended from 19 to 15°CDB during cooling operation and from 15 to 19°CDB during heating operation*.

This enables reliable operation even under wider temperature conditions.



Extended operation range:

Cooling: 15°CDB to 43°CDB

Heating: -5°CDB to 19°CDB

* Thermo-off (fan) operation starts automatically when cooling 19°CDB or less / heating 15°CDB or more.
In case of cooling mode, operation range can be extended to 15°CDB by field setting.
In case of heating mode, operation range can be extended to 19°CDB by field setting

High efficiency filter (MERV8/MERV14) (Option)

The filter options of MERV8 and MERV14 are available.

The high efficiency filter can help remove infectious aerosol in the air.



MERV8 filter



MERV14 filter

Specifications

Model			FXMQ80AFVM	FXMQ140AFVM	FXMQ200AFVM	FXMQ250AFVM
Power supply			1 phase, 220-240/220-230 V, 50/60 Hz			
Cooling capacity *1		Btu/h	30,700	54,600	76,400	95,500
		kW	9.0	16.0	22.4	28.0
Heating capacity *1		Btu/h	27,600	47,800	68,200	85,300
		kW	8.1	14.0	20.0	25.0
Power consumption	Cooling	kW	0.080	0.100	0.115	0.180
	Heating		0.095	0.125	0.155	0.225
Casing			Galvanised steel plate			
Dimensions (HxWxD)		mm	300×700×700	300×1,000×700	300×1,400×700	
Fan	Motor output	kW	0.140	0.350		
	Airflow rate (H/M/L)	m³/min	11.5/8.6/5.8	20.5/15.4/10.3	29.0/21.8/14.5	36.0/27.0/18.0
		cfm	406/304/205	724/544/364	1,024/770/512	1,271/953/635
	External static pressure	Pa	Rated 100 (200-50)			
Air filter			*2			
Refrigerant piping	Liquid	mm	φ 9.5 (Flare)			
	Gas		φ 15.9 (Flare)		φ 19.1 (Brazing)	φ 22.2 (Brazing)
	Drain		VP25 (External dia. 32, Internal dia. 25)			
Machine weight		kg	29	37	47	48
Sound level (H/M/L) *3		dB(A)	37.5/30/23	41/34/25	42/35/26	44/36/27
Operation range *4	Cooling	°CDB	15 to 43			
	Heating		-5 to 19			

Notes:

*1. The capacity is the maximum value under the following conditions:

- Cooling: Indoor temp. of 33°CDB, 28°CWB, Outdoor temp. of 33°CDB.
- Heating: Indoor temp. 0°CDB, -2.9°CWB, Outdoor temp. 0°CDB, -2.9°CWB.
- Equivalent reference piping length: 7.5 m (0 m horizontal)
- The rated external static pressure and air volume are set in ().

*2. An intake filter is not supplied, so be sure to install the optional filter.

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

These values are normally somewhat higher during actual operation as a result of ambient conditions.

*4. The operation range can be extended to 15°C in cooling operation and 19°C in heating operation by field setting.

When fresh air intake mode is enabled during cooling operation, operation range cannot be extended. (limit at 19 to 43°C)

Options

Model		FXMQ80AFVM	FXMQ140AFVM	FXMQ200AFVM	FXMQ250AFVM
Operation/control	Wired remote controller	BRC 1H63W(K) / BRC 1E63 / BRC2E61			
	Wireless remote controller *4	Cooling only: BRC4C66 / Heat pump: BRC4C65			
	Remote sensor (for indoor temperature)	BRC501A-6			
	Simple touch controller	DTP401A61			
	AC adaptor for simple touch controller	DTP401A62			
	Central remote controller	DCS302CA61			
	Unified ON/OFF controller	DCS301BA61			
	Schedule timer	DST301BA61			
Filters	MERV8 filter	BAF376B56	BAF376B80	BAF376B160	
	MERV14 filter	BAF377B56	BAF377B80	BAF377B160	
	Filter chamber for MERV8/14 filter	KDDF37AB56	KDDF37AB80	KDDF37AB160	
	Long-life replacement filter	KAF371B56	KAF371B80	KAF371B160	
	Streamer duct chamber	BDEZ500A140VE	BDEZ500A140VE BDEZ500A510VE	BDEZ500A510VE	
Service panel		KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
Air discharge adaptor		KDAJ25K56A	KDAJ25K71A	KDAJ25K140A	
Adaptor for wiring (operation status output)		★ BRP11B62			
Wiring adaptor for electrical appendices (1)		★ KRP2A61			
Wiring adaptor for electrical appendices (2)		★ KRP4AA51			
Installation box for adaptor PCB ☆ *1		★ KRP4A96 *2, 3			
External control adaptor for outdoor unit		★ DTA104A61			
Adaptor for multi tenant (24V type)		★ DTA114A61			
Digital input adaptor for hotel application		★ BRP7A53			

Notes:

*1. Installation Box ☆ is necessary for each adaptor marked ★.

*2. Up to 2 adaptors can be fixed for each installation box.

*3. Only one installation box can be installed for each indoor unit.

*4. Remote sensor is necessary when using wireless remote controller.

Air Treatment Equipment

Heat Reclaim Ventilator with DX-coil

VKM-GC Series

Air quality improvement by introducing fresh outdoor air in the room



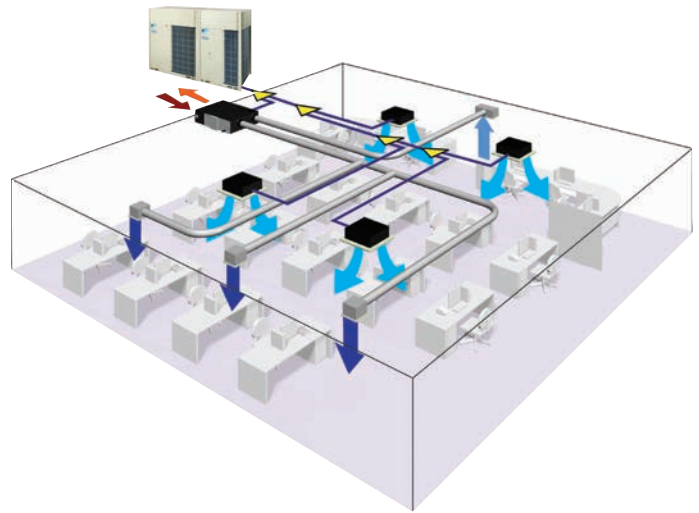
Lineup

Model	VKM50GCVE	VKM80GCVE	VKM100GCVE
Capacity Index	31.25	50	62.5
Airflow rate	500 m ³ /h	750 m ³ /h	950 m ³ /h

■ IAQ improvement by fresh air

Maintains comfortable indoor air quality (IAQ) by adding fresh outdoor air having nearly the same temperature and humidity conditions as the indoor air.

This energy-saving heat reclaim ventilator further reduces air conditioning load.

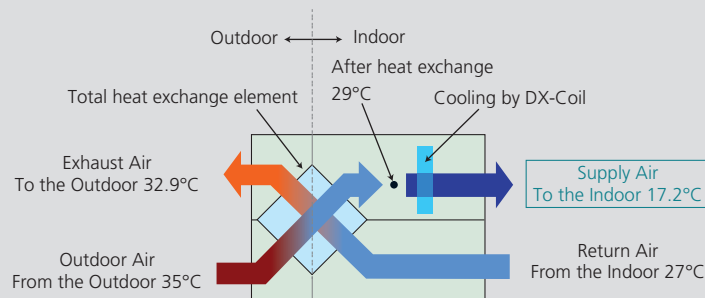


■ Heat reclaim ventilator + Heat exchanger → Comfortable air supply

Equipped with a heat reclaim ventilator and a heat exchanger, the new VKM series minimizes room temperature fluctuations.

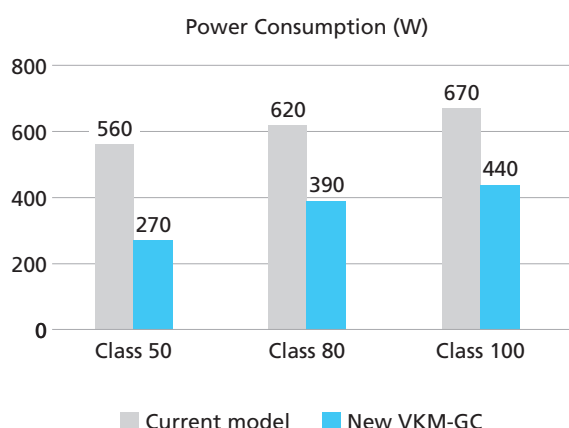
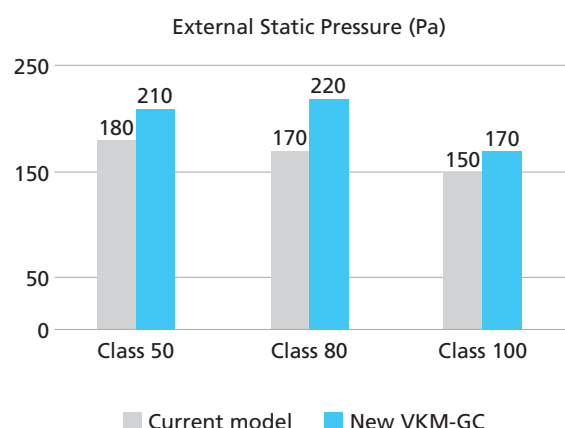
The supply air is cooled from 29°C to 17.2°C with DX-coil.

Structure of VKM series



■ Equipped with DC fan motor

- Energy saving: Power consumption reduced by up to 51% (Class 50)
- Flexible installation due to high external static pressure: Increase of up to +50 Pa (Class 80)



■ Supports both 50/60 Hz power supply

Current model 1-phase, 220-240 V, 50 Hz only

New model 1-phase, 220-240 V, 50 Hz
1-phase, 220 V, 60 Hz

■ CO₂ sensor control (Option) * Refer to page 247 for details.

When CO₂ sensor is installed, it detects the concentration of CO₂ in the indoor air and the ventilation rate is controlled appropriately, reducing the air conditioning load due to ventilation.

■ PM2.5 filter (Option) * Refer to page 248 - 250 for details.

Removes PM2.5 particulate matter present in the outdoor air, as well as sulfur oxides and nitrogen oxides, providing clean fresh air to the indoor ambient.

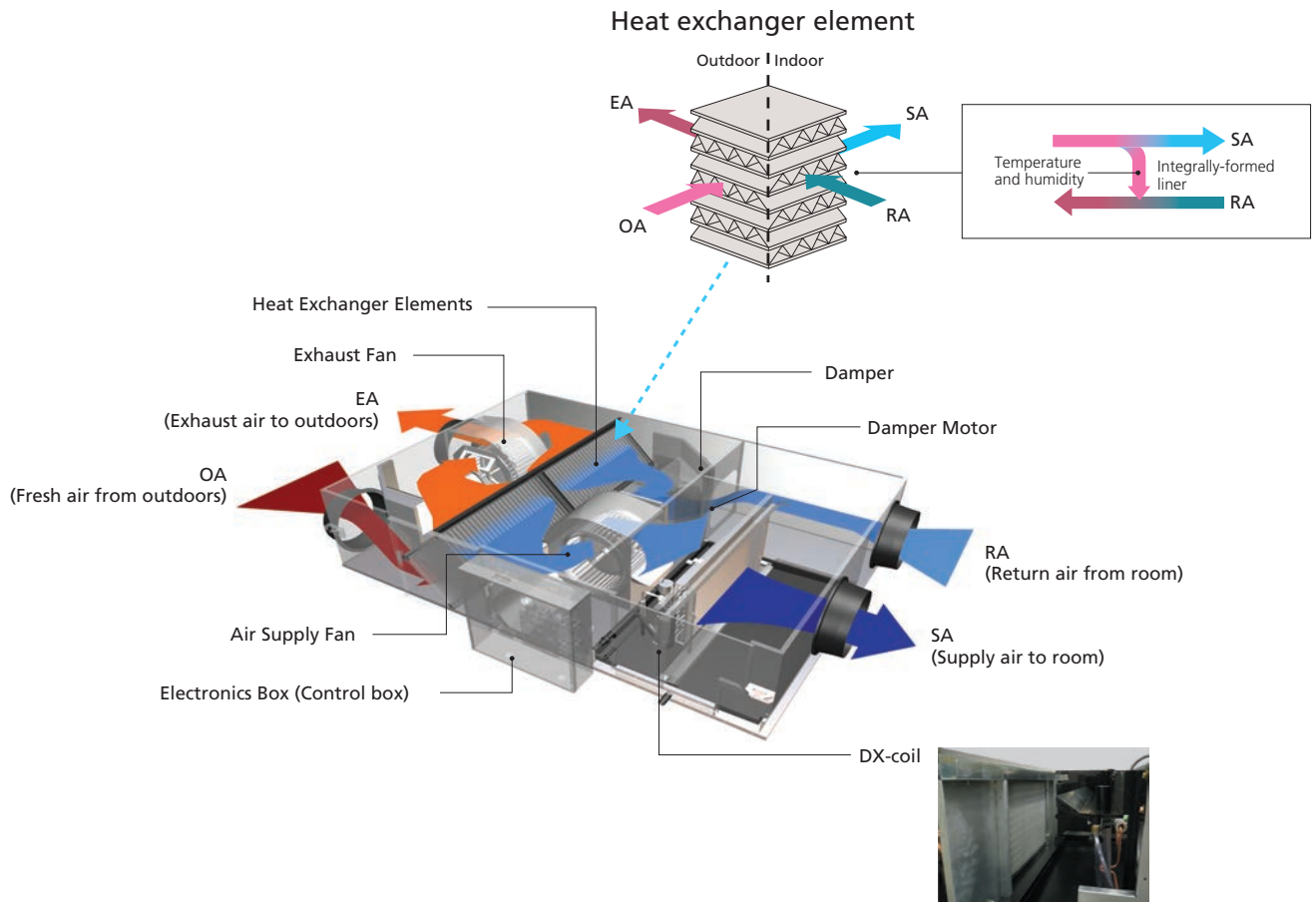
- PM2.5 filter: Removes 99% or more of 2.5 µm particulate matter.
- Activated Carbon filter: Removes sulfur oxides and nitrogen oxides

■ Other characteristics

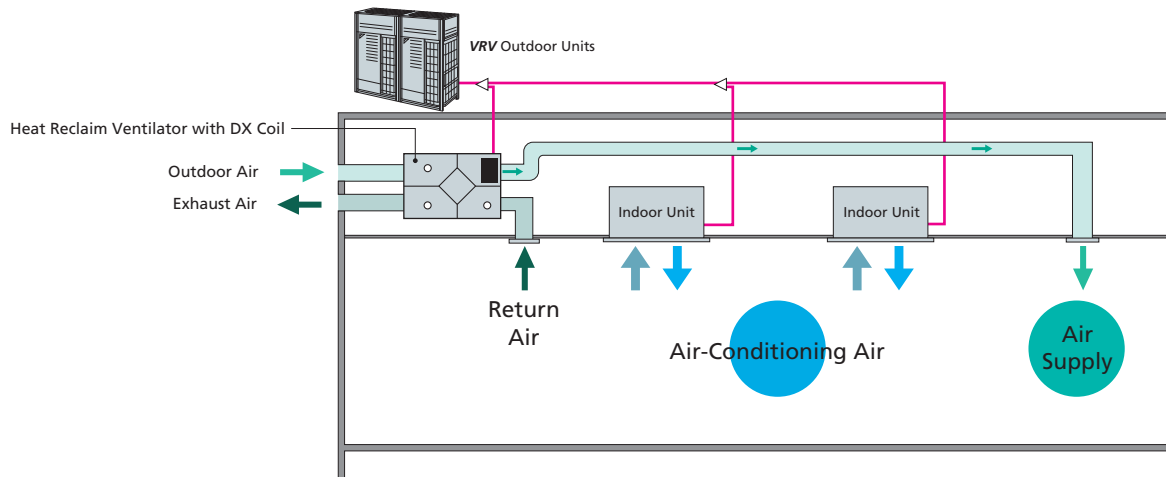
- Nighttime free cooling operation * Refer to page 244 for details.
- Stainless drain pan
- High-efficiency filter (Option)

Air Treatment Equipment

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



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



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

Specifications

MODEL			VKM50GCVE	VKM80GCVE	VKM100GCVE
Refrigerant			R-410A		
Power Supply			1-phase, 220-240/220 V, 50/60 Hz		
Airflow Rate & External Static Pressure (Ultra-high / High / Low) (Note 4)	Airflow	m³/h	500/500/440	750/750/640	950/950/820
	Static pressure	Pa	210/170/140	220/180/125	170/120/90
Power Consumption (Ultra-high / High / Low)	Heat exchange mode	W	270/230/170	390/335/220	440/370/260
	Bypass mode	W	305/260/200	390/335/220	440/370/260
Fan Type			Sirocco Fan		
Motor Output		kW	0.21×2		
Sound Level (Note 3) (Ultra-high / High / Low)	Heat exchange mode	dB	43/40.5/39	41.5/39/37	41/39/36.5
	Bypass mode	dB	43/41/39	41.5/39/37	41/39/36.5
Temp. Exchange Efficiency (Ultra-high / High / Low)		%	76/76/77.5	78/78/79	74/74/76.5
Enthalpy Exchange Efficiency (Ultra-high / High / Low)	Cooling	%	64/64/67	66/66/68	62/62/66
	Heating	%	67/67/69	71/71/73	65/65/69
Heat Exchanging System			Air to Air Cross Flow Total Heat (Sensible + Latent Heat) Exchange		
Heat Exchanger Element			Specially Processed Non flammable Paper		
Air Filter			Multidirectional Fibrous Fleeces		
DX-coil Capacity (Cooling / Heating) (Note 1) (Note 2)		kW	2.8 / 3.2	4.5 / 5.0	5.6 / 6.3
Dimensions (Height×Width×Depth)		mm	387 × 1,764 × 832	387 × 1,764 × 1,214	
Piping Connection	Liquid	mm	ø 6.4 (Flare)		
	Gas	mm	ø 12.7 (Flare)		
	Drain		PT3/4 External Thread		
Machine Weight		kg	92	113	115
Unit Ambient Condition	Around Unit		0°C–40°CDB, 80%RH or less		
	OA (Note 5)		-15°C–40°CDB, 80%RH or less		
	RA (Note 5)		0°C–40°CDB, 80%RH or less		

- Notes: 1. Indoor temperature: 27°CDB, 19°CWB, Outdoor temperature: 35°CDB
2. Indoor temperature: 20°CDB, Outdoor temperature: 7°CDB, 6°CWB
3. 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.
4. Airflow rate can be changed over to Low mode or High mode.
5. OA: fresh air from outdoor. RA: return air from room.
6. 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.

Options

Item				Type	VKM50GCVE	VKM80GCVE	VKM100GCVE
Controlling device	Remote controller *1				BRC1H63W(K) / BRC1E63		
	PCB Adaptor		Wiring adaptor for electrical appendices		KRP2A61		
			For heater control kit		BRP4A50A		
Additional function	Silencer		Nominal pipe diameter		mm	KDDM24B100	
						φ 250	
	High efficiency filter				KAF242J80M	KAF242J100M	
	Air filter for replacement				KAF241G80M	KAF241G100M	
Flexible duct				1 m	K-FDS201E	K-FDS251E	
				2 m	K-FDS202D	K-FDS252E	
CO ₂ Sensor					BRYC24B50M	BRYC24B100M	
PM2.5 filtration unit *2					BAF249A500	BAF429A20A	
PM2.5 with activated carbon filtration unit *2					BAF249A500C	BAF429A20AC	
Streamer duct chamber					BDEZ500A60VE BDEZ500A140VE	BDEZ500A140VE	

*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. Refer to pages 248 - 250 for details.

• Please inquire concerning optional accessories not listed above.

Air Treatment Equipment

Heat Reclaim Ventilator

VAM-H Series

Daikin VAM series ensures fresh air intake and energy savings



Lineup

VAM150HVE	VAM250HVE	VAM350HVE
VAM500HVE	VAM650HVE	VAM800HVE
VAM1000HVE	VAM1500HVE	VAM2000HVE

Airflow rate: 150-2,000 m³/h



BRC1H63W



BRC1H63K

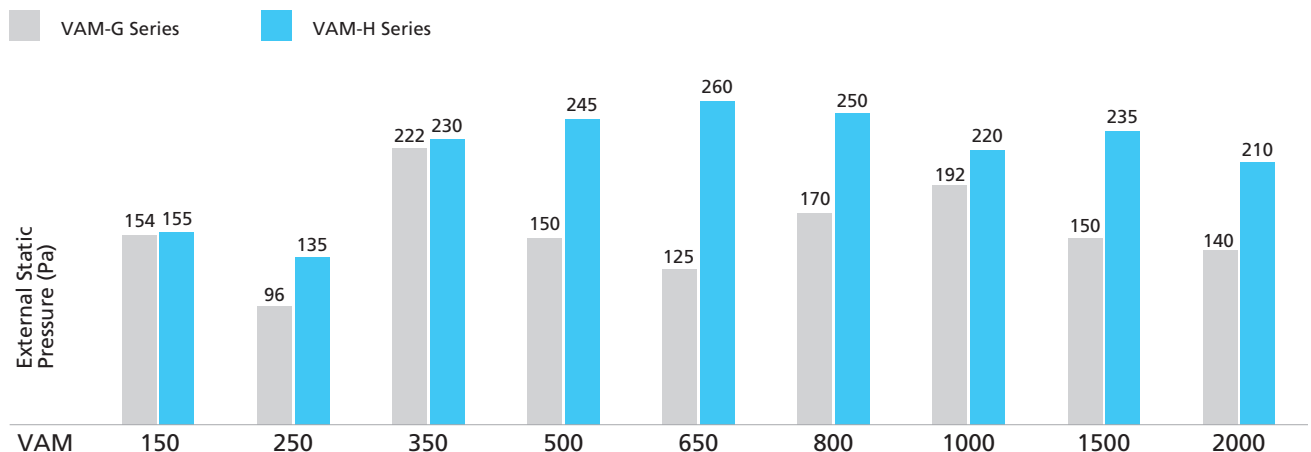
New features

Design flexibility

By significantly improving external static pressure, support for a variety of duct layouts is possible, and installation flexibility has been improved.

The 1000-2000 class model has become more compact, and ease of installation has improved.

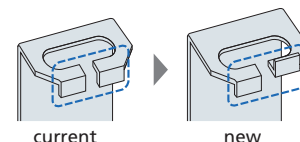
■ Comparison of external static pressure



Improvement of installation workability

Improved workability by changing dimensions and shape of lifting lug

The structure that prevents nut slippage eliminates the need to replace the lifting lug even when installed upside down.



Energy saving

Energy saving ventilation

Air conditioner and ventilation system can be interlocked to provide even greater comfort and energy saving.

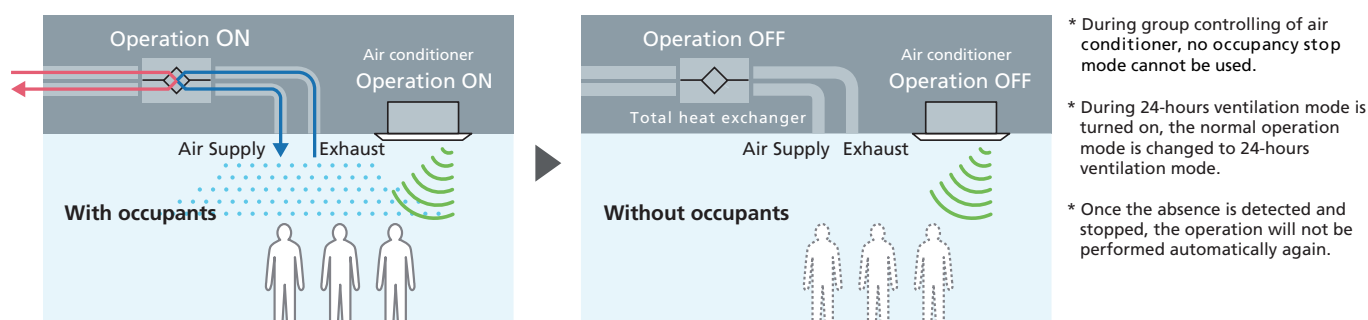
The system can be interlocked with Daikin air conditioners to provide energy saving ventilation solution for various situation.



Sensing sensor stop mode

In situation of no human occupancy is detected, the operation is turned off.

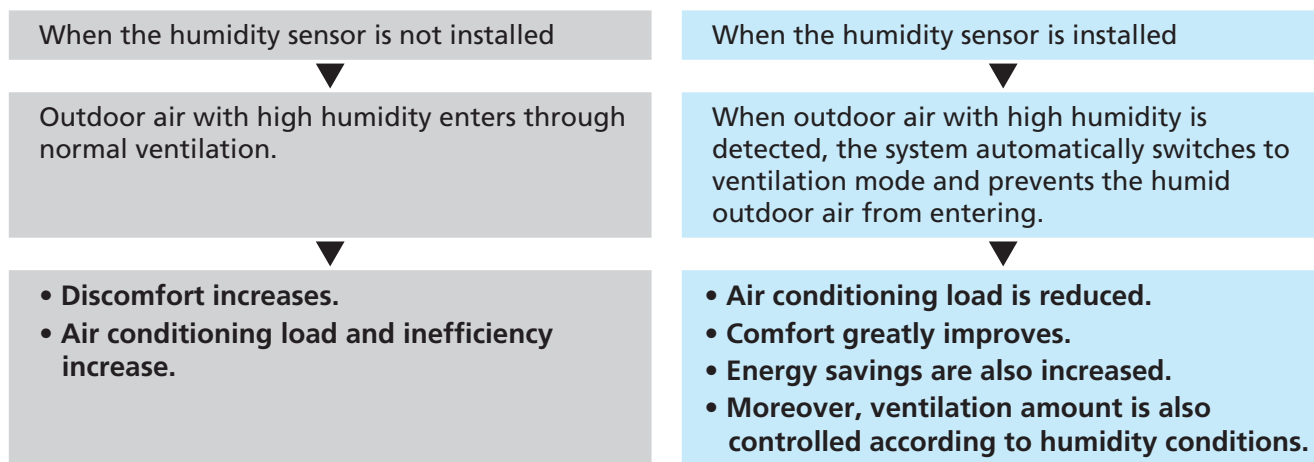
When the "Sensing sensor" installed on the air conditioner detects no occupancy in the room, the ventilation system and air conditioner system is turned off automatically to reduce energy wastage.



Humidity sensor (Option)

A humidity sensor (option) can be installed for greater comfort and energy-saving ventilation.

Conditions of low temperature and high humidity... Example, a rainy day, etc.



Air Treatment Equipment

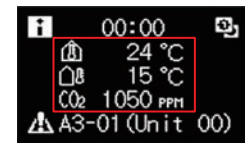
Heat Reclaim Ventilator

Stylish remote controller

Stylish Remote Controller BRC1H63W(K) combining many VAM-dedicated functions

- Sensor results can be displayed up to 3 item on the information screen.
- Sensor results can be shared to the remote controller group.
- New icons such as 24-Hour Ventilating, Fresh Up, Nighttime Free Cooling Operation (Night Purge) have been added to the Information screen.

Sensor view of the Information screen

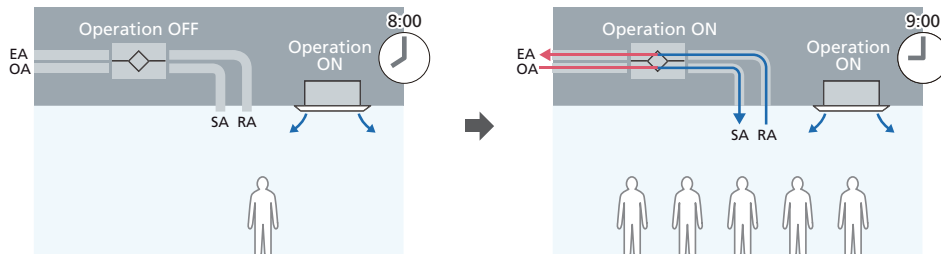


Note:
3 items selected by remote controller setting.

Pre-cool, Pre-heat control

Intentional delay of the start-up time

When the air conditioner is started up, the ventilation start-up is delayed to reduce load caused by the outside air. This reduces power consumption of air conditioners.

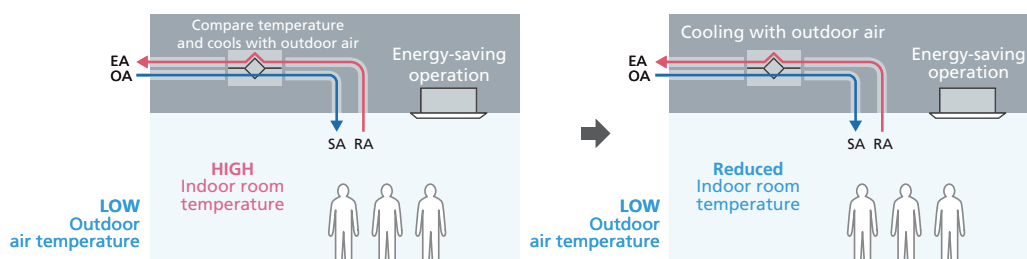


* The delay time can be changed using field settings.

Auto-ventilation mode changeover switching

Automatically determine the appropriate ventilation for each situation

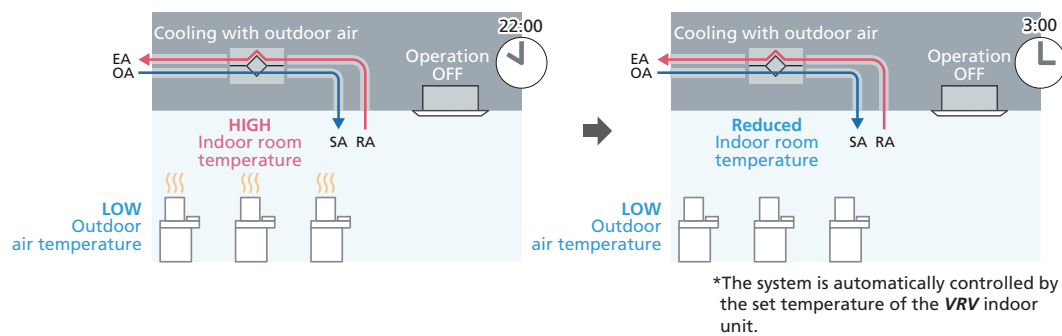
Indoor temperature and the outdoor temperature are detected, and the system automatically switches to the ventilation mode which has higher energy-saving effect.



Nighttime free cooling operation

Efficient use of outdoor air at night.

Rise in indoor temperature is avoided by automatically cooling the outdoor air at night, thus reducing air conditioning load at the start of cooling operation on the next morning.



CO₂ sensor control (Option) *Refer to pages 247 for details.

When CO₂ sensor is installed, it detects the concentration of CO₂ in the indoor air and the Ventilation rate is controlled appropriately, reducing the air conditioning load due to ventilation.

Improvement of IEQ (Indoor Environmental Quality)

PM2.5 filter (Option) *Refer to pages 248 - 250 for details.

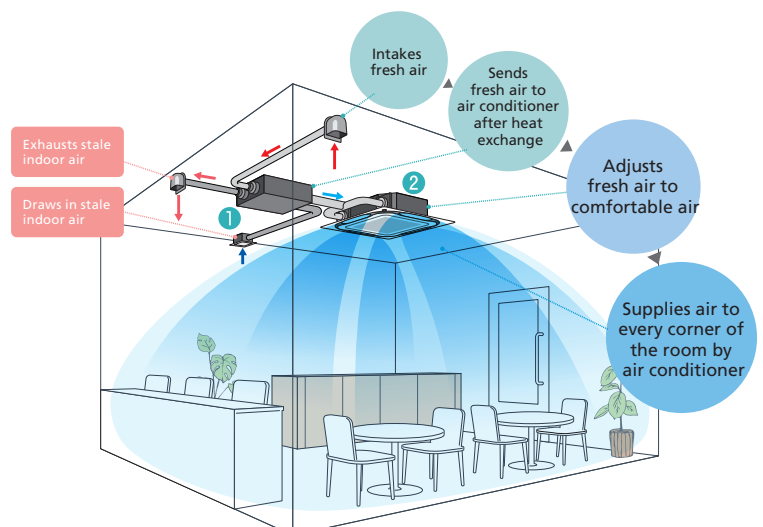
Removes PM2.5 particulate matter present in the outdoor air, as well as sulfur oxides and nitrogen oxides, providing clean fresh air to the indoor ambient.

- PM2.5 filter: Removes 99% or more of 2.5 µm particulate matter.
- Activated Carbon filter: Removes sulfur oxides and nitrogen oxides.

Fresh Air Comfort

Round Flow Cassette indoor units can be connected to a duct to provide fresh outdoor air for comfortable air from the air conditioner. Installation is also possible for existing indoor units.

- 1 Heat Reclaim Ventilator
- + 2 Round Flow Cassette (including with sensing type)



Air Treatment Equipment

Heat Reclaim Ventilator

Specifications

Model				VAM150HVE	VAM250HVE	VAM350HVE	VAM500HVE	VAM650HVE	VAM800HVE	VAM1000HVE	VAM1500HVE	VAM2000HVE			
Power Supply				Single phase, 220-240 V/220 V, 50/60 Hz											
Temperature exchange efficiency (50/60 Hz)	For Cooling	Ultra-High	%	66.0/66.0	60.5/60.5	65.0/65.0	61.5/61.5	59.5/59.5	61.5/61.5	58.0/58.0	61.5/61.5	58.5/58.5			
		High		66.0/66.0	60.5/60.5	65.0/65.0	61.5/61.5	59.5/59.5	61.5/61.5	58.0/58.0	61.5/61.5	58.5/58.5			
		Low		69.0/69.5	65.0/65.5	70.0/70.0	63.0/64.0	62.5/63.0	64.0/65.0	61.5/62.0	65.5/66.0	65.5/65.5			
	For Heating	Ultra-High	%	77.0/77.0	76.5/76.5	79.5/79.5	80.0/80.0	74.5/74.5	77.5/77.5	74.0/74.0	77.5/77.5	73.5/73.5			
		High		77.0/77.0	76.5/76.5	79.5/79.5	80.0/80.0	74.5/74.5	77.5/77.5	74.0/74.0	77.5/77.5	73.5/73.5			
		Low		78.5/79.0	78.5/79.0	81.5/82.0	81.5/82.5	76.5/77.0	78.5/79.5	76.0/76.5	79.5/80.0	76.5/77.0			
Enthalpy exchange efficiency (50/60 Hz)	For Cooling	Ultra-High	%	63.5/63.5	60.0/60.0	62.5/62.5	62.5/62.5	60.0/60.0	63.0/63.0	60.0/60.0	63.0/63.0	60.0/60.0			
		High		63.5/63.5	60.0/60.0	62.5/62.5	62.5/62.5	60.0/60.0	63.0/63.0	60.0/60.0	63.0/63.0	60.0/60.0			
		Low		66.0/66.5	61.5/62.0	64.5/65.0	64.0/65.0	62.5/63.0	64.5/65.5	62.0/62.5	65.5/66.0	64.5/64.5			
	For Heating	Ultra-High	%	71.5/71.5	69.5/69.5	72.0/72.0	71.0/71.0	68.0/68.0	72.0/72.0	68.5/68.5	72.0/72.0	68.0/68.0			
		High		71.5/71.5	69.5/69.5	72.0/72.0	71.0/71.0	68.0/68.0	72.0/72.0	68.5/68.5	72.0/72.0	68.0/68.0			
		Low		76.5/77.0	73.0/73.5	74.5/75.0	72.5/73.5	69.5/71.5	74.0/75.0	72.0/72.5	74.0/75.0	71.0/71.5			
Power Consumption (50/60 Hz)	Heat exchange mode	Ultra-High	W	96-103/132	126-141/172	178-193/231	296-326/390	381-426/472	664-684/829	683-736/883	1,274-1,353/1,645	1,365-1,471/1,763			
		High		90-93/118	114-123/144	163-170/207	248-261/329	307-319/413	603-612/712	621-656/763	1,207-1,225/1,423	1,241-1,311/1,526			
		Low		68-73/67	75-83/79	132-142/145	223-233/268	264-276/332	504-544/562	539-569/594	1,008-1,089/1,125	1,079-1,138/1,188			
	Bypass mode	Ultra-High	W	96-103/132	126-141/172	178-193/231	296-326/390	381-426/472	664-684/829	683-736/883	1,274-1,353/1,645	1,365-1,471/1,763			
		High		90-93/118	114-123/144	163-170/207	248-261/329	307-319/413	603-612/712	621-656/763	1,207-1,225/1,423	1,241-1,311/1,526			
		Low		68-73/67	75-83/79	132-142/145	223-233/268	264-276/332	504-544/562	539-569/594	1,008-1,089/1,125	1,079-1,138/1,188			
Sound Level (50/60 Hz)	Heat exchange mode	Ultra-High	dB(A)	33.0-34.0/34.0	33.0-34.0/33.5	32.0-33.0/34.5	36.0-37.0/38.5	37.5-38.0/38.0	41.5-42.5/41.0	42.0-43.0/42.5	43.0-44.0/44.0	43.5-44.0/44.5			
		High		30.5-32.0/28.0	31.5-32.5/28.0	30.0-31.5/27.5	35.0-36.0/35.0	36.0-36.5/37.0	39.5-41.0/37.0	40.0-41.0/38.0	41.0-42.5/39.0	41.5-43.0/40.0			
		Low		23.0-25.5/20.0	23.0-25.5/21.0	26.5-28.5/22.0	32.0-34.0/31.0	34.0-35.0/32.5	36.0-38.5/33.0	38.0-39.5/34.5	38.0-40.5/35.0	39.0-41.0/36.5			
	Bypass mode	Ultra-High	dB(A)	33.5-34.0/36.0	33.0-34.0/34.5	32.5-33.5/34.5	36.0-37.0/38.5	39.5-40.0/42.0	41.5-42.5/41.0	42.0-43.0/42.5	43.0-44.0/44.0	43.5-44.0/44.5			
		High		31.5-33.0/28.5	31.0-32.5/29.0	31.0-32.0/27.5	35.0-36.0/35.0	38.0-38.5/39.0	39.5-41.0/37.0	40.0-41.0/38.0	41.0-42.5/39.0	41.5-43.0/40.0			
		Low		23.0-25.5/20.5	23.5-25.5/21.5	27.0-29.0/23.0	32.0-34.0/31.0	35.5-36.5/33.5	36.0-38.5/33.0	38.0-39.5/34.5	38.0-40.5/35.0	39.0-41.0/36.5			
Casing				Galvanised steel plate											
Insulation Material				Self-extinguishable polyurethane foam											
Dimensions (H × W × D)			mm	278 × 551 × 810		306 × 800 × 879		338 × 832 × 973		387 × 1,012 × 1,110		785 × 1,012 × 1,110			
Machine Weight			kg	22		31		41		43		63		133	
Heat Exchange System				Specially processed nonflammable paper											
Heat Exchange Element Material				Multidirectional fibrous fleeces											
Fan	Type			Sirocco fan											
	Airflow Rate (50/60 Hz)	Ultra-High	m³/h	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000			
		High		150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000			
		Low		100/80	165/145	275/235	470/420	570/495	720/610	880/835	1,350/1,250	1,650/1,580			
	External static pressure (50/60 Hz)	Ultra-High	Pa	125-140/155	115-130/135	170-185/230	165-190/245	185-190/260	210-235/250	205-225/220	195-215/235	190-210/210			
		High		100-120/100	80-90/60	145-165/80	140-175/180	140-155/210	170-215/140	155-195/100	150-180/125	140-180/85			
		Low		44-80/28	35-75/20	90-102/36	124-155/127	108-119/122	138-174/81	115-150/70	123-146/88	96-123/53			
Motor Output			kW		0.030 × 2		0.060 × 2		0.100 × 2		0.170 × 2		0.190 × 2		
Effective ventilation rate		Ultra-High	%	90											
Connection duct diameter			Indoor side	mm	φ100	φ150		φ200		φ250		φ250 × 4			
			Outdoor side	mm								□(680 × 290) × 2			
Unit ambient condition				-15°C to 50°CDB, 80%RH or less											

Notes:

1. Airflow rate can be changed over to Low mode or High mode.
2. Temperature Exchange Efficiency is the mean value between cooling and heating.
3. 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.
4. 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.

Remote controller function for Heat Reclaim Ventilator

Function	Detail	BRC1H63W(K)	BRC1E63	BRC2E61
Air conditioner interlock	Interlock Heat Reclaim Ventilator with air conditioner by one remote controller	●	●	●
Ventilation mode	Switch the ventilation mode (Automatic, Heat exchange, Bypass)	●	●	—
Ventilation airflow rate	When using CO ₂ sensor, ventilation volume can be changed	●	●	●
Fresh up indication	Indicates that fresh up operation is being carried out	●	—	—
CO ₂ indication	Indicates value of CO ₂ sensor	○	—	—
Outdoor temperature indication	Indicates outdoor air temperature (OA)	○	—	—
Nighttime free cooling indication	Indicates that night purge operation is set	○	—	—
24 hour ventilating indication	Indicates that 24 hour ventilating operation is set	○	—	—
Ventilating operation indication	Indicates that ventilating operation is being carried out even when night purge operation and 24 hour ventilating operation is being carried out	●	●	—
Ventilating standby indication	Indicates that ventilating operation has been stopped temporarily during pre-cool / pre-heat control	○	—	—
Sharing CO ₂ data	Share the CO ₂ data to submit from main unit with in the group	○	—	—

○ : New functions / ● : Installed functions

Options

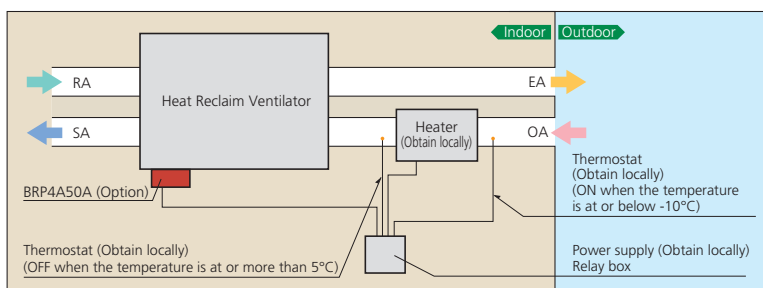
Item		MODEL		VAM150HVE	VAM250HVE	VAM350HVE	VAM500HVE	VAM650HVE	VAM800HVE	VAM1000HVE	VAM1500HVE	VAM2000HVE	
Additional function	Silencer	—						KDDM24B100			KDDM24B100 × 2		
	Nominal pipe mm	—						φ200			φ250		
	PM2.5 filter	BAFH510A250			BAFH510A350		BAFH510A650			BAFH510A2000 × 2			
	High efficiency filter	KAF242J25M			KAF242J50M		KAF242J65M			KAF242K100M × 2			
	Air filter for replacement	KAF241L25M			KAF241L35M		KAF241L65M			KAF241L100M × 2			
Flexible duct (1m)		K-FDS101E		K-FDS151E		K-FDS201E			K-FDS251E				
Flexible duct (2m)		K-FDS102E		K-FDS152E		K-FDS202E			K-FDS252E				
CO ₂ sensor*2		BRYC24A25M			BRYC24A35M		BRYC24A65M			BRYC24A100M			
Humidity sensor		BRYH241A100 (for RA) / BRYH242A100 (for OA)											
PM2.5 filtration unit*3		BAF249A150	BAF249A300	BAF249A350	BAF249A500		—			BAF429A20A			
PM2.5 with activated carbon filtration unit*3		BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C		—			BAF429A20AC			
Streamer duct chamber		BDEZ500A60VE					BDEZ500A60VE		BDEZ500A140VE			BDEZ500A510VE	
Wired remote controller		BRC 1H63W (White) / BRC 1H63K (Black) / BRC 1E63 / BRC2E61											
Controlling device	Centralised controlling device	Simple touch controller	DTP401A61										
		AC adaptor for simple touch controller	DTP401A62										
		Residential central remote controller	DCS303A51*1										
		Central remote controller	DCS302CA61										
		Unified ON/OFF controller	DCS301BA61										
		Schedule timer	DST301BA61										
	PCB Adaptor	Wiring adaptor for electrical appendices	KRP2A62										
		Installation box for adaptor PCB	KRP1C18A90										
		For heater control kit	BRP4A50A										
		PCB adaptor for wiring	KRP1C18										

Notes:*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.

*2. Refer to pages 247 for details. *3. Refer to pages 248 - 250 for details.

PCB adaptor for heater control kit [BRP4A50A] (Option)

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 :

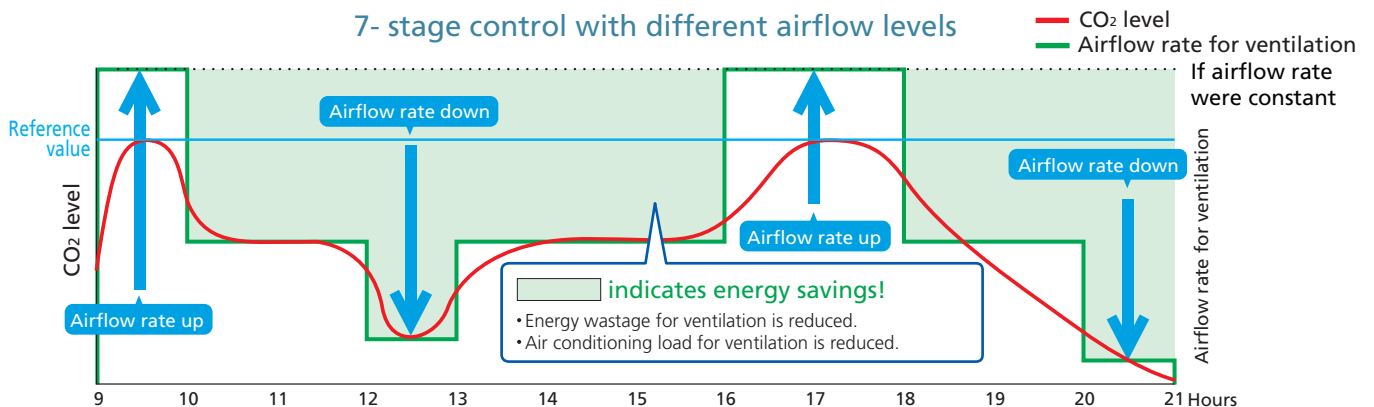
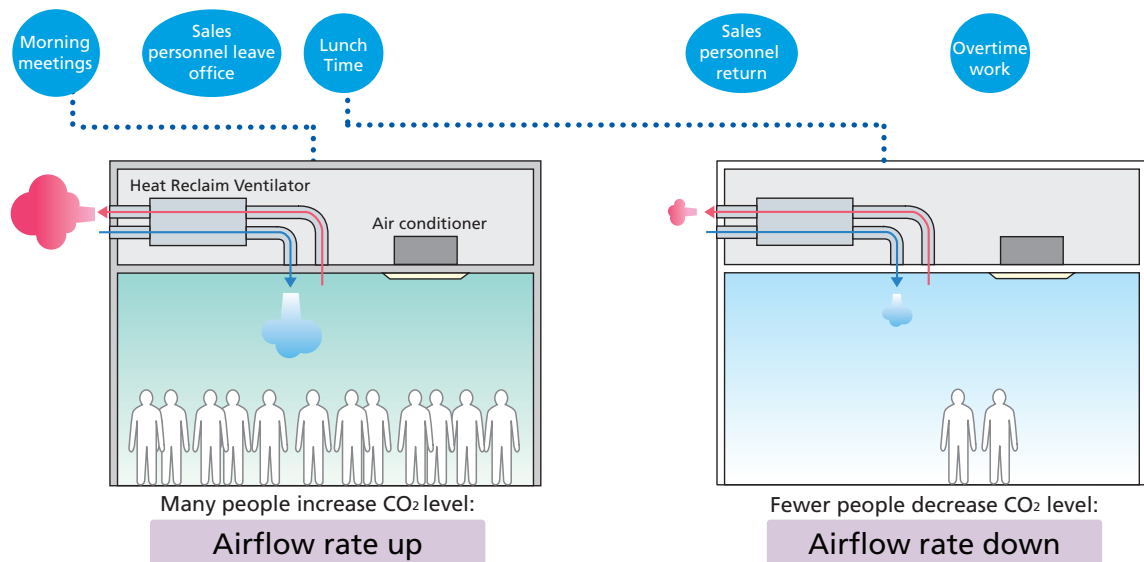
- Examine fully an installation place and specification for using the electric heater based on the standard and regulation of each country.
- Supply the electric heater and safety production devices such as a relay and a thermostat, etc of which qualities satisfy the standard and regulation of each country 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.

Air Treatment Equipment

■ Airflow rate control with CO₂ sensor (Option) for VAM / VKM series

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

- Example of CO₂ sensor operation in an office room:



PM2.5 filtration unit (Option) for VAM / VKM 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

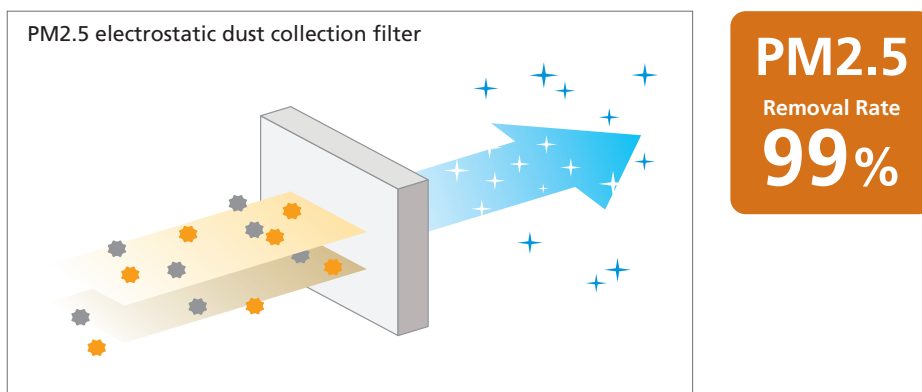
PM2.5 filters are double-layered.

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.



Filtering PM2.5 efficiently for healthier and more comfortable environments

This filter removes 99% or more of 2.5 μm particulate matter.

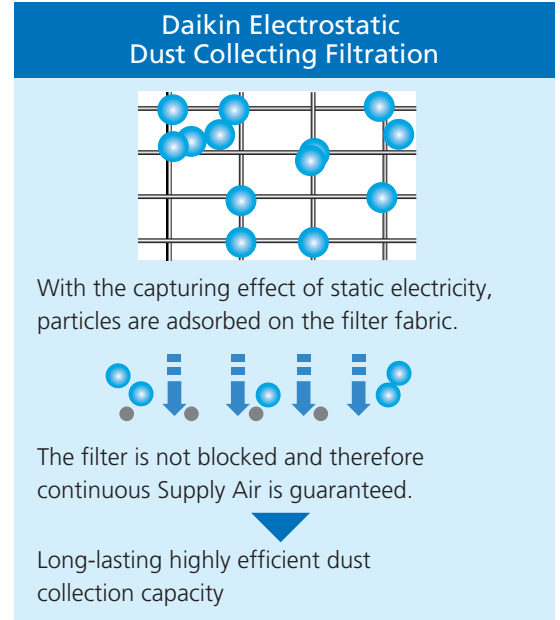


*Test results by the Heating, Ventilation and Air Conditioning Lab at Tongji University
Test environment: temperature 25-26°CDB, humidity 58-60%RH

Air Treatment Equipment

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.

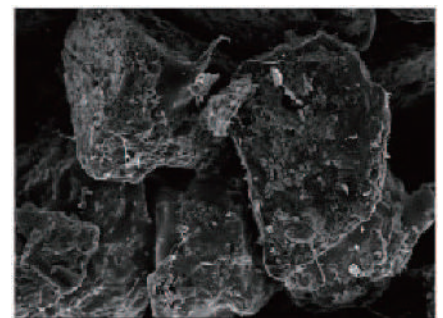


PM2.5 with activated carbon filtration unit (Option) for VAM / VKM series Extra-high performance filter against sulfur oxides and nitrogen oxides

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.

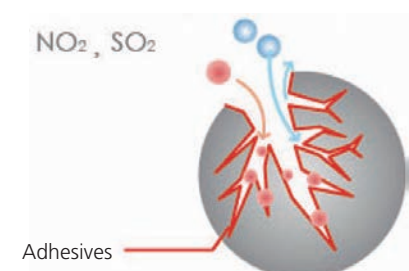


Intelligent Identification, Super-effective Adhesion

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



Specifications

PM2.5 filtration unit

MODEL		BAF249A150	BAF249A300	BAF249A350	BAF249A500	BAF429A20A
Dimensions (H × W × D)	mm	220×603×366	220×603×366	300×623×366	300×623×366	470×971×370
Connection Duct Diameter	mm	φ 100	φ 150	φ 150	φ 200	580×348
Airflow Rate	m ³ /h	150	250	350	500	2,100
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42
	Filter Lifetime ^{*1}	1 year				
	Filtration Efficiency ^{*2}	99% or higher				
	Filter Material No. ^{*3}	BAF244A300		BAF244A500		BAF424A20A

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

PM2.5 with activated carbon filtration unit

MODEL		BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C	BAF429A20AC
Dimensions (H × W × D)	mm	220×603×366	220×603×366	300×623×366	300×623×366	470×971×370
Connection Duct Diameter	mm	φ 100	φ 150	φ 150	φ 200	580×348
Airflow Rate	m ³ /h	150	250	350	500	2,100
Total Initial Pressure Drop for PM2.5 with Activated Carbon Filtration Unit	Pa	37	35	36	51	less than 50
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42
	Filter Lifetime ^{*1}	1 year				
	Filtration Efficiency ^{*2}	99% or higher				
	Filter Material No. ^{*3}	BAF244A300		BAF244A500		BAF424A20A
Activated Carbon Filter	Initial Pressure Drop	Pa	3	5	5	9
	Filter Lifetime	1 year				
	Filter Material No. ^{*3}	BAF244A300C		BAF244A500C		BAF424A20AC

Notes: 1. Annual usage: 400 hrs / month × 12 months = 4,800 hrs.
2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more.
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

■ Stylish remote controller (Option)



Special
Site



White
BRC1H63W



Black
BRC1H63K

A complete redesigned controller focused to enhance user experience



reddot design award

Sleek and stylish design

- Combines refinement and simplicity
- Echoes the distinct blue circle and simplicity of design
- Two attractive colours to match any interior
- Compact, measures only 85 x 85 mm



User-friendly interface

- Just three buttons and a large-figure display
- Customisable display
- Direct access to basic functions (ON/OFF, Operation mode, Temperature setting, Airflow rate, Airflow direction)
- Timer functions (OFF timer, Weekly schedule timer)
- Simple screen for hotel display

Display



Fan speed



Operation mode
(Cooling, Heating,
Auto, etc.)



Airflow direction



ON / OFF button

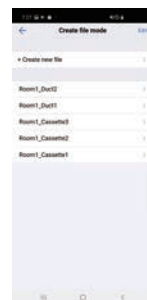


Easy and direct access
to main functions

Easy setting via smartphone application using Bluetooth® wireless technology (for Installer/Facility manager)

Keep hotel room comfortable

- Improved setback function by setting the lower temperature limit in cooling and higher temperature in heating mode.
- Window/door contact interlock function is available via optional Digital Input Adaptor BRP7A*.



<App screen image>

Shorter installation time

- Easy to create multiple remote control and field settings via App
- Prepare a setting in advance at the office and immediately send it to the on-site remote controller
- Save and reuse settings
- Remote update function (OTA: Over The Air)

■ Navigation remote controller (Wired remote controller) (Option)



BRC1E63

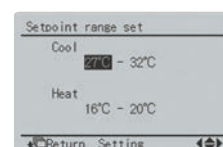
BRC1F61
(Only for FXEQ and FXDSQ series)

A series of user friendly functions that can be individually selected

Energy saving

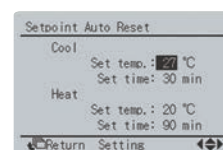
Setpoint range set

- Avoids excessive cooling or heating by limiting the min. and max. set temperature.
- Convenient for use at a place where any number of people may operate it.



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.



Off timer

- Period can be preset from 30 to 180 minutes in 10-minute increments.

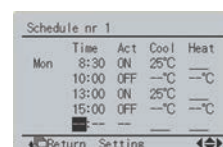
Convenience

Setback (default: OFF)

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

Weekly schedule

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



Auto display off

- Period can be preset from 10, 30, 60 minutes, and OFF. Initial setting is 30 minutes.

Comfort

Individual airflow direction

- Airflow direction can be individually adjusted for each air discharge outlet.

5-step airflow control

- Airflow rate can be selected from 5-step control.

Auto airflow rate

- Airflow rate is automatically controlled.

Control Systems

Individual control systems for **VRV** systems

■ Simplified remote controller (Option)



BRC2E61

Easy operation with new intuitive design

Simple operation

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

- ON/OFF
- Operation mode
- Temperature setting
- Airflow rate (5-step & Auto)*
- Up and down airflow direction (5-step & Swing)*
- ON/OFF timer

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

Intuitive design

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

Compact size

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



■ Wireless remote controller (Option)



BRC-M series



Signal receiver unit
(Installed type)

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

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

- Backlight LCD of new wireless remote controller



BRC-C, E series



Signal receiver unit
(Separate type)

- 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 302 for the name of each model.



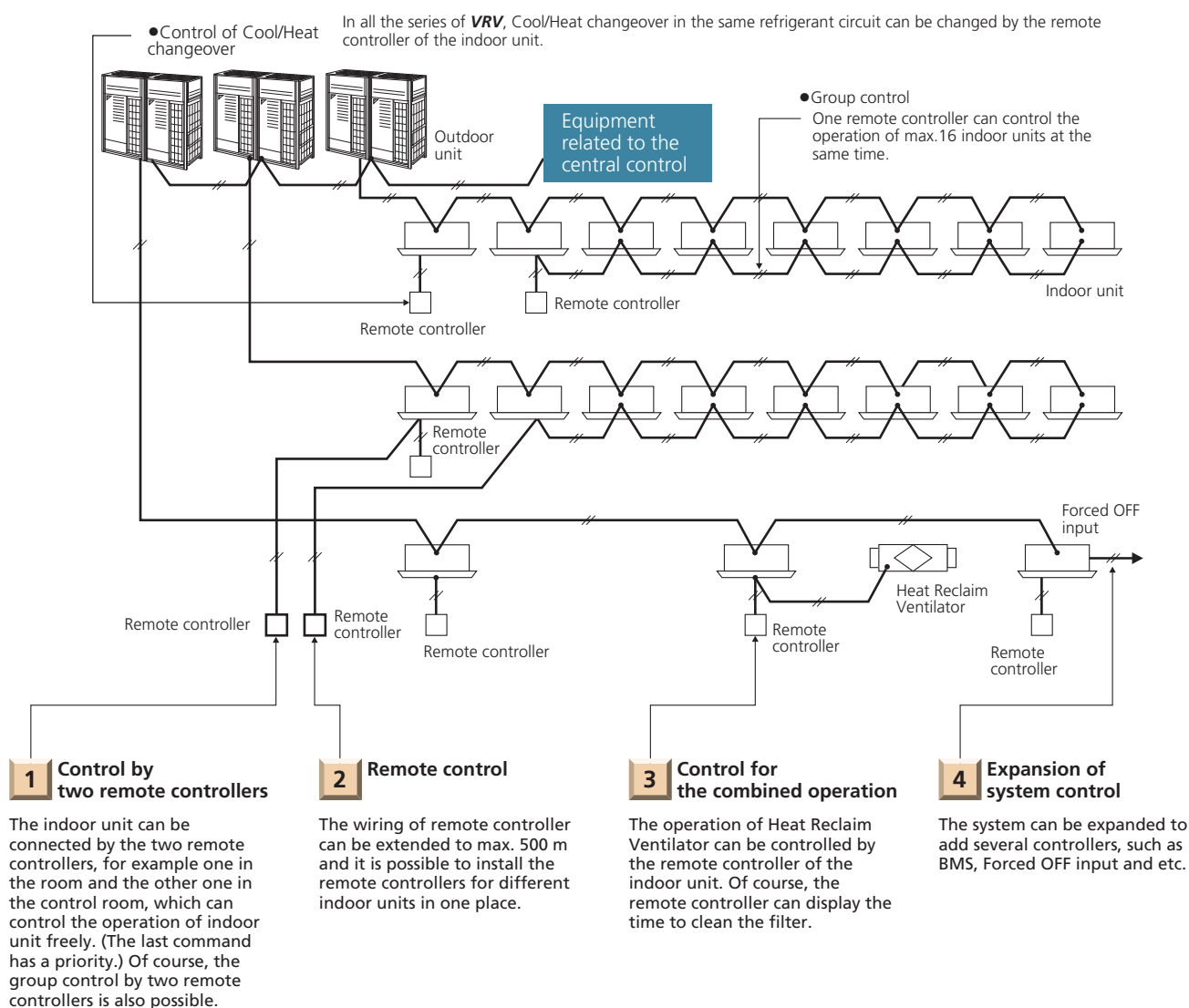
Pressing the backlight button helps operating in dark rooms.

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

MODEL	FXFTQ	FXFRQ	FXFSQ-C	FXFQ	FXZQ	FXCQ	FXEQ	FXDSQ	FXDBQ	FXDQ	FXSQ	FXMQ	FXUQ	FXHQ	FXAQ	FXL(N)Q	FXVQ	FXB(P)Q
Stylish remote controller (BRC1H63W / BRC1H63K)	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●
Navigation remote controller (BRC1E63)			●	●	●	●			●	●	●	●	●	●	●	●	●	●
Navigation remote controller (BRC1F61)							●	●										
Simplified remote controller (BRC2E61)				●	●	●	●		●	●	●	●	●	●	●	●	●	●
Wireless remote controller* (Installed type signal receiver unit)			●	●	●	●	●						●	●	●			
Wireless remote controller* (Separate type signal receiver unit)								●	●	●	●	●				●		●

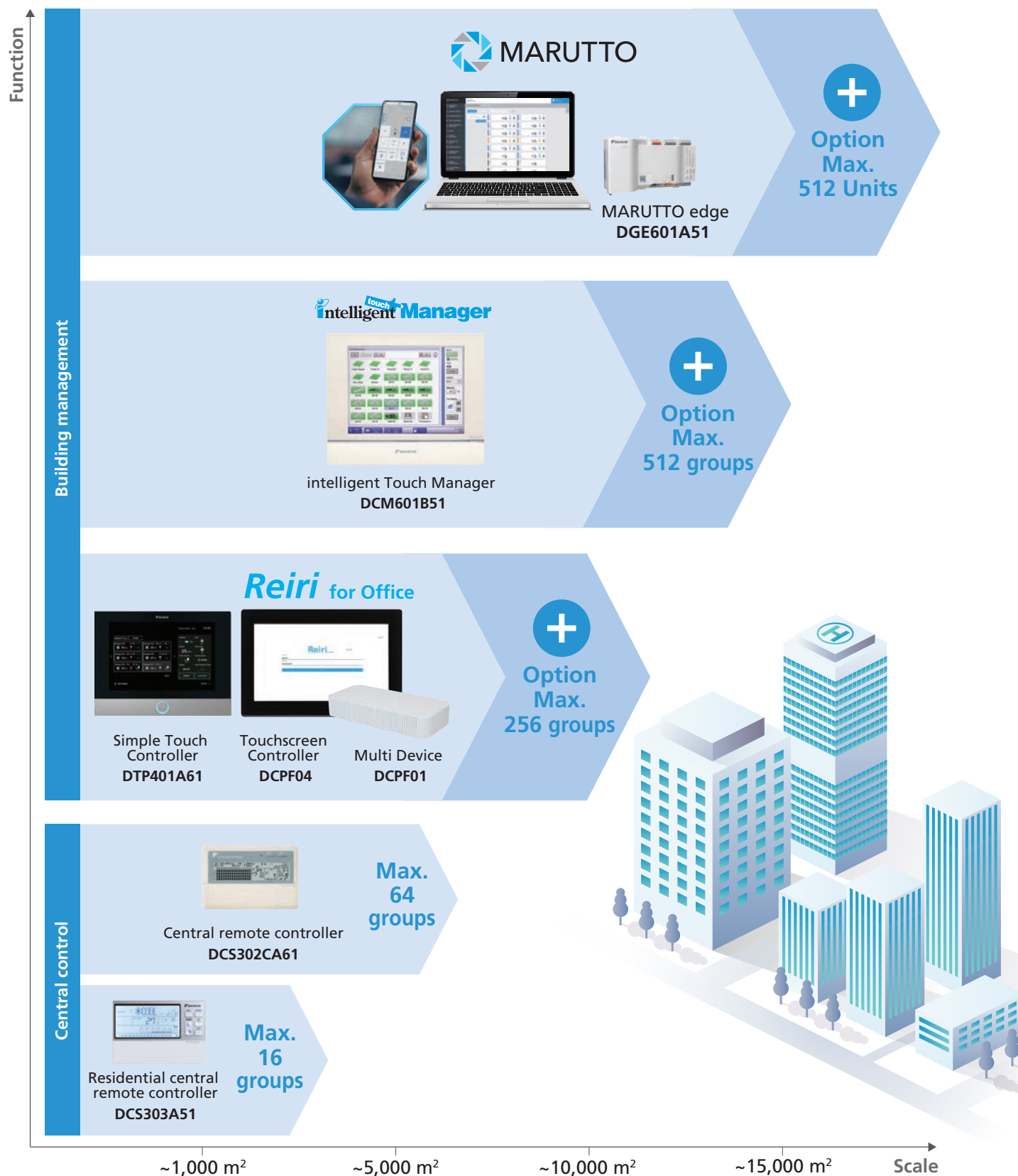
*Refer to page 302 for the name of each model.

The wired remote controller supports a wide range of control functions

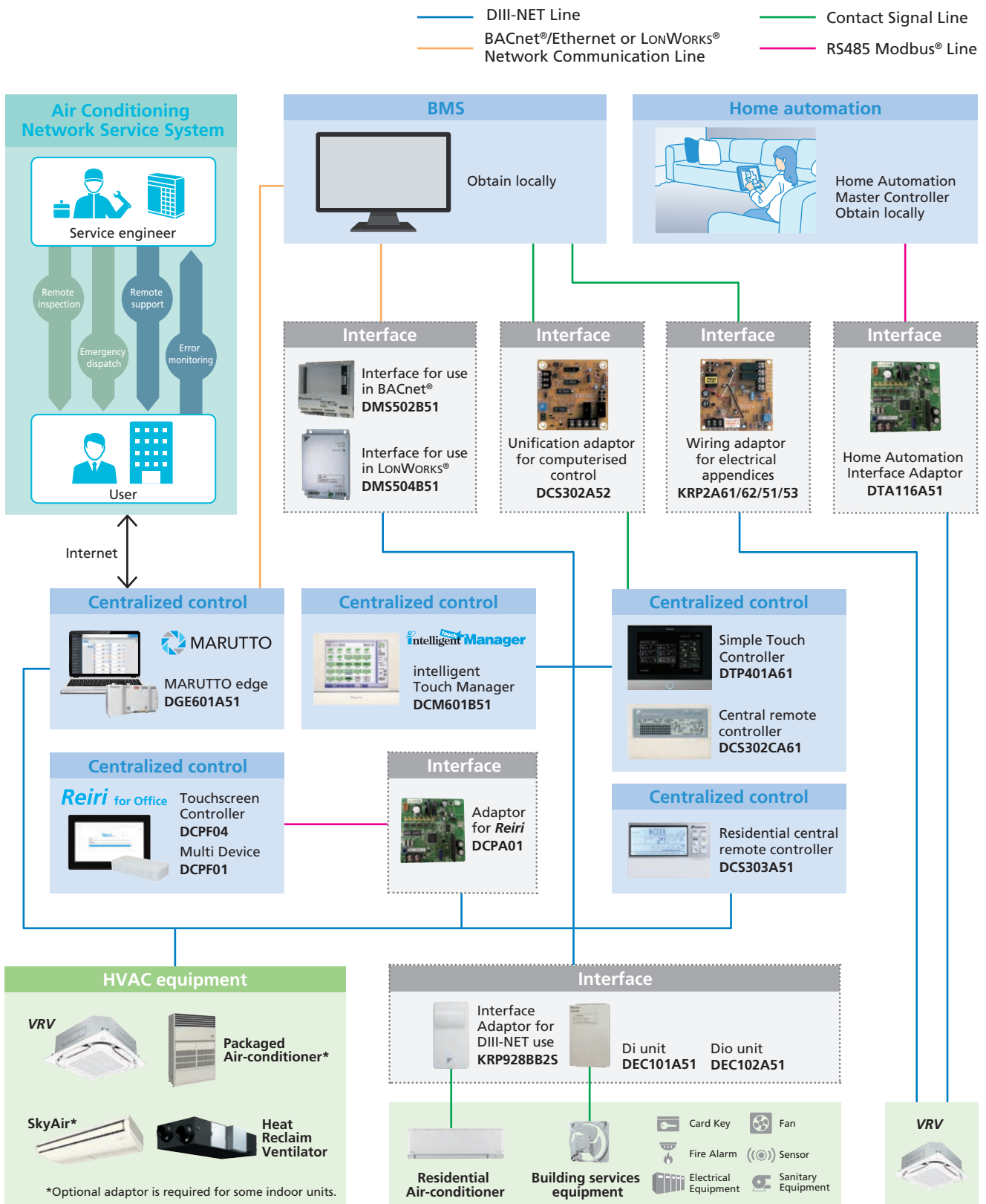


Control Systems

Centralized control lineup



Integrated system overview



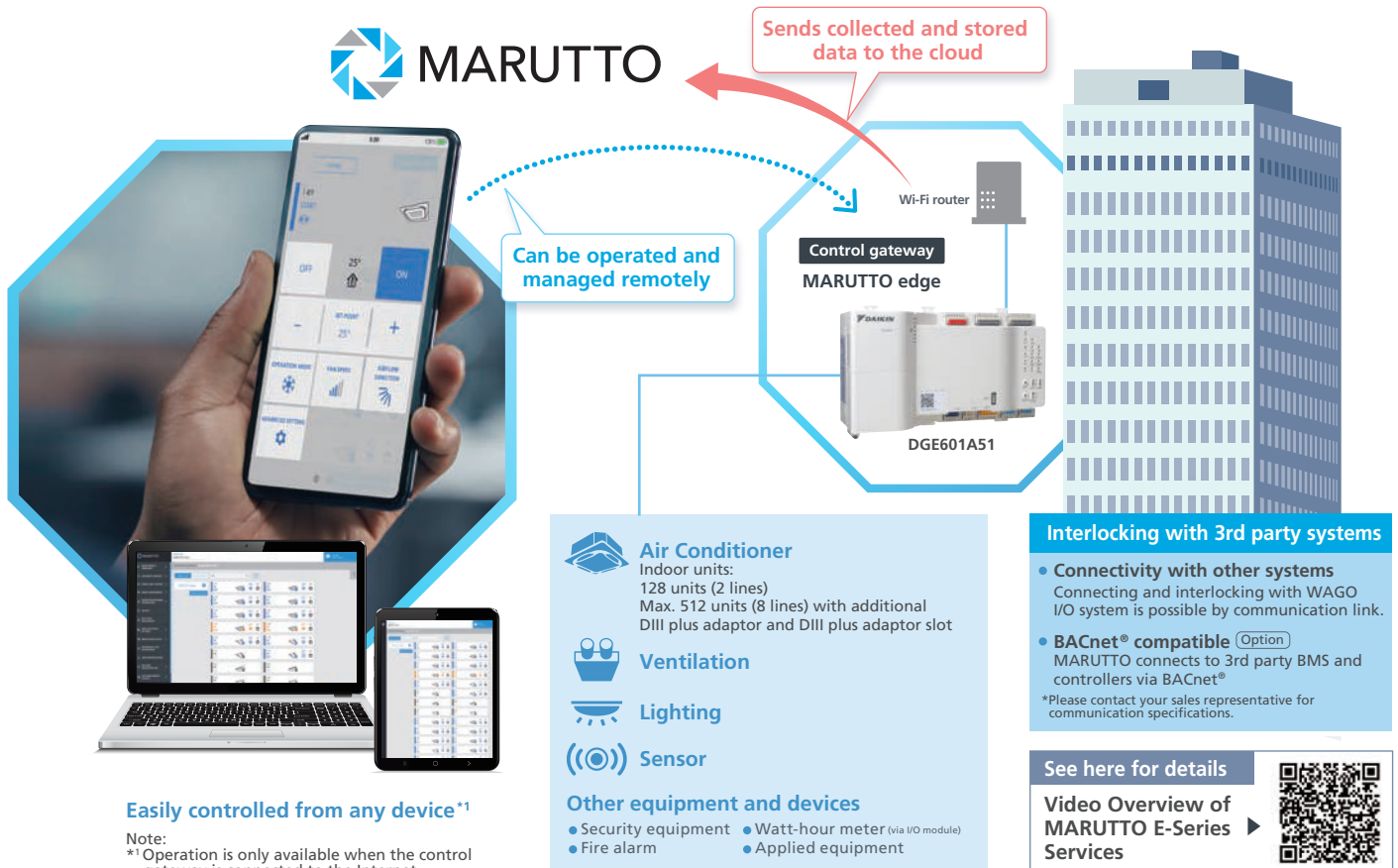
Caution: Limitation may apply to some models and functions. Please contact your local sales office for details.
Consultation is necessary before employing this control system. Please contact your local sales office before making a purchase.

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

Control Systems

Cloud-based HVAC management service

MARUTTO E-Series is an all-in-one, cloud-based management service that offers real-time control and monitoring, advanced analytics, and customized support to address HVAC lifecycle concerns.



Easily controlled from any device**

Note:
** Operation is only available when the control gateway is connected to the Internet.

Remote monitoring and control

- Multi-Device Support
- Multi-Site Management
- Layout View
- Map View

Centralized control

- Interlocking Control of Devices
- User Administration Function
- Schedule Control

Peace of mind service maintenance

- Error Notification Email
- Social Media Support (Option)

- Remote Emergency Operation (Option)
- Intelligent Maintenance (Option)

Optimised energy usage

- Energy Visualization
See page 258
- Demand Control (Option)
See page 258
- Operation Data Output Function
- PPD Function (Option)
- Energy-Saving Simulation
- AI Energy-Saving Control (Option)

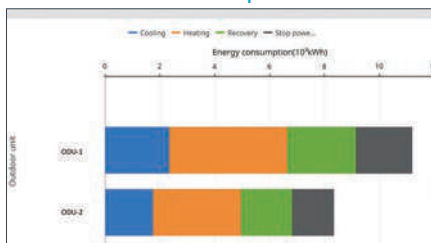
Energy Visualization

Provides graphs of energy consumption to uncover inefficient operation

Energy consumption



Outdoor unit consumption



Thermal environment



Operating monitoring



Meter monitoring



Demand Control (Option)

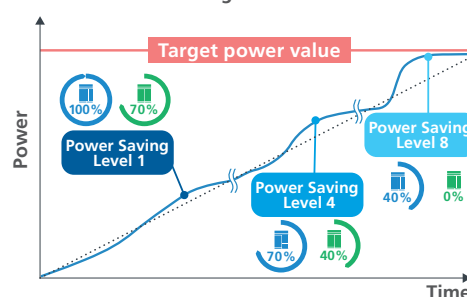
Reliably cuts power peaks without sacrificing comfort

As the power saving level increases, the power consumption reduction effect also increases.

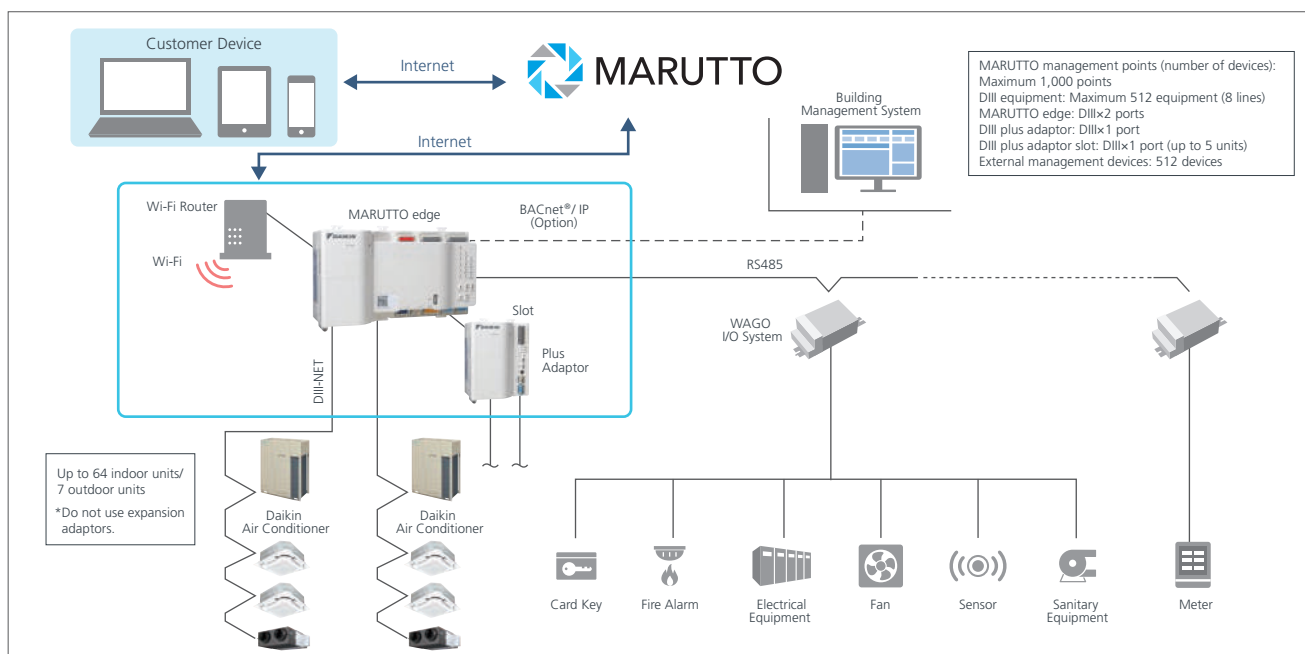
Control power consumption with three measures

- Thermo-Off of indoor unit
- Set temperature shift of indoor unit
- Outdoor unit capacity limit

Demand control image



MARUTTO System Overview



MARUTTO E-Series (standard specifications)

Common Name	Control gateway	Plus adaptor (sold separately)	Slot (sold separately)
Item Name	MARUTTO edge	DIII plus adaptor	DIII plus adaptor slot
Model Name	DGE601A51	DGE601A52	DGE601A53
Power Supply	AC100-240V 50/60Hz	AC100-240V 50/60Hz	Power supply from DIII plus adaptor
Power Consumption	23W	23W	—
Usage Environment	-10 to 50°C 85% or less	-10 to 50°C 85% or less	-10 to 50°C 85% or less
External Dimensions (Width x Height x Depth)	230 x 146 x 81.2 (mm)	97.2 x 146 x 81.2 (mm)	25.2 x 146 x 64.2 (mm)
Weight	0.97kg	0.69kg	0.13kg

* Refer to the MARUTTO E-Series individual catalogue for details.

Control Systems

Advanced control systems for **VRV** systems



Intelligent touch Manager

DCM601B51

Various types of equipment in a building can be controlled by a single controller.

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

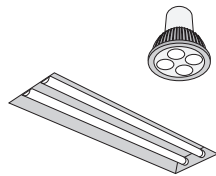
Individual air-conditioning control

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



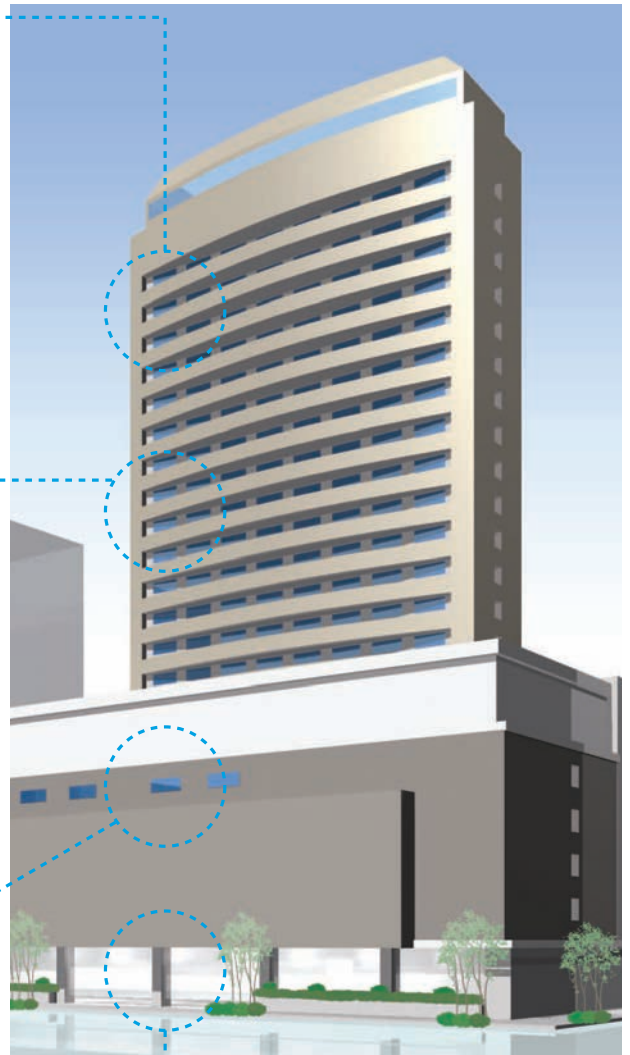
Lighting control **DALI-compatible**

DALI-compatible LED lighting systems can be controlled and monitored. Lighting control is enhanced through an interlock function with air conditioners and other functions.



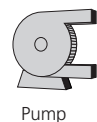
Air-conditioning control for large spaces

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.



■ For energy saving & comfort

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

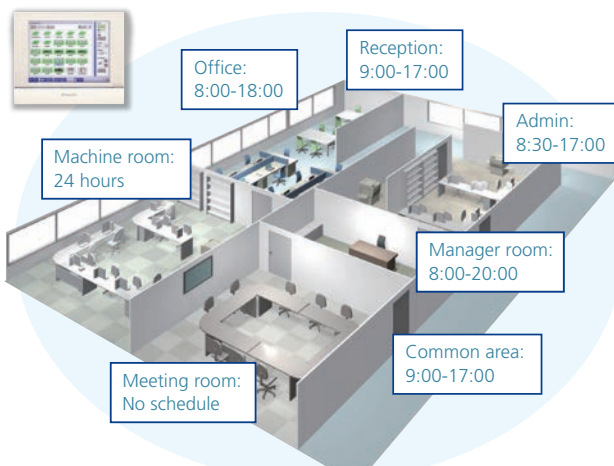
intelligent Touch Manager is an advanced multi-zone controller that provides the most cost-effective way to control and monitor the Daikin **VRV** system.

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.

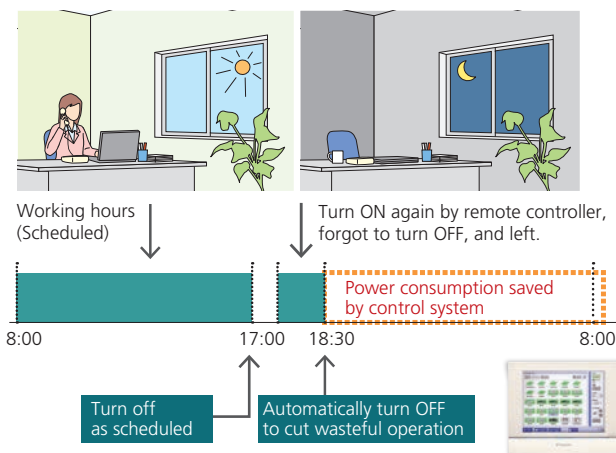
It can manage a total of 650 management points consisting of up to 512 Daikin indoor unit groups (up to 1024 indoor units) along with building equipment control / monitoring with Digital Inputs / Output (Di/Dio), Analog Inputs / Output (Ai/Ao) and Pulse input (Pi) optional devices.

Schedule the operation time for each application.



Setting the I-demand function and nighttime quiet operation function is also possible.

Turn the unit OFF if a user didn't.

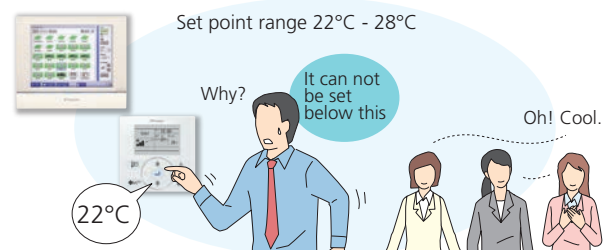


Define the setpoint range that users can change.

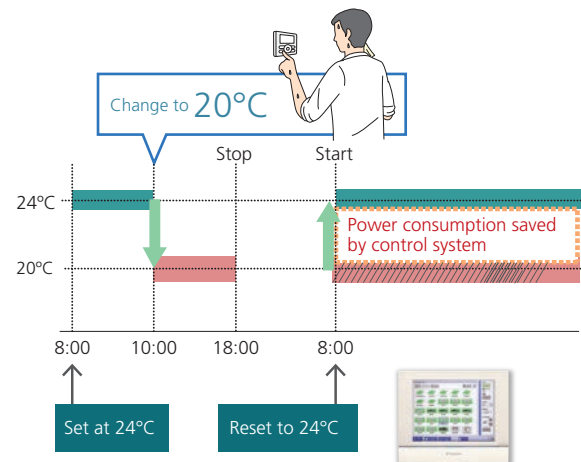
With Remote controller



With Control System



Reset setpoint regularly.



External contact demand control function

This function automatically controls outdoor and indoor unit capacity based on contact signals sent from demand controller (field supply) etc. to save power consumption during peak hours.

- You may set 3 levels that can be switched by ON/OFF signal of 3 contacts
- Control settings are pre-set for each level
- Outdoor unit: I-demand function for peak power limit
Indoor unit: Set temperature shift, Forced thermostat OFF



Control Systems

■ Lighting control (Option)

In addition to switching lights on and off, advanced lighting control, such as illuminance adjustment, can be achieved

Connection to DALI-compatible lighting control system

DALI-compatible

Please contact your local sales office for details.

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.

Lighting control achieved by the **intelligent Touch Manager**

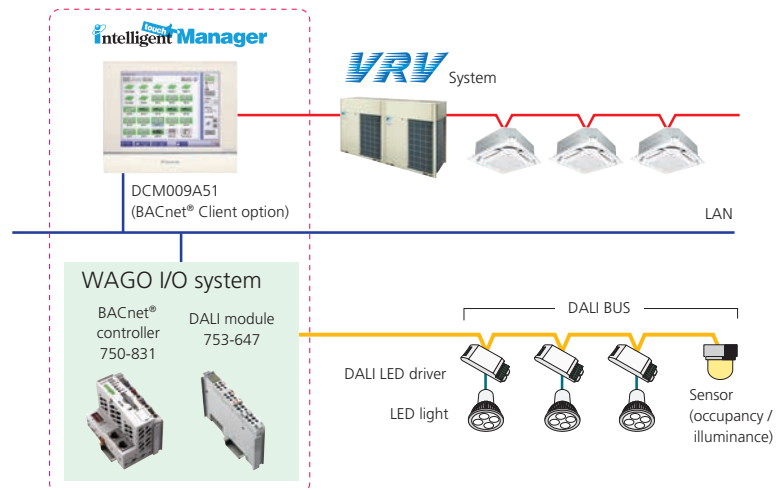
[Operation]

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

[Monitoring]

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

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



Overview of control

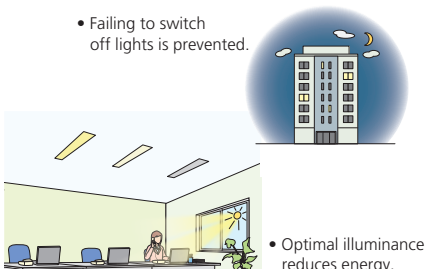
- Up to 5 DALI modules can be connected to a single BACnet® controller.
- Up to 64 DALI LED drivers (64 addresses) can be connected to a single DALI module.
- 64 DALI addresses can be freely assigned to up to 16 groups using a single DALI module. (Each group corresponds to a management point of the **intelligent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

Easy maintenance and energy saving by lighting control

Case 1

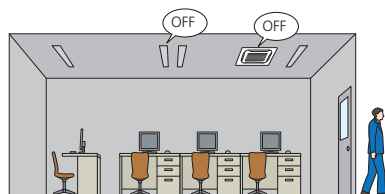
Switch-on / switch-off and illuminance are controlled based on a schedule to cut wasteful power consumption.

- Failing to switch off lights is prevented.



Case 2

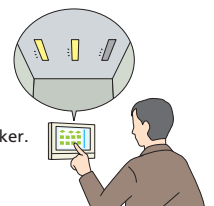
Occupancy sensors are used to eliminate both wasteful lighting and air conditioning. When a room is unoccupied, the air conditioning stops and the lighting is switched off.



Case 3

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

Lighting maintenance becomes easier and quicker.



The layout screen enables quick identification of specific locations.

Tenant management

Reporting the power consumption of **VRV** system for each tenant (PPD* Option)

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

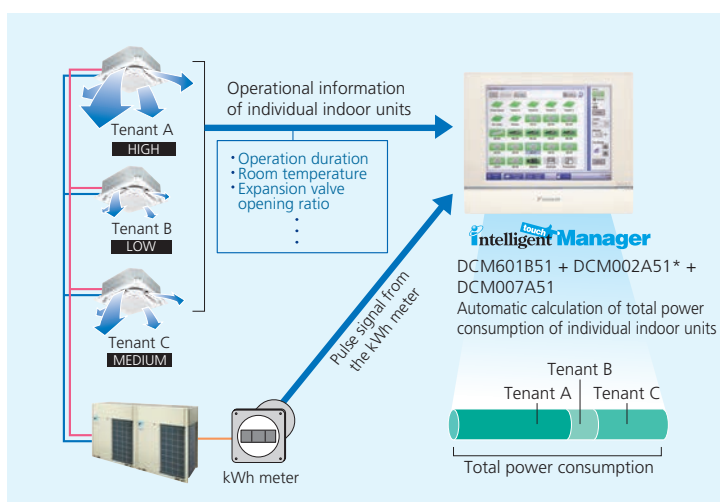
The energy consumption is proportionally calculated for each indoor unit. The data can be used for energy management and calculation of air conditioning usage fees for respective tenants.

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.

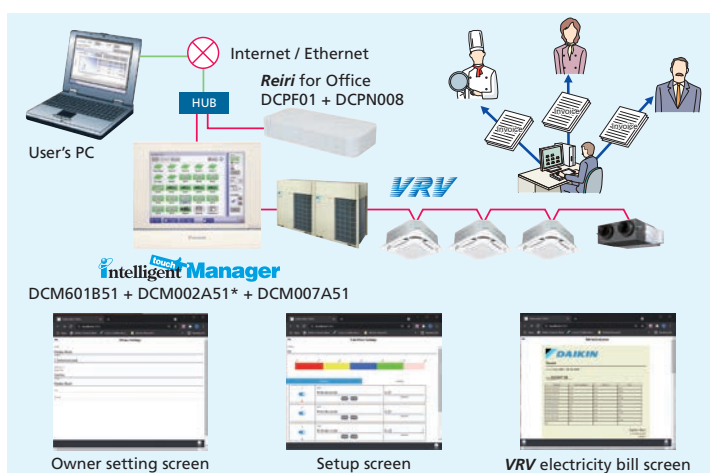
Air conditioning bills can be issued by one click (PPD* Option)

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)



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

Effective service functions offered to tenants

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

Users can operate and check the status of **VRV** system from their smartphones via the internet.

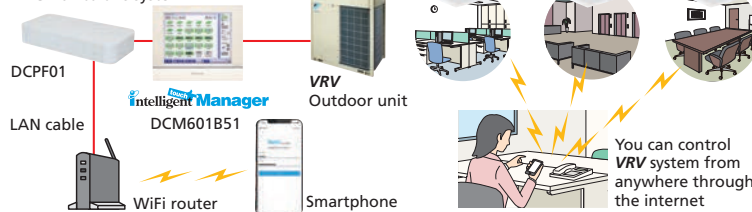
It is not necessary to move where a remote controller is located with this feature.

VRV system in other rooms can be operated, and their status can be checked. It is also possible to check if air conditioners in other rooms remain switched on etc., helping achieve energy saving.

For buildings **VRV Smartphone Remote Controller**

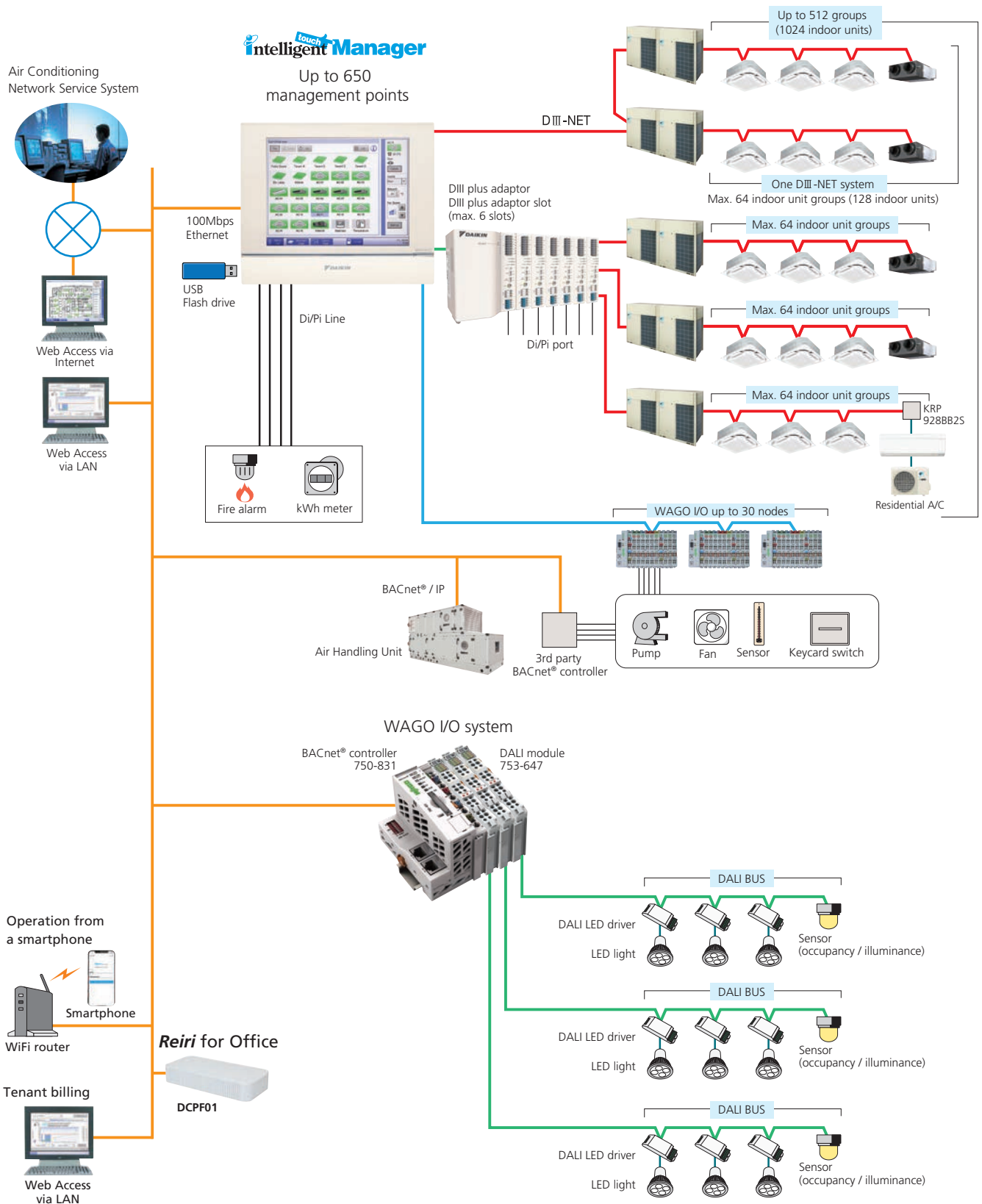
Up to 1024 indoor units can be controlled.

Just add **Reiri** for Office DCPF01 to this system



Control Systems

intelligent Touch Manager system overview



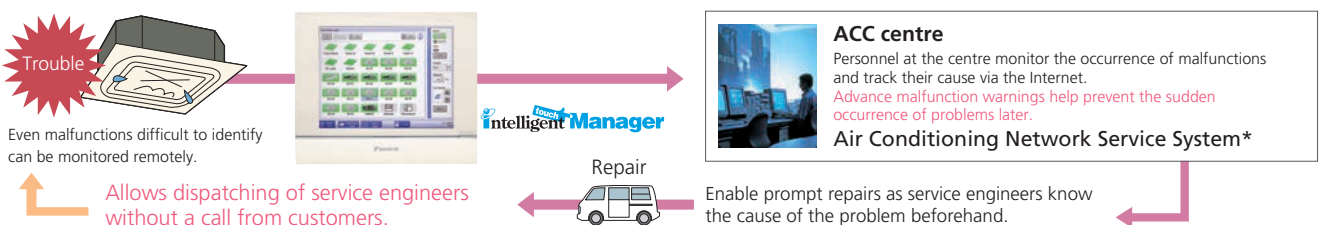
Air conditioning network service system

Preventive maintenance

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

Enhanced convenience with link to the Air Conditioning Network Service System

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



Daikin offers a variety of control systems

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

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

Dedicated interfaces make Daikin air conditioners freely compatible with open networks



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

DMS502B51 (Interface for use in BACnet®)



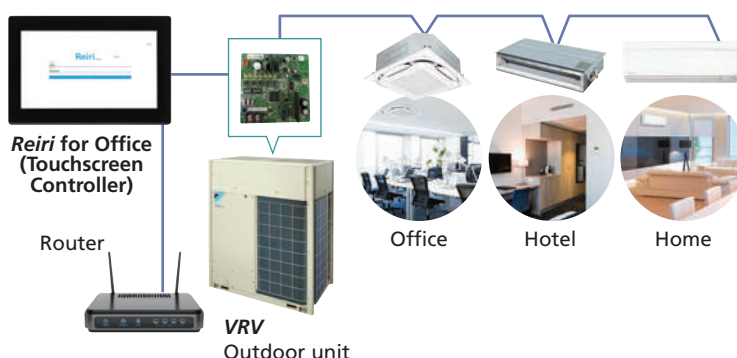
LONWORKS®
Facilitating the network integration of **VRV** system and LONWORKS®

DMS504B51 (Interface for use in LONWORKS®)

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

Specialised solution for office, home and hotel with **Reiri** Series

Catering to different applications, ranging from 10 indoor units to 2048 indoor units



- For Office Building Automation System
- For Home Smart Home Solution
- For Hotel Air Conditioning Guestroom Interlocking Management



Reiri for Office (Touchscreen Controller)



- **Reiri for Office**
- **Reiri for Office (Controller Extension)**
- **Reiri for Office (Multisite Extension)**
- **Reiri for Home**



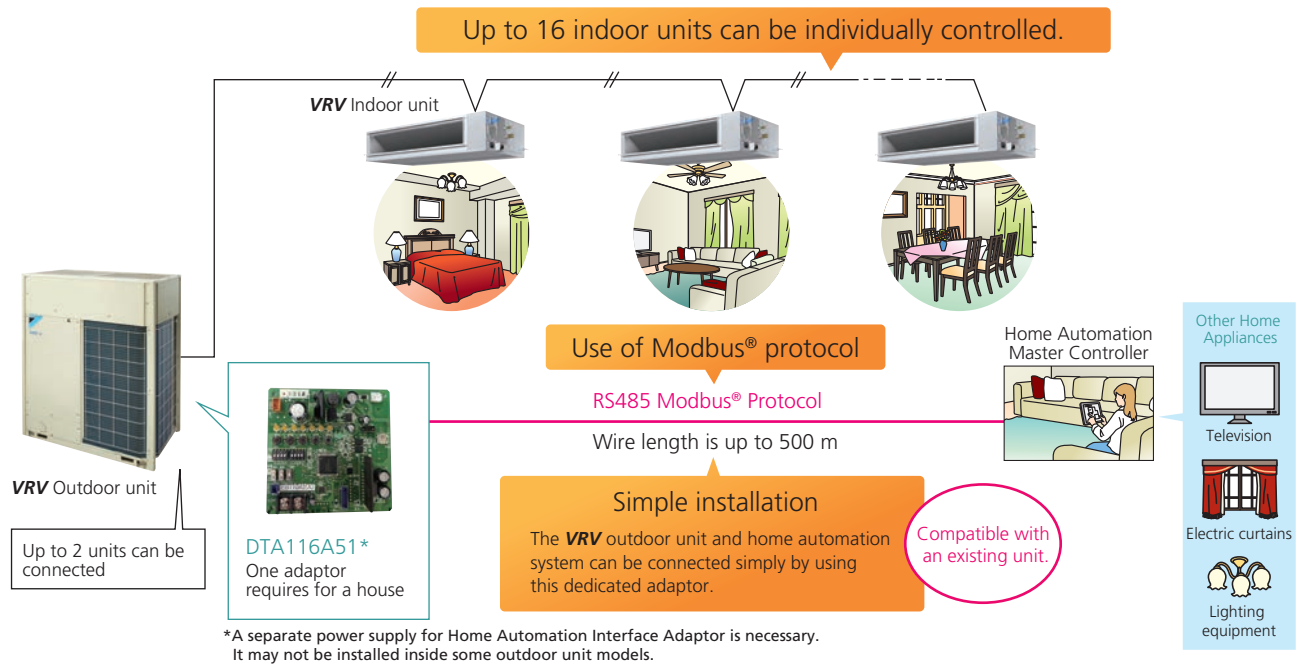
- **Reiri for Home (Lite Version)**
- **Reiri for Hotel**
- **Reiri for Resort**

Control Systems

Home automation interface adaptor

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

Image to use home automation interface adaptor DTA116A51



Functions

Monitor

On/Off	On/Off status of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Setpoint of indoor units
Room temperature	Suction temperature of indoor units
Fan direction	Swing, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Forced off status	Forced off status of indoor units
Error	Malfunction, Warning with Error code
Filter sign	Filter sign of indoor units
Communication status	Communication normal/error of indoor units

Control

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

Retrieve system information

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

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

■ Complete control system for VRV systems



High value smart solution creation for different application

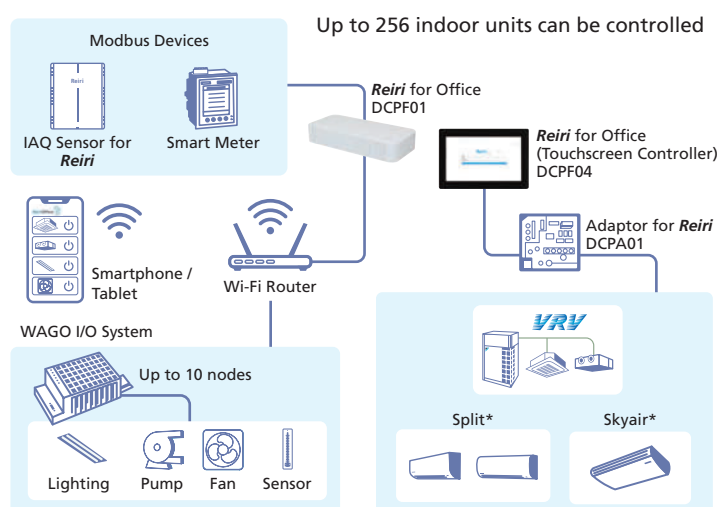
Office Air Conditioning Solution

(*Reiri* for Office :DCPF01 / *Reiri* for Office (Touchscreen Controller) :DCPF04)

A simple office buildings air conditioning solution with a secured, cloud enabled platform, allowing greater ease of control and control while being energy-efficient. The flagship model DCPF04 offers the smart control system with a dedicated touch panel.

Intelligent Building Solution

- Easy to install and configure with dedicated Configuration Mobile App for installers.
- Remote control operation through mobile App from anywhere.
- Energy management through P.P.D. billing, Energy graph and real time energy display function
- IAQ Management via real time monitoring and trend graph for keeping record.
- Effective Air conditioning usage with setpoint range limitation, set back function, remote control prohibition.



Specifications

Category	Function	Description
Monitoring & Control	Status monitoring	On/Off, setpoint, operation mode, fan step, flap, error, error code, Room temperature
	Manual Operation	On/Off, setpoint, operation mode, fan step, flap, scene control ¹
	Remote control prohibition	Individually prohibit operation of each local remote-control function
	Setpoint range limitation	To limit setpoint range for each indoor unit management point
Automatic Control functions	Automatic changeover ¹	Number of changeover groups: 100
	Off timer	Off timer duration can set from 5min to 120min with every 5min interval
	Setback ¹	Setback setpoint can selected within 24-35°C in cooling mode and 5-20°C in heating mode.
	Schedule	Number of programmes: 100; Up to 20 actions can be registered per pattern.
	Interlock ¹	Interlock operation depending on equipment status
Data Management	History, Report ¹	Operation data (latest information and operation report) and error report on daily/monthly basis.
	Trend graph ¹ , energy graph ¹	Chart on environmental changes and energy (and other meter) values.
	Real time energy display ^{1,2}	Daily/Monthly real time energy consumption status on screen.
P.P.D Billing ^{1,2}		Generate Bill with Power Proportional Distribution data retrieved from the system.
System Setting		Language, Password setting, Account setting, Notification, Email Notification

¹ Optional software for *Reiri* for Office, DCPF01

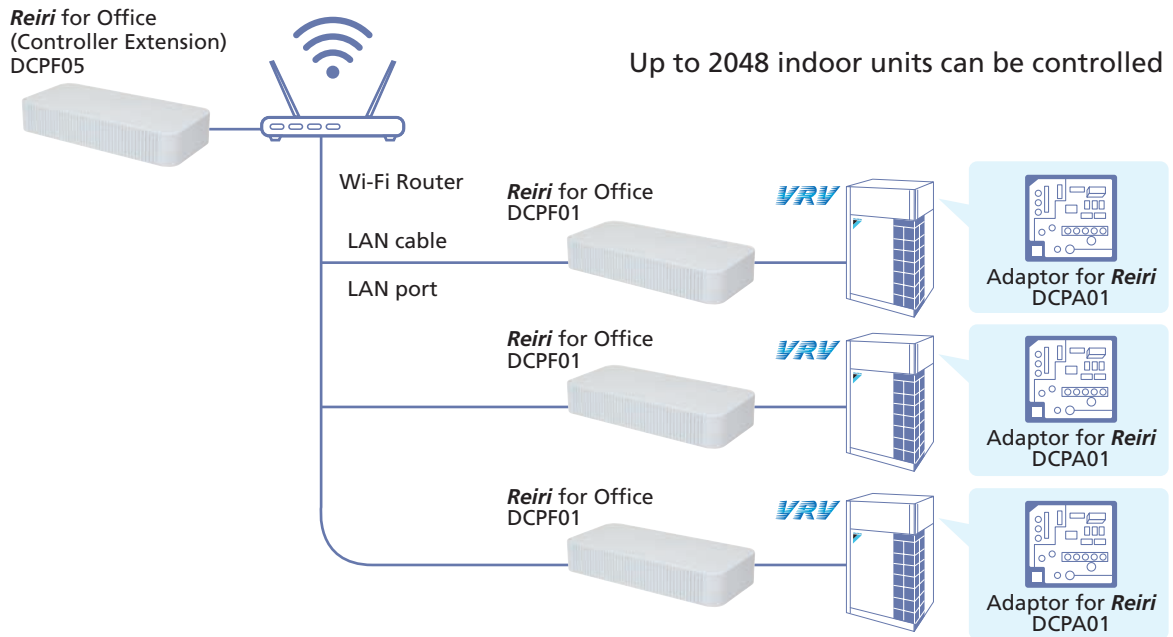
² Optional software for *Reiri* for Office (Touchscreen Controller), DCPF04

Control Systems

Office Expanded Solution (*Reiri* for Office (Controller Extension) :DCPF05)

A dedicated control solution for large scale office buildings through centralised control of multiple *Reiri* for Office controller on a single secured and cloud-enabled platform.

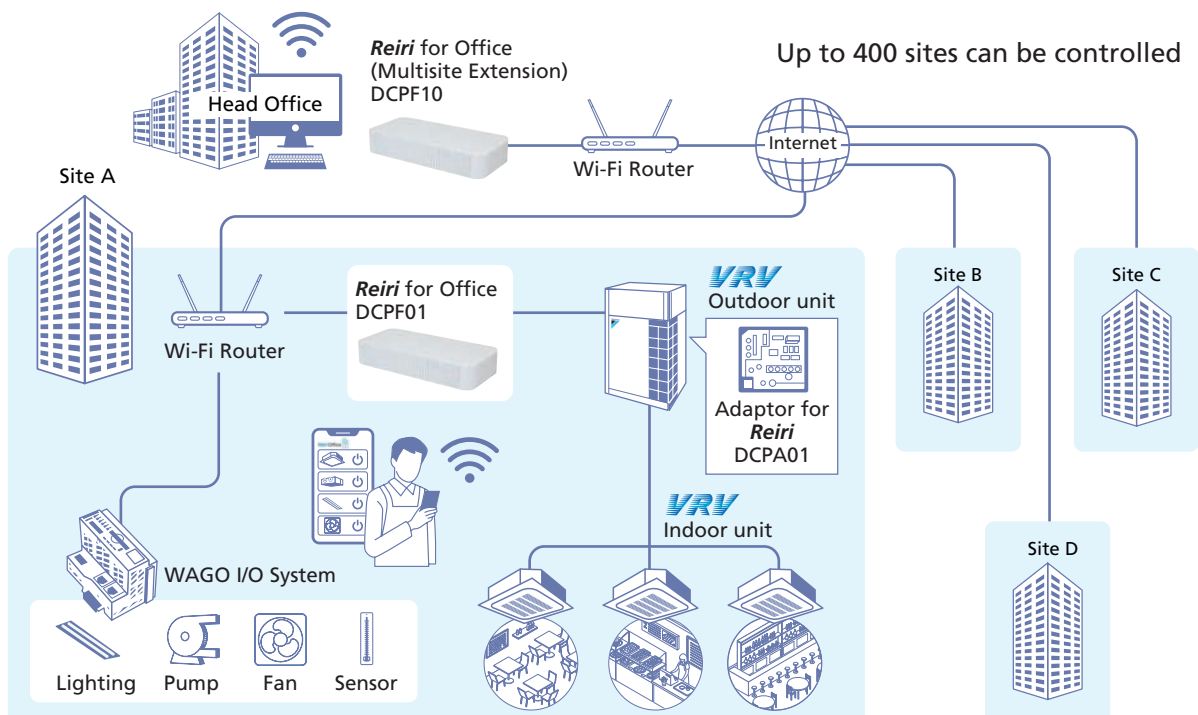
Note: P.P.D. & Tenant Billing Management and Real-Time Energy Monitoring (R.E.M.) are offered as optional software.



Multi Site Management Solution (*Reiri* for Office (Multisite Extension) :DCPF10)

Centralised control and remote access for all devices in multiple buildings across different locations conveniently located on one secured platform.

Note: Multi-site Branch Expansion is offered as optional software.



Smart Home Solution (*Reiri* for Home :DCPH01B)

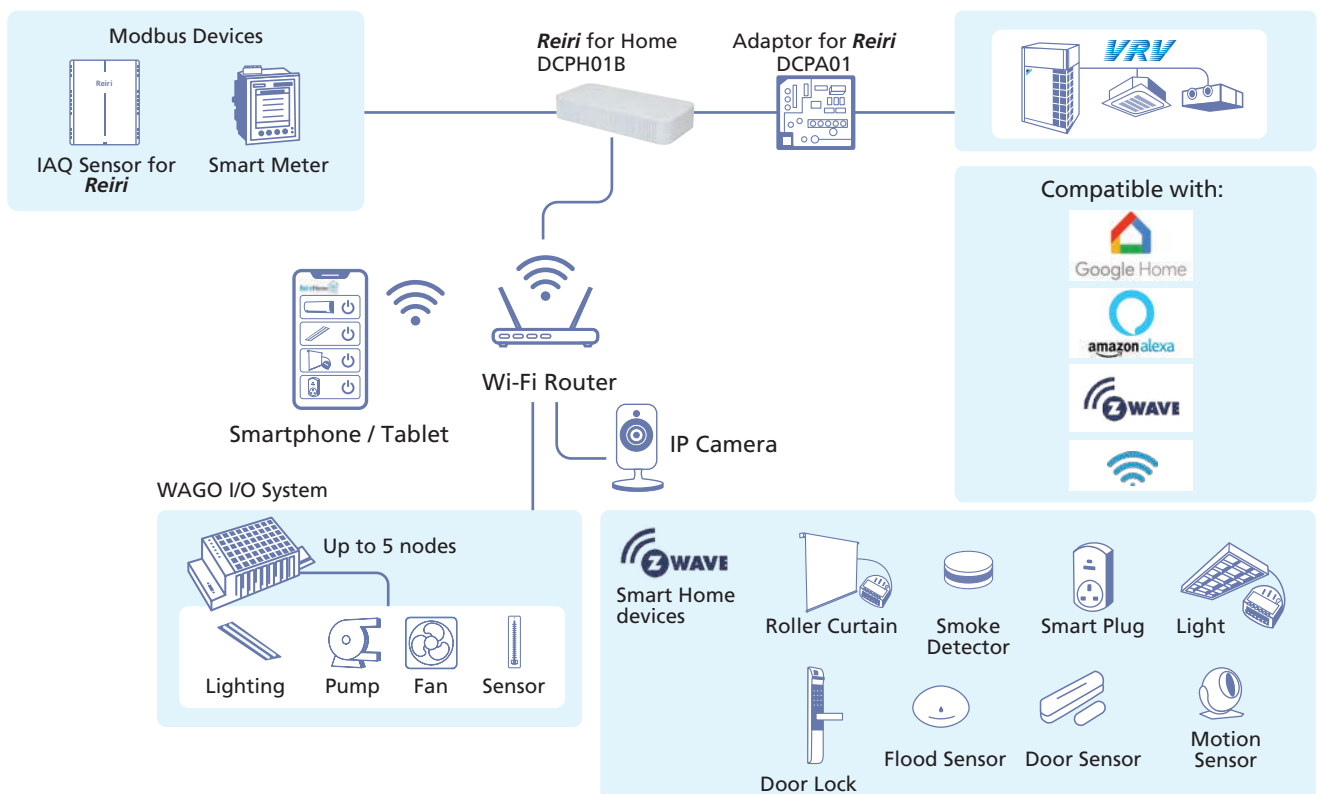
The complete smart home air conditioning solution for every homeowners with integration capabilities to allow ease and convenience of control for almost every smart devices

Complete Smart Home Solution

- Supports Zwave, WAGO, Modbus, LAN communication
- Convenience & Lifestyle
- IAQ Management
- Energy Management
- Home Security Solution
- Google Home Enabled

Note: Residential automatic control and system report is offered as optional software.

Up to 64 indoor units can be controlled



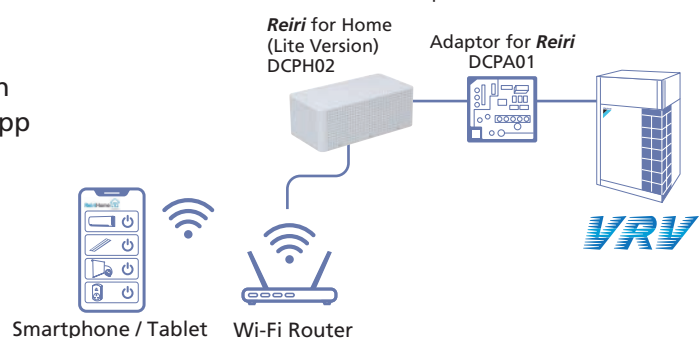
Notes: 1. Google Home and the Google Home logo are trademarks of Google LLC.
 2. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.
 3. Z-Wave® is a registered trademark of Sigma Designs and its subsidiaries in the United States and other countries.

VRV Smart Centralised Control Solution (*Reiri* for Home (Lite Version) :DCPH02)

Up to 30 indoor units can be controlled

Designed to enhance the comfort and convenience for homeowners, offering complete control of core functions in Daikin Airconditioning system remotely through app access

Note: Residential automatic control and system report is offered as optional software.



Control Systems

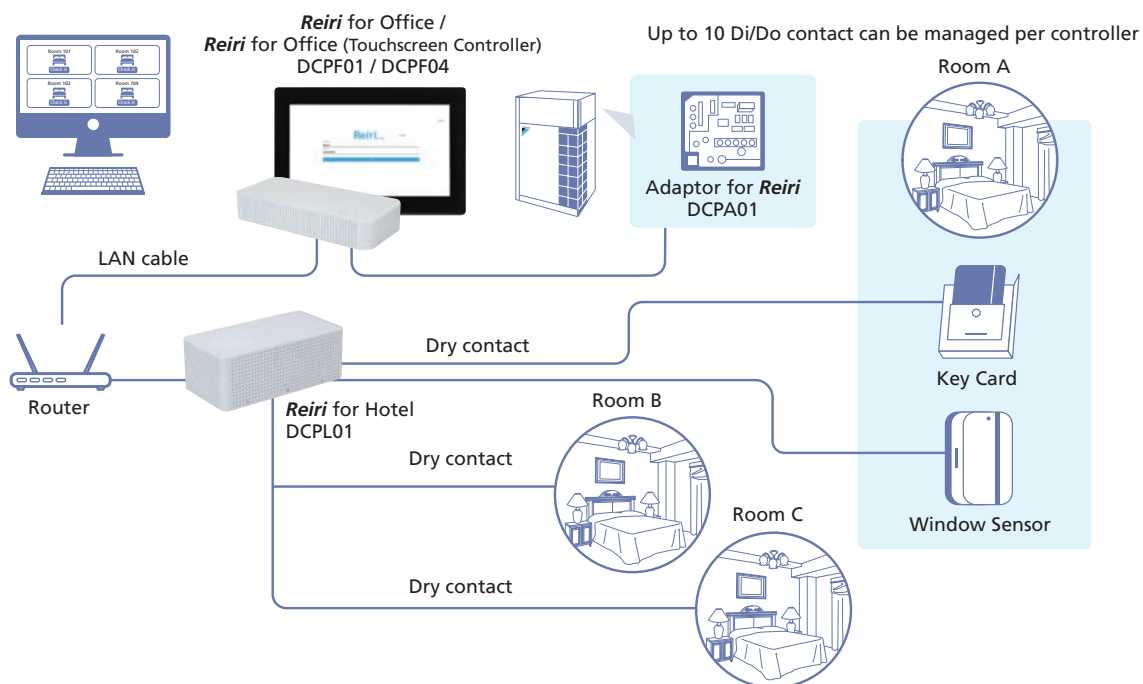
Hotel Air Conditioning Solution (*Reiri* for Hotel :DCPL01)

The smart hotel air conditioning solution for effective air conditioning operation that maximize guest comfort and minimize energy consumption in a hotel

Air Conditioning Guestroom Interlocking Management

- Automatic air conditioning control based on check in/out signal, key card signal and window open/close signal
- Guest comfort

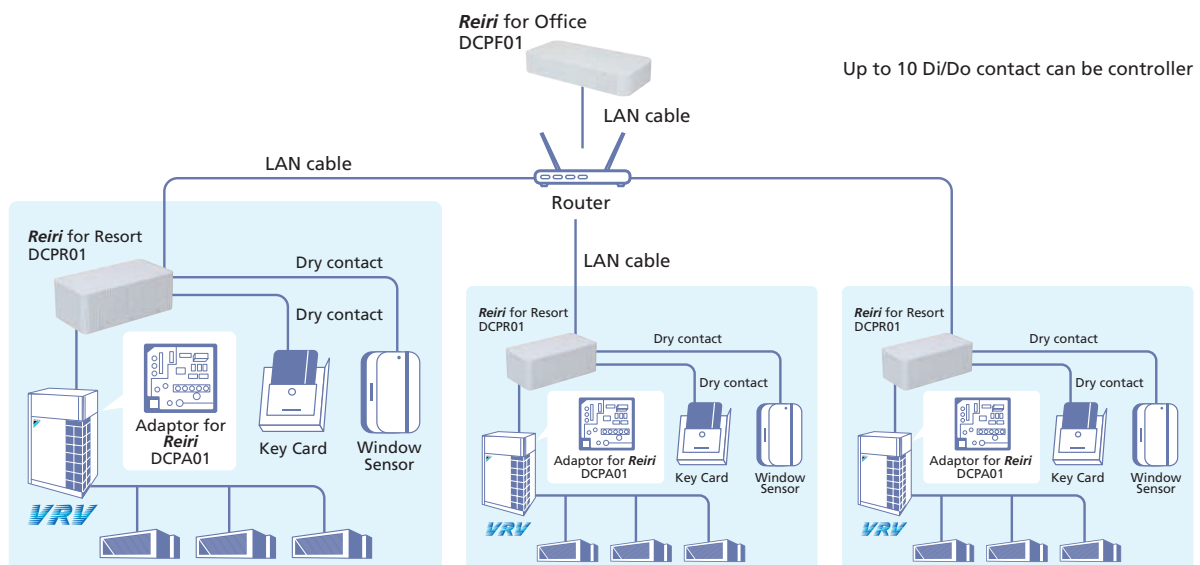
Note: The *Reiri* for Hotel controller has to be used with *Reiri* for Office / *Reiri* for Office (Touchscreen Controller) / *Reiri* for Office (Controller Extension) controller as building controller.



Villa Air Conditioning Solution (*Reiri* for Resort :DCPR01)

Designed to enhance the comfort and convenience for each villa according to use by guests

- Automatic air conditioning control based on check in/out signal, key card signal and window open/close signal
- Guest comfort



New Simple Touch Controller

Introducing the Simple Touch Controller – your perfect solution for individual, group and zone control. This central remote offers power on/off functionality and convenient timer settings. With the ability to constantly monitor the status of all connected systems, it provides real-time alerts and notifications.



**GOOD DESIGN
AWARD 2024**

All in One Remote Controller

Combined functions of central remote controller, unified On/Off controller, and schedule timer.

Versatile Aesthetic

Sleek and minimalist design that seamlessly blends in with various interior style, from modern offices to upscale residences.

Intuitive Design

Easy to navigate and operate the controller with touch screen of 8 inch.

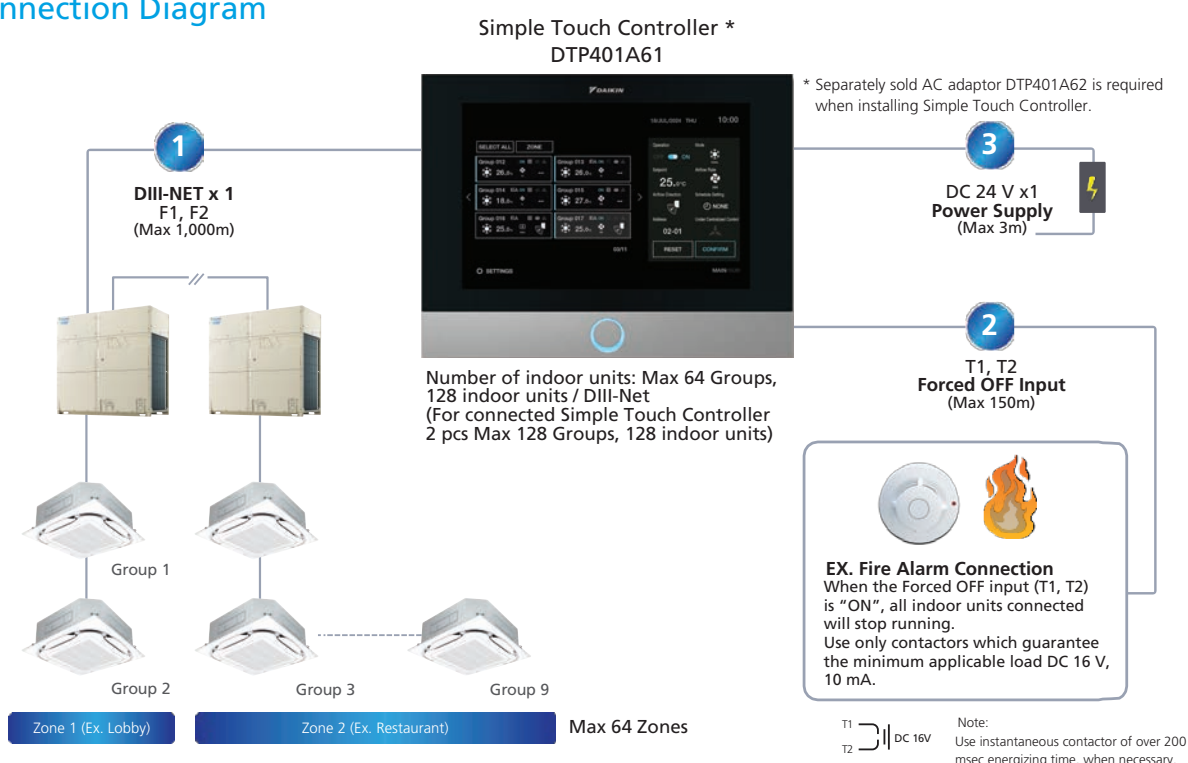
Flexibility and Adaptability

Suitable for a wide range of application across different environments.

Functions

Number of Management Groups	DIII-Net x 1 Port 64 Groups / 128 Units
Control	On/Off
	Temperature Setting
	Mode Setting
	Remote Control Acceptance / Rejection
	Air Flow Rate Setting
	Air Flow Direction Setting
Monitoring	Weekly Schedule
	On/Off Status
	Error
	Malfunction Code
	Filter Sign
Other Controls	Fan Status
	Daylight Saving Time
	Zone Control
	Forced OFF by External

Connection Diagram



Streamer Duct Chamber

BDEZ-A Series

Utilising Streamer technology to ducted indoor unit



Display panel



Lineup

Model	BDEZ500A60VE	BDEZ500A140VE	BDEZ500A510VE
Airflow range (CMH)	80-600	500-1400	1200-5100



Presentation
Movie



Streamer Duct Chamber Internal Structure

Dust collection filter (MERV 14) catches bacteria and viruses and prevents them from entering the room.

Dust Collection Filter (MERV 14)

Particulate matter as small as 2.5 µm (micrometers) can be breathed deep into the lungs. Rest assured that your air remains clean as the filter is able to remove particulate matter as small as PM2.5 with Dust Collection Filter (MERV 14) ratings in accordance to ASHRAE 52.2 Standards.

Product: Streamer Duct Chamber (Line-Up 1,2,3)
Testing Organization: Goldensea
Test Number: GS-GL-0817-2021-01/02, GS-GL-0818-2021-01
Test Method: Filter performance test based on ASHRAE 52.2-2017
Test result: The filter meets MERV 14 rating.

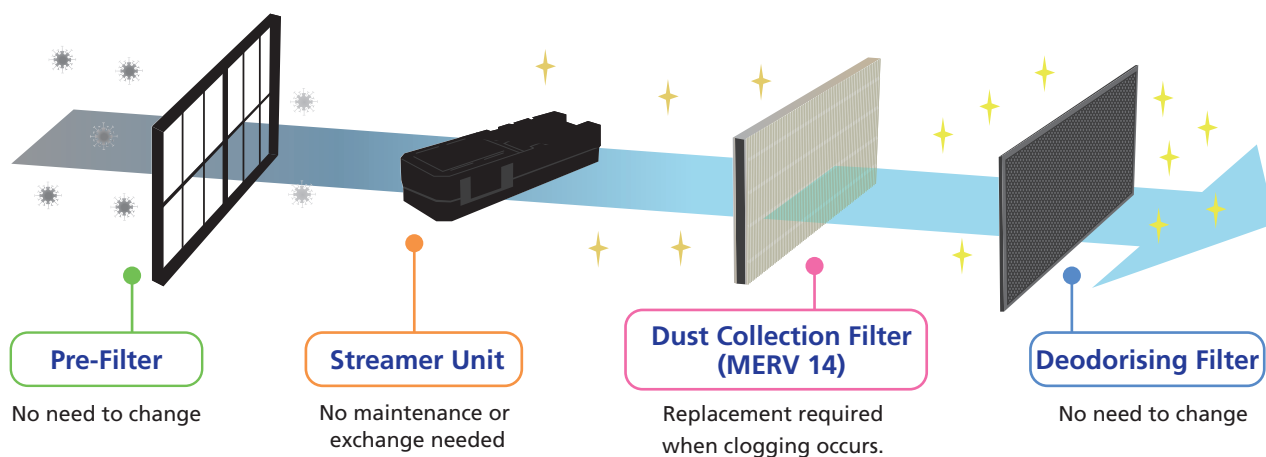
Standard 52.2 Minimum Efficiency Reporting Value	Composite Average Particle Size Efficiency, % in Size Range, µm		
	Range 1 (0.3-1.0)	Range 2 (1.0-3.0)	Range 3 (3.0-10.0)
14	75%	90%	95%

Dust Collection Filter (MERV 14) Replacement Period

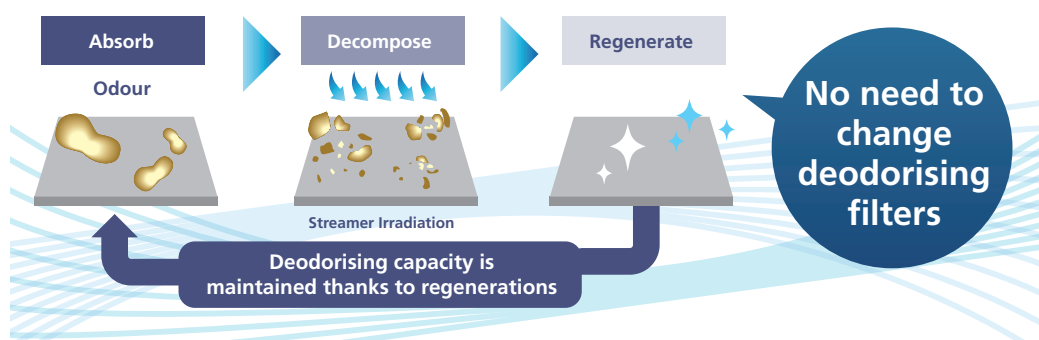
Air Quality Condition	Dust concentration (µg/m³)		Replacement period
	PM2.5	PM10	
Case 1	18.5	28.5	12 months
Case 2	35	65	6 months

Replace with a new filter when clogging occurs. The left table shows the approximate replacement time when daily operation is 9 hours and annual operation are 240 days. It shows the calculation result for two air conditions. Adjust the replacement timing in consideration of the air environment in the area where the product is actually installed and the time and day it is operated.

Filters Mechanism



Deodorising Filter



Streamer Technology

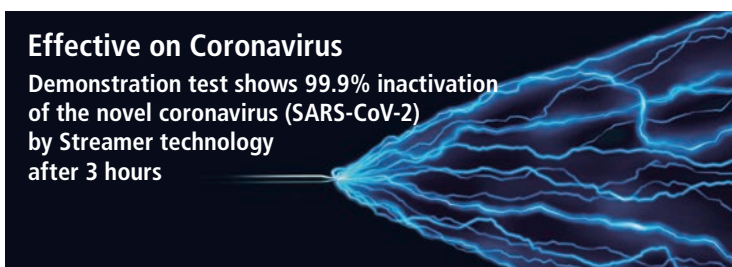


Streamer technology decomposes harmful substances caught by the filter. See page 7 - 8

Streamer technology is a unique Daikin technology that decomposes viruses, bacteria, allergens such as pollen, hazardous chemical substances such as formaldehyde, and odours with strong decomposing power.

Effective on Coronavirus

Demonstration test shows 99.9% inactivation of the novel coronavirus (SARS-CoV-2) by Streamer technology after 3 hours



DAIKIN Streamer Research Institute



Streamer Duct Chamber

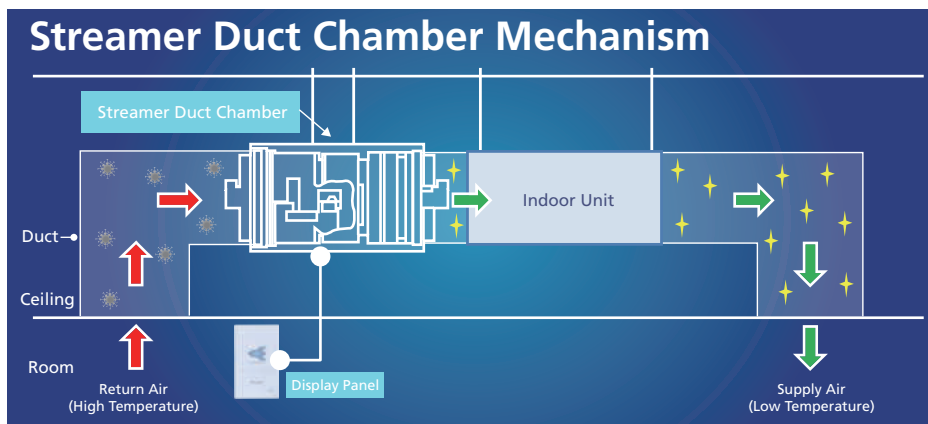


Connectable Air Conditioning

Multiple combination of ducted unit



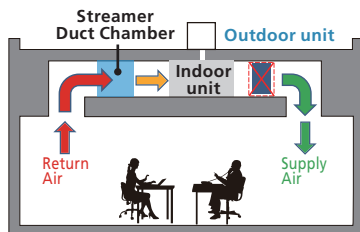
* Any ducted type indoor units except FXDSQ/FXDQ models are connectable. Refer to option list of indoor unit for details of connected models.



Installation Conditions

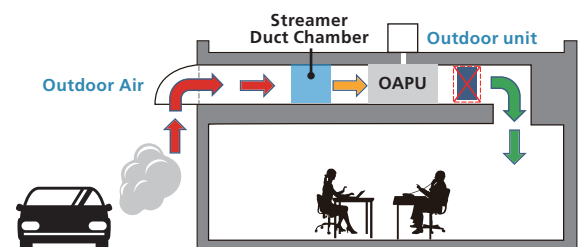
Duct Type Indoor Unit

Streamer Duct Chamber must be installed before the air conditioner unit to avoid condensation issue due to cold air draft.



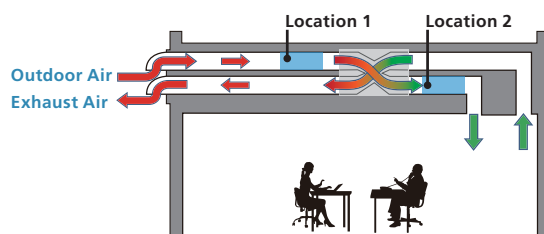
Outdoor-Air Processing Unit

Streamer Duct Chamber must be installed before the air conditioner unit to avoid condensation issue due to cold air draft. Besides, it can avoid the outdoor-air processing unit from getting dirty with the outdoor polluted air.



Heat Reclaim Ventilator

Streamer Duct Chamber can be installed in either Location 1 or Location 2. However, Location 1 is highly recommended in order to avoid VAM from getting dirty with the outdoor polluted air.





Specifications

MODEL				
		BDEZ500A60VE	BDEZ500A140VE	BDEZ500A510VE
Power supply		1 phase, 220-240 V/220 V, 50/60 Hz		
Casing dimensions	H (mm)	269	269	318
	W (mm)	419	819	1419
	D (mm)	418	418	653
Operating temperature	°C	-10 to 50		
Operating humidity	%	Max. 80%RH		
Airflow rate	CMH	80 - 600	500 - 1400	1200 - 5100
Initial pressure drop	Pa	5 - 59	18 - 76	16 - 156
Dust collection filter (MERV 14) lifespan	Months (based on median CMH)	12	12	12
Weight	kg	13	19	38
Power consumption	W	6.0	8.5	11.0
Sound pressure level		No increase in Sound Pressure Level as overall system		
Filters quantity	Pre-filter	1	2	4
	Dust collection filter (MERV14)	1	2	4
	Deodorising filter	1	2	4
Replacement filter dust collection filter (MERV 14)		BAFH500A60 (1pc)	BAFH500A140 (2pcs)	BAFH500A510 (4pcs)
Dimensions HxWxD	mm	221 × 392 × 50 (referring to 1pc only)		450 × 343 × 50 (referring to 1pc only)
Working method		DP sensor		

Precision Piping Method

A smarter way to connect refrigerant piping for **VRV** installations

Using TIGHTFIT (Daikin Gas Tight Joint) ensures safety, easy connection work and quick installation. In addition, heavy equipment, such as gas cylinders used for brazing, becomes unnecessary.



TIGHTFIT

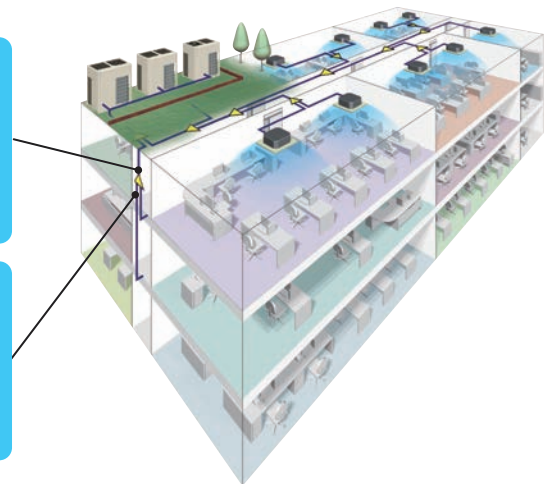
(Daikin Gas Tight Joint)

- ✓ Easy installation by tightening with a wrench
- ✓ Metal seal to eliminate gas leaks
- ✓ Function to prevent insufficient nut tightening



Non-Brazed REFNET Joint

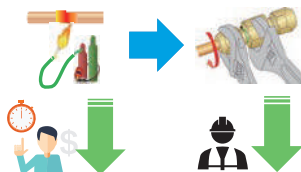
- ✓ Non-Brazed connection
- ✓ Directly connects to Tightfit
- ✓ Insulation material conforms to British Standard fire protection



Innovative problem solving for **VRV** refrigerant piping installation

Shorter installation time

Easy piping work significantly shortens installation time. This makes installation possible for projects with short deadlines while reducing labor costs.



Safety for Fire

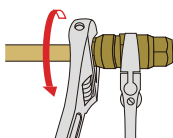
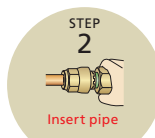
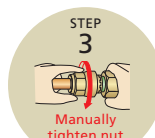
Because no brazing is involved, installation is safe with no danger of fire. This makes it ideal for installation in renewal projects.



Easy work

- Torque for tightening nut is lower than the torque of the flare nut.
- Work can be safely performed even in high locations.
- Two wrenches are used to tighten pipe connection. (No special tools required.)

Installation completed in 4 steps



Torque for tightening flare nut

75Nm

Torque for Tightfit tightening

19Nm

75%

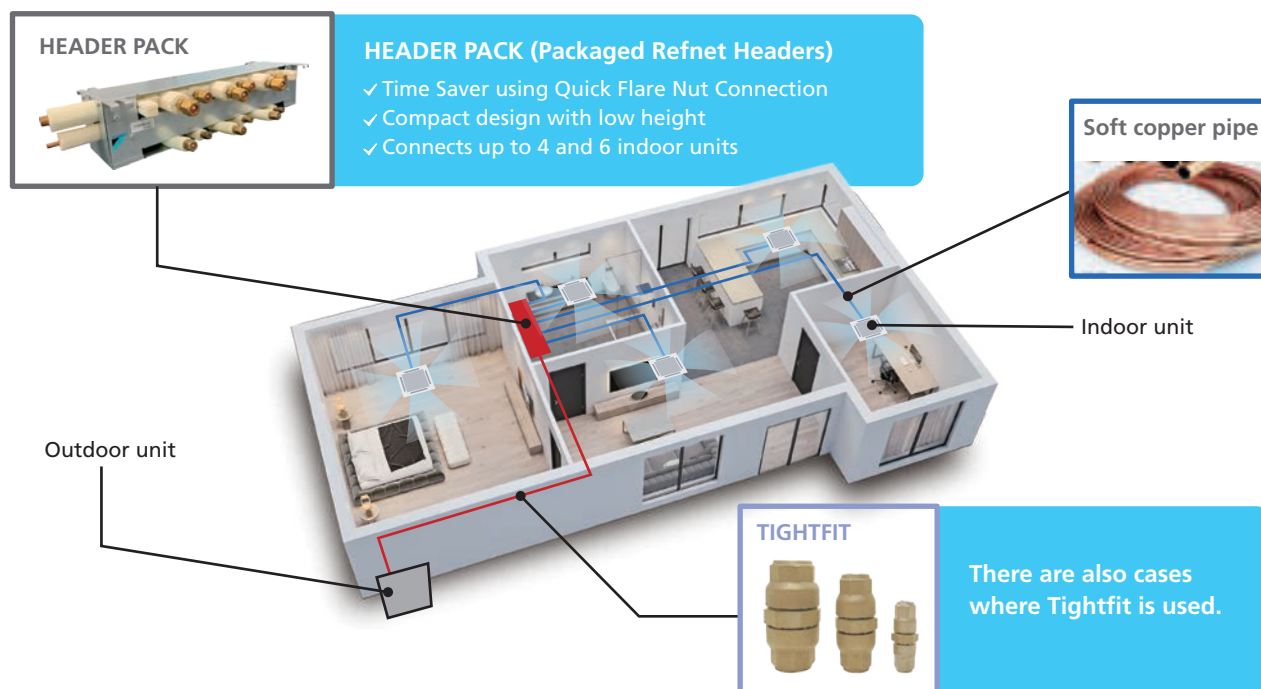
LOW TORQUE

<φ15.9 copper pipe>

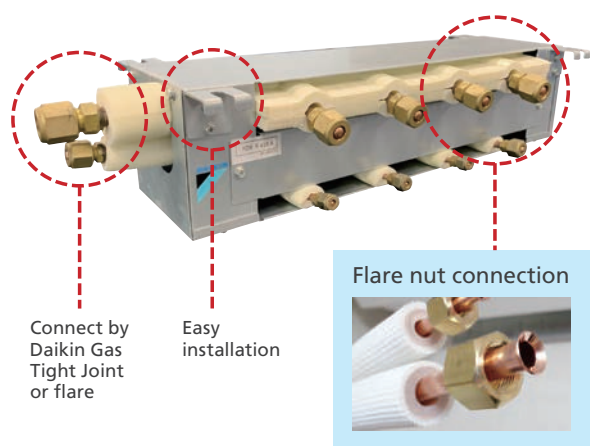


■ Easy piping connection for residential installations

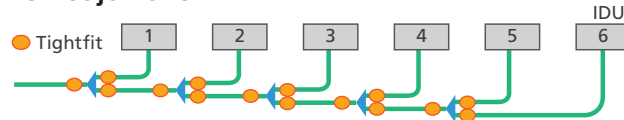
When installing a small-size **VRV** in a residential home, we suggest using a header pack to reduce construction and simplify installation. This also eliminates the need for heavy tools.



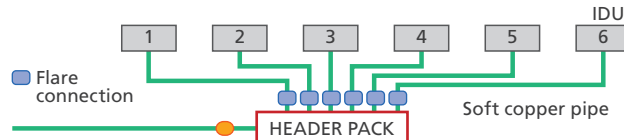
HEADER PACK



Refnet joint ×5

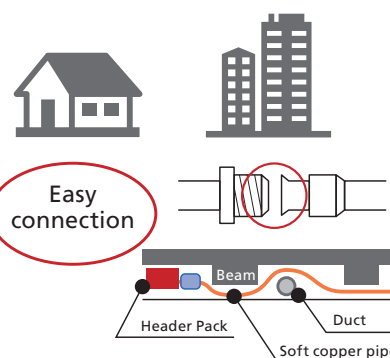


HEADER PACK ×1



Benefits of Header Pack

- Ideal for small-size properties and condominiums
- Fewer piping connections
- Flare connection makes it easy to connect
- Easy installation with substantial use of soft copper pipes (Good workability in high places and narrow spaces.)



Precision Piping Method

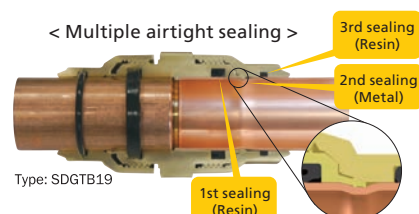
TIGHTFIT (Daikin Gas Tight Joint)

Easy to fit, tight connection

Quality assurance

Conforms to ISO14903

Tightness test: $P=4.3\text{MPa}$;
Test medium: 100% Helium, $T=22^{\circ}\text{C}$
Max leakage: $7.5 \times 10^{-7} \text{ Pa}\cdot\text{m}^3/\text{s}$ or less.
Vacuum test: 6.5kPa in absolute



TIGHTFIT full lineup

Standard Joint		Asymmetry Joint		90° Bend Joint		Test Plug	
Size	Model name	Size	Model name	Size	Model name	Size	Model name
ø6.35	SDGTC06	ø9.52-6.35	SDGTC0906	-	-	ø6.35	SDGTKB06
ø9.52	SDGTC09	ø12.70-9.52	SDGTC1209	-	-	ø9.52	SDGTKB09
ø12.70	SDGTC12	ø15.88-12.70	SDGTC1512	-	-	ø12.70	SDGTKB12
ø15.88	SDGTC15	ø19.05-15.88	SDGTC1915	-	-	ø15.88	SDGTKB15
ø19.05	SDGTB19	ø22.22-19.05	SDGTB2219	-	-	ø19.05	SDGTKB19
ø22.22	SDGTB22	ø25.40-22.22	SDGTB2522	ø22.22	SDGTLB22	ø22.22	SDGTKB22
ø28.58	SDGTB28	ø28.58-25.40	SDGTB2825	ø28.58	SDGTLB28	ø28.58	SDGTKB28
ø34.92	BDGTA34	ø34.92-28.58	SDGTB3428	-	-	-	-
ø41.28	BDGTA41	-	-	-	-	-	-

TIGHTFIT lineup expansion

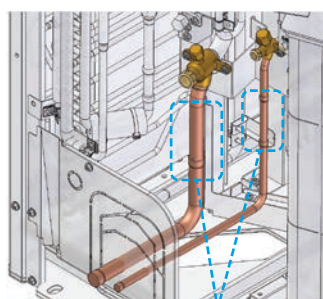
With growing demand for Tightfit, additional sizes have been added to increase the areas of application.
** This KMJ series comes with default insulation included with every unit of Tightfit

Standard Joint		Asymmetry Joint		90° Bend Joint		Test Plug	
Size	Model name	Size	Model name	Size	Model name	Size	Model name
ø25.00	KMJ25B	ø31.00-25.00	KMJR3128B	ø25.00	KMJE25B	-	-
ø31.00	KMJ31B	-	-	-	-	-	-
ø38.00	KMJ38B	-	-	-	-	-	-

Improved TIGHTFIT connection workability for VRV 6 series NEW

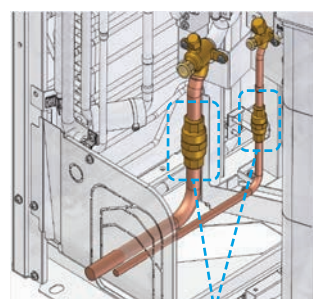
By changing the connection method of refrigerant piping from brazing to TIGHTFIT (Daikin Gas Tight Joint) connection, construction is simplified and installation quality is improved.

Conventional models



Brazing

New models

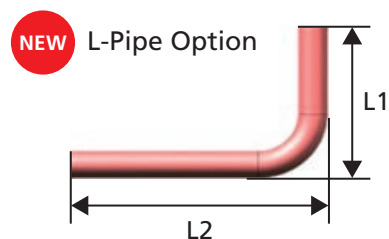


TIGHTFIT (Daikin Gas Tight Joint)

■ New L-pipe for front connection (Option) NEW

New dedicated L-pipe for front connection is added to the lineup. The table below shows the compatibility of the outdoor unit with TIGHTFIT and dedicated L-pipe.

Size (mm)	L-pipe model name	Length (mm) L1	Length (mm) L2
19.05	SDGTEB19-CU	120	200
19.05	SDGTEB19-CUL	120	400
22.22	SDGTEB22-CU	120	200
28.58	SDGTEB28-CU	120	200



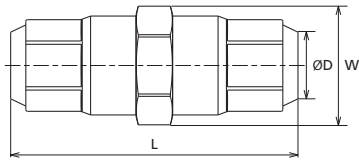
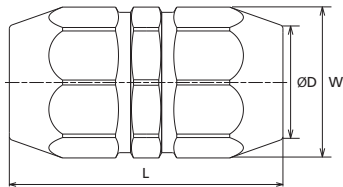
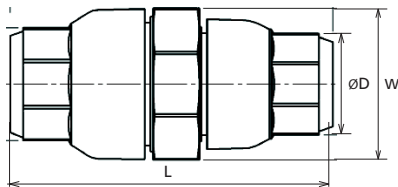
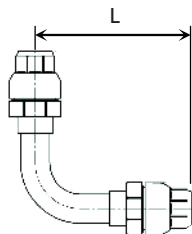
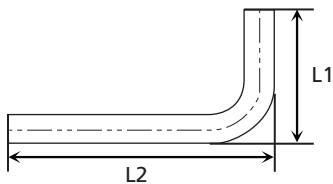
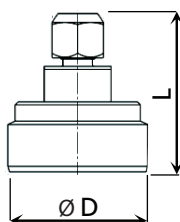
L-Pipe compatibility with **VRV 6 X** series

VRV 6 X	Pipe Type	Pipe Size		Tightfit		L-Pipe Option
		Outdoor Unit	Field Pipe	Model 1	Model 2	
6-8HP	Gas	19.05	19.05	SDGTB19	SDGTB19	SDGTEB19-CU
	Liquid	9.50	9.50	SDGTC(B)09	SDGTC(B)09	-
10HP	Gas	25.40	22.22	SDGTB2522	SDGTB22	SDGTEB22-CU
	Liquid	12.70	9.50	SDGTC(B)1209	SDGTC(B)09	-
12-16HP	Gas	25.40	28.58	SDGTB2825	SDGTB28	SDGTEB28-CU
	Liquid	12.70	12.70	SDGTC(B)12	SDGTC(B)12	-
18-20HP	Gas	28.58	28.58	SDGTB28	SDGTB28	SDGTEB28-CU
	Liquid	12.70	15.90	SDGTC(B)1512	SDGTC(B)15	-

L-Pipe compatibility with **VRV H / VRV 6 A** series

VRV H VRV 6 A	Pipe Type	Pipe Size		Tightfit		L-Pipe Option
		Outdoor Unit	Field Pipe	Model 1	Model 2	
8HP	Gas	19.05	19.05	SDGTB19	SDGTB19	SDGTEB19-CU
	Liquid	9.50	9.50	SDGTC(B)09	SDGTC(B)09	-
10HP	Gas	25.40	22.22	SDGTB2522	SDGTB22	SDGTEB22-CU
	Liquid	9.50	9.50	SDGTC(B)09	SDGTC(B)09	-
12HP	Gas	25.40	28.58	SDGTB2825	SDGTB28	SDGTEB28-CU
	Liquid	9.50	12.70	SDGTC(B)1209	SDGTC(B)12	-
14-16HP	Gas	25.40	28.58	SDGTB2825	SDGTB28	SDGTEB28-CU
	Liquid	12.70	12.70	SDGTC(B)12	SDGTC(B)12	-
18-20HP	Gas	28.58	28.58	SDGTB28	SDGTB28	SDGTEB28-CU
	Liquid	12.70	15.90	SDGTC(B)1512	SDGTC(B)15	-
22HP	Gas	28.58	28.58	SDGTB28	SDGTB28	SDGTEB28-CU
	Liquid	15.90	15.90	SDGTC(B)15	SDGTC(B)15	-
24HP	Gas	28.58	34.90	SDGTB28	SDGTB3428	SDGTEB28-CU
	Liquid	15.90	15.90	SDGTC(B)15	SDGTC(B)15	-
26HP	Gas	28.58	34.90	SDGTB28	SDGTB3428	SDGTEB28-CU
	Liquid	15.90	19.05	SDGTB1915	SDGTB19	SDGTEB19-CUL

■ Dimension & Weight



Standard Joint

Size	L (mm)	W (mm)	Weight (g)
ø6.35	50.4	15.0	43.0
ø9.52	55.0	19.9	79.0
ø12.70	59.0	23.5	113.0
ø15.88	74.0	30.0	210.0
ø19.05	76.8	34.6	273.0
ø22.22	83.4	40.2	292.0
ø28.58	88.0	46.7	515.0
ø34.92	101.5	51.1	686.0
ø41.28	103.5	58.3	881.0

Asymmetry Joint

Size	L (mm)	W (mm)	Weight (g)
ø9.52-ø6.35	52.7	19.9	67.0
ø12.70-ø9.52	57.5	23.5	101.0
ø15.88-ø12.70	65.0	30.0	164.0
ø19.05-ø15.88	76.8	34.6	244.0
ø22.22-ø19.05	81.5	40.2	358.0
ø25.40-ø22.22	85.8	43.5	444.0
ø28.58-ø25.40	88.1	46.7	505.0
ø34.92-ø28.58	101.5	51.1	645.0

90° Bend Joint

Size	L (mm)	Weight (g)
ø22.22	120.0	655.7
ø28.58	145.0	968.4

L-pipe NEW

Size	Lenght (mm) L1	Lenght (mm) L2
ø19.05	120.0	200.0/400.0
ø12.22	120.0	200.0
ø28.58	120.0	200.0

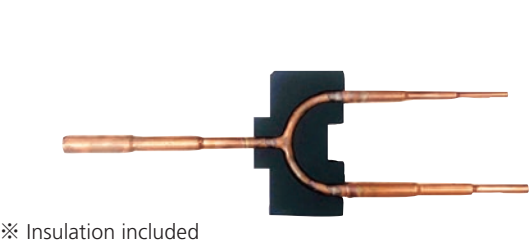
Test Plug

Size	L (mm)	W (mm)	Weight (g)
ø6.35	43.0	15.0	53.0
ø9.52	44.0	20.0	67.6
ø12.70	46.0	23.0	73.4
ø15.88	50.0	30.0	96.6
ø19.05	52.0	34.0	111.7
ø22.22	54.0	40.0	135.6
ø28.58	54.0	46.0	146.0

Non-Brazed REFNET Joint

Direct connection to TIGHTFIT

This kit is designed as a refrigerant branch kit for connecting the main and branch pipes of **VRV** indoor units without brazing.



Lineup

Indoor unit total capacity index	Model name	
	2 pipes	3 pipes
X < 290	BHRG26A33T	BHRG25A33T
290 ≤ X < 640	BHRG26A72T	BHRG25A72T
640 ≤ X	BHRG26A73T	BHRG25A73T

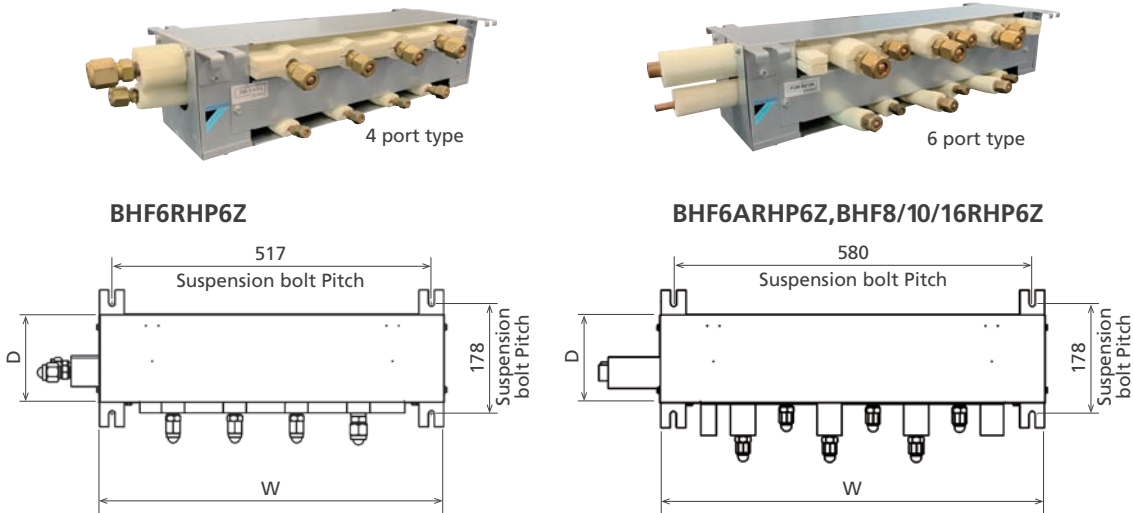
- Case 1: If the pipe of the REFNET joint has the same size as the field pipe, cut it at the same size and connect it to the field pipe with the standard type of Daikin Gas Tight Joint.
- Case 2: If the pipe of the REFNET joint has not the same size as the field pipe, use the Asymmetry joint (Reducer).

HEADER PACK (Packaged Refnet Headers)

Simple & Quick Installation

HEADER PACK Lineup

Model name	Outdoor unit side	Indoor unit side (Flare)		Indoor unit total capacity index	Dimension (mm)		
	Liquid / Gas (mm)	Port	Liquid / Gas (mm)		H	D	W
BHF6RHP6Z	9.5 / 15.9 (Flare)	4	Large x1 Small x3	≤ 150	135	143	559
BHF6ARHP6Z	9.5 / 15.9 (Flare)	6	Large x2 Small x4	≤ 150	135	143	623
BHF8RHP6Z	9.5 / 19.1 (Daikin Gas Tight Joint)	6	Large x3 Small x3	≤ 200	135	143	623
BHF10RHP6Z	9.5 / 22.2 (Daikin Gas Tight Joint)	6	Large x3 Small x3	< 290	135	143	623
BHF16RHP6Z	12.7 / 28.6 (Daikin Gas Tight Joint)	6	Large x3 Small x3	< 420	135	143	623

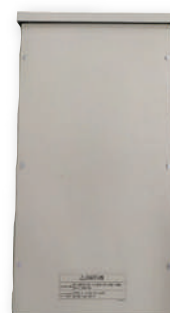


Active Filter Unit

BACF22E5 (Option) For *VRV* X MAX / A MAX series

In an electric power system, a harmonic is a voltage or current that is distorted and deviate from sinusoidal waveforms. The distorted waveforms occur from the composition of a frequency that is an integer multiple of the fundamental frequency of the power supply.

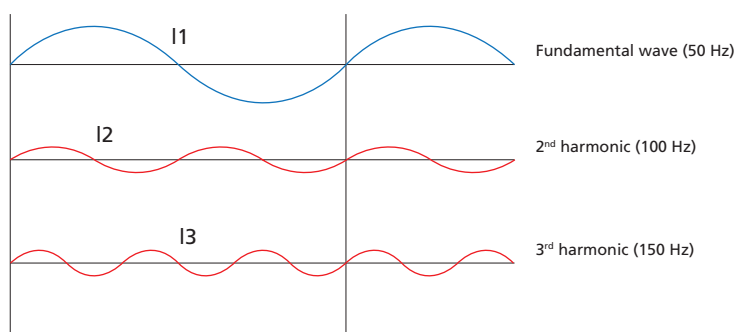
Harmonics generated by power semiconductor devices can travel through wires and may have negative effects such as equipment malfunctions and damage, vibrations, strange noises, etc.



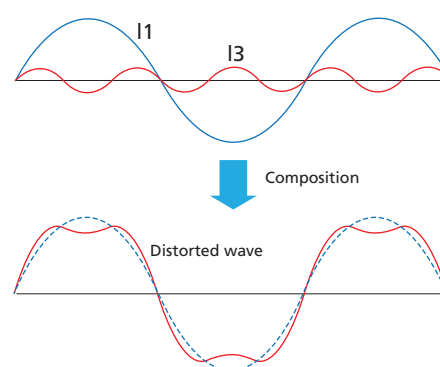
Front view



Side view



(a) Fundamental wave – harmonic wave



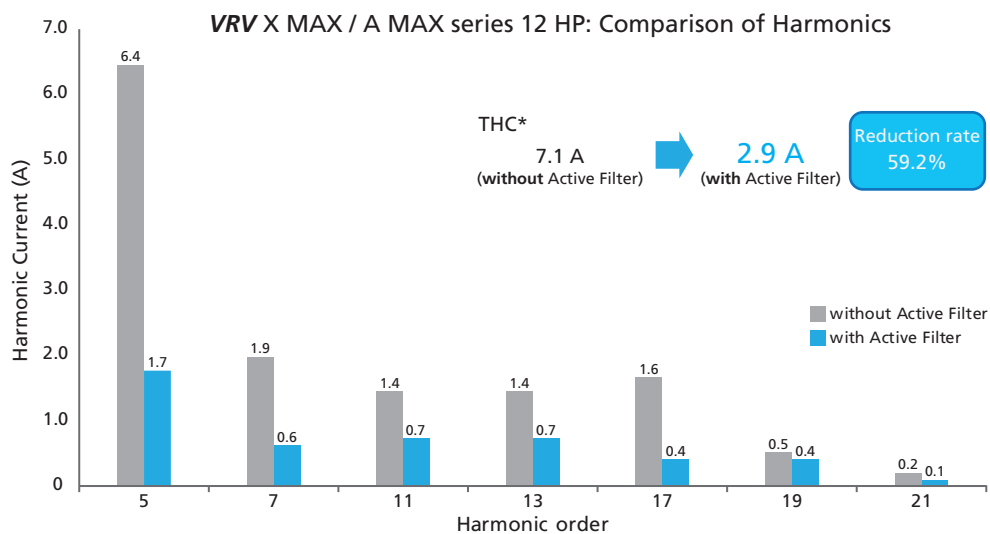
(b) Distorted wave

Specifications

MODEL	BACF22E5	
Power supply	3 ϕ , 380 – 415 V/380 V, 50/60 Hz	
Rated compensation capacity	4.6 kVA	
Installation environment	Outdoors	
System	Cooling	Forced air cooling (built-in fan)
	Inverter	Voltage type
Operation	Load current: Starting 5.5 A or more, stopping 4.0 A or less	
Error display	Displayed on the display board when an error occurs	
Operation characteristics	Harmonic compensation target order: 2 nd to 23 rd However, the residual rate changes depending on the power supply impedance.	
Dimensions (H×W×D)	723 × 334 × 249 mm	
Weight	22 kg	

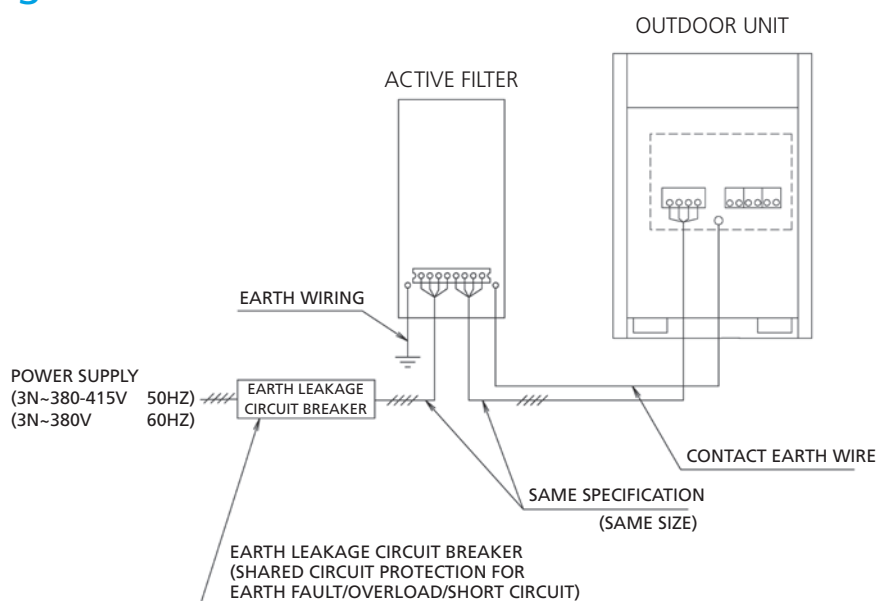
Advantages of Active Filter

Daikin's Active Filter unit can drastically reduce harmonics, preventing damages from harmonics and extending equipment lifespan.



*Total Harmonic Current (THC) is the accumulated currents of the orders 2 to 23 that contribute to the distortion of the current waveform. This value is particularly useful in determining the required characteristics for installation of modern active harmonic filters.

Field Wiring



* Refer to the Engineering Data Book for details.

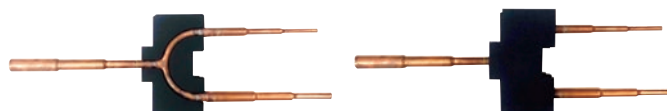
■ Outdoor units

No.	Type			REYQ8B REYQ10B REYQ12B REYQ14B REYQ16B	REYQ18B REYQ20B REYQ22B REYQ24B	REYQ36B REYQ28B REYQ30B REYQ32B REYQ34B REYQ36B	REYQ38B REYQ40B REYQ42B REYQ44B REYQ46B REYQ48B	REYQ50B REYQ52B REYQ54B	REYQ56B REYQ58B REYQ60B
	Item								
1	Distributive piping*1	3 Pipes	REFNET header	KHRP25M33H(Max. 8 branch), KHRP25M72H(Max. 8 branch), KHRP25M73H(Max. 8 branch)					
			REFNET joint	BHRP25A22T, BHRP25A33T, BHRP25A72T, BHRP25A73T					
			Pipe size reducer	KHRP25M72TP, KHRP25M73TP					
			Non-Brazed REFNET Joint for TIGHTFIT	BHRG25A33T, BHRG25A72T, BHRG25A73T					
		2 Pipes	REFNET header	KHRP26M22H(Max. 4 branch), KHRP26M33H(Max. 8 branch), KHRP26M72H(Max. 8 branch), KHRP26M73H(Max. 8 branch)					
			REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T					
			Pipe size reducer	KHRP26M73HP, KHRP26M73TP					
			Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T					
2	Outdoor unit multi connection piping kit			-	BHFP26R135		BHFP26R168		

REFNET joint
(BHRP25A22/33/72/73T, KHRP26A22/33/72/73T)



Non-Brazed REFNET Joint for TIGHTFIT (BHRG25A33/72/73T, BHRG26A33/72/73T)



No.	Type Item	REYQ8B	REYQ16B	REYQ24B	REYQ32B	REYQ40B	REYQ48B	REYQ56B
		REYQ10B	REYQ18B	REYQ26B	REYQ34B	REYQ42B	REYQ50B	REYQ58B
		REYQ12B	REYQ20B	REYQ28B	REYQ36B	REYQ44B	REYQ52B	REYQ60B
		REYQ14B	REYQ22B	REYQ30B	REYQ38B	REYQ46B	REYQ54B	
1	DIII-NET expand adaptor + Wire harness adaptor kit	DTA109A51 + 8ER11A						
2	External control adaptor	DTA104A62						
3	Home Automation Interface Adaptor + Wire harness adaptor kit	DTA116A51 + 8ER11B						

VRV H SERIES

No.	Type		Item	RXYQ8B RXYQ10B RXYQ12B RXYQ14B RXYQ16B	RXYQ18B RXYQ20B RXYQ22B RXYQ24B	RXYQ26B RXYQ28B RXYQ30B RXYQ32B RXYQ34B RXYQ36B	RXYQ38B RXYQ40B RXYQ42B RXYQ44B RXYQ46B RXYQ48B	RXYQ50B RXYQ52B RXYQ54B	RXYQ56B RXYQ58B RXYQ60B
1	Distributive piping*1	REFNET header	KHRP26M22H(Max. 4 branch), KHRP26M33H(Max. 8 branch), KHRP26M72H(Max. 8 branch), KHRP26M73H(Max. 8 branch)						
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T						
		Pipe size reducer	KHRP26M73HP, KHRP26M73TP						
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T						
2	Outdoor unit multi connection piping kit		-		BHFP22R135		BHFP22R168		

Note: *1. The appropriate REFNET parts should be selected to match the total capacity index of indoor units connected below each REFNET, based on the installation manual.

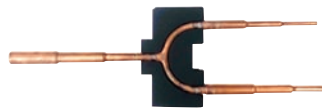
REFNET joint

(KHRP26A22/33/72/73T)



Non-Brazed REFNET Joint for TIGHTFIT

(BHRG26A33/72/73T)



Option PCB

No.	Type		Item	RXYQ8B RXYQ16B RXYQ24B RXYQ32B RXYQ40B RXYQ48B RXYQ56B RXYQ10B RXYQ18B RXYQ26B RXYQ34B RXYQ42B RXYQ50B RXYQ58B RXYQ12B RXYQ20B RXYQ28B RXYQ36B RXYQ44B RXYQ52B RXYQ60B RXYQ14B RXYQ22B RXYQ30B RXYQ38B RXYQ46B RXYQ54B
1	DIII-NET expand adaptor + Wire harness adaptor kit		DTA109A51 + BER11A	
2	External control adaptor		DTA104A62	
3	Home Automation Interface Adaptor + Wire harness adaptor kit		DTA116A51 + BER11B	

Option List

Outdoor units

VRV 6 X SERIES

No.	Type Item		RXUQ6B RXUQ8B RXUQ10B RXUQ12B	RXUQ14B RXUQ16B RXUQ18B RXUQ20B	RXUQ22B RXUQ24B RXUQ26B RXUQ28B RXUQ30B	RXUQ32B RXUQ34B RXUQ36B RXUQ38B RXUQ40B	RXUQ42B RXUQ44B RXUQ46B RXUQ48B RXUQ50B	RXUQ52B RXUQ54B RXUQ56B RXUQ58B RXUQ60B
1	Distributive piping*1	REFNET header	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch)					
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T					
		Pipe size reducer	KHRP26M73HP, KHRP26M73TP					
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T					
2	Outdoor unit multi connection piping kit		-		BHFP26R135		BHFP26R168	

Note: *1. The appropriate REFNET parts should be selected to match the total capacity index of indoor units connected below each REFNET, based on the installation manual.

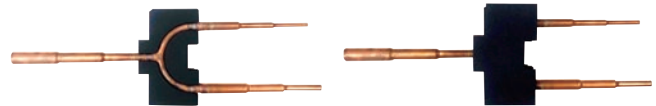
REFNET joint

(KHRP26A22/33/72/73T)



Non-Brazed REFNET Joint for TIGHTFIT

(BHRG26A33/72/73T)



Option PCB

No.	Type		RXUQ6B	RXUQ14B	RXUQ22B	RXUQ30B	RXUQ38B	RXUQ46B	RXUQ54B
			RXUQ8B	RXUQ16B	RXUQ24B	RXUQ32B	RXUQ40B	RXUQ48B	RXUQ56B
	RXUQ10B	RXUQ18B	RXUQ26B	RXUQ34B	RXUQ42B	RXUQ50B	RXUQ58B		
	RXUQ12B	RXUQ20B	RXUQ28B	RXUQ36B	RXUQ44B	RXUQ52B	RXUQ60B		
	Item								
1	DIII-NET expand adaptor + Wire harness adaptor kit		DTA109A51 + BER11A						
2	External control adaptor		DTA104A62						
3	Home Automation Interface Adaptor + Wire harness adaptor kit		DTA116A51 + BER11B						

VRV 6 A SERIES

No.	Type Item		RXQ8B RXQ10B RXQ12B RXQ14B RXQ16B	RXQ18B RXQ20B RXQ22B RXQ24B RXQ26B	RXQ28B RXQ26B RXQ28B RXQ30B RXQ32B	RXQ34B RXQ36B RXQ38B RXQ40B RXQ42B	RXQ44B RXQ46B RXQ48B RXQ50B RXQ52B	RXQ54B RXQ56B RXQ58B RXQ60B RXQ62B	RXQ64B RXQ66B RXQ68B RXQ70B	RXQ72B RXQ74B RXQ76B RXQ78B
1	Distributive piping*1	REFNET header	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch)							
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T							
		Pipe size reducer	KHRP26M73HP, KHRP26M73TP							
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T							
2	Outdoor unit multi connection piping kit		-		BHFP22R135			BHFP22R168		

Note: *1. The appropriate REFNET parts should be selected to match the total capacity index of indoor units connected below each REFNET, based on the installation manual.

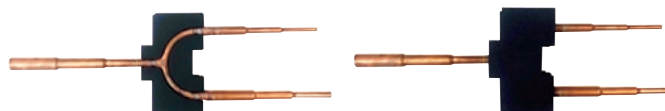
REFNET joint

(KHRP26A22/33/72/73T)



Non-Brazed REFNET Joint for TIGHTFIT

(BHRG26A33/72/73T)



Option PCB

No.	Type Item		RXQ8B RXQ10B RXQ12B RXQ14B	RXQ16B RXQ18B RXQ20B RXQ22B	RXQ24B RXQ26B RXQ28B RXQ30B	RXQ32B RXQ34B RXQ36B RXQ38B	RXQ40B RXQ42B RXQ44B RXQ46B	RXQ48B RXQ50B RXQ52B RXQ54B	RXQ56B RXQ58B RXQ60B RXQ62B	RXQ64B RXQ66B RXQ68B RXQ70B	RXQ72B RXQ74B RXQ76B RXQ78B
1	DIII-NET expand adaptor + Wire harness adaptor kit		DTA109A51 + BER11A								
2	External control adaptor		DTA104A62								
3	Home Automation Interface Adaptor + Wire harness adaptor kit		DTA116A51 + BER11B								

Option List

Outdoor units

VRV X MAX

No.	Type		RXUQ6AW RXUQ8AW RXUQ10AW	RXUQ12AW RXUQ14AW RXUQ16AW RXUQ18AW RXUQ20AW	RXUQ12AMW RXUQ14AMW RXUQ16AMW RXUQ18AMW RXUQ20AMW RXUQ22AMW	RXUQ18AM1W RXUQ20AM1W
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)		
		REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T		
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Outdoor unit multi connection piping kit		—		BHFP22P100	BHFP22P151
3	Active filter unit		BACF22E5			

No.	Type Item		RXUQ24AMW RXUQ26AMW RXUQ28AMW RXUQ30AMW RXUQ32AMW	RXUQ34AMW RXUQ36AMW RXUQ38AMW RXUQ40AMW	RXUQ42AMW RXUQ44AMW RXUQ46AMW RXUQ48AMW RXUQ50AMW	RXUQ52AMW RXUQ54AMW RXUQ56AMW RXUQ58AMW RXUQ60AMW
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP			
3	Outdoor unit multi connection piping kit		BHFP22P100		BHFP22P151	
4	Active filter unit		BACF22E5			

Option PCB

No.	Type Item	RXUQ6AW RXUQ8AW	RXUQ10AW RXUQ12AW RXUQ14AW RXUQ16AW RXUQ18AW RXUQ20AW	RXUQ12AMW RXUQ14AMW RXUQ16AMW RXUQ18AM1W RXUQ20AM1W	RXUQ18AMW RXUQ20AMW
1	DIII-NET expander adaptor ★	DTA109A51			
2	External control adaptor ★	DTA104A61			
3	Home Automation Interface Adaptor ★	DTA116A51			
4	Option plate for control adaptor	—	BKS26A*1	—	BKS26A*1

No.	Type	RXUQ22AMW	RXUQ32AMW	RXUQ42AMW	RXUQ52AMW
		RXUQ24AMW	RXUQ34AMW	RXUQ44AMW	RXUQ54AMW
Item		RXUQ26AMW	RXUQ36AMW	RXUQ46AMW	RXUQ56AMW
		RXUQ28AMW	RXUQ38AMW	RXUQ48AMW	RXUQ58AMW
		RXUQ30AMW	RXUQ40AMW	RXUQ50AMW	RXUQ60AMW
1	DIII-NET expander adaptor ★	DTA109A51			
2	External control adaptor ★	DTA104A61			
3	Home Automation Interface Adaptor ★	DTA116A51			
4	Option plate for control adaptor	BKS26A*1			

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

VRV A MAX

No.	Type		RXQ6AW RXQ8AW RXQ10AW	RXQ12AW RXQ14AW RXQ16AW	RXQ18AW RXQ20AW	RXQ18AMW RXQ20AMW RXQ22AMW
	Item					
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)		
		REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T		
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Outdoor unit multi connection piping kit		—			BHFP22P100
3	Active filter unit		BACF22E5			

No.	Type		RXQ24AMW	RXQ34AMW	RXQ42AMW	RXQ52AMW	
			RXQ26AMW	RXQ36AMW	RXQ44AMW	RXQ54AMW	
Item			RXQ28AMW	RXQ38AMW	RXQ46AMW	RXQ56AMW	
			RXQ30AMW	RXQ40AMW	RXQ48AMW	RXQ58AMW	
			RXQ32AMW		RXQ50AMW	RXQ60AMW	
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)				
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T				
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T				
2	Pipe size reducer	KHRP26M73TP, KHRP26M73HP					
3	Outdoor unit multi connection piping kit		BHFP22P100		BHFP22P151		
4	Active filter unit		BACF22E5				

Option PCB

No.	Type Item	RXQ6AW RXQ8AW RXQ10AW RXQ12AW	RXQ14AW RXQ16AW RXQ18AW RXQ20AW	RXQ18AMW RXQ20AMW RXQ22AMW RXQ24AMW	RXQ26AMW RXQ28AMW RXQ30AMW
1	DIII-NET expander adaptor ★	DTA109A51			
2	External control adaptor ★	DTA104A61			
3	Home Automation Interface Adaptor ★	DTA116A51			
4	Option plate for control adaptor	—	BKS26A*1	—	BKS26A*1

No.	Type Item	RXQ32AMW RXQ34AMW RXQ36AMW RXQ38AMW	RXQ40AMW RXQ42AMW RXQ44AMW RXQ46AMW	RXQ48AMW RXQ50AMW RXQ52AMW RXQ54AMW	RXQ56AMW RXQ58AMW RXQ60AMW
1	DIII-NET expander adaptor ★	DTA109A51			
2	External control adaptor ★	DTA104A61			
3	Home Automation Interface Adaptor ★	DTA116A51			
4	Option plate for control adaptor	BKS26A *1			

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

Option List

Outdoor units

VRV S High Efficiency SERIES

No.	Item	Type	RSU(Y)Q4A	RSU(Y)Q5A	RSU(Y)Q6A	RSU(Y)Q7A	RSU(Y)Q8A	RSUQ9A
1	Header pack		BHF6RHP6Z, BHF6ARHP6Z, BHF8RHP6Z, BHF10RHP6Z					
2	REFNET header		KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)					
3	REFNET joint		KHRP26A22T			KHRP26A22T, KHRP26A33T		
4	Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T					
5	Drain plug		BKP082A41			BKP082A41 (Applies to RSUYQ only)		
6	Air direction adjustment grille		KPW082A41					

Option PCB

No.	Item	Type	RSU(Y)Q4A	RSU(Y)Q5A	RSU(Y)Q6A	RSU(Y)Q7A	RSU(Y)Q8A	RSUQ9A
1	DIII-NET expander adaptor ★		DTA109A51					
2	External control adaptor ★		DTA104A61					
3	Home Automation Interface Adaptor ★		DTA116A51					
4	Option plate for control adaptor		BKS26B*1			BKS26C*1		

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

VRV IV S SERIES

Cooling Only

No.	Item	Type	RXMQ4A	RXMQ5B	RXMQ6B	RXMQ8A	RXMQ9A
1	Header pack		BHF6RHP6Z, BHF6ARHP6Z, BHF8RHP6Z, BHF10RHP6Z				
2	REFNET header		KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)				
3	REFNET joint		KHRP26A22T			KHRP26A22T, KHRP26A33T	
4	Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T				
5	Central drain plug		KKPJ5H280				
6	Fixture for preventing overturning		KKTP5B112				
7	Wire fixture for preventing overturning		—			K-KYZP15C	

Heat Pump

No.	Item	Type	RXYMQ4A	RXYMQ5B	RXYMQ6B	RXYMQ8A	RXYMQ9A
1	Header pack		BHF6RHP6Z, BHF6ARHP6Z, BHF8RHP6Z, BHF10RHP6Z				
2	Cool/Heat selector		KRC19-26A	—			
2-1	Fixing box		KJB111A	—			
3	REFNET header		KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)				
4	REFNET joint		KHRP26A22T			KHRP26A22T, KHRP26A33T	
5	Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T				
6	Central drain plug		KKPJ5H280				
7	Fixture for preventing overturning		KKTP5B112				
8	Wire fixture for preventing overturning		—			K-KYZP15C	

VRV IV Q SERIES Standard Type

No.	Type		RQ(Y)Q6T RQ(Y)Q8T RQ(Y)Q10T	RQ(Y)Q12T RQ(Y)Q14T RQ(Y)Q16T
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch), (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)
		REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T	
2	Cool / Heat selector		KRC 19-26A (Applies to RQYQ only)	

No.	Type		RQ(Y)Q18TN RQ(Y)Q20TN RQ(Y)Q22TN	RQ(Y)Q24TN RQ(Y)Q26TN RQ(Y)Q28TN	RQ(Y)Q30TN RQ(Y)Q32TN
	Item				
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch), KHRP26M72H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch)	
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T		
2	Pipe size reducer		—	KHRP26M73TP, KHRP26M73HP	
3	Outdoor unit multi connection piping kit		BHFP22P100		
4	Cool / Heat selector		KRC 19-26A (Applies to RQYQ only)		

No.	Type		RQ(Y)Q34TN RQ(Y)Q36TN	RQ(Y)Q38TN RQ(Y)Q40TN	RQ(Y)Q42TN RQ(Y)Q44TN	RQ(Y)Q46TN RQ(Y)Q48TN
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP			
3	Outdoor unit multi connection piping kit		BHFP22P151			
4	Cool / Heat selector		KRC 19-26A (Applies to RQYQ only)			

VRV IV Q SERIES Space Saving Type

No.	Type		RQ(Y)Q18T RQ(Y)Q20T
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T
2	Cool / Heat selector		KRC 19-26A (Applies to RQYQ only)

No.	Type		RQ(Y)Q30TS RQ(Y)Q32TS RQ(Y)Q34TS	RQ(Y)Q36TS RQ(Y)Q38TS RQ(Y)Q40TS	RQ(Y)Q42TS RQ(Y)Q44TS	RQ(Y)Q46TS RQ(Y)Q48TS
	Item					
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP			
3	Outdoor unit connection piping kit		BHFP22P100		BHFP22P151	
4	Cool / Heat selector		KRC19-26A (Applies to RQYQ only)			

Option List

Outdoor units

VRV IV W SERIES

No.	Type		RWEYQ6T RWEYQ8T RWEYQ10T RWEYQ12T	RWEYQ14T RWEYQ16T RWEYQ18T RWEYQ20T RWEYQ22T RWEYQ24T	RWEYQ26T RWEYQ28T RWEYQ30T RWEYQ32T RWEYQ34T RWEYQ36T
	Item				
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
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG25A33T, BHRG25A72T, BHRG25A73T BHRG26A33T, BHRG26A72T, BHRG26A73T		
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.	Type		RWHQ12TH RWHQ14TH RWHQ16TH
	Item		
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T
2	Outdoor unit multi connection piping kit		BHFP22P100
3	Hot water controller box		BRCM82
4	Hot water remote controller		BRCS82

No.	Type		RWHQ18TH RWHQ20TH RWHQ22TH	RWHQ24TH RWHQ26TH RWHQ28TH	RWHQ30TH RWHQ32TH RWHQ34TH
	Item				
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)	
		REFNET joint	KHRP26A22T,KHRP26A33T, KHRP26A72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T		
2	Pipe size reducer		—	KHRP26M73TP, KHRP26M73HP	
3	Outdoor unit multi connection piping kit		BHFP22P151		
4	Hot water controller box		BRCM82		
5	Hot water remote controller		BRCS82		

No.	Type		RWHQ36TH RWHQ38TH	RWHQ40TH RWHQ42TH	RWHQ44TH RWHQ46TH	RWHQ48TH RWHQ50TH
	Item					
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP			
3	Outdoor unit multi connection piping kit		BHFP22P151			
4	Hot water controller box		BRCM82			
5	Hot water remote controller		BRCS82			

VRV IV HEAT RECOVERY HOT WATER SYSTEM Standard Type

No.	Type		RWHQ6T RWHQ8T RWHQ10T	RWHQ12T RWHQ14T RWHQ16T
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)
		REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T	
2	Hot water controller box		BRCM82	
3	Hot water remote controller		BRC582	

No.	Type		RWHQ18TN RWHQ20TN RWHQ22TN	RWHQ24TN RWHQ26TN RWHQ28TN	RWHQ30TN RWHQ32TN
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch)	
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T		
2	Pipe size reducer		—		
3	Outdoor unit multi connection piping kit		BHFP22P100		
4	Hot water controller box		BRCM82		
5	Hot water remote controller		BRC582		

No.	Type		RWHQ34TN RWHQ36TN RWHQ38TN RWHQ40TN	RWHQ42TN RWHQ44TN RWHQ46TN RWHQ48TN	RWHQ50TN RWHQ52TN RWHQ54TN RWHQ56TN	RWHQ58TN RWHQ60TN
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP			
3	Outdoor unit multi connection piping kit		BHFP22P151			
4	Hot water controller box		BRCM82			
5	Hot water remote controller		BRC582			

VRV IV HEAT RECOVERY HOT WATER SYSTEM Space Saving Type

No.	Type		RWHQ18T RWHQ20T
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T
2	Hot water controller box		BRCM82
3	Hot water remote controller		BRC582

No.	Type Item		RWHQ22TS	RWHQ24TS	RWHQ30TS	RWHQ36TS
				RWHQ26TS RWHQ28TS	RWHQ32TS RWHQ34TS	RWHQ38TS RWHQ40TS
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)		
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T		
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Pipe size reducer		—	KHRP26M73TP, KHRP26M73HP		
3	Outdoor unit multi connection piping kit		BHFP22P100			
4	Hot water controller box		BRCM82			
5	Hot water remote controller		BRC582			

No.	Type		RWHQ42TS RWHQ44TS RWHQ46TS	RWHQ48TS RWHQ50TS
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)	
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T	
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP	
3	Outdoor unit multi connection piping kit		BHFP22P151	
4	Hot water controller box		BRCM82	
5	Hot water remote controller		BRC582	

Option List

VRV indoor units



Round Flow Cassette with Sensing and Streamer Type

No.				Type	FXFTQ25A FXFTQ32A FXFTQ40A FXFTQ50A FXFTQ63A FXFTQ80A	FXFTQ100A FXFTQ125A FXFTQ140A	FXFSQ25C	FXFSQ50C
Item								
1	Decoration panel	Standard panel with sensing	Fresh white	BYCQ125EEF				
			Black	BYCQ125EEK				
		Standard panel	Fresh white	BYCQ125EAF *				
			Black	BYCQ125EAK *				
		Designer panel ^{1,14}	Fresh white	BYCQ125EAPF *				
	Auto grille panel ^{2,3}	Fresh white	BYCQ125EBSF *					
2	Sealing material of air discharge outlet ⁴		For usage of 3-, 4-way flow		—	—	KDBH551C160	
For usage of 2-way flow			—	—	KDBH552C160			
3	Panel spacer			KDB55J160F				
4	Fresh air intake kit		Chamber type ^{4,5,6}	Without T-duct joint	KDDP55C160 (Components: KDDP55C160-1, KDDP55C160-2) ⁸			
				With T-duct joint	KDDP55C160K (Components: KDDP55C160-1, KDDP55C160K2) ⁸			
			Direct installation type ⁷		KDDP55X160A			
5	High-efficiency filter unit ^{9,14} (Including filter chamber)		(Colorimetric method 65%)		—	—	KAF556D80	KAF556D160
(Colorimetric method 90%)			—	—	KAF557D80	KAF557D160		
6	Replacement high-efficiency filter ^{9,10,14}		(Colorimetric method 65%)		—	—	KAF552D80	KAF552D160
			(Colorimetric method 90%)		—	—	KAF553D80	KAF553D160
7	Filter chamber			—	—	KDDFP55C160		
8	UV Streamer air purifier unit (UV-chamber) ^{12,14}			—	—	BAEF125AW1		
9	Replacement pleated filter (for UV streamer air purifier unit) (MERV 13) ^{12,14,15}			—	—	BAF55A125		
10	High performance prefilter (MERV 8) ⁹			BAF552A160				
11	Replacement long-life filter			KAF5511D160				
12	Replacement long-life filter (Auto grille panel)			KAF5512D160				
13	Ultra long-life filter unit (Including filter chamber) ⁹			—	—	KAF555D160		
14	Replacement ultra long-life filter ^{9,10}			—	—	KAF550D160		
15	Branch duct chamber ⁴			KDJP55C80	KDJP55C160	KDJP55C80	KDJP55C160	
16	Insulation kit for high humidity ^{11,13}			KDTP55K80B	KDTP55K160B	KDTP55K80B	KDTP55K160B	

- Notes: 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 remote controller 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 higher than standard panel.
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 name 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.
12. This option cannot be installed with BYCQ125EAPF / BYCQ125EAK / BYCQ125EEK / KDBH551C160 / KDBH552C160 / KDTP55K80B/160B, and kit / filters that require a chamber (KDDP55C160/160K, KAF556D80/160, KAF557D80/160, KAF555D160, KDJP55C80/160).
13. For a panel and an option with a chamber, such as a Designer panel, Auto grille panel, UV Streamer air purifier unit, Ultra long-life filter unit, High-efficiency filter unit, and Fresh air intake kit chamber type, it is necessary to add insulation that is either glass wool or polyethylene foam with a thickness of 10 mm or more to the chamber area.
14. This option cannot apply when 2 and 3-way flow by using sealing material of air discharge outlet.
15. UV Streamer air purifier unit (UV-chamber) is required.
*These panels do not contain the sensing function.



Round Flow Cassette with Streamer Type

No.	Item			Type	FXFRQ25A FXFRQ32A FXFRQ40A	FXFRQ50A FXFRQ63A FXFRQ80A	FXFRQ100A FXFRQ125A FXFRQ140A
1	Decoration panel	Standard panel	Fresh white		BYCQ125EAF *		
			Black		BYCQ125EAK *		
		Designer panel ^{1,11}	Fresh white		BYCQ125EAPF *		
			Auto grille panel ^{2,3}	Fresh white		BYCQ125EBSF *	
2	Panel spacer				KDB55J160F		
3	Fresh air intake kit		Chamber type ^{4,5}	Without T-duct joint	KDDP55C160 (Components: KDDP55C160-1, KDDP55C160-2) ⁷		
				With T-duct joint	KDDP55C160K (Components: KDDP55C160-1, KDDP55C160K2) ⁷		
			Direct installation type ⁶		KDDP55X160A		
4	High performance prefilter (MERV 8) ⁸				BAF552A160		
5	Replacement long-life filter				KAF5511D160		
6	Replacement long-life filter (Auto grille panel)				KAF5512D160		
7	Branch duct chamber				KDJP55C80		KDJP55C160
8	Insulation kit for high humidity ^{9,10}				KDTP55K80B		KDTP55K160B

- Notes: 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 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 higher than standard panel.
 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.
 7. Please order using the names of both components instead of set name.
 8. This option cannot be installed to designer panel and auto grille panel.
 9. Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.
 10. For a panel and an option with a chamber, such as a Designer panel, Auto grille panel, UV Streamer air purifier unit, Ultra long-life filter unit, High-efficiency filter unit, and Fresh air intake kit chamber type, it is necessary to add insulation that is either glass wool or polyethylene foam with a thickness of 10 mm or more to the chamber area.
 11. This option cannot apply when 2 and 3-way flow by using sealing material of air discharge outlet.
 *These panels do not contain the sensing function.



Round Flow Cassette Type

No.	Item			Type	FXFQ25A FXFQ32A FXFQ40A	FXFQ50A FXFQ63A FXFQ80A	FXFQ100A FXFQ125A FXFQ140A
1	Decoration panel	Standard panel	Fresh white		BYCQ125EAF *		
			Black		BYCQ125EAK *		
		Designer panel ^{1, 14}	Fresh white		BYCQ125EAPF *		
			Auto grille panel ^{2, 3}	Fresh white		BYCQ125EBSF *	
2	Sealing material of air discharge outlet ⁴		For usage of 3-, 4-way flow		KDBH551C160		
For usage of 2-way flow			KDBH552C160				
3	Panel spacer				KDB55J160F		
4	Fresh air intake kit		Chamber type ^{4, 5, 6}	Without T-duct joint	KDDP55C160 (Components: KDDP55C160-1, KDDP55C160-2) ⁸		
				With T-duct joint	KDDP55C160K (Components: KDDP55C160-1, KDDP55C160K2) ⁸		
			Direct installation type ⁷		KDDP55X160A		
5	High-efficiency filter unit ^{9, 14} (Including filter chamber)		(Colorimetric method 65%)		KAF556D80		KAF556D160
(Colorimetric method 90%)			KAF557D80		KAF557D160		
6	Replacement high-efficiency filter ^{9, 10, 14}		(Colorimetric method 65%)		KAF552D80		KAF552D160
			(Colorimetric method 90%)		KAF553D80		KAF553D160
7	Filter chamber				KDDFP55C160		
8	UV Streamer air purifier unit (UV-chamber) ^{12, 14}				BAEF125AW1		
9	Replacement pleated filter (for UV streamer air purifier unit) (MERV 13) ^{12, 14, 15}				BAF55A125		
10	High performance prefilter (MERV 8) ⁹				BAF552A160		
11	Replacement long-life filter				KAF5511D160		
12	Replacement long-life filter (Auto grille panel)				KAF5512D160		
13	Ultra long-life filter unit (Including filter chamber) ⁹				KAF555D160		
14	Replacement ultra long-life filter ^{9, 10}				KAF550D160		
15	Branch duct chamber ⁴				KDJP55C80		KDJP55C160
16	Insulation kit for high humidity ^{11, 13}				KDTP55K80B		KDTP55K160B

- Notes: 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 remote controller 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 higher than standard panel.
 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 name 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.
 12. This option cannot be installed with BYCQ125EAPF / BYCQ125EAK / BYCQ125EEK / KDBH551C160 / KDBH552C160 / KDTP55K80B/160B, and kit / filters that require a chamber (KDDP55C160/160K, KAF556D80/160, KAF557D80/160, KAF555D160, KDJP55C80/160).
 13. For a panel and an option with a chamber, such as a Designer panel, Auto grille panel, UV Streamer air purifier unit, Ultra long-life filter unit, High-efficiency filter unit, and Fresh air intake kit chamber type, it is necessary to add insulation that is either glass wool or polyethylene foam with a thickness of 10 mm or more to the chamber area.
 14. This option cannot apply when 2 and 3-way flow by using sealing material of air discharge outlet.
 15. UV Streamer air purifier unit (UV-chamber) is required.
 *These panels do not contain the sensing function.

Option List

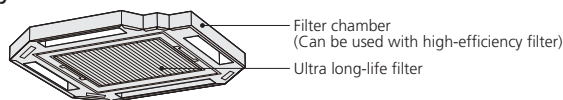
VRV indoor units

Options of Round Flow Cassette with Sensing and Streamer & Round Flow Cassette with Streamer & Round Flow Cassette

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

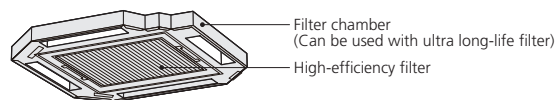
*For dust concentration of 0.3 mg/m³ (Requires separately sold Air purifier.)
1 year (Approx. 5,000 hr): About 15 hr/day x 28 day/month x 12 month/year

Ordinary store or office: filter change every 4 years

*For dust concentration of 0.15 mg/m³
4 years (Approx. 10,000 hr): About 8 hr/day x 25 day/month x 12 month/years x 4 years

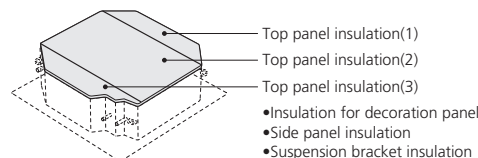
High-efficiency filter unit

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



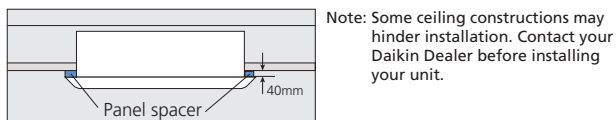
Insulation kit for high humidity

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



Panel spacer

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



Sealing material of air discharge outlet

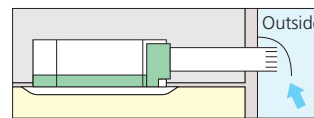
By using this option, 2-way, 3-way, or 4-way flow can be selected.

Branch duct chamber

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

Fresh air intake kit ^{1, 2}

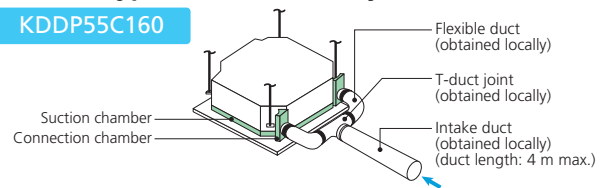
Using this kit, a duct can be connected to take in outdoor air. There are two chamber types that have intake in two places: with T-duct joint and without T-duct joint.



The units can be installed in the following different ways:

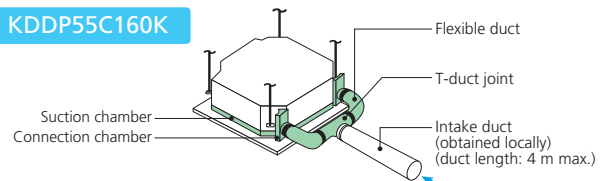
Chamber type (without T-duct joint) ^{3, 4, 5}

KDDP55C160



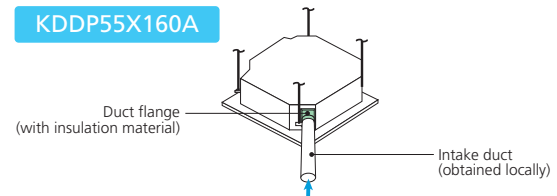
Chamber type (with T-duct joint) ^{3, 4, 5}

KDDP55C160K



Direct installation type ⁶

KDDP55X160A



- Notes:
1. Use of options will increase operating sound.
 2. Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be obtained locally.
 3. When a local-obtained fan is used, an interlock with air conditioner is necessary. Optional PCB (BRP11B62) 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.

High Performance Prefilter (MERV 8)

Features and Benefits

MERV 8 Rating

This filter is a high performance prefilter that has achieved MERV 8 rating.

PM2.5 Filtration

This filter can catch fine particles that could not be removed by the existing prefilter, capturing 97% of 1.0-3.0 μm particles and 99% of 3.0-10 μm particles when air passes through filter 10 times.

Filter Exchange Twice a Year

Replace the filter twice a year in order to maintain the filter's high performance.

Chamberless Filter

Additional parts and difficult installation works are unnecessary. Just replace the existing prefilter.

Retrofit to Existing Indoor Unit

Attachable to your current round flow cassette for IAQ improvement.

BAF552A160



Specifications

Model Name		BAF552A160		
Brand		DAIKIN		
Production Base		AAF Malaysia		
Performance		MERV 8		
Dimensions	mm	526 x 523 x 35		
Airflow rate	m ³ /min	13.0	22.9	37.0
Initial Pressure Drop* ²	Pa	18.1	35.8	81.4
Weight	g	520		
Lifetime * ³		6 months (1,250 hours)		
Reuse		Non-reusable		

Note 1. It is necessary to set a high ceiling mode on site to prevent a decrease in air volume when installing the filter. The setting number differs according to each model. Please refer to the installation manual.

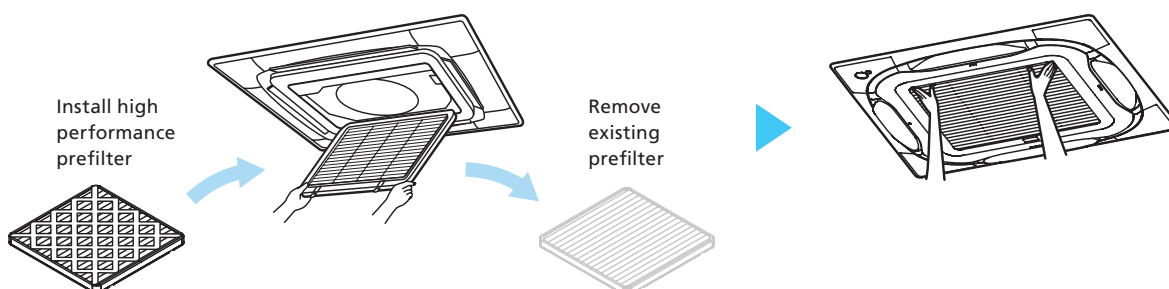
*2. This result is based on the test of the filter only. The results may be different in the actual use environment where the filter is installed in the indoor unit.

*3. Filter lifetime may vary depending on the condition of the operating environment. Certain instances such as high traffic areas, pets or smokers in a residence, or other situations may require more frequent changes.

Easy Replacement

The existing prefilter can be replaced easily*.

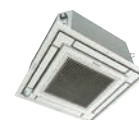
Since it's a chamberless filter, the installer will remove the existing prefilter and replace it with the high performance prefilter.



* The filter should be fixed to the air conditioner with attached components, so consult your dealer when installing or replacing the filter.

Option List

VRV indoor units



Compact Multi Flow Cassette Type

No.	Item	Type	FXZQ20B	FXZQ25B	FXZQ32B	FXZQ40B	FXZQ50B
1-1	Grid ceiling panel				BYFQ60CAW		
1-2	Sensor kit for grid ceiling panel				BRYQ60AAW		
2	Replacement long-life filter				KAF441C60		
3	Fresh air intake kit				KDDQ44XA60		
4	Streamer filter clean unit *1				BAPWS55A61		

Note: *1. Available only when stylish remote controller (BRC1H63W/K) is connected.



Double Flow Cassette Type

No.	Item	Type	FXCQ20B	FXCQ25B	FXCQ32B	FXCQ40B	FXCQ50B	FXCQ63B	FXCQ80B	FXCQ125B
1	Decoration panel			BYBCQ40CF			BYBCQ63CF			BYBCQ125CF
2	High efficiency filter *1	65 %		KAF532C50			KAF532C80			KAF532C160
		90 %		KAF533C50			KAF533C80			KAF533C160
3	Filter chamber for bottom suction			KDDFP53B50			KDDFP53B80			KDDFP53B160
4	Long-life replacement filter			KAF531C50			KAF531C80			KAF531C160
5	Streamer filter clean unit *2						BAPWS55A61			
6	Insulation kit for high humidity *3			KDTP53B50A			KDTP53B80A			KDTP53B160A

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

*2. Available only when stylish remote controller (BRC1H63W/K) is connected.

*3. Please use in case temperature / humidity inside ceiling may exceed 30°C, 80% RH.



Single Flow Cassette Type

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



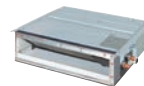
3D Airflow Duct with Sensing Type

No.	Item	Type	FXDSQ20A	FXDSQ25A	FXDSQ32A	FXDSQ40A	FXDSQ50A	FXDSQ63A
1	Flexible duct			BFD37B40			BFD37B50	BFD37B63



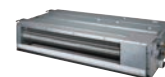
Bedroom Duct Type

No.	Item	Type	FXDBQ40A	FXDBQ50A	FXDBQ63A	FXDBQ80A
1	Streamer duct chamber		BDEZ500A140VE		BDEZ500A510VE	



Slim Duct (Standard) Type

No.	Item	Type	FXDQ20PD	FXDQ25PD	FXDQ32PD	FXDQ40ND	FXDQ50ND	FXDQ63ND
1	Insulation kit for high humidity			KDT25N32		KDT25N50		KDT25N63



Slim Duct (Compact) Type

No.	Item	Type	FXDQ20SP	FXDQ25SP	FXDQ32SP	FXDQ40SP	FXDQ50SP	FXDQ63SP
1	Streamer duct chamber				BDEZ500A140VE			BDEZ500A510VE



Middle Static Pressure Duct Type

No.	Item	Type	FXSQ20PA FXSQ25PA FXSQ32PA	FXSQ40PA	FXSQ50PA	FXSQ63PA FXSQ80PA	FXSQ100PA FXSQ125PA	FXSQ140PA
1	High efficiency filter *1	65%	KAF632C36	KAF632C56	KAF632C80	KAF632C160	—	—
		90%	KAF633C36	KAF633C56	KAF633C80	KAF633C160	—	—
2	Filter chamber (for rear suction) *1		KDDFP63B36	KDDFP63B56	KDDFP63B80	KDDFP63B160	KDDFP63B160B	—
3	Long-life filter *1		KAF631C36	KAF631C56	KAF631C80	KAF631C160	—	—
4	Streamer duct chamber		BDEZ500A60VE BDEZ500A140VE	BDEZ500A140VE	BDEZ500A140VE BDEZ500A510VE	BDEZ500A510VE	—	—
5	Service panel (Fresh white)		KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	—	—
6	Air discharge adaptor		KDAP25A36A	KDAP25A56A	KDAP25A71A	KDAP25A140A	—	—
7	Shield plate for side plate			KDBD63A160	—	—	—	—

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



Middle-High Static Pressure Duct Type

No.	Item	Type	FXMQ20PA FXMQ25PA FXMQ32PA	FXMQ40PA	FXMQ50PA FXMQ63PA	FXMQ80PA	FXMQ100PA FXMQ125PA FXMQ140PA
1	High efficiency filter *1	65%	KAF372AA36	KAF372B56	KAF372B80	KAF372B160	—
		90%	—	KAF373B56	KAF373B80	KAF373B160	—
2	Filter chamber *1		—	KDDF37AB56	KDDF37AB80	KDDF37AB160	—
3	Long-life replacement filter		—	KAF371B56	KAF371B80	KAF371B160	—
4	Long-life filter chamber kit		—	KAF375C56	KAF375C80	KAF375C160	—
5	Streamer duct chamber		BDEZ500A60VE BDEZ500A140VE	BDEZ500A140VE	BDEZ500A510VE	—	—
6	Service panel (Fresh white)		KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	—
7	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A	—

Note: *1. If installing high efficiency filter to the unit, filter chamber is required. For FXMQ20-32PA, please prepare the filter chamber on-site.



High Static Pressure Duct Type

No.	Item	Type	FXMQ200P	FXMQ250P
1	8mm pre-filter		BAFL501A250	—
2	30mm long-life replacement filter		BAFL502A250	—
3	High efficiency filter	65%	BAFM503A250	—
		90%	BAFH504A250	—
4	Filter chamber (long-life filter, high efficiency filter)		BDD500A250	—
5	Streamer duct chamber		BDEZ500A510VE	—
6	Drain pump kit		BDU510A250VM	—
7	Insulation kit for high humidity		BDT520A250	—

Option List

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		KAF5511D160	

Ceiling Suspended Type



No.	Item	Type	FXHQ32MA	FXHQ63MA	FXHQ100MA	FXHQ125B	FXHQ140B
1	Drain pump kit		KDU50N60VE	KDU50N125VE		KDU50R160	
2	Replacement long-life filter		KAFJ501D56	KAFJ501D80	KAFJ501D112	KAF501B160	
3	L-type piping kit (for upward direction)		—	KHFP5M160		KHFP5N160	
4-1	Streamer filter clean unit *1,2		—		BAPWS55A61		
4-2	Mounting kit for streamer option		—		BERPW50A61		

Notes: *1. Mounting kit for streamer option (BERPW50A61) is necessary.

*2. Available only when stylish remote controller (BRC1H63W/K) is connected.

Wall Mounted Type



No.	Item	Type	FXAQ20B FXAQ32B	FXAQ25B FXAQ40B	FXAQ50B FXAQ63B	FXAQ71B	FXAQ80B FXAQ100B
1	External EV kit for heating operation*1		BEV40E		BEV71E		BEV100E
2	Drain pump kit		K-KDU572KVE				
3	Streamer discharge unit*2		BAPWS57A61				
4	Air quality filter*3(Enzyme blue / PM2.5)		BAFP094A51*4				BAFP094A51*5

Notes: *1. External EV kit is only effective for reducing operation sound during heating operation.

Therefore it is ineffective when connected to cooling only outdoor units.

*2. Streamer discharge unit can be installed with the filter.

*3. If the streamer discharge unit installed, it is unnecessary to install the filter at that position.

*4. Install 2 filters per 1 unit if the streamer discharge unit is not installed.

*5. Install 3 filters per 1 unit if the streamer discharge unit is not installed.

Floor Standing Type



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

Concealed Floor Standing Type



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



Floor Standing Duct Type

No.	Item	Type	FXVQ125N	FXVQ200N	FXVQ250N	FXVQ400N	FXVQ500N
1	Replacement Long-life filter		KAF261M140	KAF261M224	KAF261M280	KAF261N450	KAF261N560
2	Ultra long-life filter		—			KAFSJ9A400	KAFSJ9A560
3	Front suction filter chamber for high efficiency filter	Front suction base flange	KD-9A140	KD-9A200	KD-9A280	KD-9A400	KD-9A560
4		Suction grille	KDGF-9A140	KDGF-9A200	KDGF-9A280	KDGF-9A400	KDGF-9A560
5		Filter chamber for high efficiency filter *1,2	Replacement long-life filter *1,2,3	KAF-91B140	KAF-91B200	KAF-91B280	KAF-91B400
6			65% *1,3	KAF-92B140	KAF-92B200	KAF-92B280	KAF-92B400
7			90% *2,3	KAF-93B140	KAF-93B200	KAF-93B280	KAF-93B400
8		Filter chamber *1,2	KDDF-9A140	KDDF-9A200	KDDF-9A280	KDDF-9A400	KDDF-9A560
9	Plenum chamber *4		KPCJ140A	KPC5J	KPC8J	KPCJ400A	KPC15JA
10	Pulley for plenum chamber *4		KPP8JA	KPP9JA	KPP10JA	—	
11	Fresh air intake kit *5		KD106D10			KDFJ906A560	
12	Rear suction kit *5		KDFJ905B140	KDFJ905B200	KDFJ905B280	KDFJ905B400	KDFJ905B560
13	Discharge grille for plenum side		KD101A10			KD101A20	
14	Wood base		KKWJ9A140	KWF1G5P	KWF1G8P	KKWJ9A400	KWF1G15
15	Vibration isolating frame		K-ABSG1406A	K-ABSG1407A	K-ABSG1408A	K-ABSG1409A	K-ABSG1410A

Notes: *1. When ordering a filter chamber for high efficiency filter (65%), please order with all the respective parts.

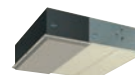
*2. When ordering a filter chamber for high efficiency filter (90%), please order with all the respective parts.

*3. When replacing with a new filter, please order the replacement filters with the corresponding filter model name.

*4. Use the plenum chamber and pulley for plenum chamber in combination.

*5. When introducing fresh air, make sure that it is 10% or less than total airflow.

For details, refer to the outside drawing with optional accessory.



Clean Room Air Conditioner

No.	Item	Type	FXBQ40P	FXBQ50P	FXBQ63P	FXBPQ63P
1	Outlet unit		—			BAF82A63
2	Filter	HEPA filter	BAFH82A50			BAFH82A63
3	Panel	Ceiling intake type	BYB82A50C			BYB82A63CP
4		Floor-level intake type	BYB82A50W			BYB82A63WP
5	Outside air intake duct flange		KDFJ82A80			

Option List

BS Units for Heat Recovery

Single BS Unit



No.	Item	Type	BSQ100A	BSQ160A	BSQ250A
1	Quiet kit			KDDN26A1	
2	External control adaptor for outdoor units			DTA104A61	
3	Adaptor for multi tenant			DTA114A61	

Multi BS Unit



No.	Item	Type	BS4Q14B	BS6Q14B	BS8Q14B	BS10Q14B	BS12Q14B	BS16Q14A
1	Closed pipe kit		KHFP26A100C					
2	Joint kit		KHP26A250T					
3	Quiet kit		KDDN26C4	KDDN26C8		KDDN26C12		KDDN26B16

Precision Piping Method

HEADER PACK

No.	Item	Type	4 port type	6 port type
1	HEADER PACK		BHF6RHP6Z	BHF6ARHP6Z, BHF8RHP6Z, BHF10RHP6Z, BHF16RHP6Z

TIGHTFIT

No.	Item	Type	Standard Joint	Asymmetry Joint	90° Bend Joint	Test Plug
1	TIGHTFIT		SDGTC06, SDGTC09, SDGTC12 SDGTC15, SDGTB19, SDGTB22 SDGTB28, BDGTA34, BDGTA41	SDGTC0906, SDGTC1209, SDGTC1512 SDGTC1915, SDGTB2219, SDGTB2522 SDGTB2825, SDGTB3428	SDGTLB22 SDGTLB28	SDGTKB06, SDGTKB09, SDGTKB12 SDGTKB15, SDGTKB19, SDGTKB22 SDGTKB28

L-PIPE for TIGHTFIT front connection

No.	Item	Type	Gas pipe			Liquid pipe
			ø19.1	ø22.2	ø28.6	ø19.1
1	L-Pipe		SDGTEB19-CU	SDGTEB22-CU	SDGTEB28-CU	SDGTEB19-CUL

Non-Brazed REFNET Joint for TIGHTFIT

No.	Item	Type	2 pipes	3 pipes
1	Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T	BHRG25A33T, BHRG25A72T, BHRG25A73T

Control systems

Operation control system optional accessories

For VRV indoor unit use



Remote sensor
BRC501A-1(4)(5)(6)

No.	Item		Type	FXFTQ-A FXFRQ-A	FXFSQ-C	FXFQ-A	FXZQ-B	FXCQ-B	FXEQ-A	FXDSQ-A	FXDBQ-A	FXDQ-PD FXDQ-ND	FXDQ-SP	FXSQ-PA		
1	Stylish remote controller *5			BRC1H63W (White) / BRC1H63K (Black)						—					BRC1H63W (White) / BRC1H63K (Black)	
2	Navigation remote controller *5			—	BRC1E63				BRC1F61			BRC1E63				
3	Simplified remote controller			—		BRC2E61				—		BRC2E61				
4	Wireless remote controller	C/O	—	BRC7M635F (Fresh White) BRC7M635K (Black)		BRC7M531W	BRC7M66	BRC4M63	BRC4M66	BRC4C66						
		H/P	—	BRC7M634F (Fresh White) BRC7M634K (Black)		BRC7M530W	BRC7M65	BRC4M61	BRC4M65	BRC4C65						
5-1	Adaptor for wiring (operation status output)			★BRP11B62				—			★BRP11B62	★BRP11B61	—	★BRP11B62		
5-2	Adaptor for wiring			—				★KRP1C14A		—						
6-1	Wiring adaptor for electrical appendices (1)			—			★KRP2A62		★KRP2A51	—		★KRP2A61	★KRP2A53	—	★KRP2A61	
6-2	Wiring adaptor for electrical appendices (2)			★KRP4AA53				★KRP4AA51		—		★KRP4AA51	★KRP4A54	—	★KRP4AA51	
7	Remote sensor (for indoor temperature)			BRC501A-5			BRC501A-6		BRC501A-4	—		BRC501A-6	BRC501A-1		BRC501A-4	
8	Installation box for adaptor PCB ☆			KRP1H98A *2, 3			KRP1BB101 *4		KRP1C96 *2, 3		—		KRP4A98 *2, 3	KRP1BB101 *4	—	KRP4A98 *2, 3
9	External control adaptor for outdoor unit			★DTA104A62				★DTA104A61		—		★DTA104A61	★DTA104A53	—	★DTA104A61	
10	Digital input adaptor			★BRP7A52			★BRP7A53		★BRP7A51	—		★BRP7A51 *9	★BRP7A54	—	★BRP7A51	

No.	Item		Type	FXMQ-PA	FXMQ-P	FXUQ-A	FXHQ-MA	FXHQ-B	FXAQ-B	FXLQ-MA FXNQ-MA	FXVQ-N *7	FXBQ-P FXBPQ-P			
1	Stylish remote controller *5			BRC1H63W (White) / BRC1H63K (Black)											
2	Navigation remote controller *5			BRC1E63								BRC1E63 *6		BRC1E63	
3	Simplified remote controller			BRC2E61											
4	Wireless remote controller	C/O	BRC4C66		BRC7CB59		BRC7EA66	BRC7M56	BRC7M678 (20-71) BRC7M680 (80-100)	BRC4C64	—	BRC4C64			
		H/P	BRC4C65		BRC7CB58		BRC7EA63W	BRC7M53	BRC7M677 (20-71) BRC7M679 (80-100)	BRC4C62	—	BRC4C62			
5-1	Adaptor for wiring (operation status output)			★BRP11B62	—		★BRP11B61		BRP11B61-1	—		BRP11B62	—	BRP11B62	
5-2	Adaptor for wiring			—	KRP1C13A	—							KRP1C67	—	
6-1	Wiring adaptor for electrical appendices (1)			★KRP2A61	KRP2A61	—		★KRP2A62	—		★KRP2A61	KRP2A61	KRP2A62 *8	KRP2A61	
6-2	Wiring adaptor for electrical appendices (2)			★KRP4AA51	KRP4AA51	★KRP4AA53		★KRP4AA52		★KRP4AA51	KRP4AA51	—	KRP4AA51		
7	Remote sensor (for indoor temperature)			BRC501A-4	BRC501A-6	BRC501A-4	BRC501A-1	BRC501A-6		BRC501A-1			BRC501A-1		
8	Installation box for adaptor PCB ☆			KRP4A97 *2, 3	—		KRP1BA97	KRP1CA93 *3	KRP1D93A *3	KRP4B93 *2, 3	—		—		
9	External control adaptor for outdoor unit			★DTA104A61	DTA104A61	—		★DTA104A62		★DTA104A61	DTA104A61	DTA104A62 *8	DTA104A61		
10	Digital input adaptor			★BRP7A51	—		★BRP7A53		★BRP7A52		★BRP7A51	BRP7A51	—		
11	External control adaptor for cooling / heating			—				—		—		KRP6A1 *8		—	
12	Remote controller with key			—				—		—		KRCB37-1		—	

Notes: 1. Installation box☆ is necessary for each adaptor marked ★.
 2. Up to 2 adaptors can be fixed for each installation box.
 3. Only one installation box can be installed for each indoor unit.
 4. Up to 2 installation boxes can be installed for each indoor unit.
 5. Some functions can be set only via the stylish or navigation remote controller. They cannot be set via other remote controllers.
 Please refer to each indoor unit and remote controller page for function details.
 6. Since the control panel is equipped as standard, use the option of BRC1E63 for 2 remote control system.

7. When using BRC1H63W(K), BRC1E63 or BRC2E61, be sure to remove the control panel and since BRC1H63W(K), BRC1E63 and BRC2E61 cannot be stored inside the indoor unit, please place it separately.
 8. Remove the group control adaptor which is a standard equipment before mounting KRP2A62, KRP6A1 and DTA104A62. KRP2A62, KRP6A1 and DTA104A62 cannot be mounted to the same indoor unit at the same time.
 9. Only possible in combination with BRC1H63W(K).



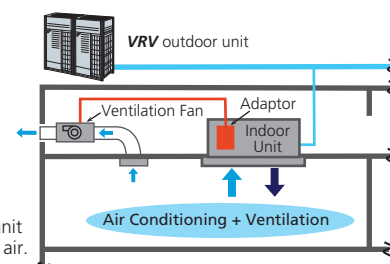
BRP11B61 BRP11B62

Adaptor for wiring (operation status output)

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

Example:

Interlocking operation of the indoor unit and ventilation fan that takes in fresh air.



Option List

Control systems

System configuration

No.	Item	Model No.	Function
1	Simple touch controller	DTP401A61	• Up to 64 groups of indoor units (128 units) can be easily controlled with 8 inch touch screen. ON/OFF, temperature, mode and weekly schedule timer setting and monitoring can be accomplished individually or simultaneously.
1-1	AC adaptor	DTP401A62	• AC adaptor is required when installing simple touch controller.
2	Residential central remote controller	DCS303A51 *2	• 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.
3	Interface adaptor for residential indoor units	KRP928BB2S	• Adaptors required to connect products other than those of the VRV System to the high-speed DIII-NET communication system adopted for the VRV System. * To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
4	Interface adaptor for SkyAir-series	★DTA112BA51 *3	
5	Central control adaptor kit For UAT(Y)-K(A),FD-K	★DTA107A55	
6	Wiring adaptor for other air-conditioner	★DTA103A51	
7	DIII-NET expander adaptor + Wire harness adaptor kit	DTA109A51 + BER11A *4	• Up to 1024 units can be centrally controlled in 64 different groups. • Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor.
7-1	External control adaptor	DTA104A61	• Demand control of individual or multiple systems. • Low noise option for individual or multiple systems.
7-2		DTA104A62	
7-3	Mounting plate	BKS26A	• When installing DTA109A51, DTA104A61 into outdoor units of 10 HP (VRV X MAX) / 14 HP (VRV A MAX) or larger.

Notes: *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.

*4. BER11A is necessary when connecting DTA109A51 to the outdoor unit control box (**VRV R/H** and **VRV 6 X/A**).

Building management system

No.	Item			Model No.	Function
1	MARUTTO E-Series	Basic	Hardware	MARUTTO edge	• An all-in-one, cloud-based HAVC management service that offers real-time control. Up to 128 indoor units can be connected to MARUTTO edge. • To use MARUTTO E-Series, both MARUTTO edge and basic package agreement are necessary. The basic package is a monthly subscription.
			Software	Basic package	
1-1		Option	Hardware	DIII plus adaptor	• Additional 64 indoor units can be connected to DIII plus adaptor or slot. DIII plus adaptor and Max. 5 DIII plus adaptor slots can be connected to MARUTTO edge.
1-2				DIII plus adaptor slot	
1-3			Software	PPD function *1	• Electric power and gas consumption amounts are automatically allocated to each indoor unit according to operating conditions.
1-4				Demand control *1	• Air conditioning power consumption is gradually suppressed to prevent it from exceeding the set target power value.
1-5				Remote emergency operation *1	• When air conditioners break down, customers can remotely enter the emergency operation settings themselves.
1-6				Social media support *1	• User friendly facilities management with instant error notification and remote operation.
1-7				AI energy-saving control *1	• AI energy-saving control estimates future heat load using weather forecasts, equipment operation, and building data to proactively optimize refrigerant temperature.
1-8				Intelligent maintenance *1	• Provides real-time remote monitoring, fault prediction, and fault diagnostics for data-driven, energy-saving solutions.
1-9				BACnet® client *2	• Management of 3rd party equipment is possible via the BACnet® /IP protocol to enable remote monitoring and control.
1-10				BACnet® server *2	• The server functions as a BACnet® interface for BMS integration to enable the BMS integrator to monitor and control air conditioning.
2	intelligent Touch Manager	Basic	Hardware	intelligent Touch Manager	• Air-conditioning management system that can be controlled by touch screen.
2-1		Option	Hardware	DIII plus adaptor	• Additional 64 groups (10 outdoor units) is possible. DIII plus adaptor and Max. 6 DIII plus adaptor slots can be connected to intelligent Touch Manager.
2-2				DIII plus adaptor slot	
2-3		Option	Software	iTM power proportional distribution	• Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh metre.
2-4				iTM energy navigator	• Building energy consumption is visualised. Wasted air-conditioning energy can be found out.
2-5				BACnet® client	• BACnet® equipment can be managed by intelligent Touch Manager.
2-6				HTTP Interface	• Interface for intelligent Touch Manager by HTTP

Notes: *1. This option is a contract-based package. The purchase of a service agreement is necessary.

*2. This software is a one-time payment.

Building management system

No.	Item			Model No.	Function	
3	intelligent Touch Controller	Basic	Hardware	intelligent Touch Controller	DCS601C51	• Air-Conditioning management system that can be controlled by a compact all-in-one unit.
3-1		Option	Hardware	DIII-NET plus adaptor	DCS601A52	• Additional 64 groups (10 outdoor units) is possible.
3-2			Software	Web software	DCS004A51	• VRV system that is connected to intelligent Touch Controller can be operated from the user's PC via a web page.
3-3	Electrical box with earth terminal (4 blocks)			KJB411A	• Wall embedded switch box.	
4-1	Smartphone/ Tablet control	Basic	Hardware	Reiri for Office	DCPF01	• VRV smart controller (website or mobile app via smart phone or tablet) for small to medium scale building
4-2				Reiri for Office (Touchscreen Controller)	DCPF04	• VRV smart controller with touch panel (website or mobile app via smartphone or tablet) for small to medium scale building
4-3				Reiri for Office (Controller Extension)	DCPF05	• VRV smart controller for large scale building
4-4				Reiri for Office (Multisite Extension)	DCPF10	• Control all VRV units via Reiri for Office on multisite
4-5				Reiri for Home	DCPH01B	• VRV smart home automation and smart control solution
4-6				Reiri for Home (Lite Version)	DCPH02	• VRV smart centralised controller
4-7				Reiri for Hotel	DCPL01	• Multiple hotel room air conditioner interlocking with occupancy signal, window open/close signal and check in/out signal
4-8				Reiri for Resort	DCPR01	• Individual villa air conditioner interlocking with occupancy signal, window open/close signal and check in/out signal
4-9		Option	Hardware	Adaptor for Reiri	DCPA01	• Interface adaptor for Reiri
4-10					DCPA01B	• Interface adaptor for Reiri with installation box
4-11				IAQ Sensor DC for Reiri	DCPE02S	• IAQ Sensor for Reiri (24V AC/DC)
4-12			Software (Commercial)	Commercial Automatic Control	DCPN001	• Set back, Scene, Interlock Automatic Changeover functions for individual controller
4-13				Commercial Data Analytics	DCPN002	• Operation Report, Error Report; Trend Graph, Energy Graph functions for individual controller
4-14				PPD & Tenant Billing Management	DCPN003	• Power Proportional Distribution and billing function for individual controller
4-15				Realtime Energy Monitoring (REM)	DCPN004	• Real Time Energy Display function for individual controller
4-16				Multisite Branch Expansion	DCPN005	• To expand the multisite control limit by 1 site
4-17				iTM Tenant Billing Management	DCPN008	• Billing function for iTM Power Proportional Distribution data
4-18			Software (Residential)	Residential Automatic Control	DCPN006	• Setback, Setpoint Range, Remote Control Prohibition, Automatic Changeover functions for individual controller
4-19				Residential System Report	DCPN007	• Operation Report, Error Report functions for individual controller
5-1	Di unit			DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.	
5-2	Dio unit			DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input/output.	
6	Communication interface	Interface for use in BACnet® *3			DMS502B51	• Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through BACnet® communication.
6-1		Optional DIII board			DAM411B51	• Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.
6-2		Optional Di board			DAM412B51	• Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.
7		Interface for use in LONWORKS® *4			DMS504B51	• Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through LONWORKS® communication.
8		Home Automation Interface Adaptor + Wire harness adaptor kit			DTA116A51 + BER11B *7	• Use of the Modbus® protocol enables the connection of the VRV system with a variety of home automation systems from other manufacturers. *6
8-1		Mounting plate			BKS26A	• When installing DTA116A51 into outdoor units of 10 HP (VRV X MAX) / 14 HP (VRV A MAX) or larger.
9	Contact/ analogue signal	Unification adaptor for computerised control			★DCS302A52	• Interface between the central monitoring board and central control units.

Notes: *3. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

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

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

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

*7. BER11B is necessary when connecting DTA116A51 to the outdoor unit control box (**VRV** R/H and **VRV** 6 X/A).

Engineering Support

Design assistance and sales proposal

By providing not only excellent products but also engineering support, Daikin helps consultants and architects select **VRV** systems more appropriately and easily to enable more efficient operation and function.

Model Selection

BIM Support and Tools

Analysis and Simulation

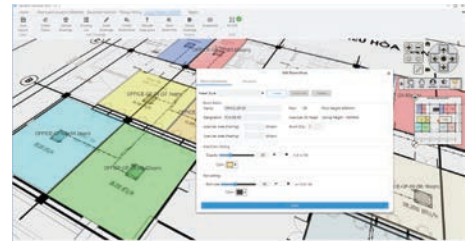
Model Selection

DK-BIM-Heat Load Calculation

Part of our support is the heat load calculation function based on the ASHRAE RTS method. After scanning the building drawing, this feature measures, creates rooms, and sets structures to greatly reduce calculation work.

Setting individual equipment load, occupancy, and outdoor air load for each room is also possible.

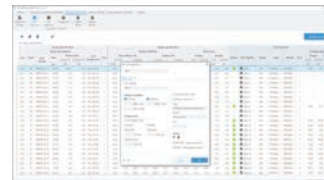
The calculation results then assist in equipment selection.



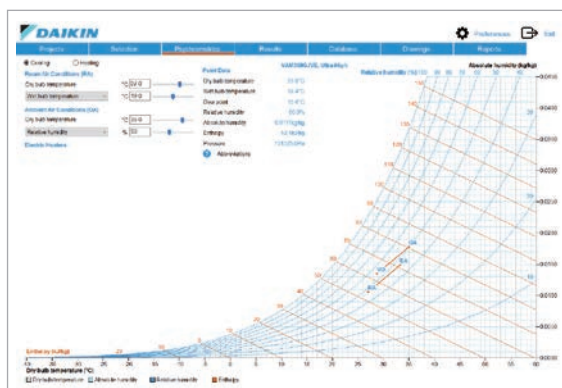
DK-BIM-Model Selection for Air Conditioner

From residential air conditioners to **VRV** systems and packaged air conditioners, nearly all air conditioner types can be selected.

Not only can you choose between automatic selection based on heat load calculation results and manual selection where you specify the model, you can also verify pipe sizes, create piping and wiring diagrams, and select central control devices. In addition to report format, selection results can output piping and wiring diagrams to CAD.



Ventilation Xpress



Model Selection for ventilation products

Ventilation products selection software

Heat Reclaim Ventilator (VAM series) or Outdoor Air Processing Unit (OAPU) can be selected by inputting conditions such as ventilation volume and external static pressure.

In addition, the air temperature and humidity conditions at each point of the selected system are displayed on the psychrometric chart.

Daikin BIM Library

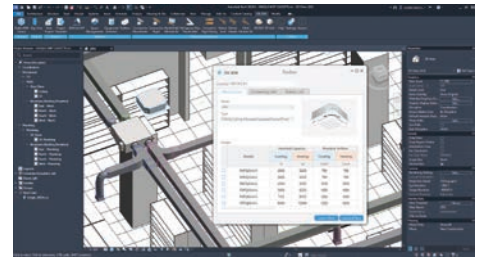
Daikin has recently launched the Daikin BIM Library. This provides total BIM support with 3D Revit Data, 2D CAD symbols, and product information such as specification sheets.

Daikin BIM Library



DK-BIM Revit Plug-In

This shows an add-on software for Autodesk's Revit. A download of the Revit family provides comprehensive support for the design of Daikin products in Revit for performing layouts and piping drawings. It also works with DK-BIM, allowing integration with room volumes in Revit, heat load calculations in DK-BIM, and equipment selection results.



Analysis and Simulation

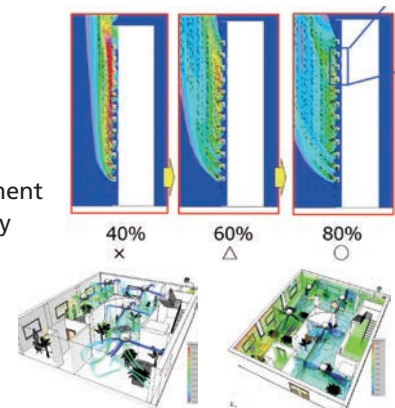
Airflow Simulation

Outdoor airflow analysis software (DT-FLOW2)

Simulates the short circuit of the outdoor unit and uses it as a reference for optimal installation. Creates model of the property with Filder Cube (equipment CAD software), calculates with IconCFD (analysis software), and automatically outputs the report.

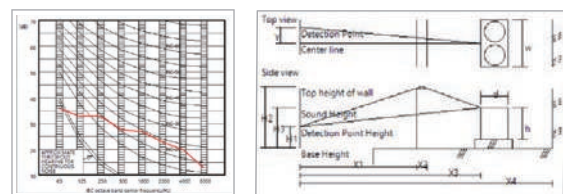
Indoor air environment analysis service

Provides simulation results for temperature, humidity, CO₂, dust, and air age in the target area.



Outdoor Unit Sound Calculation (DACCS-NIS)

Depending on the installation conditions of the equipment, it simulates the operating sound of the outdoor unit that can be heard at any position, which is useful for appropriate soundproofing measures on site.



Energy Simulation Support

A simulation service using QSP software to provide simple proposals by relatively comparing the annual energy efficiency of systems. Based on meteorological data from cities around the world, this service calculates the annual electricity bills of residential air conditioning, SkyAir, and VRV, effectively promoting the energy-saving benefits of VRV.



Warning

- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

Notice

- About harmonics, since this product is equipped with an inverter, harmonics will be generated. If local laws require the suppression of harmonics on the building, please take harmonic suppression measures on the electrical equipment side. Please contact your local sales company for details.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

VRV is a trademark of Daikin Industries, Ltd.

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

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