DAIKIN

PCTVNZ2301

VRV

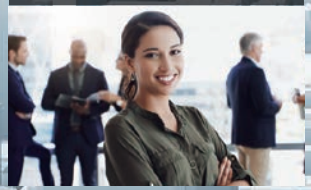
R-410A

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 almost 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 management.

For **OWNERS**



Lifecycle Cost & Comfort

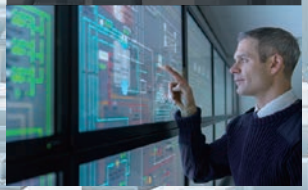
For **INSTALLERS**

Easy Installation

For **CONSULTANTS**

Flexible Design & Engineering Supports

For **BUILDING MANAGEMENTS**



Reliability & Comfort

Contents

New Products Information

VRV R SERIES Heat Recovery

Page 17

VRV R Series Promotion Movie

VRV R Series Special Site

VRV H SERIES Heat Pump

Page 39

VRV H Series Promotion Movie

VRV H Series Special Site

Featuring unique functions in a new large capacity casing

REYQ-B
RXYQ-B

- ✓ Adopt a new casing to realise a single module of up to 24 class
- ✓ Achieved significant energy savings with improved technology
- ✓ Defrost functions improved comfort by extending the heating operation time
- ✓ 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.
- ✓ 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.

Round Flow Cassette with Sensing and Streamer Type

Page 123

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

STREAMER

- ✓ Built-in streamer function unit for efficient cleaning function
- ✓ Daikin advanced sensing technology dual sensors
- ✓ Individual airflow direction control

FXFTQ-A

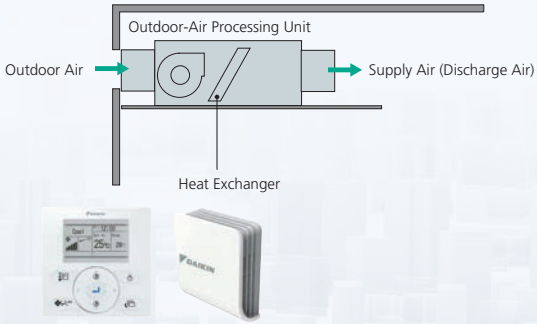
Outdoor-Air Processing Unit

Page 175

FXMQ-AF Series

Improve IAQ with fresh air ventilation and precise room temperature control

- ✓ Set point temperature can be selected similar to standard ***VRV*** indoor unit.
- ✓ Maximum connection ratio increased from 100% to 130%.
- ✓ With the VRT control feature, higher efficiency can be achieved.



Stylish Remote Controller

Page 193

Special Site

A complete redesigned controller focused to enhance user experience

White
BRC1H63W

Black
BRC1H63K

reddot design award

- ✓ Two attractive colors to match any interior
- ✓ Compact, measures only 85 x 85 mm
- ✓ Timer functions (OFF timer, Weekly schedule timer)
- ✓ Easy setting via smartphone application using Bluetooth® wireless technology (for Installer/Facility manager)
- ✓ Improved setback function to keep hotel room comfortable

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.

STREAMER

Built-in inside the indoor unit

Round Flow Cassette with Sensing and Streamer Page 123

FXFTQ-A

New

Streamer filter clean unit built-in inside the indoor unit

Option for the indoor unit

Compact Multi Flow Cassette Page 135

FXZQ-B

Double Flow Cassette Page 137

FXCQ-B

Ceiling Suspended Page 157

FXHQ-B

New Option

Streamer Filter Clean Unit

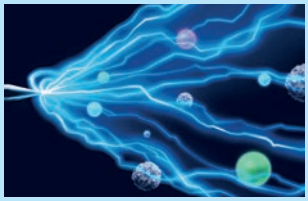
BAPWS55A61

Streamer Technology

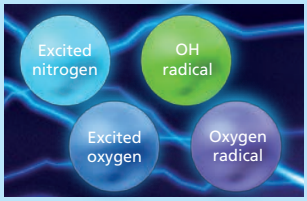
Equipped with decomposition technology, Streamer is a type of plasma discharge that eliminates allergens such as pollen, mould, and mites, as well as, deodorises anti-bacterial dust filters so you can breathe with ease.

STREAMER

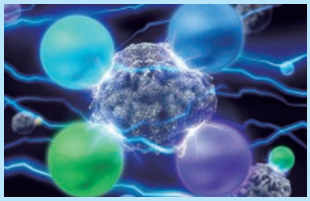
Mechanism of decomposition by Streamer



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.

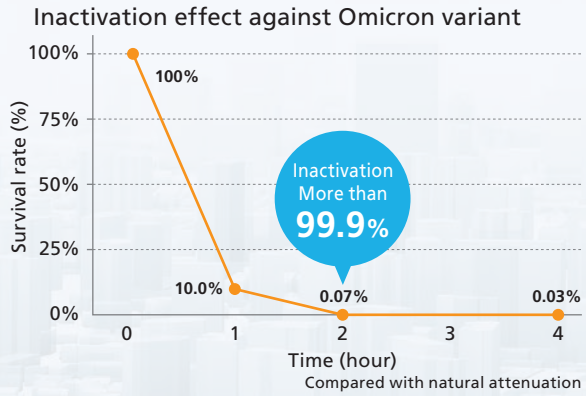


The decomposing elements provide decomposition power.

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.



Compared with natural attenuation

Test Method

DAIKIN Streamer Research Institute

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.

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 dischage 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

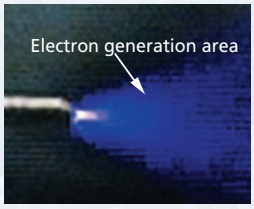
Winner of the 2005 Progress Award, Institute of Electrostatics Japan

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

105 Patents Acquired

Patents acquired relating to Streamer technology

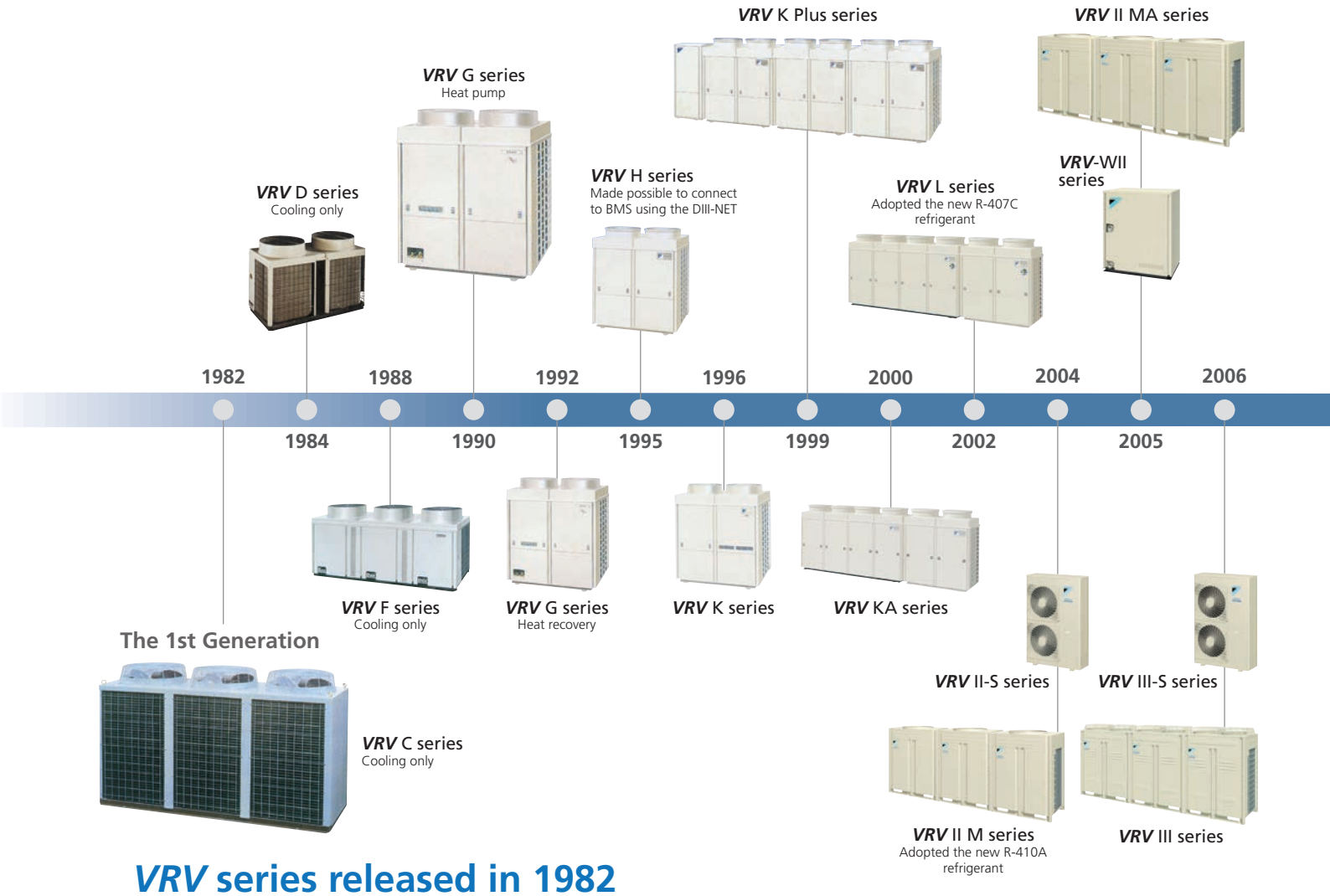
Streamer, a type of plasma discharge, decomposes hazardous chemical substances. The decomposition power is comparable to thermal energy of about 100,000°C.*



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

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.



VRV series released in 1982

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

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

Expansion of the country of sale

Sales companies well established in more than 70 countries

*VRV is a trademark of Daikin Industries, Ltd.

VRV WS series
Water cooled system

VRV H series
Heat pump

VRV IV
Cooling only / Heat pump

VRV IV
Heat Recovery Hot Water System

VRV III-C series
Low outdoor temp. area use

VRV III Q series
Replacement use

VRV R series
Heat recovery

VRV R series
Heat recovery

2007 2008 2010 2011 2012 2014 2015 2016 2018 2020 2022 2023

VRV-WIII series

VRV III
Connection to residential indoor unit series

VRV IV S series

VRV IV W series
Water cooled system

VRV S
High Seasonal Efficiency Series

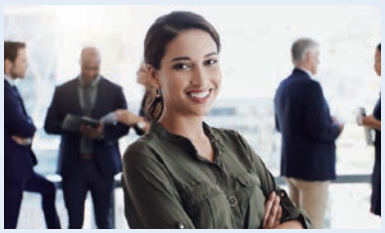
VRV H series
Heat pump

VRV Multi function series
Cooling/heating, hot water supply

VRV IV
Heat recovery

VRV IV Q series
Replacement use

For **OWNERS**



Lifecycle Cost & Comfort

Large-capacity Single Module

- Installation space and cost are reduced by large–capacity casing for max. 24 class.

Energy Saving Technology

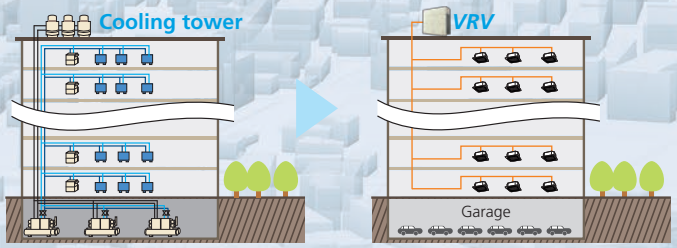
- Further improvement of energy saving by high efficiency compressor and VRT Smart II control.
- Achieves high TCSPF/HSPF, that reduces running cost.

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.

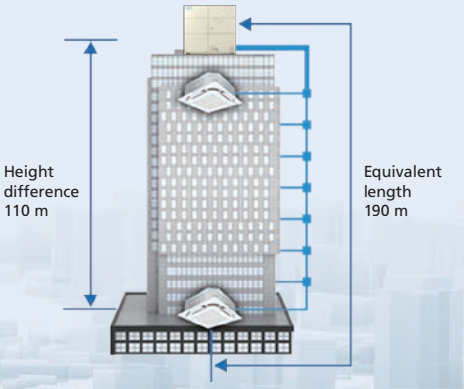


For CONSULTANTS

Flexible Design & Engineering Supports

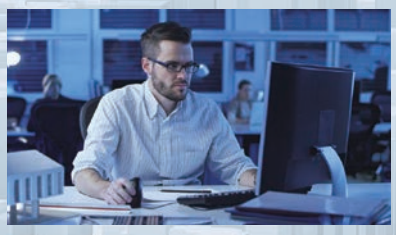
Long Refrigerant Piping

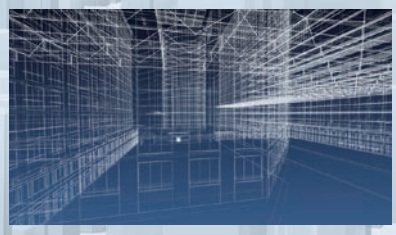
- Equivalent length extension max. 190 m
- Height difference extension max. 110 m (20 m longer than conventional models)
- By applying for both extensions at the same time, supports a wide range of applications.



Engineering Support Software

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



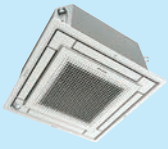


Model Selection
Drawing Supports
Analysis and Simulation

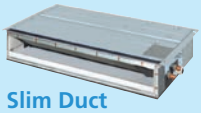
Varied Lineup of Indoor Units

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


Round Flow Cassette


Compact Multi Flow Cassette

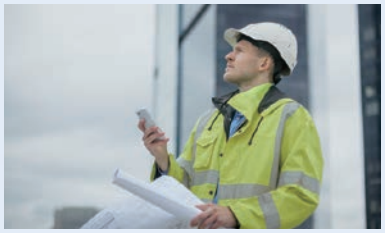

Middle Static Pressure Duct


Slim Duct


Ceiling Suspended


Wall Mounted

For INSTALLERS



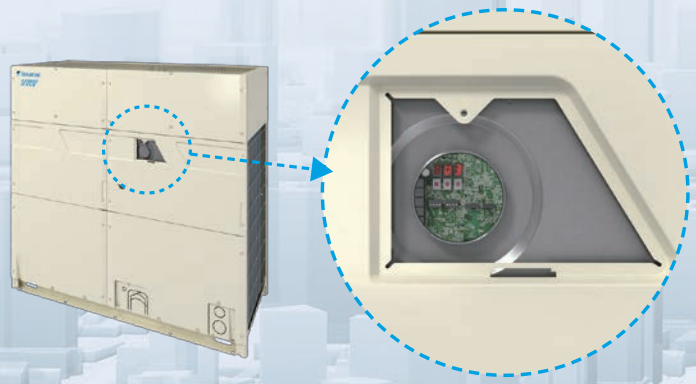
Easy Installation

Slimmer Main Piping

- For gas pipe of up to 20 class, the main piping diameter size can be reduced from standard size. It enables lowering installation cost.

Electrical Component Service Window

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

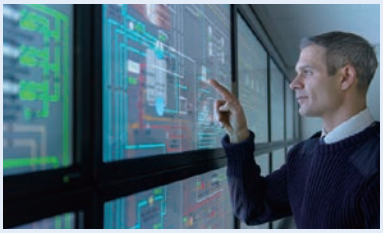


Process visualization (Test run only)

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

Simple Piping, Easy Wiring

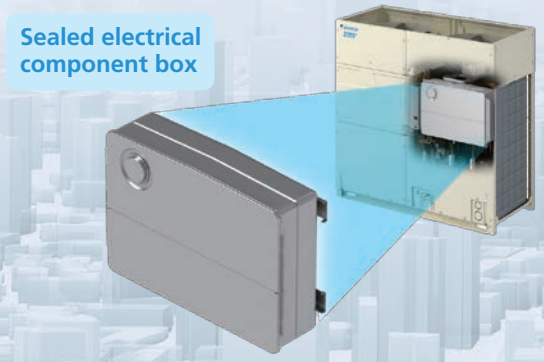
- The REFNET piping system and DIII-NET system simplify refrigerant piping and control wiring installation.



Reliability & Comfort

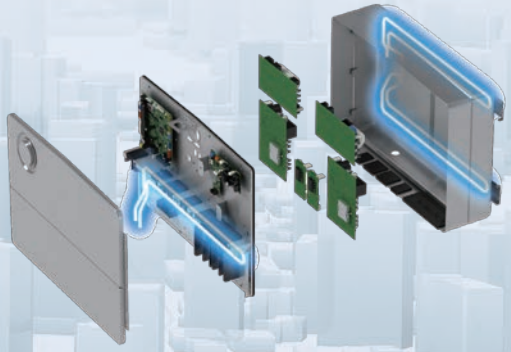
IP55 Sealed Component Box

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



Refrigerant Piping Cooling System

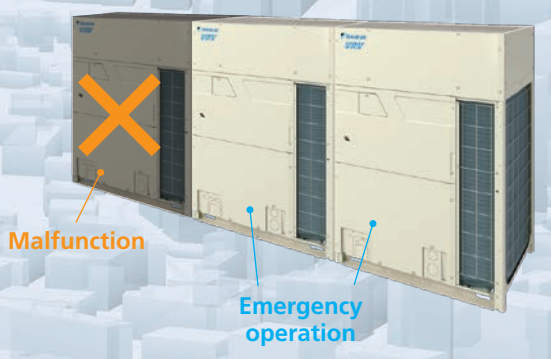
- Refrigerant cooling circuit enables operation in high outdoor temperatures.



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

New

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

Page 17

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

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

New

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

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

RSUYQ-A
4-6 class: 1-phase, 220-240 V/220-230 V, 50/60 Hz
7-8 class: 3-phase, 380-415 V/380 V, 50/60 Hz

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VRV S *High Seasonal Efficiency SERIES*

Heat Pump

Especially designed for residential houses, small office and shops

VRV S High Seasonal 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

class	4	5	6	7	8
Heat Pump	●	●	●	●	●

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

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VRV IV S SERIES

Heat Pump

Especially designed for residential houses, small offices and shops

VRV IV S series aims to provide sufficient capacity, along with the compact size required by residential houses, small offices and shops. Outdoor units are designed to be slim and space saving, and offer 6 models to suit your needs.

Lineup

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

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.

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

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VRV IV Q SERIES

Heat Pump

For quick & high quality replacement use

VRV III-Q
Heat Recovery

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

VRV IV Q series / ***VRV*** III Q series, a replacement ***VRV*** unit, can be installed using existing refrigerant piping, so renovation of the air conditioning system can be carried out quickly and smoothly. This minimises inconveniences to activities and users in the building.

Lineup

class			6	8	10	12	13	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
VRV IV Q series	Heat Pump	Standard Type	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Space Saving Type								●	●					●	●	●	●	●	●	●	●	●	●
VRV III Q series	Heat Recovery				●		●		●	●	●	●	●	●	●	●									

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 / Heat Recovery

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

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

RWXYQ-A
1-phase, 220V, 50Hz

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VRV WS SERIES

Heat Pump

Water cooled system suitable for residential houses

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

Lineup

class	3	4	5	6
Heat Pump	●	●	●	●

Wide Range Indoor Unit Lineup Create Comfortable Airflow

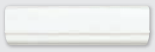
VRV indoor units

● New lineup

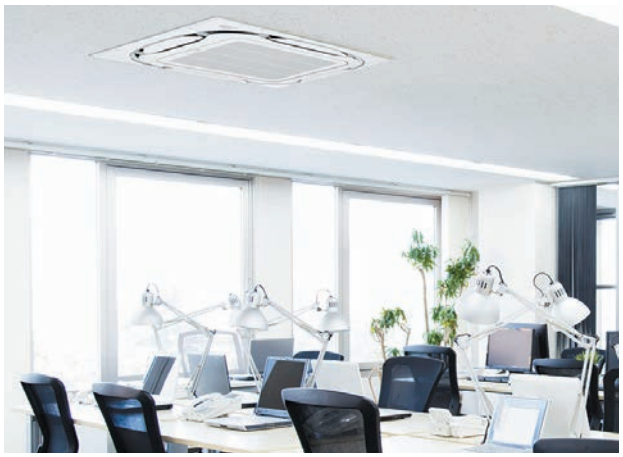
Category	Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
			Capacity Range (kW)	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	16.2	18	20	22.4	28
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	New **FXFTQ-AVM**			●	●	●	●	●		●	●	●	●					
	Round Flow Cassette with Sensing	FXFSQ-AVM			●	●	●	●	●		●	●	●	●					
	Compact Multi Flow Cassette	New **FXZQ-BVM**		●	●	●	●	●											
	Double Flow Cassette	New **FXCQ-BVM**		●	●	●	●	●	●		●		●						
	Single Flow Cassette	FXEQ-AV36		●	●	●	●	●	●										
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE	 (700 mm width type)	●	●	●													
		FXDQ-NDVE	 (900/1,100 mm width type)				●	●	●										
	Slim Duct (Compact)	FXDQ-TV1C(A)		●	●	●	●	●	●										
		FXDQ-SPV1		●	●	●	●	●	●										
	Middle Static Pressure Duct	FXSQ-PAVE		●	●	●	●	●	●		●	●	●	●					
		FXDYQ-MAV1									●	●	●		●				
	Middle-High Static Pressure Duct	FXMQ-PAVE		●	●	●	●	●	●		●	●	●	●					
	High Static Pressure Duct	FXMQ-PV1A														●	●	●	●
	Outdoor-Air Processing Unit	New **FXMQ-AFVM**									●			●				●	●
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
	Ceiling Suspended	FXHQ-MAVE				●		●	●		●	●							
		New **FXHQ-BVM**											●	●					
Wall Mounted		FXAQ-AVM		●	●	●	●	●	●										
Floor Standing	Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
	Concealed Floor Standing (Duct Connection)	FXNQ-A2VEB		●	●	●	●	●	●										
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													6-60 class				

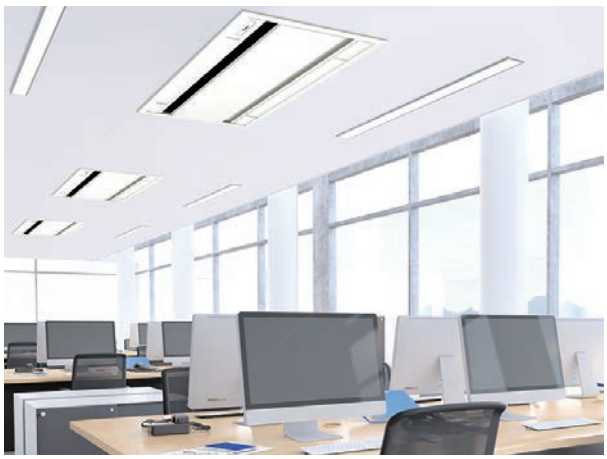
Note: For indoor units connectability, please refer to the indoor unit product lineups under individual outdoor unit series.

Residential indoor units with connection to BP units

Type	Model Name		20	25	35	50	60	71
		Rated Capacity (kW)	2.0	2.5	3.5	5.0	6.0	7.1
		Capacity Index	20	25	35	50	60	71
Compact Multi Flow Cassette	FFQ-BV1B			●	●	●	●	
Slim Ceiling Concealed Duct	FDXS-CVMA	 (900/1,100 mm width type)		●	●	●	●	
Wall Mounted	FTXS-KVMA		●	●	●			
	FTXS-KAVMA					●	●	●

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





VRV R SERIES

Featuring unique functions in a new large capacity casing

Heat Recovery
8class (22.4 kW) – 60class (168 kW)

Promotion Movie

Special Site

New

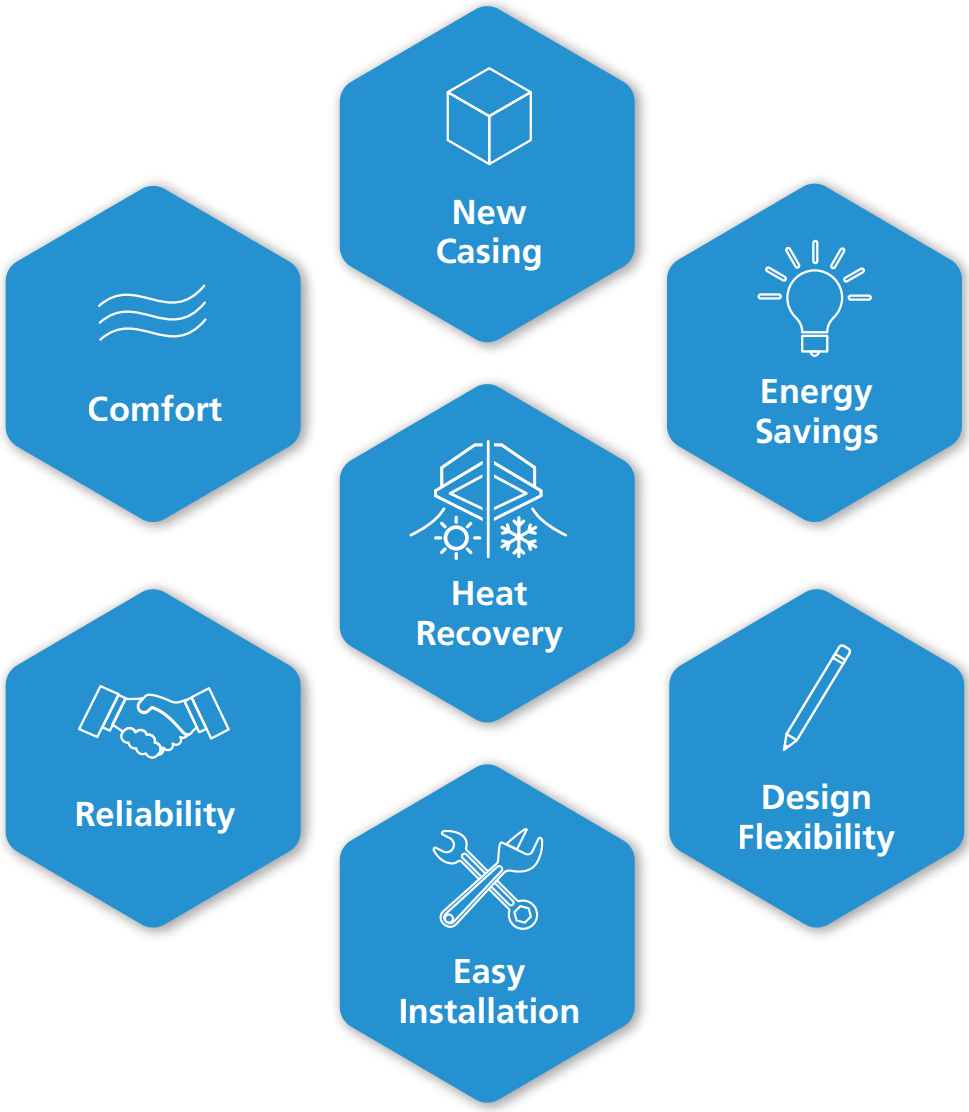
Single outdoor units
REYQ8-24BYM9

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 class. 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 management.



Heat Recovery Technologies

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

Situation

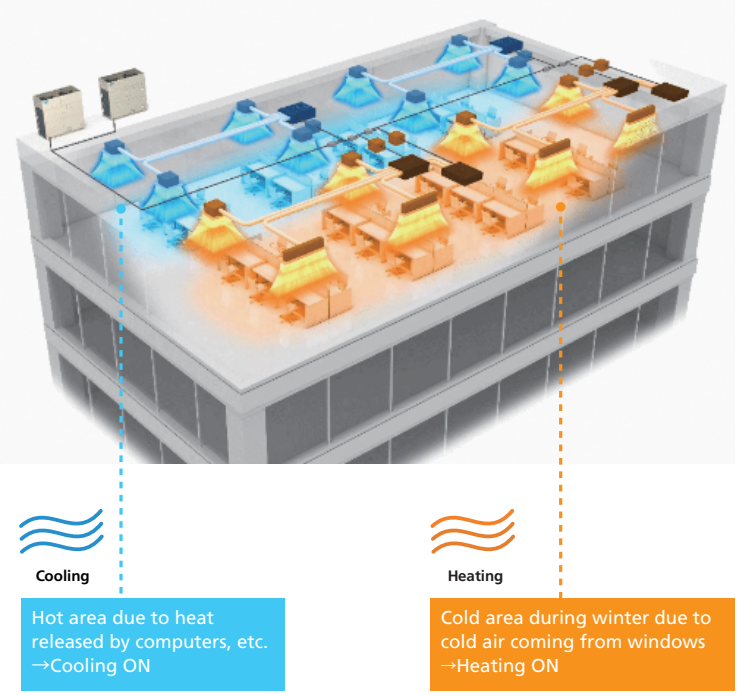
Recent office buildings are highly airtight and due to the use of computers, lighting equipment and other office equipments, **cooling load increases even in winter.**

Need

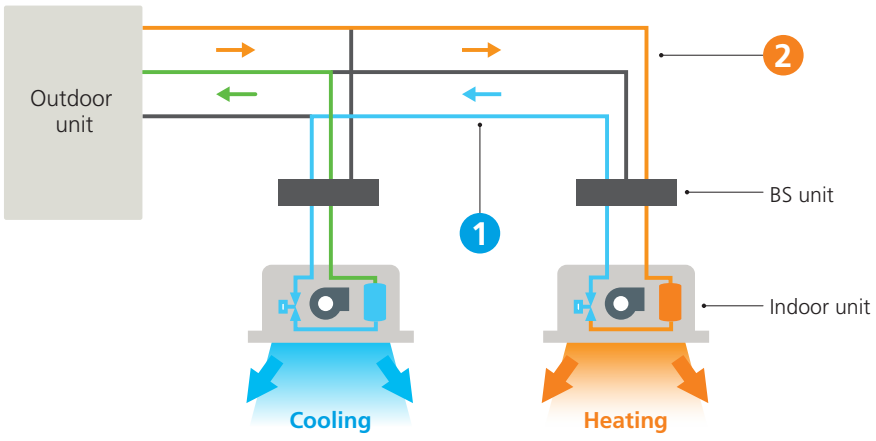
These buildings require **flexible cooling and heating operation.**

Solution

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



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)

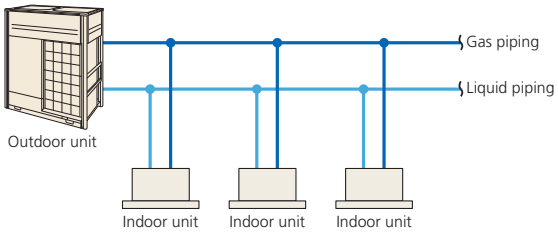
See page 163 - 166

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

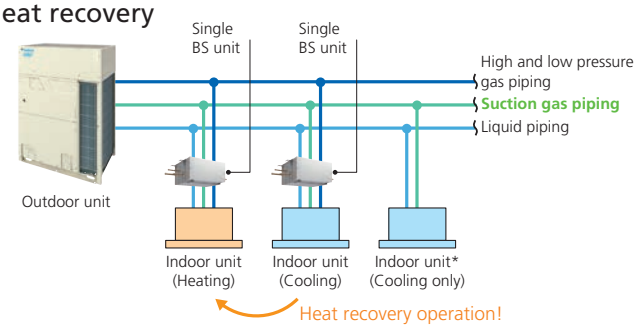
Single BS unit

Multi BS unit

Heat pump

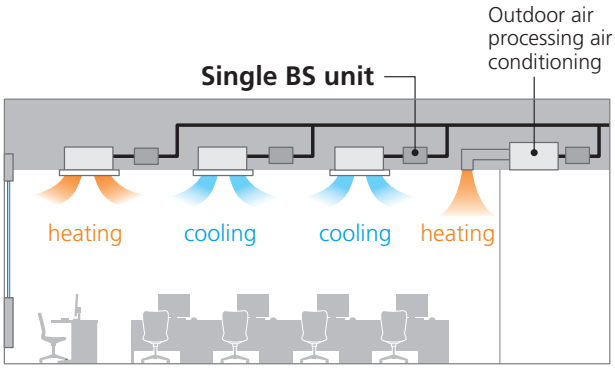


Heat recovery



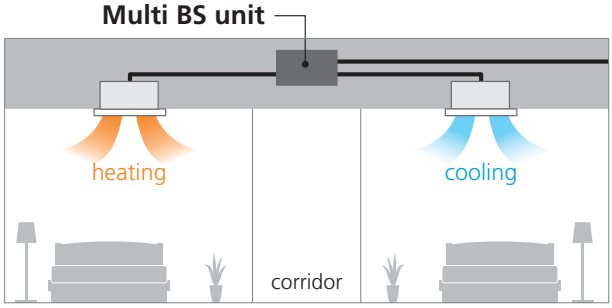
* For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outdoor units.

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

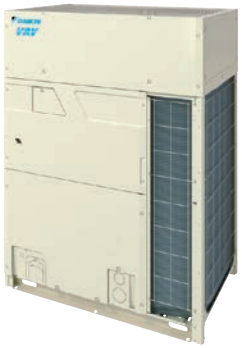
New Casing

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

8, 10, 12 class

REYQ8BYM9 REYQ12BYM9
REYQ10BYM9

14, 16, 18, 20 class



REYQ14BYM9 REYQ18BYM9
REYQ16BYM9 REYQ20BYM9

22, 24 class

REYQ22BYM9
REYQ24BYM9

Outdoor unit combinations

System capacity		Number of units	Single module (class)								
Class	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	129									●	●
48	134										●●
50	140	Triple			●			●	●		
52	146				●				●●		
54	152					●			●●		
56	157						●		●●		
58	162							●	●●		
60	168								●●●		

Large-capacity single module

Single module reduces installation space

Conventional models
VRV R SERIES

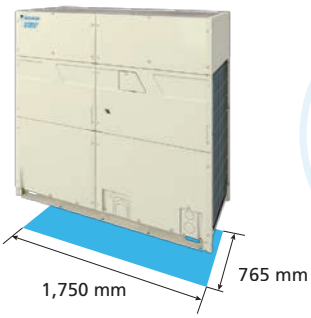
22, 24 class

Installation space **1.44 m²**

Machine weight **460 kg**

New models
VRV R SERIES

22, 24 class



Installation space
7% less
Machine weight
11% less

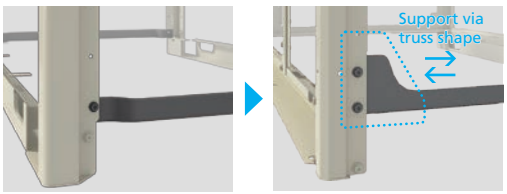
Installation space **1.34 m²**

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.

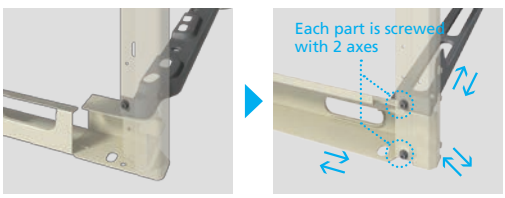
1 Minimises horizontal wobbling



Conventional models

VRV R SERIES

2 Minimises vibration from various angles



Conventional models

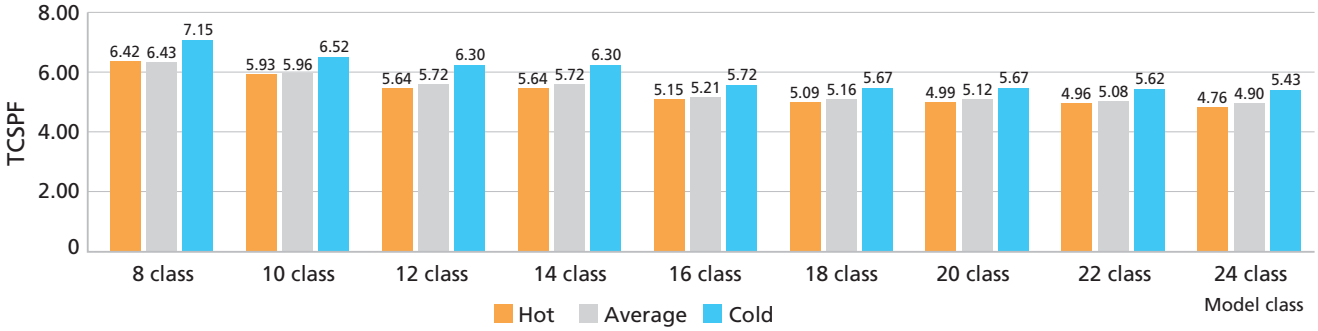
VRV R SERIES

Energy Savings

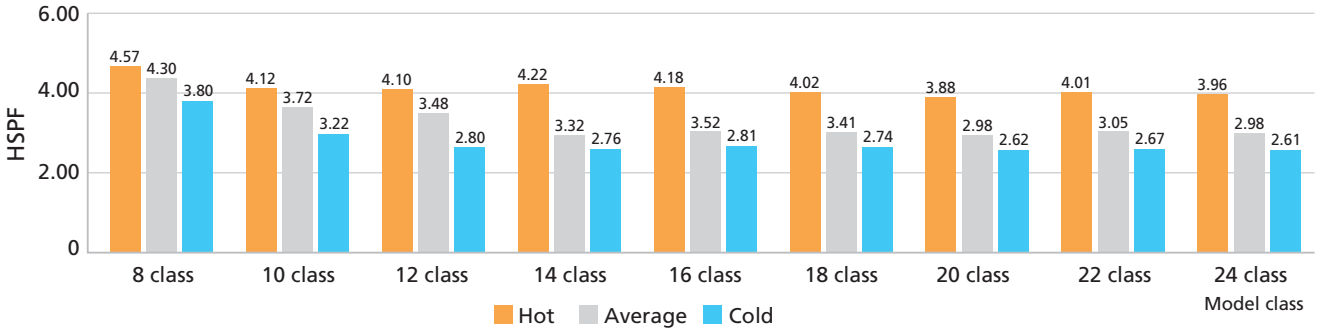
High TCSPF / HSPF

Energy savings during actual operation have been further improved by the evolution of software and hardware technologies.
Achieved high values for TCSPF and HSPF in all series.

TCSPF (for commercial use)



HSPF (for commercial use)



What are **TCSPF and HSPF ?**

TCSPF: Total Cooling Seasonal Performance Factor
HSPF: Heating Seasonal Performance Factor

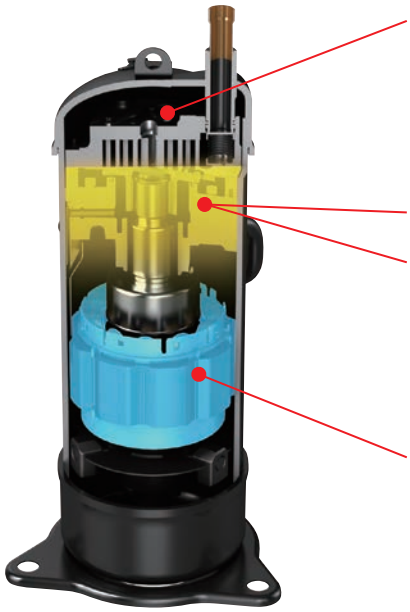
In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.
Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures* as stipulated in AS/NZS 3823.4.1:2014.

Further, the annual outdoor temperatures are based on zoning Australia/New Zealand into three distinct climate zones (Hot/Average/Cold).
This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSPF within the same climate zone.

* There are two kinds of annual outdoor temperatures and it's different for residential and commercial use.

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

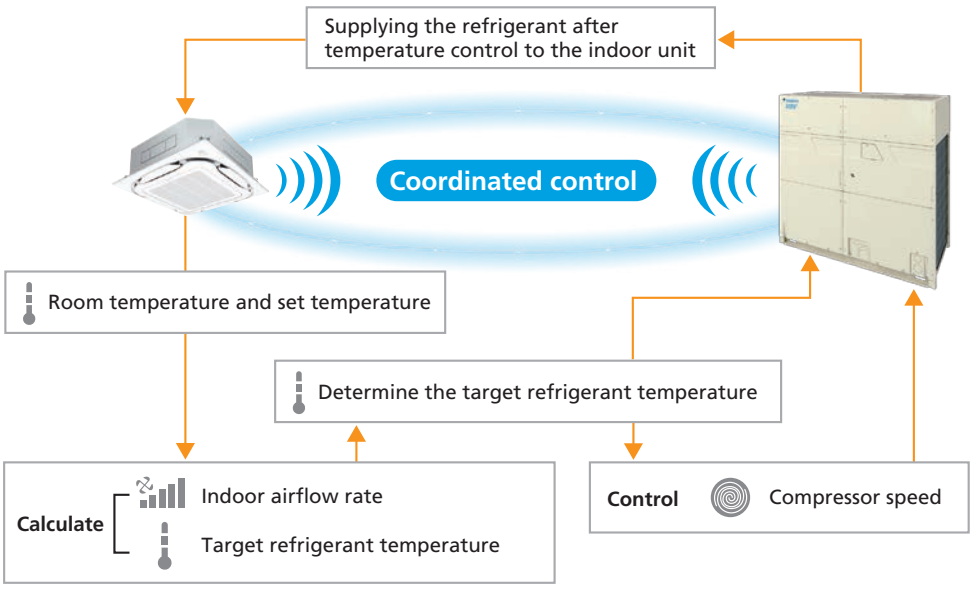
By adopting it, the coil circumference is greatly reduced, which makes the coil denser and thicker, and the electrical resistance of the coil is dramatically reduced to improve motor efficiency. Furthermore, the motor is light-weighted and downsized.

Software technology VRT Smart control

Fully Automatic Energy-saving Refrigerant Control

Optimal supply exactly meets the required capacity of indoor units

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

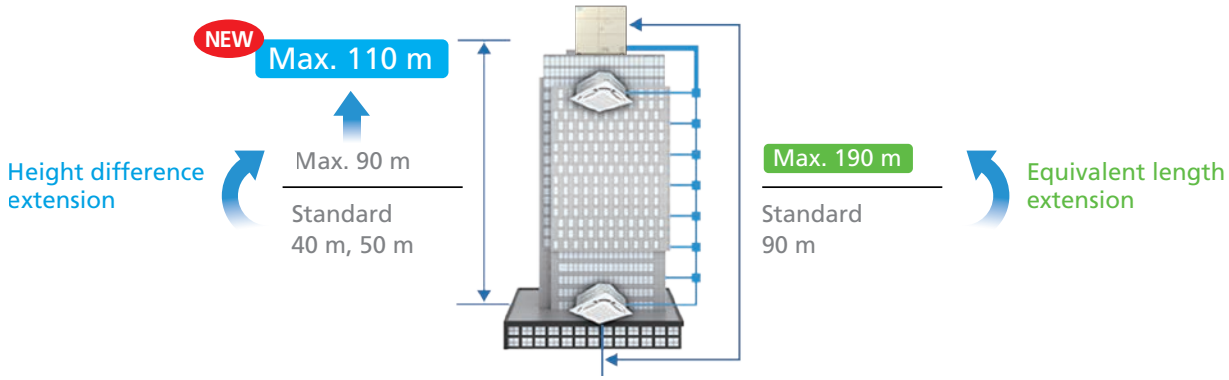


* For the classification of indoor units (VRT smart control and VRT control), refer to the indoor unit lineup.

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.

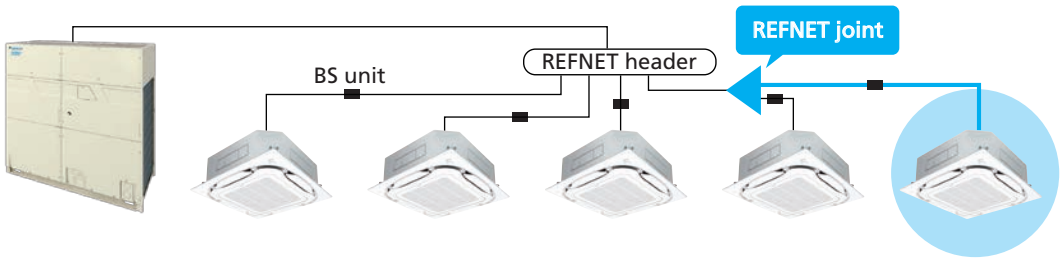
- **Equivalent length extension** Max. 190 m

  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

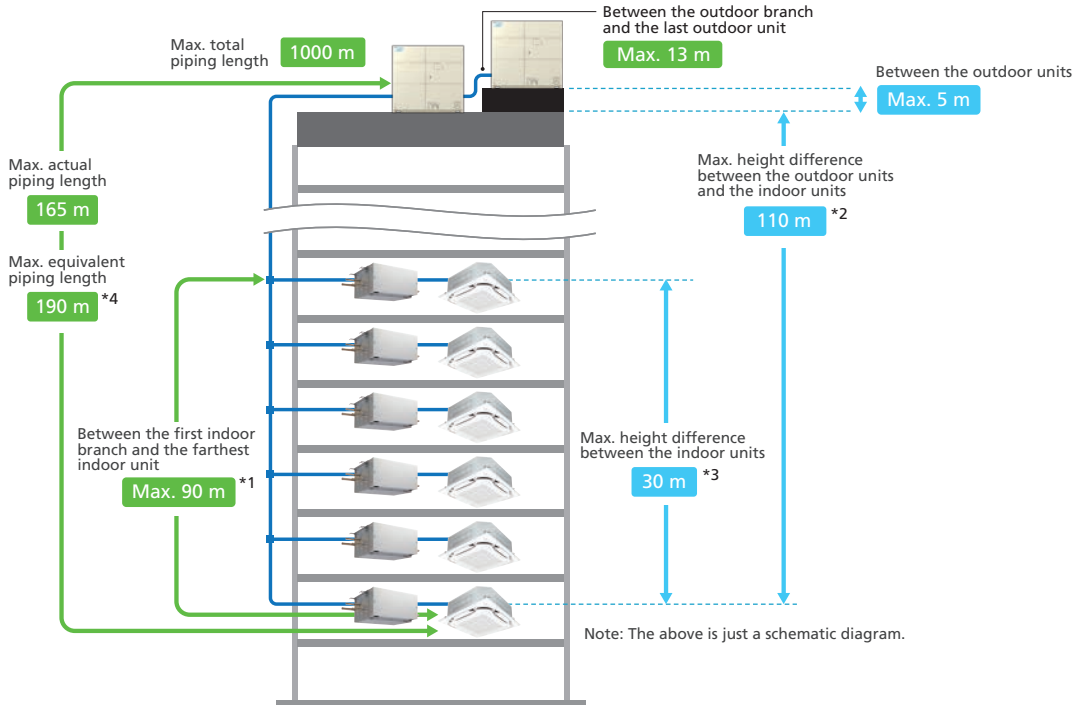
Piping branch by REFNET joint is possible downstream of REFNET header.
The indoor unit arrangement can be more flexible.



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: FXDQ, FXSQ, FXMQ-PA, FXAQ	Other ***VRV*** indoor unit models*1
Single outdoor units	8 - 20 class	200%	200%
	22, 24 class		180%
Double outdoor units			160%
Triple outdoor units			130%

*1 For the FXF(S)(T)Q25 models, maximum connection ratio is 130 % for the entire range of outdoor units.
Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.
*Refer to page 33 for outdoor unit combination details.

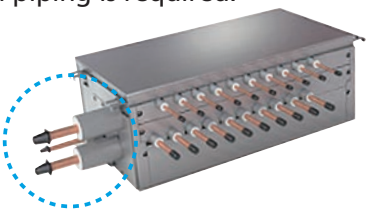
Easy Installation

Drainless Multi BS unit

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

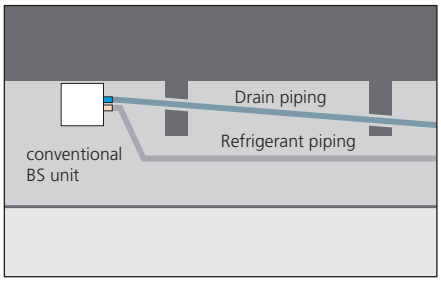
- Abundant lineup includes port counts of 4, 6, 8, 10, 12, and 16. *
- Drain is eliminated with the use of foam insulation inside the casing. On-site work has significantly been reduced for lower installation costs.

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

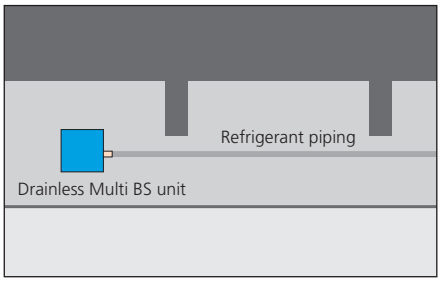


No drain piping

Conventional Multi BS unit



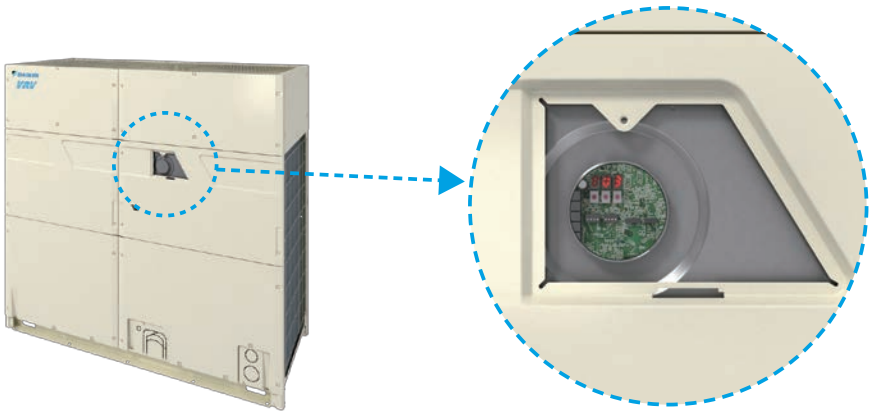
New Drainless Multi BS unit



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

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.

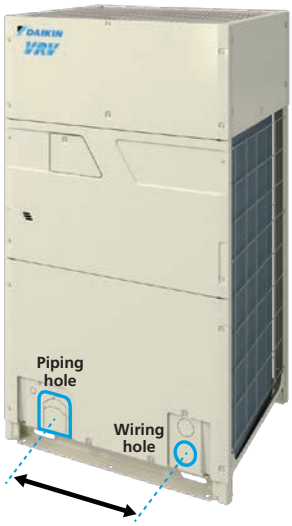
Improved refrigerant piping workability

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

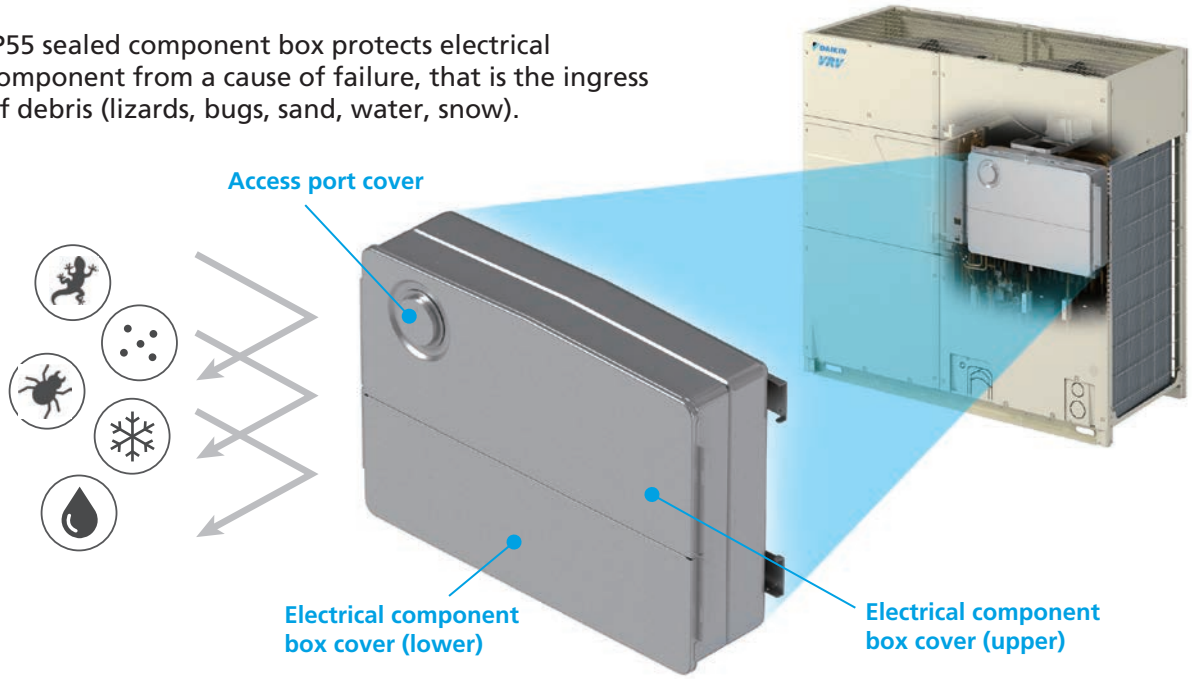


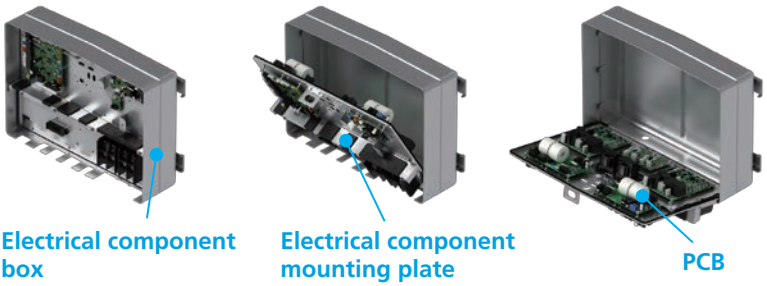
Work becomes easier with sufficient space

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).





The internal mounting plate is hinged, enabling easy maintenance of the PCB on the back.

What is IP55?

IP55 is the degrees of dust and water protection for the electrical component box equipped on the product.

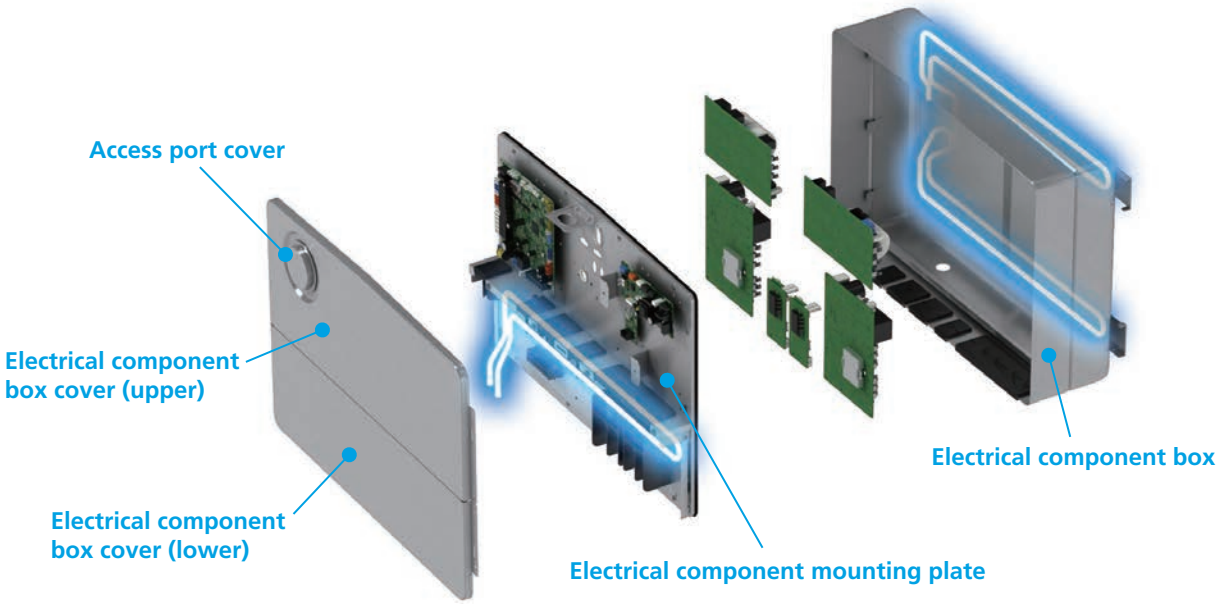
IP55

- **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 wiring box as a single unit. The protection grade of outdoor unit is IP14 as well as conventional model.

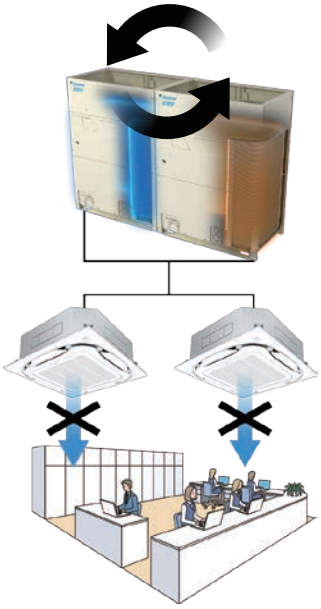
Enables operation in high outdoor temperature

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.



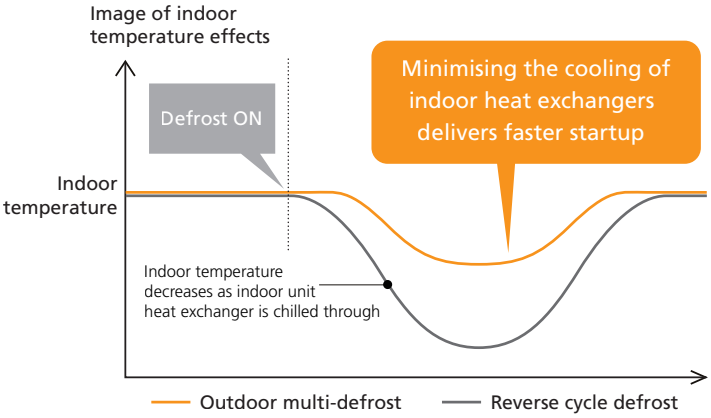
Comfort

Outdoor unit multi-defrost function



Outdoor unit runs defrosting with outside air heat

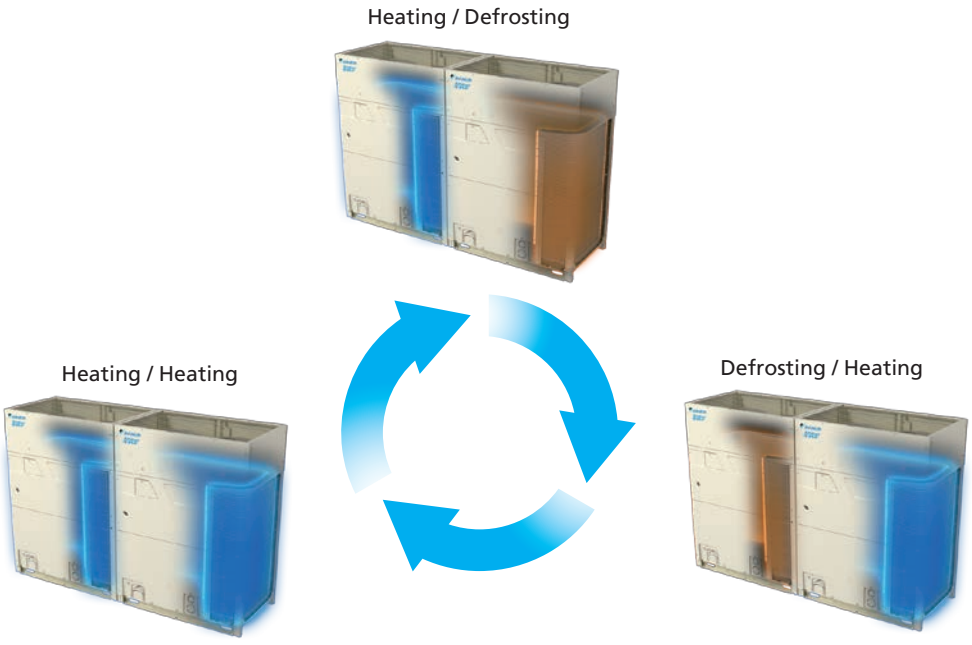
Minimises the cooling of indoor air



Improves comfort of defrosting operation

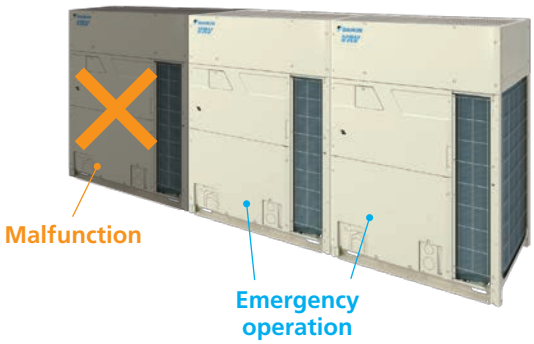
Defrosting in conventional models temporarily reverses the refrigerant cycle to use indoor heat to melt the frost, thus causing the indoor temperature to fall (reverse cycle defrost).
The "outdoor multi-defrost function"enables large-capacity casing models of 22 and 24 class and multi outdoor units to 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

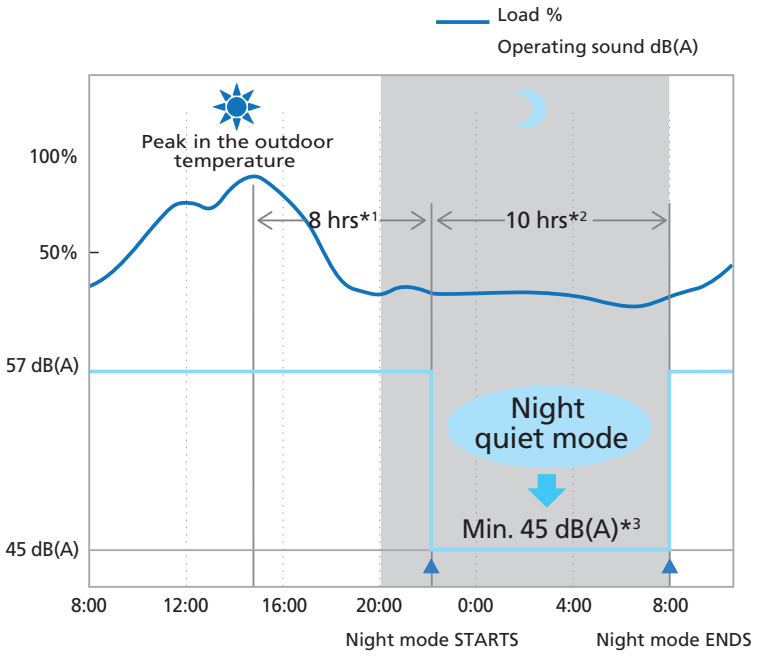
Unit backup operation function



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 class 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 class

Lineup

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

Outdoor unit combinations

class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	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 class systems and above, the outdoor unit multi connection piping kit (separately sold) is required.
*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for REYQ8-20BYM9, 180% for REYQ22/24BYM9, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 26 for note on connection capacity of indoor units.

Indoor Unit Lineup

Enhanced range of choices

● New lineup Indoor units subject to VRT smart control

Category	Type	Model Name		Capacity Range(kW)	20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
					2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	16.2	18	20	22.4	28
				Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	New	**FXFTQ-AVM**			●	●	●	●	●		●	●	●	●					
	Round Flow Cassette with Sensing		FXFSQ-AVM			○	○	○	○	○		○	○	○	○					
	Compact Multi Flow Cassette	New	**FXZQ-BVM**		●	●	●	●	●											
	Double Flow Cassette	New	**FXCQ-BVM**		●	●	●	●	●	●		●		●						
	Single Flow Cassette		FXEQ-AV36		○	○	○	○	○	○										
Ceiling Concealed Duct	Slim Duct (Standard)		FXDQ-PDVE	(700 mm width type)	○	○	○													
			FXDQ-NDVE	(900/1,100 mm width type)				○	○	○										
	Slim Duct (Compact)		FXDQ-TV1C(A)		○	○	○	○	○	○										
			FXDQ-SPV1		○	○	○	○	○	○										
	Middle Static Pressure Duct		FXSQ-PAVE		○	○	○	○	○	○		○	○	○	○					
			FXDYQ-MAV1									○	○	○		○				
	Middle-High Static Pressure Duct		FXMQ-PAVE		○	○	○	○	○	○		○	○	○	○					
	High Static Pressure Duct		FXMQ-PV1A														○	○	○	○
	Outdoor-Air Processing Unit	New	**FXMQ-AFVM**									●			●				●	●
Ceiling Suspended	4-Way Flow Ceiling Suspended		FXUQ-AVEB								○		○							
	Ceiling Suspended		FXHQ-MAVE				○		○	○		○	○							
		New	**FXHQ-BVM**											●	●					
Wall Mounted			FXAQ-AVM		○	○	○	○	○	○										
Floor Standing	Floor Standing		FXLQ-MAVE		○	○	○	○	○	○										
	Concealed Floor Standing (Duct Connection)		FXNQ-A2VEB		○	○	○	○	○	○										
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															

Notes: For indoor units without 'VRT Smart', the standard 'VRT' control is available (excludes Heat Reclaim Ventilators).

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 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
AEER★	Cooling		4.00	3.83	3.61	3.34	3.28	3.27	3.03
ACOP★	Heating		4.09	4.04	3.61	3.32	3.46	3.63	3.47
TCSPF★ (Cooling) Commercial / Residential	Hot		6.42 / 5.57	5.93 / 5.27	5.64 / 5.02	5.64 / 4.96	5.15 / 4.58	5.09 / 4.53	4.99 / 4.43
	Average		6.43 / 4.55	5.96 / 4.44	5.72 / 4.31	5.72 / 4.14	5.21 / 3.90	5.16 / 3.89	5.12 / 3.84
	Cold		7.15 / 4.48	6.52 / 4.41	6.30 / 4.32	6.30 / 4.16	5.72 / 3.90	5.67 / 3.90	5.67 / 3.90
HSPF★ (Heating) Commercial / Residential	Hot		4.57 / 4.58	4.12 / 4.13	4.10 / 4.11	4.22 / 4.15	4.18 / 4.18	4.02 / 4.03	3.88 / 3.89
	Average		4.30 / 4.15	3.72 / 3.59	3.48 / 3.00	3.32 / 2.80	3.52 / 3.01	3.41 / 2.93	2.98 / 2.80
	Cold		3.80 / 3.53	3.22 / 2.88	2.80 / 2.46	2.76 / 2.36	2.81 / 2.46	2.74 / 2.39	2.62 / 2.29
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		ℓ/s	2,583	2,812	3,015	4,327	4,428	4,293	5,095
		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(A)	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)

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.

★ Values based on GEMS determination 2019.

TCSPF: Total Cooling Seasonal Performance Factor
HSPF: Heating Seasonal Performance Factor

In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.
Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures* as stipulated in AS/NZS 3823.4.1:2014.

Further, the annual outdoor temperatures are based on zoning Australia/New Zealand into three distinct climate zones (Hot/Average/Cold).
This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSPF within the same climate zone.

*** There are two kinds of annual outdoor temperatures and it's different for residential and commercial use.**

Heat Recovery



	REYQ22BYM9	REYQ24BYM9	REYQ26BYM9	REYQ28BYM9	REYQ30BYM9	REYQ32BYM9	REYQ34BYM9
	—	—	REYQ12BYM9	REYQ12BYM9	REYQ12BYM9	REYQ12BYM9	REYQ14BYM9
	—	—	REYQ14BYM9	REYQ16BYM9	REYQ18BYM9	REYQ20BYM9	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	328,000
	61.5	67.0	73.5	78.5	83.5	89.5	96.0
	235,000	256,000	282,000	299,000	319,000	345,000	369,000
	69.0	75.0	82.5	87.5	93.5	101	108
	18.6	21.3	19.9	21.6	23.1	26.2	28.7
	19.6	22.2	22.6	23.4	24.3	27.3	30.0
	3-100					2-100	
	3.12	2.98	3.45	3.40	3.39	3.22	3.15
	3.33	3.21	3.44	3.54	3.65	3.52	3.42
	4.96 / 4.43	4.76 / 4.25	5.64 / 4.99	5.35 / 4.76	5.30 / 4.72	5.22 / 4.64	5.25 / 4.64
	5.08 / 3.86	4.90 / 3.74	5.73 / 4.22	5.42 / 4.07	5.38 / 4.05	5.34 / 4.01	5.36 / 3.96
	5.62 / 3.90	5.43 / 3.80	6.31 / 4.23	5.96 / 4.07	5.91 / 4.06	5.90 / 4.05	5.93 / 4.00
	4.01 / 3.93	3.96 / 3.88	4.17 / 4.17	4.16 / 4.16	4.06 / 4.07	3.97 / 3.98	4.02 / 3.96
	3.05 / 2.51	2.98 / 2.44	3.26 / 3.06	3.51 / 3.01	3.44 / 2.97	3.35 / 2.87	3.12 / 2.61
	2.67 / 2.09	2.61 / 2.03	2.86 / 2.52	2.81 / 2.46	2.77 / 2.42	2.69 / 2.35	2.74 / 2.18
	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)	8.45+(4.51+7.37)
	7,170		3,015+4,327	3,015+4,428	3,015+4,293	3,015+5,095	4,327+5,095
	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)
	409		232+281	232+323	232+357	232+357	281+357
	67	68	64		63	66	67
	90		86		87	90	
	-5 to 49						
	-25 to 15.5						
	R-410A						
	11.7		10.9+11.7				11.7+11.7
	ϕ15.9 (Brazing)		ϕ19.1 (Brazing)				
	ϕ28.6 (Brazing)	ϕ34.9 (Brazing)					
	ϕ28.6 (Brazing)						

Outdoor Units

VRV R Series

Specifications

									
Model			**REYQ36BYM9**	**REYQ38BYM9**	**REYQ40BYM9**	**REYQ42BYM9**	**REYQ44BYM9**	**REYQ46BYM9**	**REYQ48BYM9**
Combination units			REYQ16BYM9	REYQ18BYM9	REYQ20BYM9	REYQ18BYM9	REYQ20BYM9	REYQ22BYM9	REYQ24BYM9
			REYQ20BYM9	REYQ20BYM9	REYQ20BYM9	REYQ24BYM9	REYQ24BYM9	REYQ24BYM9	REYQ24BYM9
			—	—	—	—	—	—	—
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	399,000	420,000	440,000	457,000
		kW	101	106	112	117	123	129	134
Heating capacity		Btu/h	386,000	406,000	430,000	447,000	471,000	491,000	512,000
		kW	113	119	126	131	138	144	150
Power consumption	Cooling	kW	30.4	31.9	35.0	35.7	38.8	40.2	42.6
	Heating	kW	30.8	31.7	34.4	36.7	39.4	41.8	44.4
Capacity control		%	2-100						
AEER*	Cooling		3.13	3.13	3.03	3.10	3.00	3.04	2.98
ACOP*	Heating		3.50	3.58	3.50	3.42	3.36	3.31	3.25
TCSPF* (Cooling) Commercial / Residential	Hot		5.06 / 4.50	5.04 / 4.48	4.99 / 4.43	4.90 / 4.37	4.87 / 4.34	4.85 / 4.33	4.77 / 4.26
	Average		5.17 / 3.87	5.14 / 3.87	5.13 / 3.84	5.01 / 3.80	5.00 / 3.79	4.98 / 3.80	4.90 / 3.74
	Cold		5.70 / 3.90	5.68 / 3.90	5.68 / 3.90	5.53 / 3.84	5.54 / 3.85	5.52 / 3.85	5.43 / 3.80
HSPF* (Heating) Commercial / Residential	Hot		4.02 / 4.02	3.95 / 3.96	3.89 / 3.90	3.99 / 4.00	3.93 / 3.93	3.99 / 3.91	3.97 / 3.89
	Average		3.09 / 2.90	3.34 / 2.87	2.99 / 2.81	3.04 / 2.84	2.99 / 2.79	3.02 / 2.48	2.99 / 2.45
	Cold		2.71 / 2.36	2.68 / 2.34	2.63 / 2.29	2.67 / 2.31	2.62 / 2.27	2.64 / 2.06	2.61 / 2.03
Casing colour			Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically sealed scroll type						
	Motor output	kW	(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)	(7.06+7.37)+ (7.80+8.11)	(7.80+8.11)+ (7.80+8.11)
Airflow rate		ℓ/s	4,428+5,095	4,293+5,095	5,095+5,095	4,293+7,170	5,095+7,170	7,170+7,170	
		m^3/min	266+306	258+306	306+306	258+430	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	323+357	357+357		357+409		409+409	
Sound level		dB(A)	67	66	68	69	70	71	
Sound power		dB(A)	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	ϕ19.1 (Brazing)						
	Gas	mm	ϕ41.3 (Brazing)						
	High and low pressure gas	mm	ϕ28.6 (Brazing)	ϕ34.9 (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.
- 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.
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Further, the annual outdoor temperatures are based on zoning Australia/New Zealand into three distinct climate zones (Hot/Average/Cold).
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*** There are two kinds of annual outdoor temperatures and it's different for residential and commercial use.**

Heat Recovery

	REYQ50BYM9	REYQ52BYM9	REYQ54BYM9	REYQ56BYM9	REYQ58BYM9	REYQ60BYM9
	REYQ12BYM9	REYQ12BYM9	REYQ14BYM9	REYQ16BYM9	REYQ18BYM9	REYQ20BYM9
	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					
	478,000	498,000	519,000	536,000	553,000	573,000
	140	146	152	157	162	168
	536,000	560,000	583,000	601,000	621,000	645,000
	157	164	171	176	182	189
	40.9	44.0	46.2	47.9	49.4	52.5
	41.8	44.5	47.2	48.0	48.9	51.6
	2-100			1-100		
	3.22	3.13	3.10	3.09	3.09	3.03
	3.58	3.51	3.45	3.50	3.55	3.50
	5.17 / 4.59	5.12 / 4.55	5.15 / 4.56	5.04 / 4.47	5.02 / 4.46	4.99 / 4.43
	5.27 / 3.96	5.25 / 3.94	5.27 / 3.92	5.15 / 3.86	5.14 / 3.86	5.13 / 3.84
	5.82 / 3.99	5.82 / 3.99	5.84 / 3.97	5.70 / 3.90	5.68 / 3.90	5.68 / 3.90
	3.99 / 4.00	3.94 / 3.95	3.97 / 3.98	3.97 / 3.98	3.93 / 3.94	3.89 / 3.90
	3.38 / 2.90	3.33 / 2.85	3.07 / 2.88	3.05 / 2.86	3.32 / 2.85	2.99 / 2.81
	2.71 / 2.37	2.67 / 2.33	2.70 / 2.36	2.68 / 2.34	2.66 / 2.32	2.63 / 2.29
	Ivory white (5Y7.5/1)					
	Hermetically sealed scroll type					
	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)
	3,015+4,293+5,095	3,015+5,095+5,095	4,327+5,095+5,095	4,428+5,095+5,095	4,293+5,095+5,095	5,095+5,095+5,095
	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)			
	232+357+357		281+357+357	323+357+357	357+357+357	
	67	69				70
	91	93				94
	-5 to 49					
	-25 to 15.5					
	R-410A					
	10.9+11.7+11.7		11.7+11.7+11.7			
	ϕ19.1 (Brazing)					
	ϕ41.3 (Brazing)					
	ϕ34.9 (Brazing)					

VRV H SERIES

Significant improvement in total performance

Heat Pump
8 class (22.4 kW) – 60 class (168 kW)

Promotion Movie

Special Site

New

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 class. 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 management.

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 class

RXYQ8BYM RXYQ12BYM
RXYQ10BYM

14, 16, 18, 20 class

RXYQ14BYM RXYQ18BYM
RXYQ16BYM RXYQ20BYM

22, 24 class

RXYQ22BYM
RXYQ24BYM

Outdoor unit combination

System capacity		Number of units	Single module (HP)								
class	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

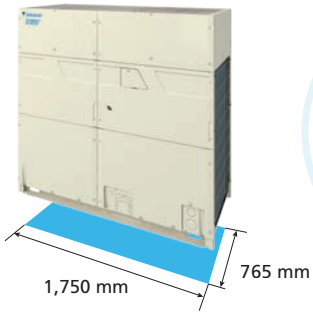
22, 24 class

Installation space **1.44 m²**

Machine weight **400 kg**

New models
VRV H SERIES

22, 24 class



Installation space
7% less
Machine weight
4% less

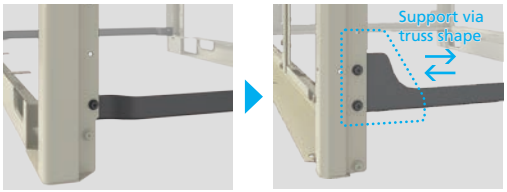
Installation space **1.34 m²**

Machine weight **385 kg**

New reinforced design

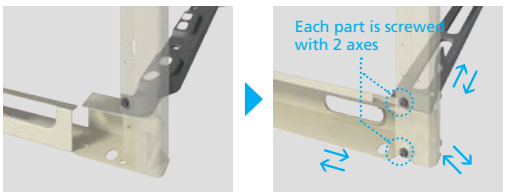
The frame structure has been strengthened to improve resistance to earthquakes and wind while protecting against falling damage.

1 Minimises horizontal wobbling



Conventional models | VRV H SERIES

2 Minimises vibration from various angles



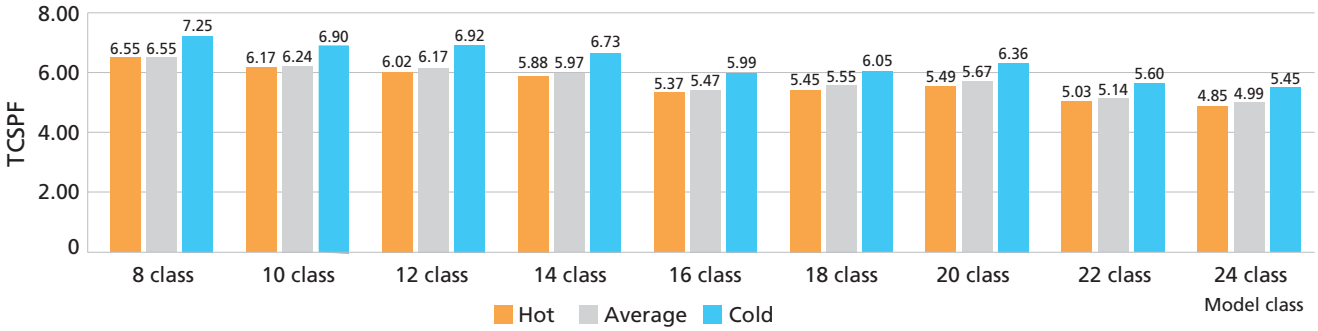
Conventional models | VRV H SERIES

Energy Savings

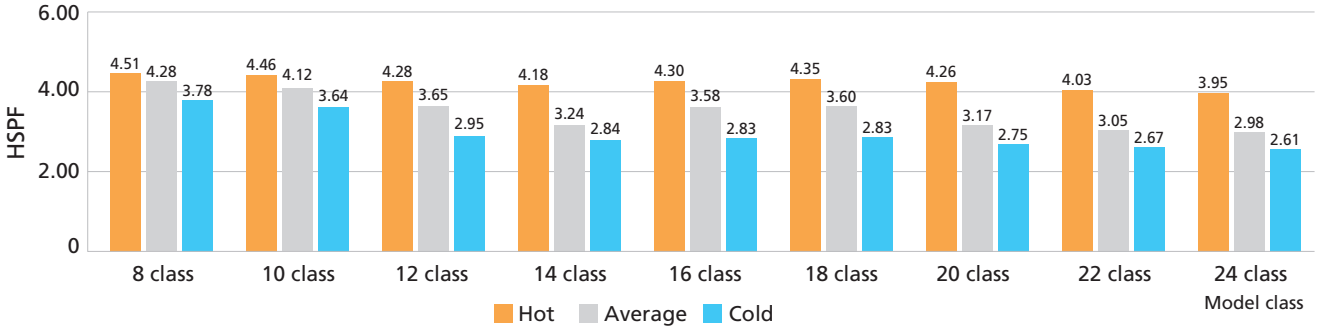
High TCSPF / HSPF

Energy savings during actual operation have been further improved by the evolution of software and hardware technologies.
Achieved high values for TCSPF and HSPF in all series.

TCSPF (for commercial use)

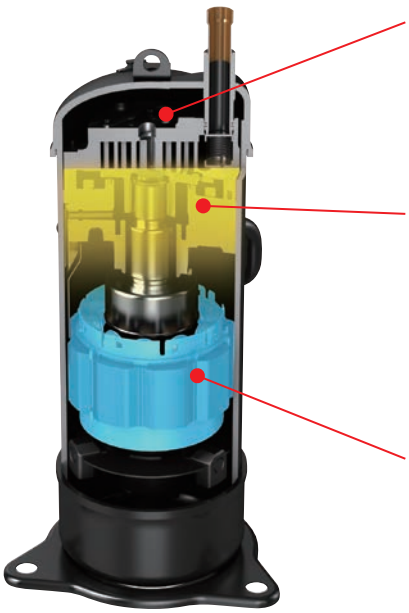


HSPF (for commercial use)



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

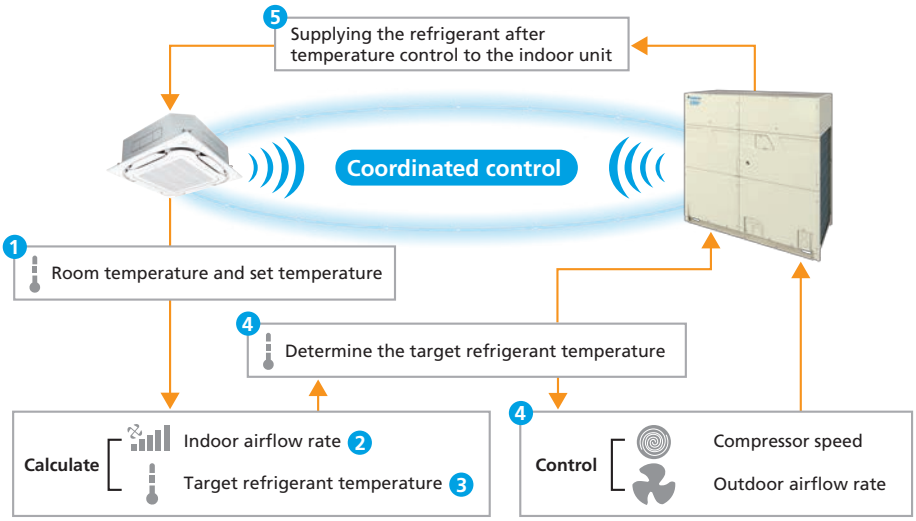
By adopting it, the coil circumference is greatly reduced, which makes the coil denser and thicker, and the electrical resistance of the coil is dramatically reduced to improve motor efficiency. Furthermore, the motor is light-weighted and downsized.

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

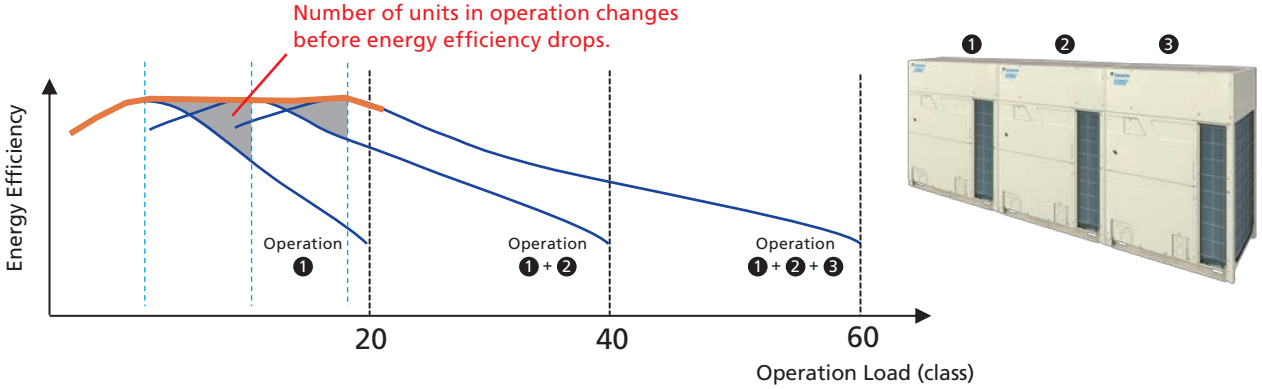


1. Indoor unit will calculate capacity needed based on ΔT (Room temperature vs set temperature) and room temperature trend.
2. Indoor unit will try to regulate with fan speed control.
3. If fan cannot control speed, indoor unit request Te change from outdoor unit.
4. Outdoor unit determines the refrigerant 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.

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.

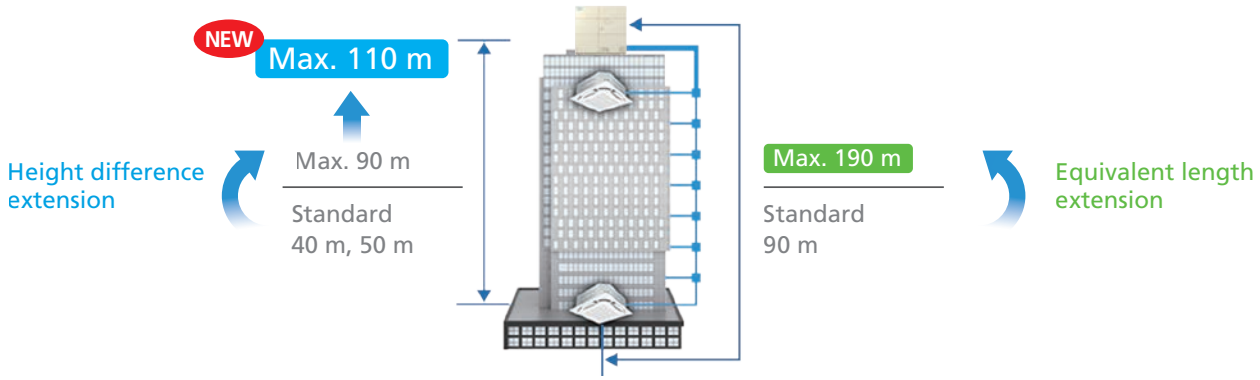
■ Overview of multi-unit control for triple units (60 class)



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 63 or more (Outdoor units above indoor units only).

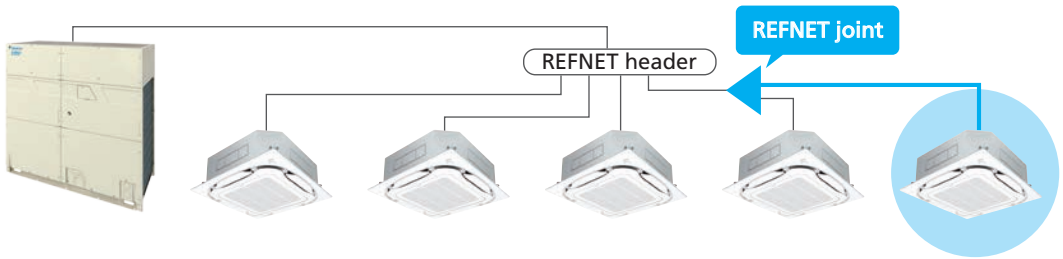
- **Equivalent length** Max. 190 m

  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.

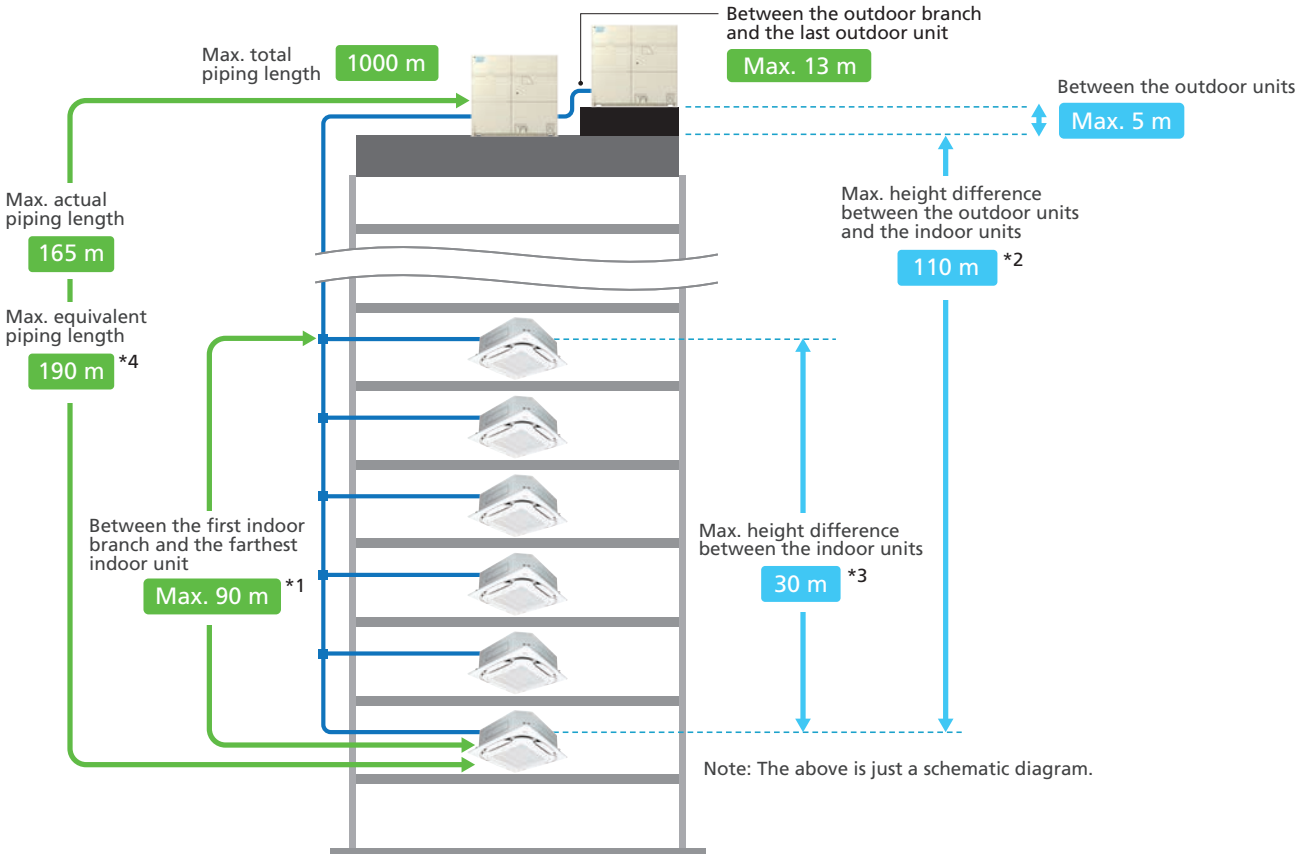


REFNET header	Indoor unit total capacity at REFNET joint
KHRP26M22H,KHRP26M33H,KHRP26M72H	< 50
KHRP26M73H + KHRP26M73HP	≤ 140

Long piping length

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

Installation for *VRV* indoor units only



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*3
	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. 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

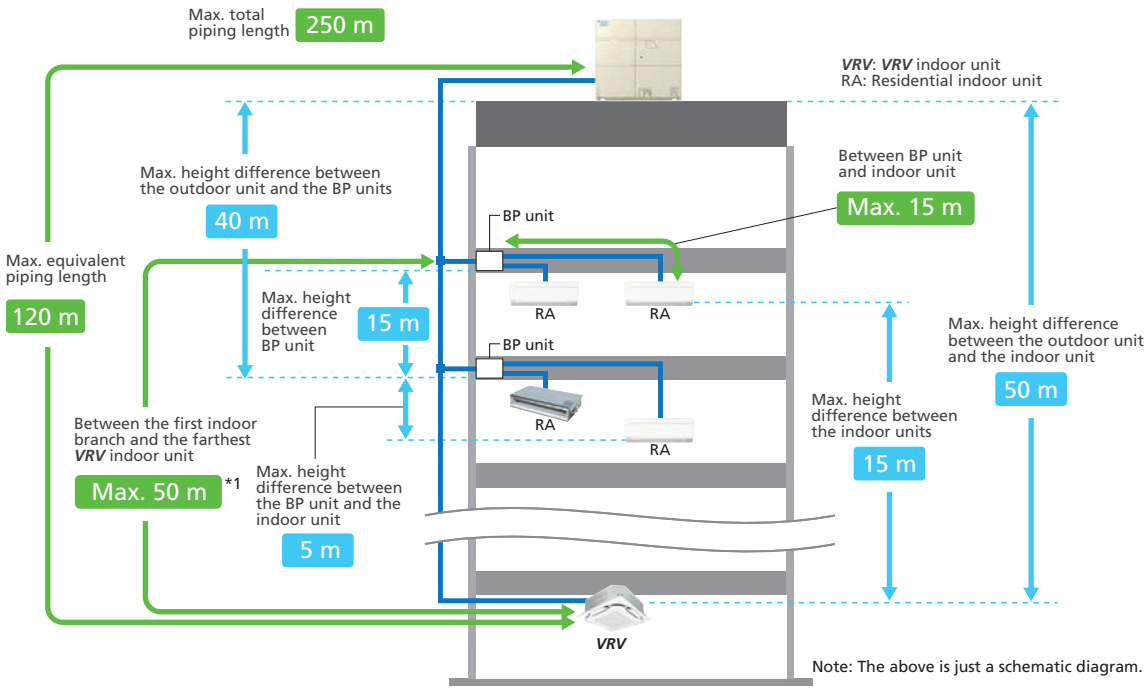
Applicable ***VRV*** indoor units		Indoor units: FXDQ, FXSQ, FXMQ-PA, FXAQ	Other ***VRV*** indoor unit models*1
Single outdoor units	8 - 20 class	200%	200%
	22, 24 class		180%
Double outdoor units			160%
Triple outdoor units			130%

*1 For the FXF(S)(T)Q25 models, maximum connection ratio is 130 % for the entire range of outdoor units.
Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.
*Refer to page 53 for outdoor unit combination details.

Design Flexibility

Long piping length

Installation for mixed combination of *VRV* and residential indoor units



When a mixed combination of ***VRV*** and residential indoor units is connected

Maximum allowable piping length	Actual piping length (Equivalent)		100 m (120 m)
	Total piping length		250 m
	Between BP unit and indoor unit	If indoor unit capacity index < 60.	2 m–15 m
		If indoor unit capacity index is 60.	2 m–12 m
		If indoor unit capacity index is 71.	2 m–8 m
	Between the first indoor branch and the farthest BP unit or between the first indoor branch and the farthest ***VRV*** indoor unit		50 m*1
Minimum allowable piping length	Between outdoor unit and the first indoor branch		5 m
Maximum allowable height difference	Between the indoor units		15 m
	Between BP units		15 m
	Between the outdoor unit and the indoor unit	If the outdoor unit is above.	50 m
		If the outdoor unit is below.	40 m
	Between the outdoor unit and the BP unit		40 m
	Between the BP unit and the indoor unit		5 m

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

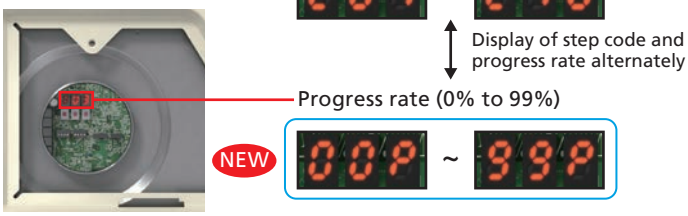
*When a mixed combination of ***VRV*** and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 80% to 130%. Refer to page 54 for outdoor unit combination details.

Easy Installation

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.

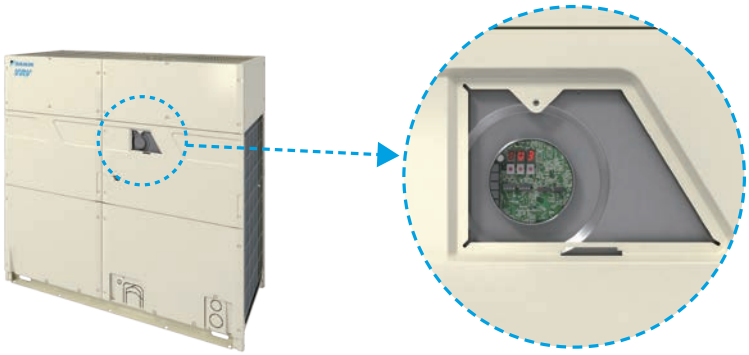
* Effective when test run is carried out independently after manual refrigerant charging.



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

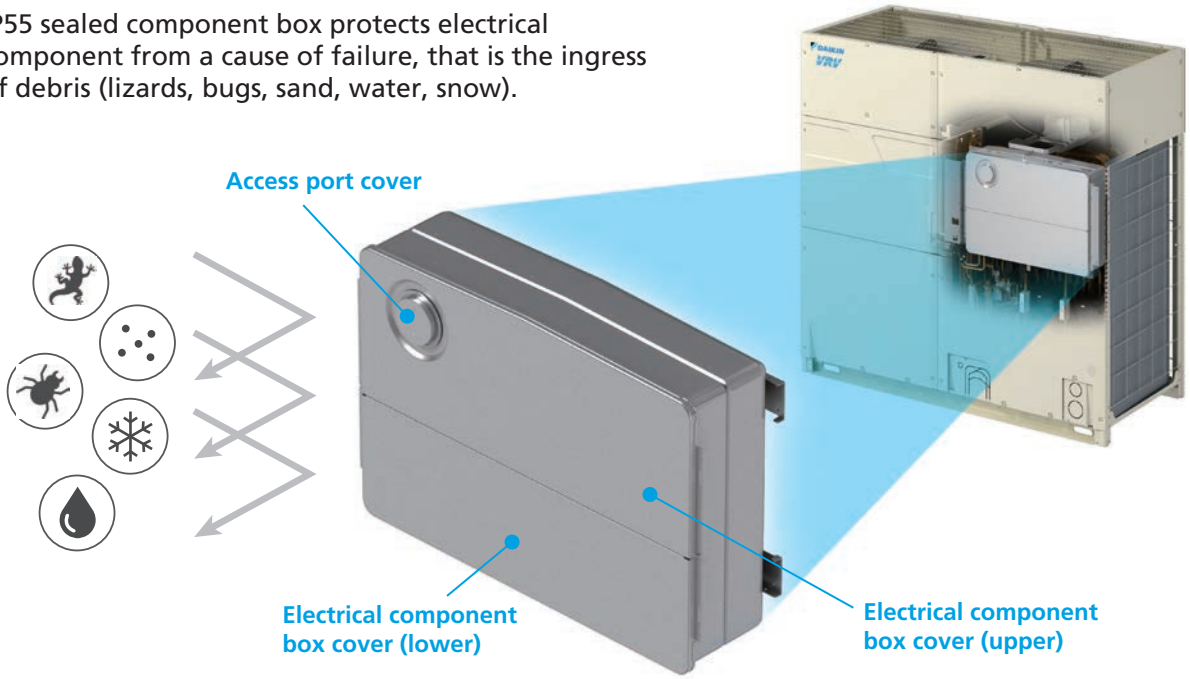
VRV H

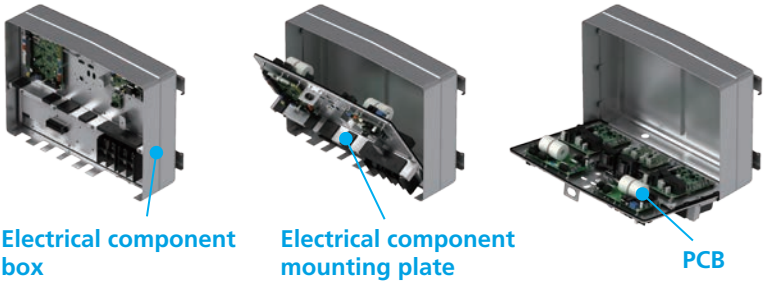
Work becomes easier with sufficient space

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).





The internal mounting plate is hinged, enabling easy maintenance of the PCB on the back.

What is IP55?

IP55 is the degrees of dust and water protection for the electrical component box equipped on the product.

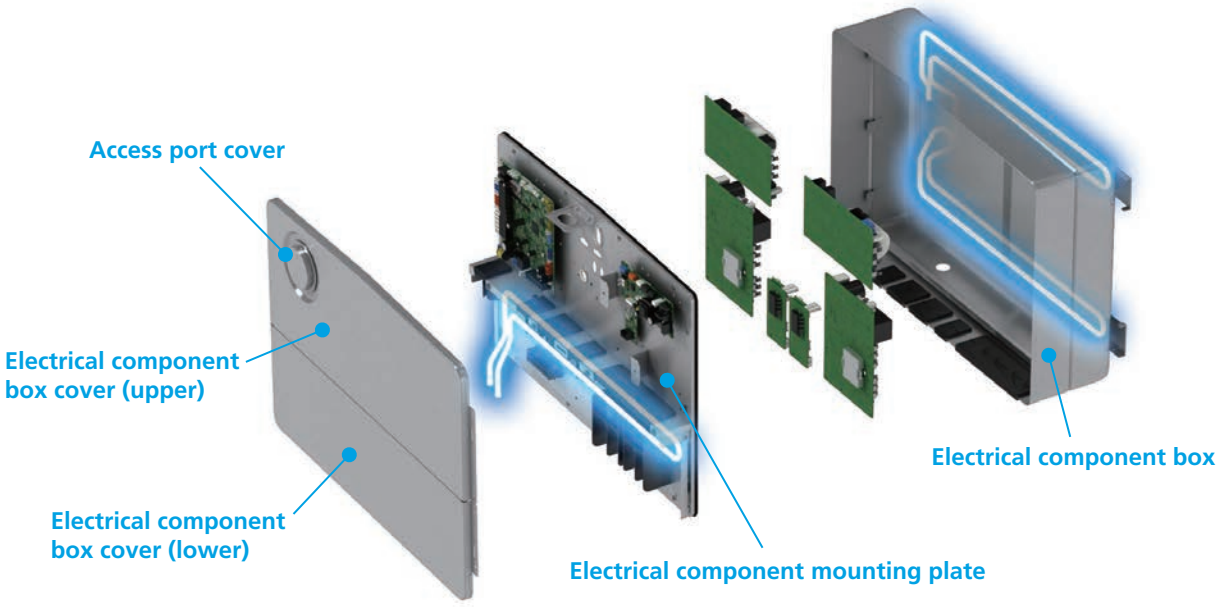
IP55

- **5** — Liquid ingress protection **Grade 5**
  Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.
- **5** — 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.
- **IP** — Ingress Protection

*IP55 is the protection degree of the wiring box as a single unit. The protection grade of outdoor unit is IP14 as well as conventional model.

Enables operation in high outdoor temperature

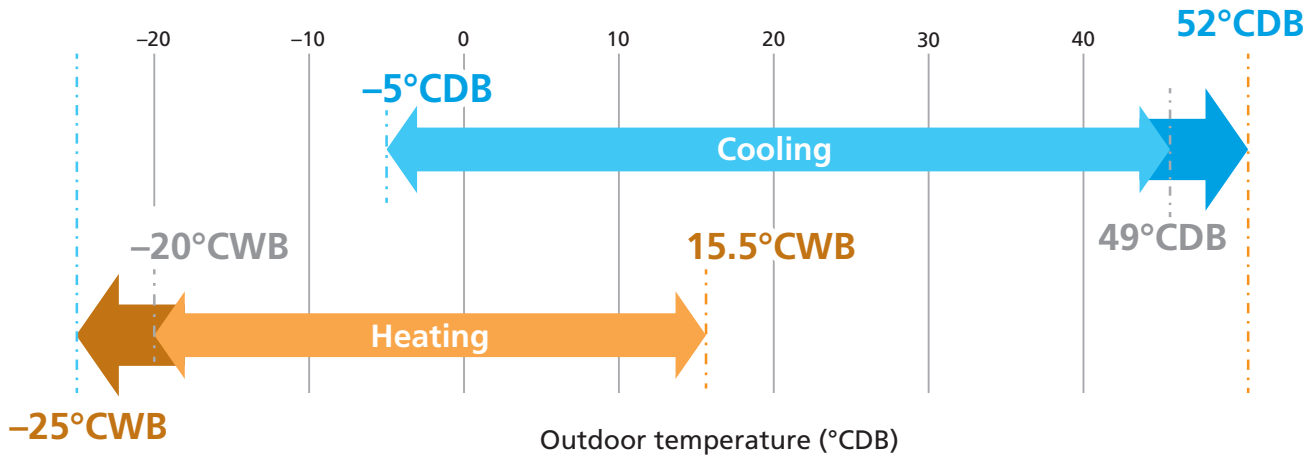
Three refrigerant cooling circuits enable stable operation even in high outdoor temperatures by suppressing a temperature rise for the PCB mounted in the sealed electrical component box.



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

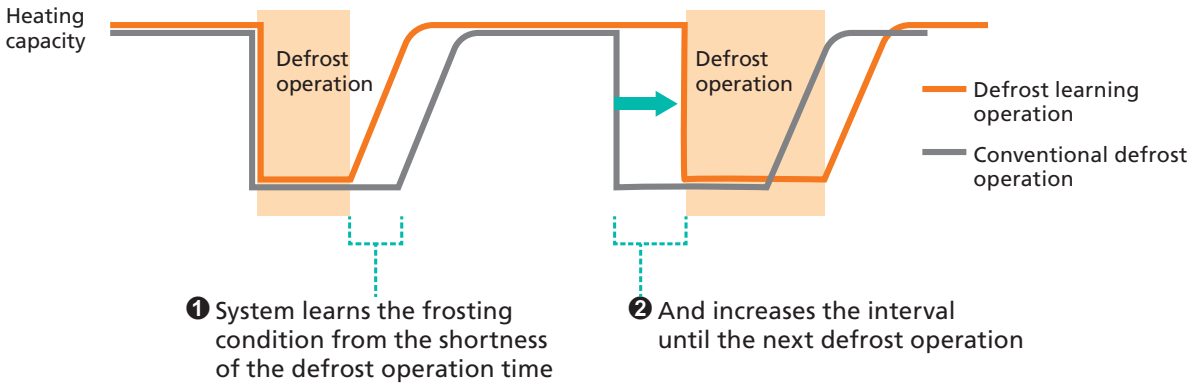


Comfort

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%!

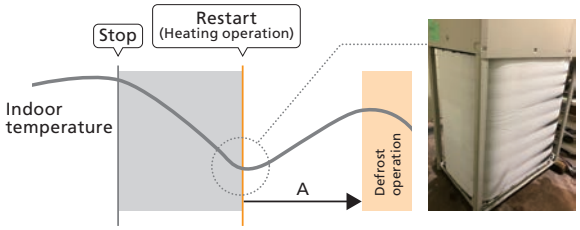


Defrost before stop

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%!

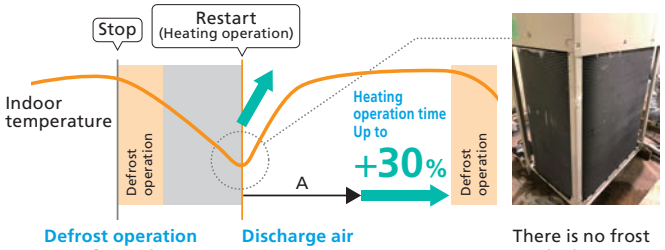
Conventional defrost operation



Due to the low discharge air temperature, the defrost operation starts before the room temperature has fully increased.

Frost from the previous heating operation remains in the heat exchanger before restarting.

Defrost before stop



Defrost operation is performed before the unit is shut down.

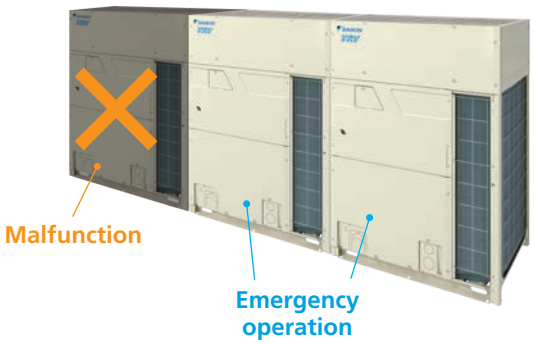
Discharge air temperature in heating operation rises quickly

There is no frost on the heat exchanger before restarting.

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

Double backup operation functions

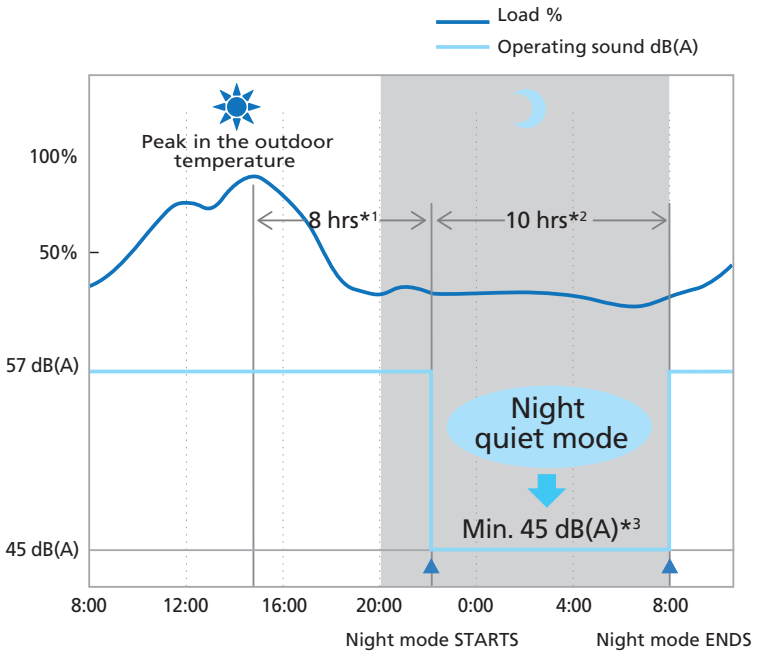
Unit backup operation function



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 class 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 class

Lineup

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

Outdoor unit combinations

For connection of ***VRV*** indoor units only

class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
8	22.4	200	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 class systems and above, the outdoor unit multi connection piping kit (separately sold) is required.
*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for 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.

For mixed combination of *VRV* and residential indoor units

Model name*1	kW	class	Capacity index	Total capacity index of connectable indoor units*2			Maximum number of connectable indoor units
				Combination (%)			
				80%	100%	130%	
RXYQ8BYM	22.4	8	200	160	200	260	13
RXYQ10BYM	28.0	10	250	200	250	325	16
RXYQ12BYM	33.5	12	300	240	300	390	19
RXYQ14BYM	40.0	14	350	280	350	455	22
RXYQ16BYM	45.0	16	400	320	400	520	26
RXYQ18BYM	50.0	18	450	360	450	585	29
RXYQ20BYM	56.0	20	500	400	500	650	32
RXYQ22BYM	61.5	22	550	440	550	715	35
RXYQ24BYM	67.0	24	600	480	600	780	39

Notes: *1. Only single outdoor unit (RXYQ8-24BYM) can be connected.
*2. Total capacity index of connectable indoor units must be 80%–130% of the capacity index of the outdoor unit.

Indoor Unit Lineup

Enhanced range of choices

VRV indoor units

● New lineup ● Indoor units subject to VRT smart control

Category	Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
			Capacity Range(kW)	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	16.2	18	20	22.4	28
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	New **FXFTQ-AVM**			●	●	●	●	●		●	●	●	●					
	Round Flow Cassette with Sensing	FXFSQ-AVM			●	●	●	●	●		●	●	●	●					
	Compact Multi Flow Cassette	New **FXZQ-BVM**		●	●	●	●	●											
	Double Flow Cassette	New **FXCQ-BVM**		●	●	●	●	●	●		●		●						
	Single Flow Cassette	FXEQ-AV36		●	●	●	●	●	●										
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE	 (700 mm width type)	●	●	●													
		FXDQ-NDVE	 (900/1,100 mm width type)				●	●	●										
	Slim Duct (Compact)	FXDQ-TV1C(A)		●	●	●	●	●	●										
		FXDQ-SPV1		●	●	●	●	●	●										
	Middle Static Pressure Duct	FXSQ-PAVE		●	●	●	●	●	●		●	●	●	●					
		FXDYQ-MAV1									●	●	●		●				
	Middle-High Static Pressure Duct	FXMQ-PAVE		●	●	●	●	●	●		●	●	●	●					
	High Static Pressure Duct	FXMQ-PV1A														●	●	●	●
	Outdoor-Air Processing Unit	New **FXMQ-AFVM**									●			●				●	●
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
	Ceiling Suspended	FXHQ-MAVE				●		●	●		●	●							
		New **FXHQ-BVM**											●	●					
Wall Mounted		FXAQ-AVM		●	●	●	●	●	●										
Floor Standing	Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
	Concealed Floor Standing (Duct Connection)	FXNQ-A2VEB		●	●	●	●	●	●										
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															

Notes: For indoor units without 'VRT Smart', the standard 'VRT' control is available (excludes Heat Reclaim Ventilators).

Residential indoor units with connection to BP units

Type	Model Name		20	25	35	50	60	71
		Rated Capacity (kW)	2.0	2.5	3.5	5.0	6.0	7.1
		Capacity Index	20	25	35	50	60	71
Compact Multi Flow Cassette	FFQ-BV1B			●	●	●	●	
Slim Ceiling Concealed Duct	FDXS-CVMA	 (900/1,100 mm width type)		●	●	●	●	
Wall Mounted	FTXS-KVMA		●	●	●			
	FTXS-KAVMA					●	●	●

Note: BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ8-24BYM) can be connected.

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

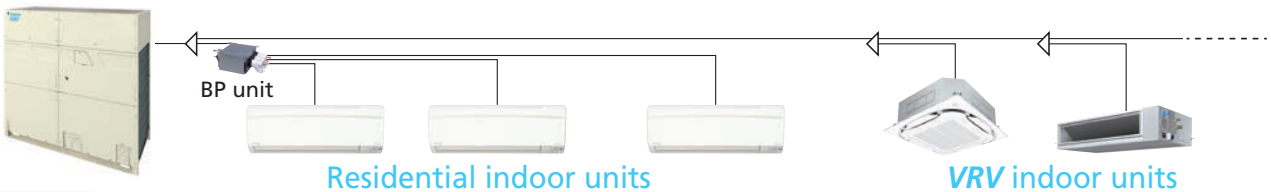
VRV indoor unit only system

VRV indoor units only

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 outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

Residential indoor unit and *VRV* indoor unit mix system



Residential indoor units

VRV indoor units

Max. 39 indoor units

- BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ8-24BYM) can be connected.
- If a system has both residential indoor units and *VRV* indoor units, the system is operated under VRT control.

Residential indoor unit only system

Residential indoor units only

Max. 39 indoor units

- BP units are necessary for residential indoor units. Only single outdoor unit (RXYQ8-24BYM) can be connected.
- If a system has only residential indoor units, the system is operated under VRT control.

Outdoor Unit Specifications

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
AEER	Cooling		4.00	3.83	3.61	3.49	3.18	3.29	3.12
ACOP	Heating		4.33	4.20	3.66	3.82	3.49	3.54	3.50
TCSPF (Cooling) Commercial/ Residential	Hot		6.55/5.69	6.17/5.42	6.02/5.26	5.88/5.07	5.37/4.77	5.45/4.86	5.49/4.18
	Average		6.55/4.63	6.24/4.55	6.17/4.48	5.97/4.20	5.47/4.04	5.55/4.14	5.67/4.13
	Cold		7.25/4.58	6.90/4.53	6.92/4.52	6.73/4.19	5.99/4.09	6.05/4.19	6.36/4.21
HSPF (Heating) Commercial/ Residential	Hot		4.51/4.53	4.46/4.47	4.28/4.29	4.18/4.19	4.30/4.30	4.35/4.35	4.26/4.26
	Average		4.28/4.17	4.12/3.99	3.65/3.16	3.24/3.05	3.58/3.03	3.60/3.03	3.17/2.94
	Cold		3.78/3.54	3.64/3.32	2.95/2.60	2.84/2.48	2.83/2.45	2.83/2.44	2.75/2.36
Casing colour			Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically sealed scroll						
	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		ℓ/s	2,583	2,817	3,017	4,333	4,433	4,300	5,100
		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	ϕ9.5 (Brazing)		ϕ12.7 (Brazing)			ϕ15.9 (Brazing)	
	Gas	mm	ϕ19.1 (Brazing)	ϕ22.2 (Brazing)	ϕ28.6 (Brazing)				

Model			RXYQ36BYM	RXYQ38BYM	RXYQ40BYM	RXYQ42BYM	RXYQ44BYM	RXYQ46BYM	RXYQ48BYM
Combination units			RXYQ16BYM	RXYQ18BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ22BYM	RXYQ24BYM
			RXYQ20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ22BYM	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	
AEER	Cooling		3.15	3.20	3.13	3.13	3.03	3.03	2.94
ACOP	Heating		3.53	3.56	3.54	3.45	3.37	3.31	3.25
TCSPF (Cooling) Commercial/ Residential	Hot		5.44/4.80	5.47/4.84	5.49/4.82	5.23/4.66	5.12/4.57	4.93/4.44	4.85/4.37
	Average		5.58/4.10	5.61/4.14	5.67/4.13	5.38/4.03	5.28/3.97	5.06/3.89	4.99/3.84
	Cold		6.19/4.16	6.21/4.21	6.36/4.22	5.94/4.11	5.83/4.06	5.52/3.97	5.45/3.93
HSPF (Heating) Commercial/ Residential	Hot		4.28/4.28	4.30/4.30	4.26/4.26	4.14/4.14	4.09/4.09	4.00/3.92	3.96/3.88
	Average		3.21/2.98	3.55/2.99	3.18/2.95	3.12/2.90	3.07/2.85	3.02/2.48	2.98/2.45
	Cold		2.79/2.40	2.79/2.40	2.76/2.36	2.72/2.35	2.68/2.30	2.64/2.06	2.61/2.03
Casing colour			Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically sealed scroll 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		ℓ/s	4,433+5,100	4,300+5,100	5,100+5,100	5,100+7,167		7,167+7,167	
		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	ϕ19.1 (Brazing)						
	Gas	mm	ϕ41.3 (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.

★ Values based on GEMS determination 2019.

TCSPF: Total Cooling Seasonal Performance Factor
HSPF: Heating Seasonal Performance Factor

In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.
Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures* as stipulated in AS/NZS 3823.4.1:2014.

Further, the annual outdoor temperatures are based on zoning Australia/ New Zealand into three distinct climate zones (Hot/Average/Cold).
This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSPF within the same climate zone.

*** There are two kinds of annual outdoor temperatures and it's different for residential and commercial use.**

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
	3.12	2.94	3.53	3.35	3.40	3.29	3.26
	3.33	3.21	3.74	3.58	3.61	3.58	3.65
	5.03/4.53	4.85/4.37	5.94/5.16	5.63/4.97	5.67/5.02	5.68/4.98	5.65/4.92
	5.14/3.95	4.99/3.84	6.06/4.33	5.75/4.23	5.78/4.28	5.85/4.26	5.79/4.16
	5.60/4.01	5.45/3.93	6.82/4.34	6.36/4.27	6.37/4.32	6.56/4.33	6.51/4.21
	4.03/3.96	3.95/3.88	4.23/4.24	4.29/4.30	4.33/4.33	4.27/4.27	4.23/4.23
	3.05/2.51	2.98/2.44	3.60/3.11	3.61/3.09	3.62/3.09	3.56/3.02	3.21/2.99
	2.67/2.08	2.61/2.03	2.89/2.54	2.88/2.52	2.88/2.51	2.82/2.44	2.79/2.41
	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)
	7,167		3,017+4,333	3,017+4,433	3,017+4,300	3,017+5,100	4,333+5,100
	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
	ϕ15.9 (Brazing)		ϕ19.1 (Brazing)				
	ϕ28.6 (Brazing)		ϕ34.9 (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	
	3.29	3.23	3.21	3.14	3.17	3.13
	3.58	3.57	3.61	3.53	3.55	3.54
	5.59/4.93	5.60/4.91	5.59/4.88	5.46/4.81	5.48/4.83	5.49/4.82
	5.73/4.22	5.78/4.21	5.75/4.15	5.61/4.11	5.63/4.14	5.67/4.13
	6.37/4.28	6.48/4.28	6.45/4.21	6.25/4.18	6.26/4.21	6.36/4.22
	4.30/4.30	4.27/4.27	4.24/4.24	4.27/4.27	4.29/4.29	4.26/4.26
	3.58/3.03	3.54/2.99	3.20/2.98	3.20/2.97	3.54/2.98	3.18/2.95
	2.83/2.44	2.80/2.41	2.78/2.40	2.78/2.39	2.78/2.39	2.76/2.36
	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)
	3,017+4,300+5,100	3,017+5,100+5,100	4,333+5,100+5,100	4,433+5,100+5,100	4,300+5,100+5,100	5,100+5,100+5,100
	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	
	ϕ19.1 (Brazing)					
	ϕ41.3 (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 S High Seasonal Efficiency SERIES

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

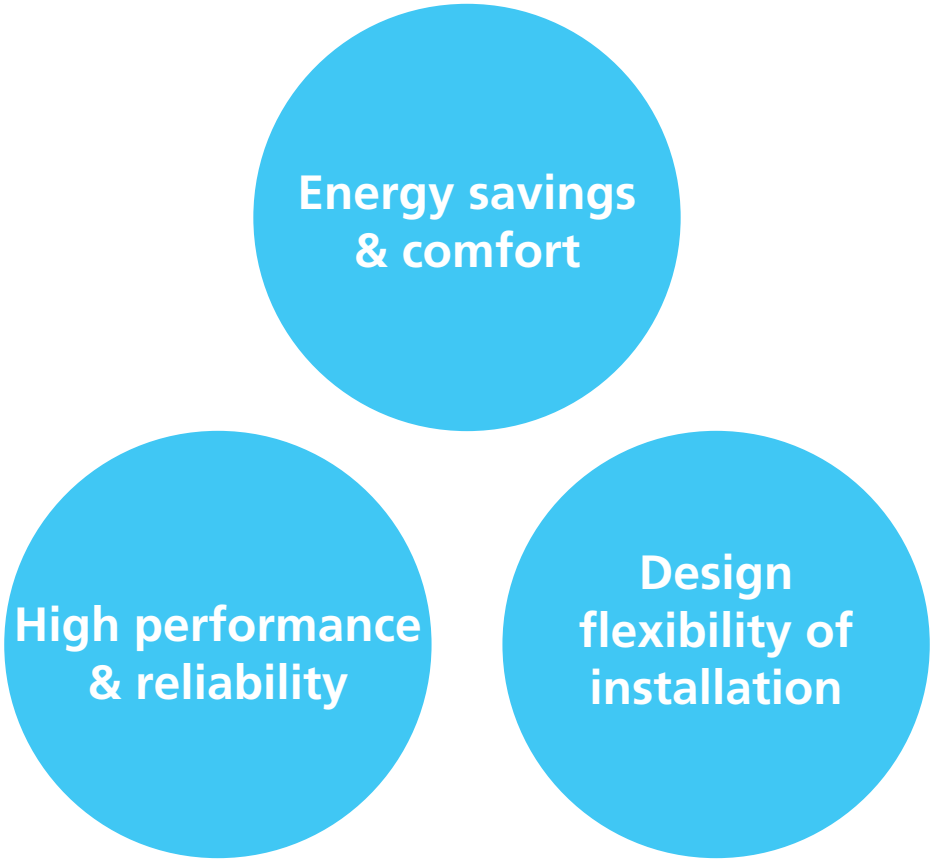
Heat Pump
4 class – 8 class
(11.2 kW) (22.4 kW)

Presentation Movie

RSUYQ4-6AVMA
RSUYQ7-8AYM

The *VRV* S High Seasonal Efficiency Series concept

New ***VRV*** S High Seasonal 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

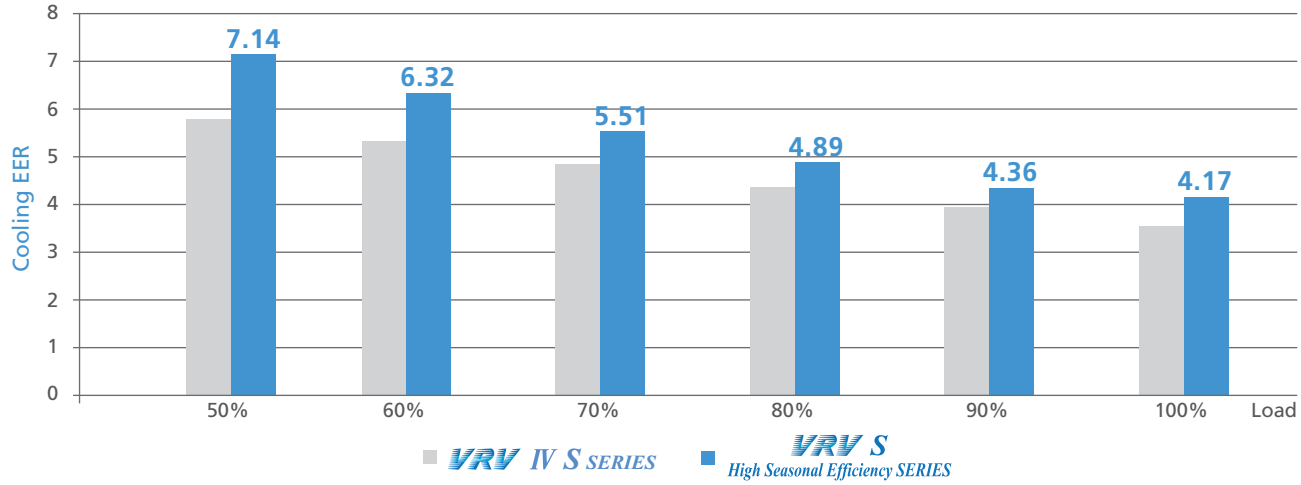
Energy Savings & Comfort

Energy savings

High seasonal efficiency

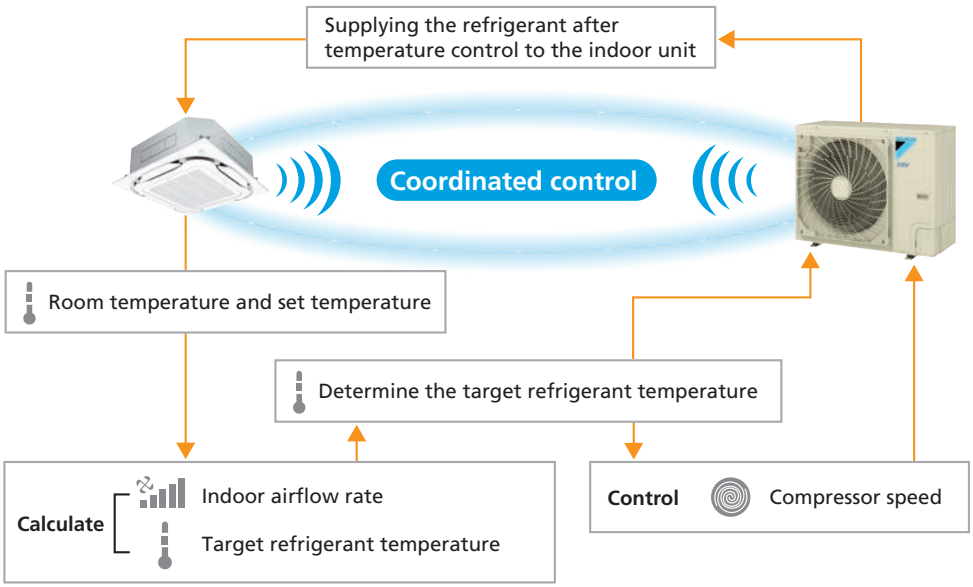
The VRT Smart Control enables improvements on efficiency during low load operation, achieving high seasonal efficiency.

EER for 5 class



VRT Smart Control

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

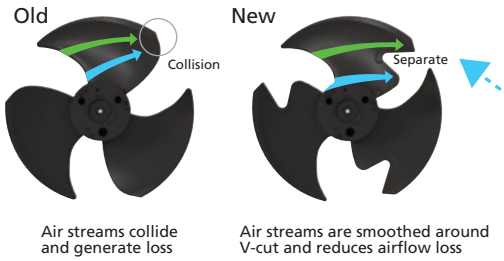


Notes: • For the classification of indoor units (VRT smart control and VRT control), refer to the indoor unit lineup.
• If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
• If a system has outdoor-air processing type indoor units, VRT smart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

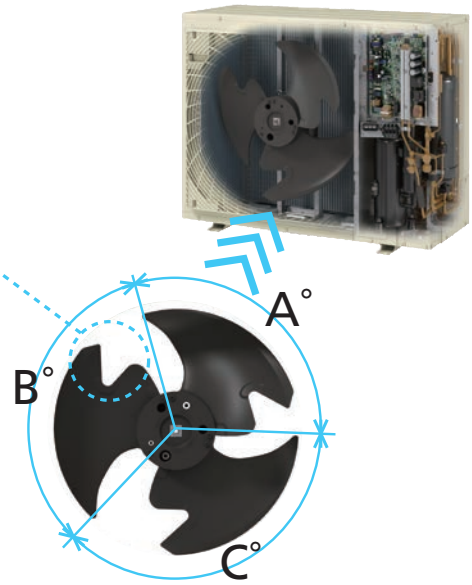
Comfort

Quiet operation

V-cut & irregular pitch propeller fan



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



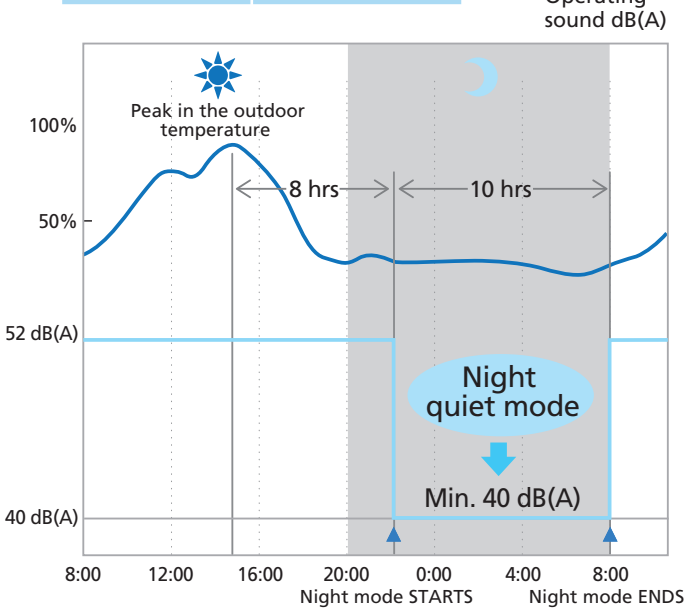
Irregular blade pitch also contributes to reduced airflow noise.

A°< B°< C°

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
RSUYQ4/5/6A	Min. 40 dB(A)
RSUYQ7/8A	Min. 45 dB(A)



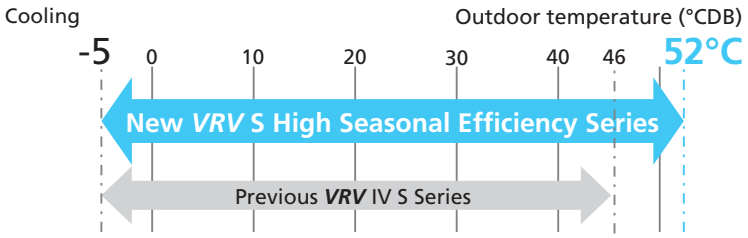
Notes:
- This function is available in setting at site.
- The operating sound in quiet operation mode is the actual value measured by our company.
- The relationship of outdoor temperature (load) and time shown above is just an example.
- In case of 4-6 class outdoor unit

High Performance & Reliability

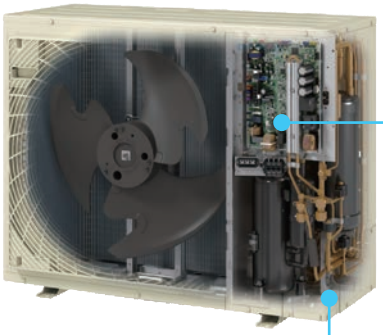
High temperature operation

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.

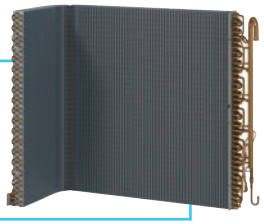


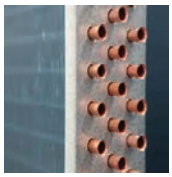
Refrigerant cooled PCB

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

New heat exchanger

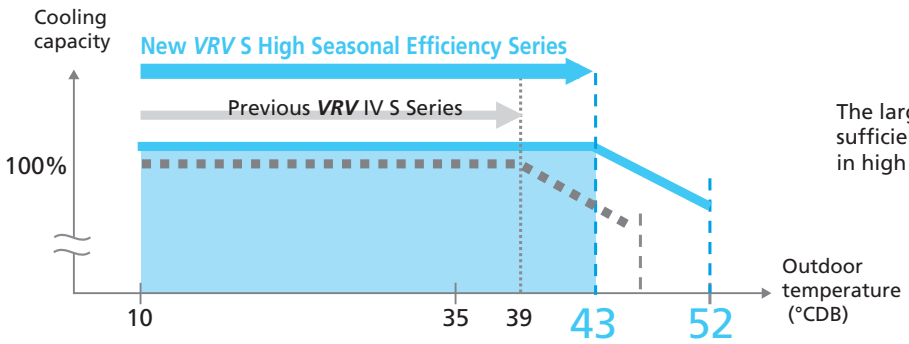
- 2-sided 3-row
- Heat exchanger area **68%UP**
  (4,5 class model only)





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.

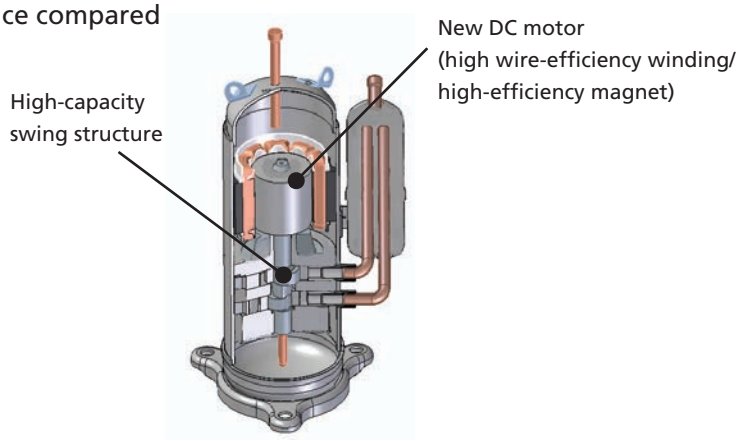


The large heat exchanger ensures sufficient cooling capacity even in high ambient temperatures.

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 class model only)

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

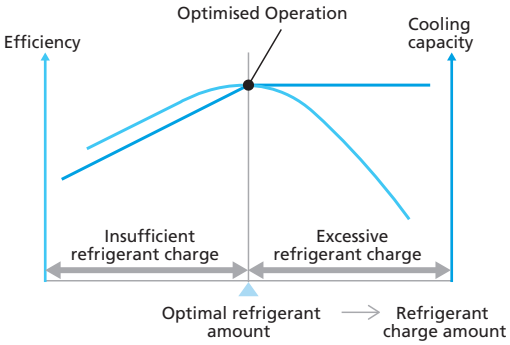
* Continuous operation range is 198 to 264 V.

Automatic refrigerant charge function

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

Optimised operation efficiency

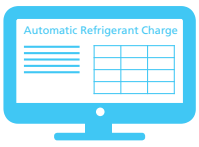
This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



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

*If pipe length exceeds 90 m, must use automatic refrigerant charge function. Refer to installation manual for details.

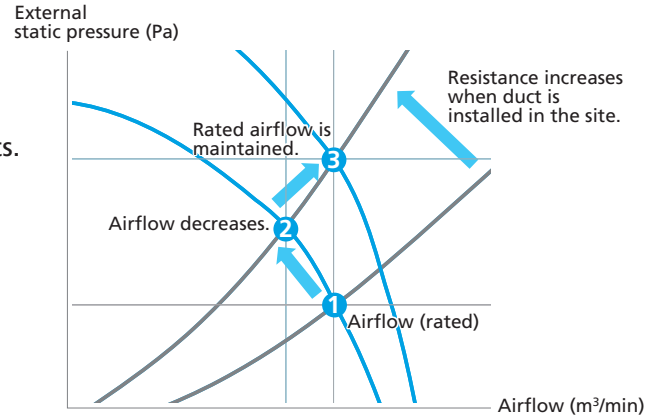
Design Flexibility of Installation

No short circuits

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

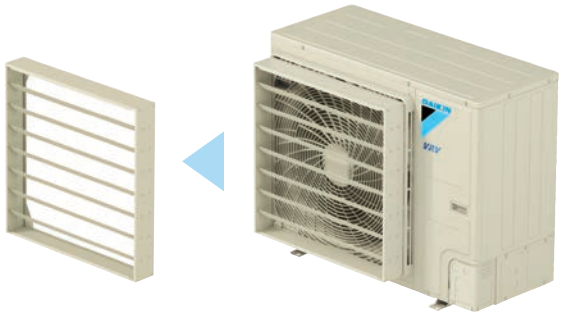
The new ***VRV*** S High Seasonal Efficiency Series outdoor unit has been achieved high external static pressure up to 40 Pa, realizing stable operation in small installation sites where the air direction adjustment grille or duct is used to avoid short circuits.

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.



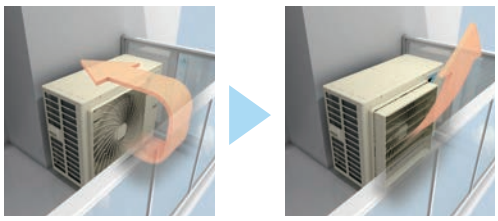
Optimum airflow direction with the optional air direction adjustment grille

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.

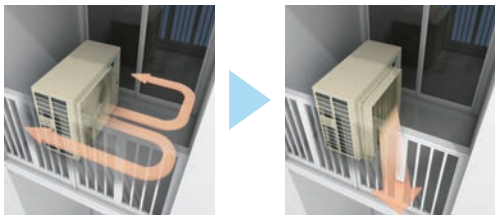


Air direction adjustment grille (option)

Wind is diverted upwards.

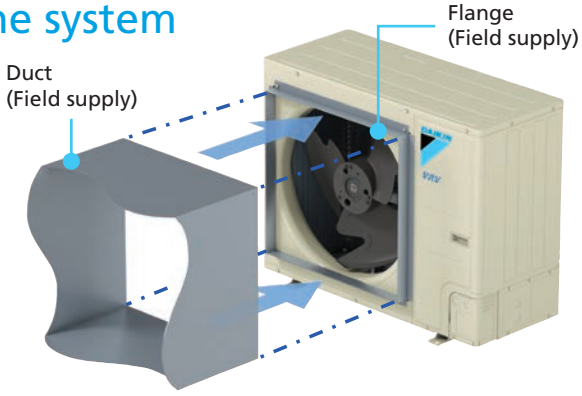


Wind is diverted sideways.



Duct installation to stabilize the system

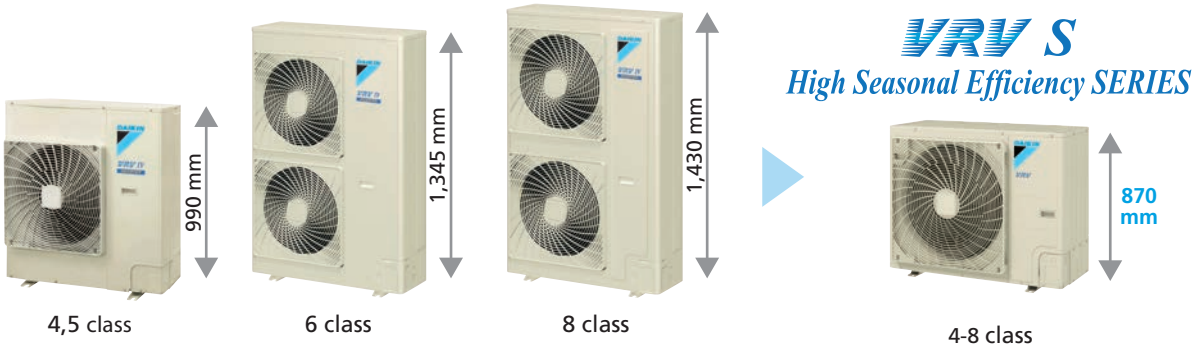
When the obstacle is not avoidable by the air direction adjustment grille, installing a field-supplied duct can bypass the obstacle. In this way, installation of the outdoor unit is possible in places like behind an advertising board.



Low height casing design

The new design has been optimised for the ***VRV*** S High Seasonal 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.

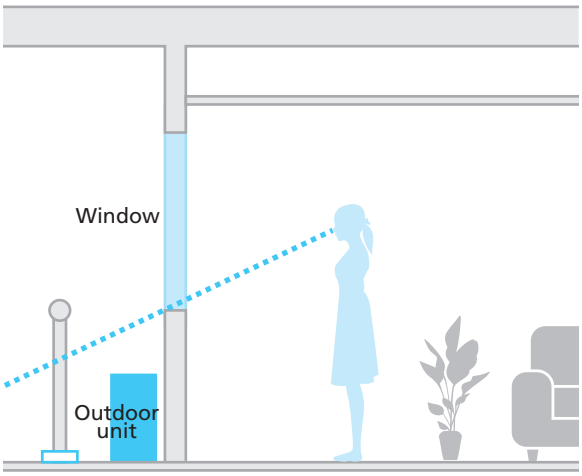
Previous ***VRV*** IV S series



- 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

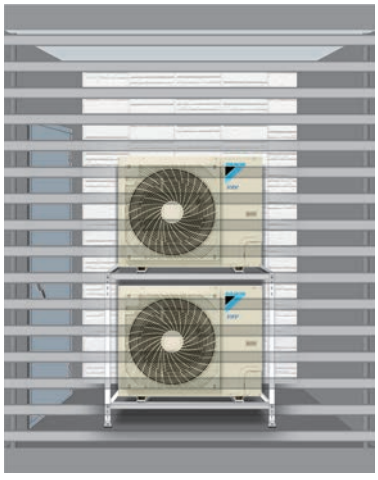
View from outside

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!

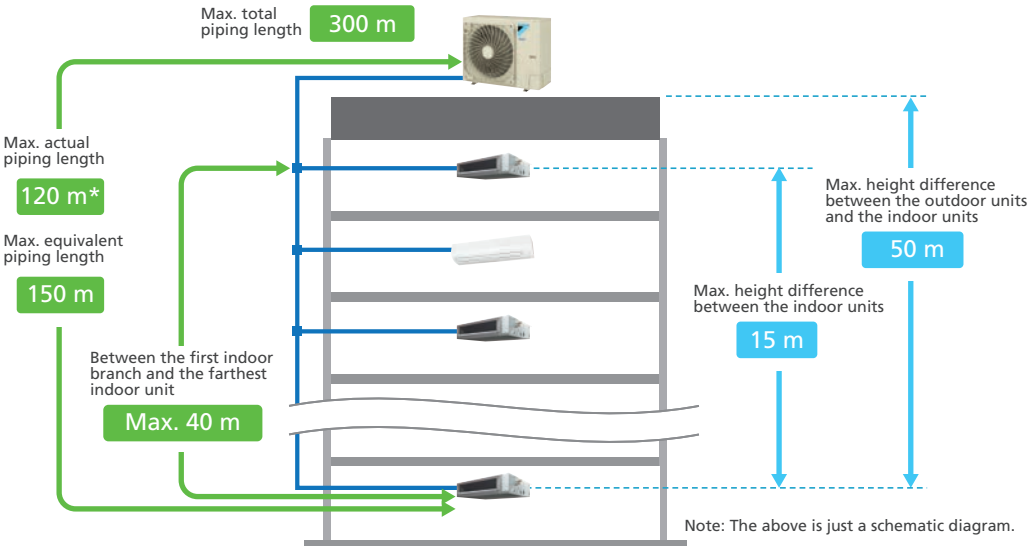
Previous ***VRV*** IV S series

100 m ▶ **120 m***

VRV S
High Seasonal Efficiency SERIES

Installation on the rooftop of residential apartments

Installation for ***VRV*** indoor units only



Note: The above is just a schematic diagram.

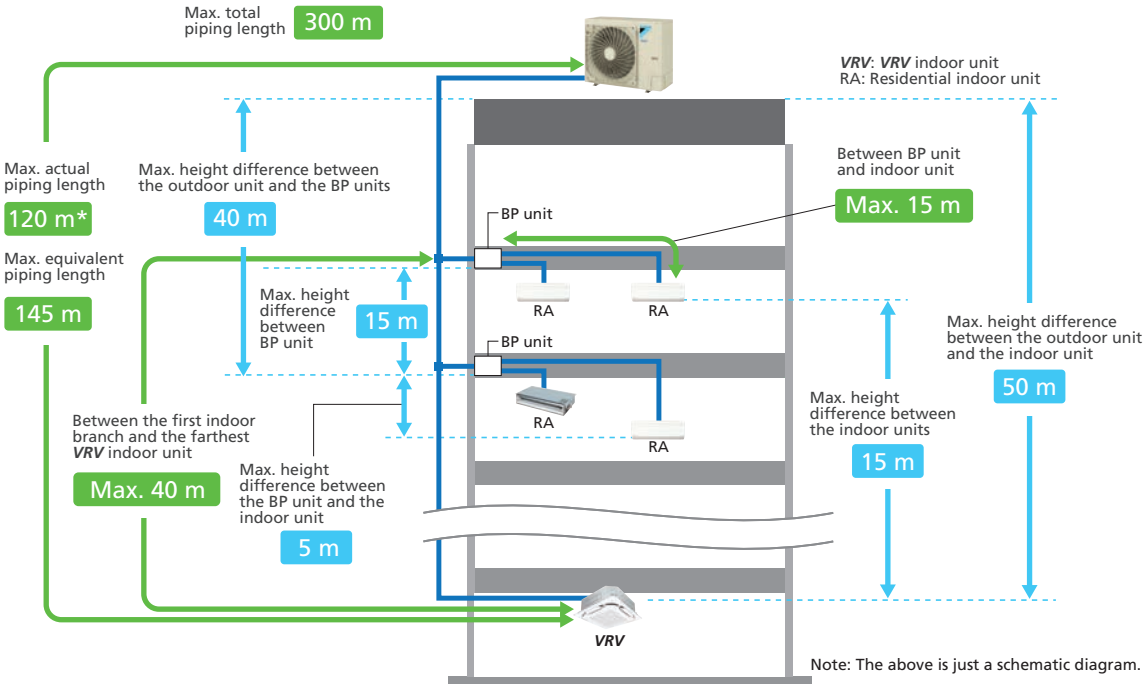
			4 class	5-8 class
Maximum allowable piping length	Actual piping length (Equivalent)		120 m* (150 m)	120 m* (150 m)
	Total piping length		300 m	300 m
	Between the first indoor branch and the farthest indoor unit		40 m	40 m
Maximum allowable height difference	Between the indoor units		10 m	15 m
	Between the outdoor units and the indoor units	If the outdoor unit is above.	50 m	50 m
		If the outdoor unit is below.	40 m	40 m

* If pipe length exceeds 90 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

Installation for mixed combination of *VRV* and residential indoor units



Note: The above is just a schematic diagram.

			4 class	5-8 class
Maximum allowable piping length	Actual piping length (Equivalent)		120 m* (145 m)	120 m* (145 m)
	Total piping length		300 m	300 m
	Between BP unit and indoor unit	If indoor unit capacity index < 60.	2 m–15 m	2 m–15 m
		If indoor unit capacity index is 60.	2 m–12 m	2 m–12 m
		If indoor unit capacity index is 71.	2 m–8 m	2 m–8 m
	Between the first indoor branch and the farthest BP unit or between the first indoor branch and the farthest *VRV* indoor unit		40 m	40 m
Minimum allowable piping length	Between outdoor unit and the first indoor branch		5 m	5 m
Maximum allowable height difference	Between the indoor units		10 m	15 m
	Between BP units		10 m	15 m
	Between the outdoor unit and the indoor unit	If the outdoor unit is above.	50 m	50 m
		If the outdoor unit is below.	40 m	40 m
	Between the outdoor unit and the BP unit		40 m	40 m
	Between the BP unit and the indoor unit		5 m	5 m

* If pipe length exceeds 90 m, must use automatic refrigerant charge function.
Refer to installation manual for details.

Indoor Unit Lineup

Wide variety of indoor units

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

VRV indoor units

● New lineup

Indoor units subject to VRT smart control

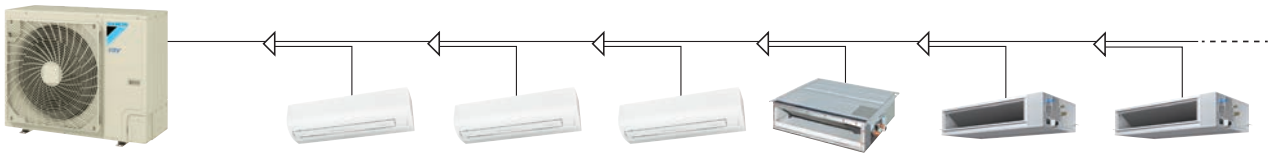
Category	Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
			Capacity Range (kW)	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	16.2	18	20	22.4	28
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	New **FXFTQ-AVM**			●	●	●	●	●		●	●	●	●					
	Round Flow Cassette with Sensing	FXFSQ-AVM			●	●	●	●	●		●	●	●	●					
	Compact Multi Flow Cassette	New **FXZQ-BVM**		●	●	●	●	●											
	Double Flow Cassette	New **FXCQ-BVM**		●	●	●	●	●	●		●		●						
	Single Flow Cassette	FXEQ-AV36		●	●	●	●	●	●										
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE	(700 mm width type)	●	●	●													
		FXDQ-NDVE	(900/1,100 mm width type)				●	●	●										
	Slim Duct (Compact)	FXDQ-TV1C(A)		●	●	●	●	●	●										
		FXDQ-SPV1		●	●	●	●	●	●										
	Middle Static Pressure Duct	FXSQ-PAVE		●	●	●	●	●	●		●	●	●	●					
		FXDYQ-MAV1									●	●	●		●				
	Middle-High Static Pressure Duct	FXMQ-PAVE		●	●	●	●	●	●		●	●	●	●					
	High Static Pressure Duct	FXMQ-PV1A														●	●	●	●
	Outdoor-Air Processing Unit	New **FXMQ-AFVM**									●			●				●	●
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
	Ceiling Suspended	FXHQ-MAVE				●		●	●		●	●							
		New **FXHQ-BVM**											●	●					
Wall Mounted		FXAQ-AVM		●	●	●	●	●	●										
Floor Standing	Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
	Concealed Floor Standing (Duct Connection)	FXNQ-A2VEB		●	●	●	●	●	●										
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h															

Notes: For indoor units without 'VRT Smart', the standard 'VRT' control is available (excludes Heat Reclaim Ventilators).

Residential indoor units with connection to BP units

Type	Model Name		20	25	35	50	60	71
		Rated Capacity (kW)	2.0	2.5	3.5	5.0	6.0	7.1
		Capacity Index	20	25	35	50	60	71
Compact Multi Flow Cassette	FFQ-BV1B			●	●	●	●	
Slim Ceiling Concealed Duct	FDXS-CVMA	 (900/1,100 mm width type)		●	●	●	●	
Wall Mounted	FTXS-KVMA		●	●	●			
	FTXS-KAVMA					●	●	●

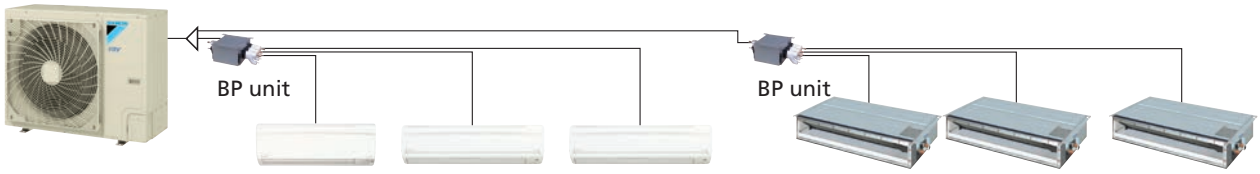
Note: BP units are necessary for residential indoor units.



VRV indoor units only

Max. 13 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 outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.



Residential indoor units only

Max. 13 indoor units

- BP units are necessary for residential indoor units.
- If a system has only residential indoor units, the system is operated under VRT control.

Outdoor Units

VRV S High Seasonal Efficiency Series

Specifications

Heat Pump

MODEL			RSUYQ4AVMA	RSUYQ5AVMA	RSUYQ6AVMA	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	2.48	3.36	3.95	5.46	6.61
	Heating	kW	2.51	3.28	3.90	5.10	5.92
Capacity control		%	23 to 100	15 to 100		9 to 100	
AEER★	Cooling		4.07	3.81	3.73	3.42	3.19
ACOP★	Heating		4.46	4.42	4.22	4.09	3.95
TCSPF★ (Cooling) Commercial / Residential	Hot		5.85 / 5.29	6.04 / 5.45	6.10 / 5.51	5.34 / 4.87	5.18 / 4.71
	Average		5.57 / 4.21	5.91 / 4.47	6.04 / 4.60	5.30 / 4.13	5.19 / 4.06
	Cold		5.78 / 4.09	6.23 / 4.45	6.39 / 4.63	5.60 / 4.15	5.53 / 4.14
HSPF★ (Heating) Commercial / Residential	Hot		4.96 / 4.98	4.69 / 4.71	4.37 / 4.39	5.00 / 5.00	4.83 / 4.82
	Average		4.81 / 4.74	4.55 / 4.50	4.25 / 4.22	4.74 / 4.58	4.58 / 4.41
	Cold		4.56 / 4.47	4.28 / 4.18	4.02 / 3.95	4.42 / 4.22	4.27 / 4.07
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	ℓ/s	1,450	1,400	1,450	2,050	
		m³/min	87	84	87	123	
	Heating	ℓ/s	1,500	1,400	1,567	2,283	2,417
		m³/min	90	84	94	137	145
Dimensions (H×W×D)		mm	870×1,100×460				
Machine weight		kg	95	98		120	
Sound pressure level (Cooling/Heating)		dB(A)	52/54	53/54	55/56	58/61	59/63
Sound power level (Cooling/Heating)		dB(A)	73/75	74/75	76/77	79/82	80/84
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	ϕ9.5 (Flare)				
	Gas	mm	ϕ15.9 (Flare)		ϕ19.1 (Brazing)		

Note: 1. Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, 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.

★ Values based on GEMS determination 2019.

TCSPF: Total Cooling Seasonal Performance Factor
HSPF: Heating Seasonal Performance Factor

In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.
Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures* as stipulated in AS/NZS 3823.4.1:2014.

Further, the annual outdoor temperatures are based on zoning Australia/ New Zealand into three distinct climate zones (Hot/Average/Cold).
This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSPF within the same climate zone.

*** There are two kinds of annual outdoor temperatures and it's different for residential and commercial use.**

Outdoor unit combinations

MODEL			RSUYQ4AVMA	RSUYQ5AVMA	RSUYQ6AVMA	RSUYQ7AYM	RSUYQ8AYM
kW			11.2	14.0	16.0	20.0	22.4
Class			4	5	6	7	8
Capacity index			100	125	150	175	200
Total capacity index of connectable indoor units	Combination(%)	50%*1	50	62.5	75	87.5	100
		80%*2	80	100	120	140	160
		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: ★ 1. When only ***VRV*** indoor units are connected, total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outdoor unit.
★ 2. When a mixed combination of ***VRV*** and residential indoor units is connected or when only residential indoor units are connected, total capacity index of connectable indoor units must be 80%-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

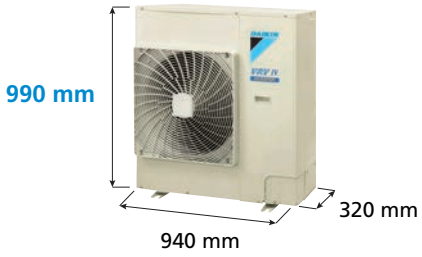
Heat Pump
3.5class (9 kW) – 9class (24 kW)

RXYMQ3-4AV4A
RXYMQ5-6BVM
RXYMQ8-9AY1

Compact & lightweight design

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

3.5 class — 6 class



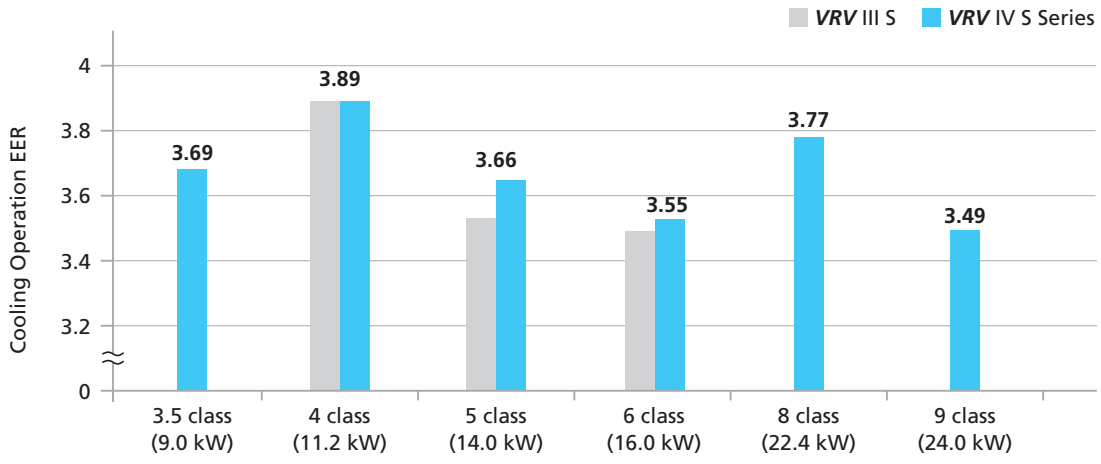
8 class / 9 class

	3.5 class / 4 class	5 class	6 class	8 class / 9 class
Height	990 mm	990 mm	990 mm	1,430 mm
Product Weight	71 kg	78 kg	80 kg	138 kg
Footprint	0.30 m^2	0.30 m^2	0.30 m^2	0.30 m^2

Energy saving

High Energy Efficiency Ratio (EER)

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



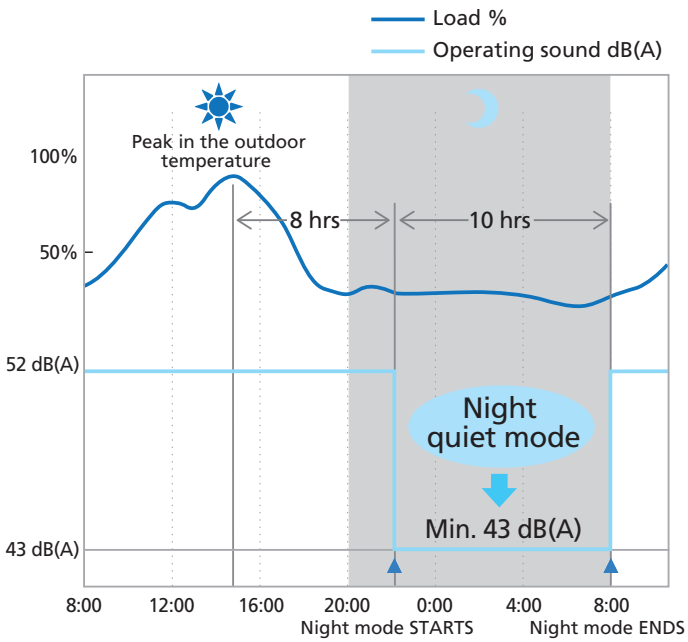
*Cooling operation conditions: Indoor temp. of 27° CDB,19° CWB, and outdoor temp. of 35° CDB.

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.

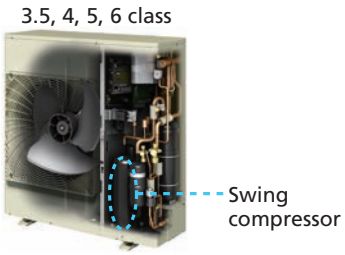


Notes: • This function is available in setting at site.
• The operating sound in quiet operation mode is the actual value measured by our company.
• The relationship of outdoor temperature (load) and time shown above is just an example.
• In case of 4 class outdoor unit

Technologies for efficient and quiet operation

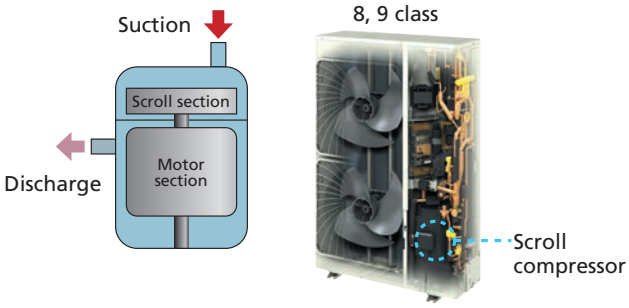
Swing compressor (3.5-6 class model only)

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.



The structural scroll (8-9 class 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.



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.

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.

When only *VRV* indoor units are connected

Actual piping length

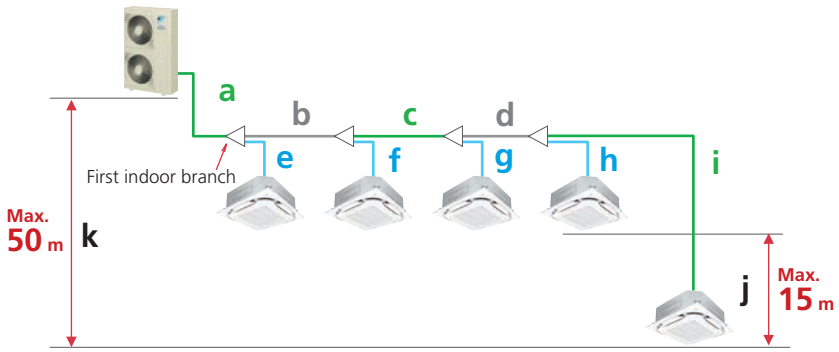
Max. 100 m

Equivalent piping length

Max. 130 m

Total piping length

Max. 300 m



			3.5,4 class	5,6 class	8,9 class
Max. allowable piping length	Actual refrigerant piping length (Equivalent)	a+b+c+d+i	70 m (90 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

				3.5,4 class	5,6 class	8,9 class
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	30 m	50 m
		If the outdoor unit is below	k	30 m	30 m	40 m

When a mixed combination of *VRV* and residential indoor units is connected

Actual piping length

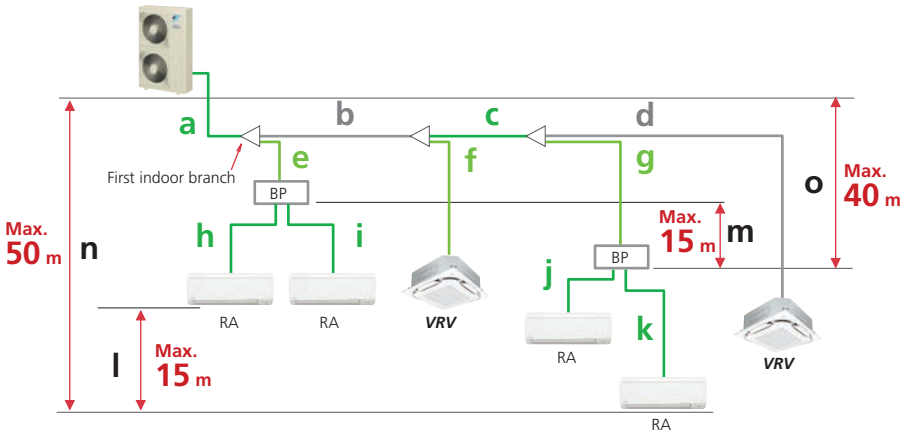
Max. 100 m

Equivalent piping length

Max. 125 m

Total piping length

Max. 250 m



				3.5,4 class	5,6 class	8,9 class
Max. allowable piping length	Actual refrigerant piping length (Equivalent)		a+b+c+g+k, a+b+c+d	70 m (90 m)	70 m (90 m)	100 m (125 m)
	Total piping length		a+b+c+d+e+f+g+h+i+j+k	250 m	250 m	250 m
	The first indoor branch - the farthest BP or ***VRV*** indoor unit		b+c+g, b+c+d	40 m	40 m	40 m
Max. and min. allowable piping length	BP unit - indoor unit	If indoor unit capacity index < 60	h, i, j, k	2 m–15 m	2 m–15 m	2 m–15 m
		If indoor unit capacity index is 60		2 m–12 m	2 m–12 m	2 m–12 m
		If indoor unit capacity index is 71		2 m–8 m	2 m–8 m	2 m–8 m
Min. allowable piping length	Outdoor unit - the first indoor branch		a	5 m	5 m	5 m

				3.5,4 class	5,6 class	8,9 class
Max. allowable height difference	Between the indoor units		l	10 m	15 m	15 m
	Between BP units		m	10 m	15 m	15 m
	Outdoor unit - the indoor unit	If the outdoor unit is above	n	30 m	30 m	50 m
		If the outdoor unit is below	n	30 m	30 m	40 m
	Outdoor unit - the BP unit		o	30 m	30 m	40 m

Indoor Unit Lineup

Enhanced range of choices

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

VRV indoor units

● New lineup

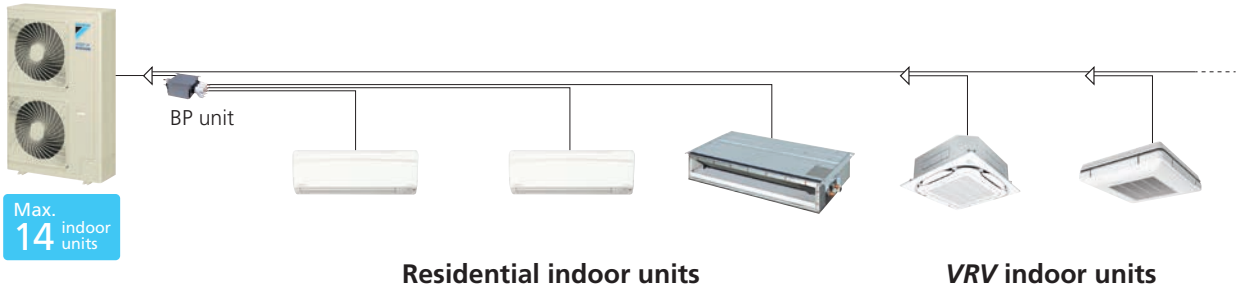
Category	Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
			Capacity Range (kW)	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	16.2	18	20	22.4	28
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	New **FXFTQ-AVM**			●	●	●	●	●		●	●	●	●					
	Round Flow Cassette with Sensing	FXFSQ-AVM			●	●	●	●	●		●	●	●	●					
	Compact Multi Flow Cassette	New **FXZQ-BVM**		●	●	●	●	●											
	Double Flow Cassette	New **FXCQ-BVM**		●	●	●	●	●	●		●		●						
	Single Flow Cassette	FXEQ-AV36		●	●	●	●	●	●										
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE	 (700 mm width type)	●	●	●													
		FXDQ-NDVE	 (900/1,100 mm width type)				●	●	●										
	Slim Duct (Compact)	FXDQ-TV1C(A)		●	●	●	●	●	●										
		FXDQ-SPV1		●	●	●	●	●	●										
	Middle Static Pressure Duct	FXSQ-PAVE		●	●	●	●	●	●		●	●	●	●					
		FXDYQ-MAV1									●	●	●		●				
	Middle-High Static Pressure Duct	FXMQ-PAVE		●	●	●	●	●	●		●	●	●	●					
	High Static Pressure Duct	FXMQ-PV1A														●	●	●	●
	Outdoor-Air Processing Unit	New **FXMQ-AFVM**									●			●				●	●
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
	Ceiling Suspended	FXHQ-MAVE				●		●	●		●	●							
		New **FXHQ-BVM**											●	●					
Wall Mounted		FXAQ-AVM		●	●	●	●	●	●										
Floor Standing	Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
	Concealed Floor Standing (Duct Connection)	FXNQ-A2VEB		●	●	●	●	●	●										
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h															

Residential indoor units with connection to BP units

Type	Model Name		20	25	35	50	60	71
		Rated Capacity (kW)	2.0	2.5	3.5	5.0	6.0	7.1
		Capacity Index	20	25	35	50	60	71
Compact Multi Flow Cassette	FFQ-BV1B			●	●	●	●	
Slim Ceiling Concealed Duct	FDXS-CVMA	 (900/1,100 mm width type)		●	●	●	●	
Wall Mounted	FTXS-KVMA		●	●	●			
	FTXS-KAVMA					●	●	●

Note: BP units are necessary for residential indoor units.

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



* Refer to page 80 for the maximum number of connectable indoor units.

Outdoor Units

VRV IV S Series

Specifications

Heat Pump

MODEL			RXYMQ3AV4A	RXYMQ4AV4A	RXYMQ5BVM	RXYMQ6BVM	RXYMQ8AY1	RXYMQ9AY1
Power supply			1-phase, 220-230 V, 50 Hz		1-phase, 220-240 V/220-230 V, 50/60 Hz		3-phase, 380–415 V, 50 Hz	
Cooling capacity		Btu/h	30,700	38,200	47,800	54,600	76,400	81,900
		kW	9.0	11.2	14.0	16.0	22.4	24.0
Heating capacity		Btu/h	34,100	42,700	47,800	54,600	85,300	88,700
		kW	10.0	12.5	14.0	16.0	25.0	26.0
Power consumption	Cooling	kW	2.44	2.88	3.83	4.51	5.94	6.88
	Heating		2.28	2.60	3.04	3.59	6.25	6.82
Capacity control		%	24 to 100		15 to 100		20 to 100	
AEER★	Cooling		—	—	3.39	3.31	—	—
ACOP★	Heating		—	—	4.20	4.09	—	—
TCSPF★ (Cooling) Commercial / Residential	Hot		—	—	5.38 / 4.87	5.16 / 4.70	—	—
	Average		—	—	5.29 / 4.02	5.11 / 3.97	—	—
	Cold		—	—	5.58 / 4.01	5.40 / 3.99	—	—
HSPF★ (Heating) Commercial / Residential	Hot		—	—	4.33 / 4.35	4.28 / 4.30	—	—
	Average		—	—	4.20 / 4.16	4.14 / 4.08	—	—
	Cold		—	—	3.91 / 3.80	3.84 / 3.71	—	—
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		ℓ/s	1,267		1,350	1,333	2,333	
		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)	51/52	52/54	53/54	55/56	57/58	58/59
Sound power		dB(A)	69	70	74	76	75	76
Operation range	Cooling	°CDB	-5 to 46					
	Heating	°CWB	-20 to 15.5					
Refrigerant	Type		R-410A					
	Charge	kg	2.9		3.4	4.0	5.8	
Piping connections	Liquid	mm	ϕ9.5 (Flare)				ϕ9.5 (Brazing)	
	Gas		ϕ15.9 (Flare)			ϕ19.1 (Brazing)		ϕ22.2 (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.

★ Values based on GEMS determination 2019.

TCSPF: Total Cooling Seasonal Performance Factor
HSPF: Heating Seasonal Performance Factor

In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.
Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures* as stipulated in AS/NZS 3823.4.1:2014.

Further, the annual outdoor temperatures are based on zoning Australia/ New Zealand into three distinct climate zones (Hot/Average/Cold).
This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSPF within the same climate zone.

*** There are two kinds of annual outdoor temperatures and it's different for residential and commercial use.**

Outdoor unit combinations

MODEL			RXYMQ3AV4A	RXYMQ4AV4A	RXYMQ5BVM	RXYMQ6BVM	RXYMQ8AY1	RXYMQ9AY1
kW			9.0	11.2	14.0	16.0	22.4	24.0
class			3.5	4	5	6	8	9
Capacity index			80	100	125	150	200	215
Total capacity index of connectable indoor units	Combination(%)	50%*1	40	50	62.5	75	100	107.5
		80%*2	64	80	100	120	160	172
		100%	80	100	125	150	200	215
		130%	104	130	162.5	195	260	280
Maximum number of connectable indoor units			5	6	8	9	13	14

Note: *1. When only ***VRV*** indoor units are connected, connection ratio must be 50% to 130%.
*2. When a mixed combination of ***VRV*** and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 80% to 130%.

VRV IV Q SERIES

For Quick & High Quality Replacement Use

Heat Pump
6 class – 48 class
(16 kW) (135 kW)

Standard Type	Space Saving Type
Single outdoor units **RQYQ6-16TY1A(E)**	Single outdoor units **RQYQ18-20TY1A(E)**
Double outdoor units **RQYQ18-32TNY1A(E)**	Double outdoor units **RQYQ30-40TSY1A(E)**
Triple outdoor units **RQYQ34-48TNY1A(E)**	Triple outdoor units **RQYQ42-48TSY1A(E)**

* (E) : anti-corrosion model

VRV III-Q

Heat Recovery
10 class – 30 class
(28 kW) (84.8 kW)

RQCEQ280-848PY1

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

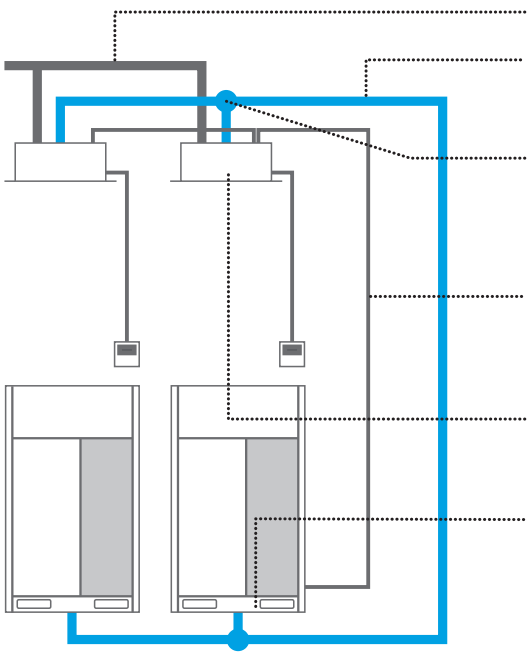
Quick, quality and economical replacement

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



Reuse drain pipes

Reuse refrigerant pipes
Pipes used for R-22 and R-407C will also work with ***VRV*** IV Q series.

Reuse refrigerant branch pipes
There are no restrictions when upgrading from a Daikin ***VRV*** system. Other VRF systems require branch pipes withstand pressure up to 3.3 MPa.

Reuse remote control and indoor-outdoor wiring
Reuse wiring when upgrading from a Daikin ***VRV*** system. In other cases, this will depend on the cable type.

Replace indoor units

Replace outdoor units

Benefits of System Replacement

Automatic

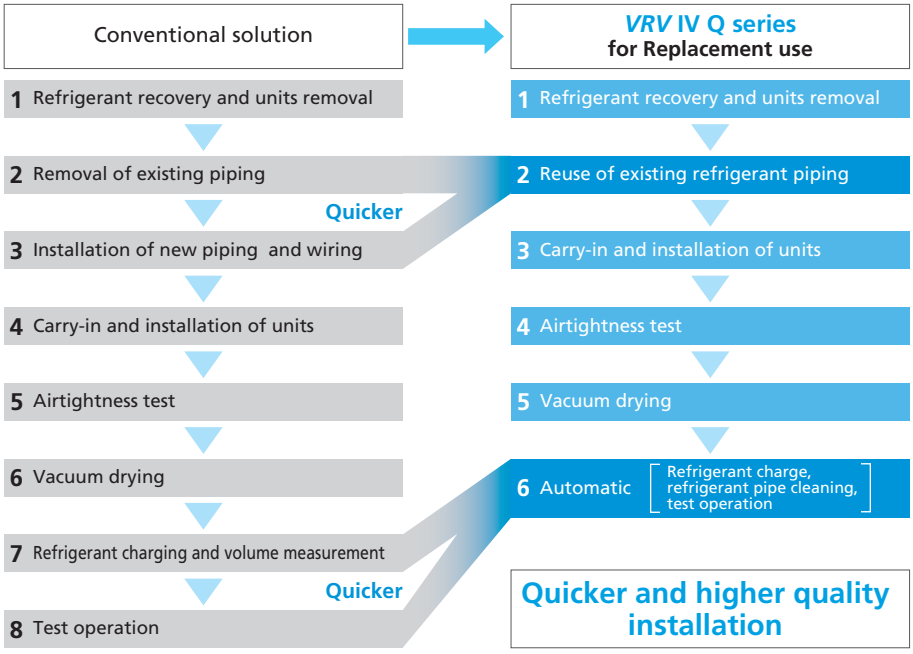
Refrigerant charging, cleaning and test operation done with just a single switch.

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.

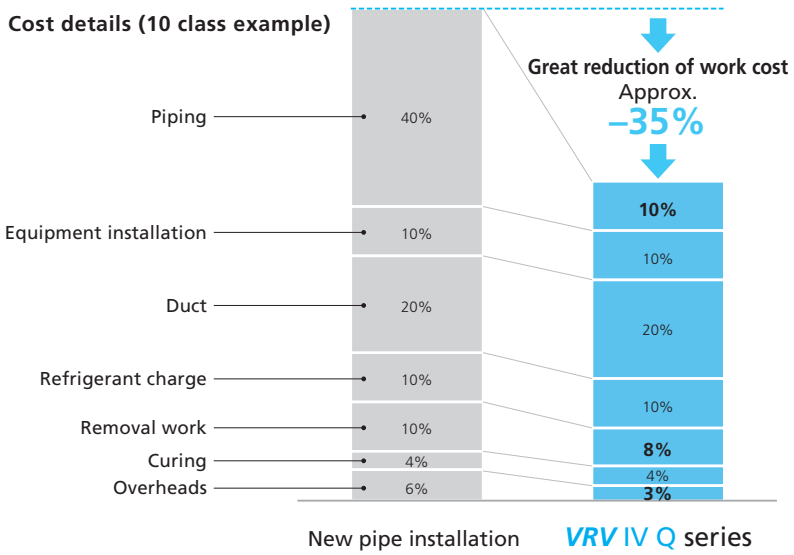
Time saving

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



Cost saving

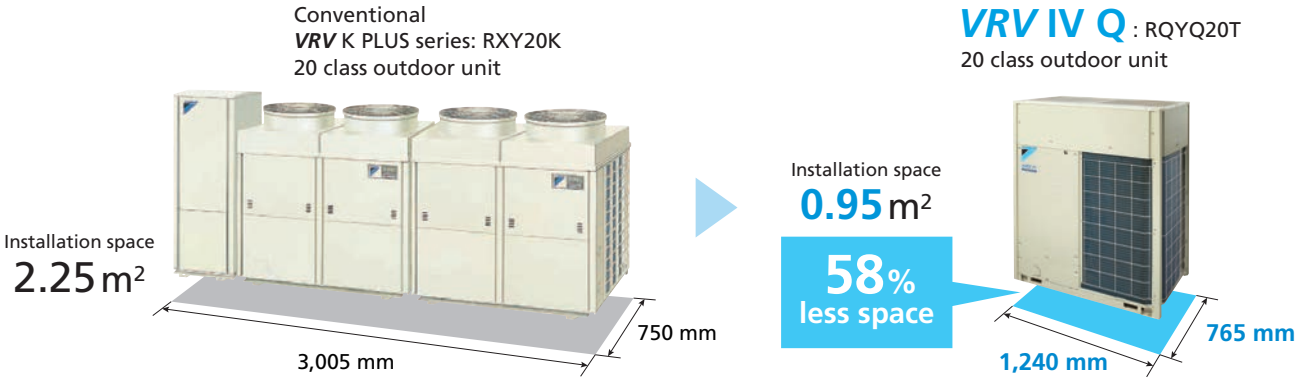
By the reuse of existing piping, 35% of cost down can be realized compared to installing new pipes.



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	*VRV* IV Q
49.0 Pa	78.4 Pa

System flexibility

An increased number of connectable indoor units in a single system

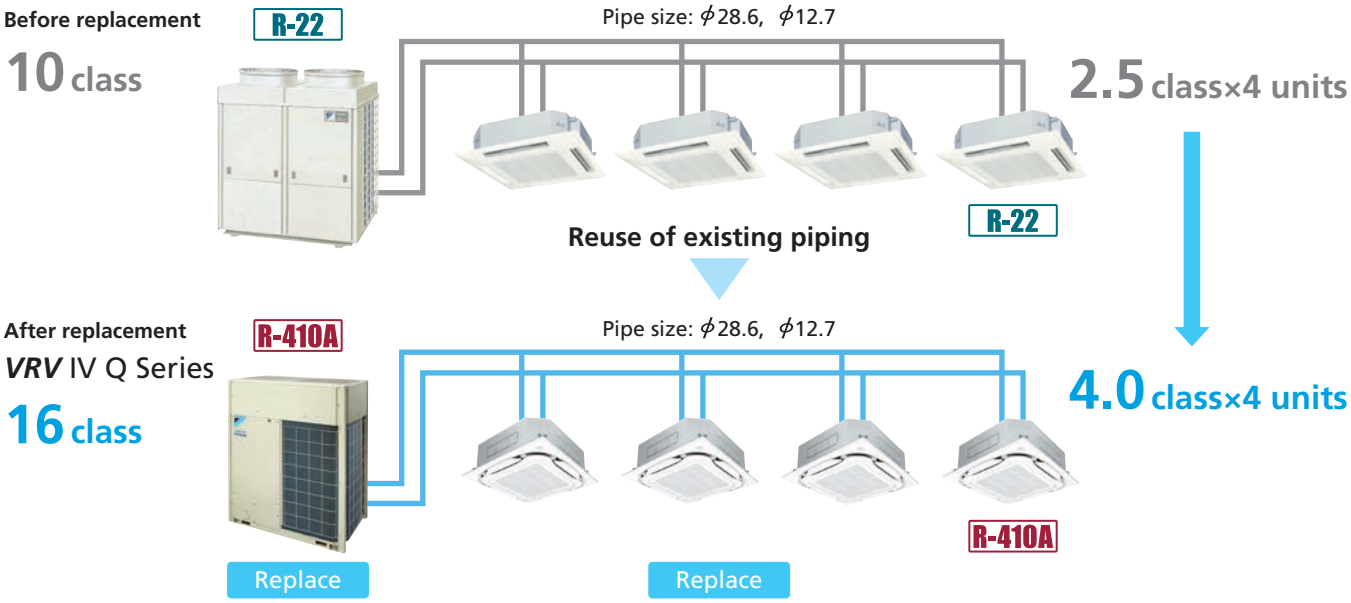
More indoor units can be connected in a single system, enabling consolidation of existing piping!

Conventional *VRV* K PLUS series: RXY24–30K	*VRV* IV Q : RQYQ40–48T
Up to 30 indoor units connectable	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 class ***VRV*** IV Q series using the refrigerant piping of an 10 class R-22 system.

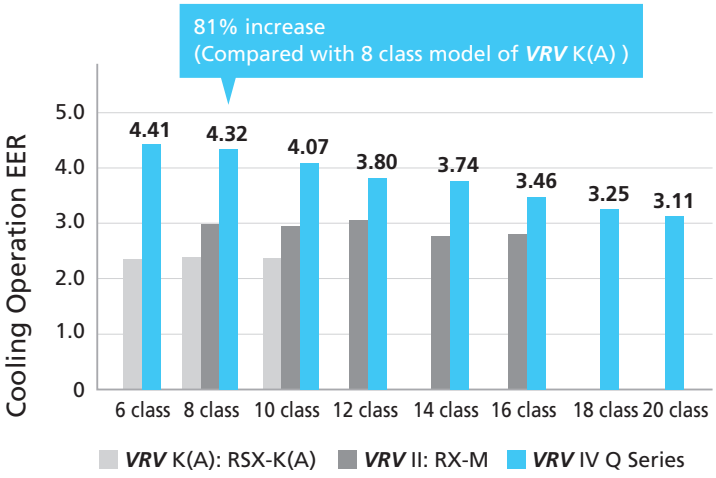


Energy saving

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.

Variable Refrigerant Temperature

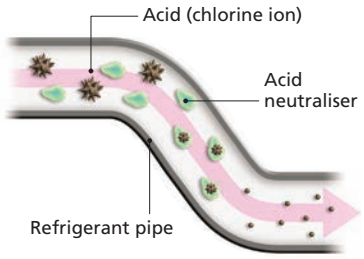
New technology that enables use of existing piping

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

VRV IV Q series only

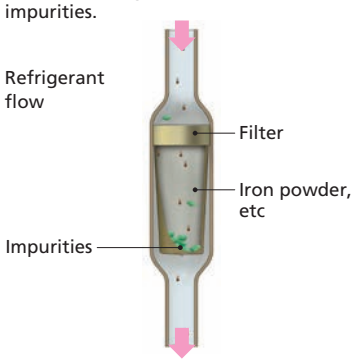
Acid

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



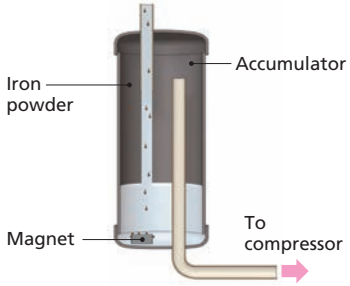
Impurities

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



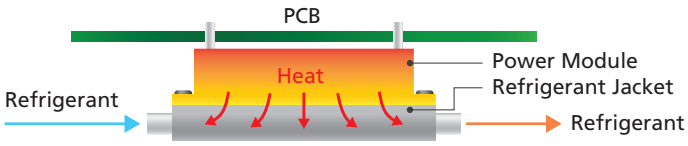
Iron powder

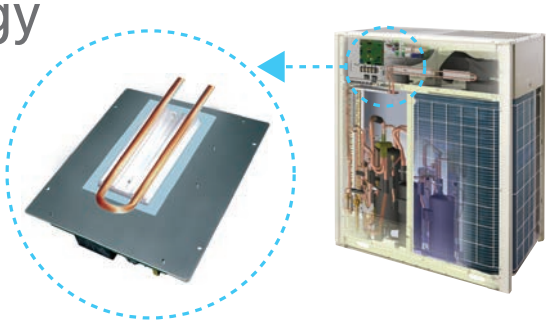
A magnet is installed inside the accumulator where liquid refrigerant accumulates.
The magnet attracts iron powder to keep the system clean.



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

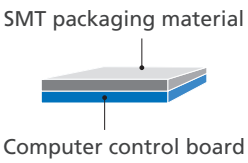
- Suitability for high ambient temperatures
- Miniaturization of electronic components

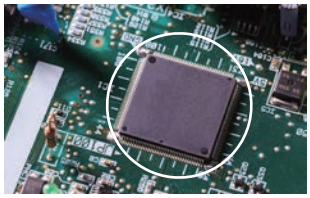
SMT* packaging technology

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

*SMT: Surface mounted technology

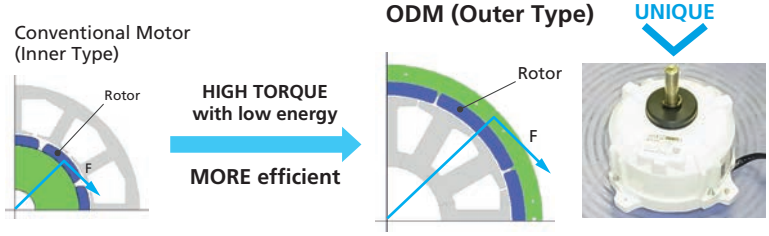
Computer control board surface adopting SMT packaging technology





Outer Rotor DC Motor (ODM)

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



Guidelines for Reuse of Existing Refrigerant Piping

Piping limits for reuse of existing piping

VRV IV Q Series Heat Pump

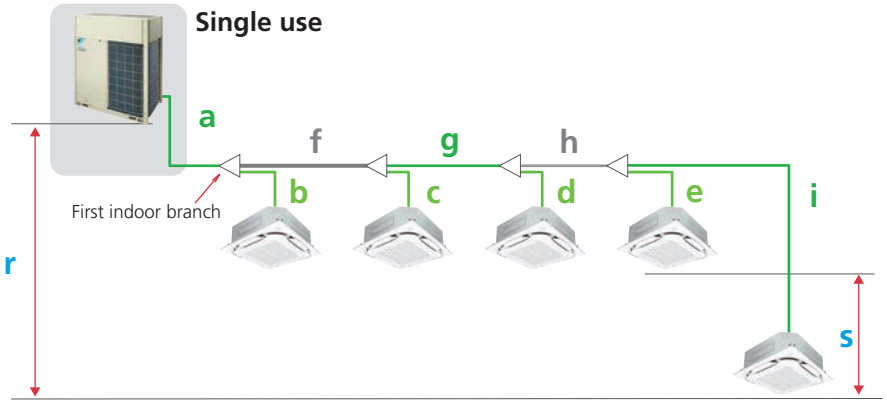
Actual piping length

Max. 150 m

Equivalent piping length

Max. 175 m

Single use

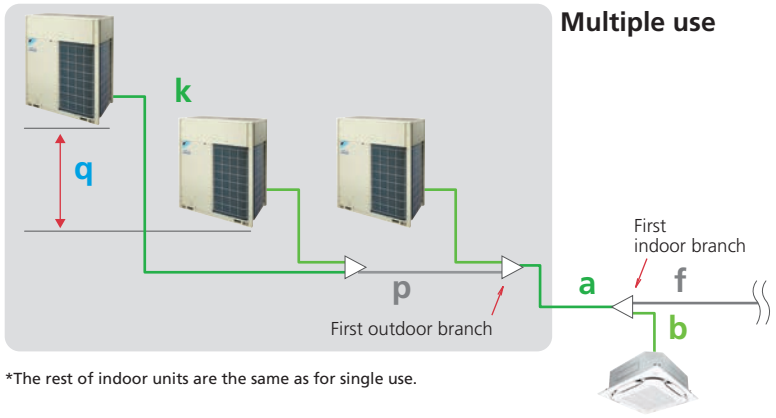


Colours in the diagram above are merely for identifying pipes referenced with symbols such as **a** .

Total piping length

Max. 300 m

Multiple use



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

		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

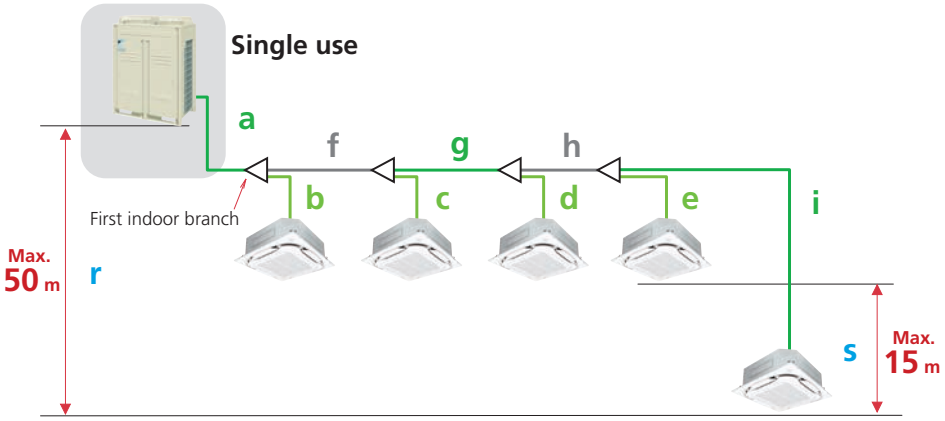
VRV III Q Series Heat Recovery

Actual piping length

Max. 150 m

Equivalent piping length

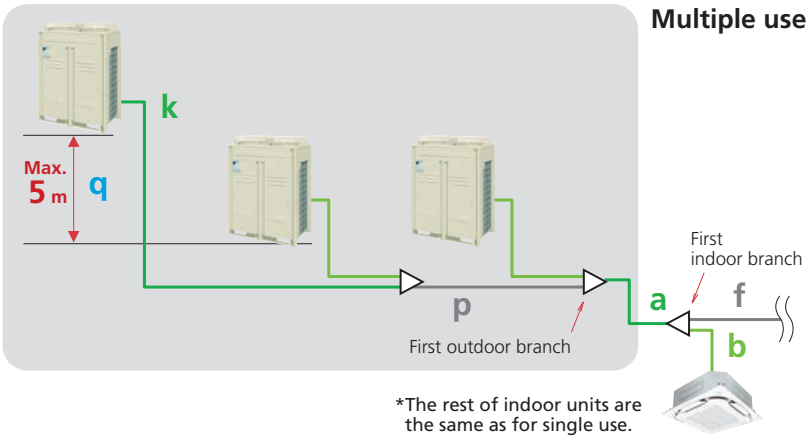
Max. 175 m



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

Total piping length

Max. 300 m



			Piping length	Example
Maximum allowable piping length	Actual refrigerant piping length (Equivalent)	RQYQ8-48P	150 m (175 m)	a+f+g+h+i
		RQYQ140P, RQCEQ-P	120 m (150 m)	
	Total piping length		300 m	a+b+c+d+e+f+g+h+i
	Between the first indoor branch and the farthest indoor unit		40 m	f+g+h+i
	Between the outdoor branch and the last outdoor unit		10 m (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

Guidelines for Reuse of Existing Refrigerant Piping

Reusability of existing piping

VRV IV Q series Heat Pump

Type of piping	Capacity	Piping size														
		Liquid						Gas								
		ϕ6.4	ϕ9.5	ϕ12.7	ϕ15.9	ϕ19.1	ϕ22.2	ϕ12.7	ϕ15.9	ϕ19.1	ϕ22.2	ϕ25.4	ϕ28.6	ϕ34.9	ϕ41.3	ϕ54.1
Main piping	6 class	X	S○●			X	X	X	X	S○	●			X	X	X
	8 class	X	S○	●		X	X	X	X	S○		●	●	X	X	X
	10 class	X	S○	●		X	X	X	X	X	S○		●	X	X	X
	12 class	X	X	S○	●	X	X	X	X	X	X	X	S○	●	X	X
	14 class	X	X	S○	●	X	X	X	X	X	X	X	S○	●	X	X
	16 class	X	X	S○	●	X	X	X	X	X	X	X	S○	●	X	X
	18 class	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X	X
	20 class	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X	X
	22 class	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X	X
	24 class	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●	X
	26 class	X	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X
	28 class	X	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X
	30 class	X	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X
	32 class	X	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X
	34 class	X	X	X	X	S○	●	X	X	X	X	X	X	S○	●	X
	36 class	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●
	38 class	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●
	40 class	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●
	42 class	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●
	44 class	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●
	46 class	X	X	X	X	S○	●	X	X	X	X	X	X	X	S○	●
	48 class	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
	140-145 class	X	S○		X	X	X	X	S○				X	X	X	X
	180 class	X	S○		X	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, R-407C 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.

VRV III Q series Heat Recovery

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

● : Piping size of conventional R-22, R-407C model
○ : Piping size of conventional R-410A model
S : Standard piping size of ***VRV*** III Q series

: Possible
: Standard piping size of ***VRV*** III 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 BS 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 Heat Pump

Enhanced lineup to 2 types

Lineup

class		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

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

Notes: *1. For multiple connection of 18 class systems and above, the outdoor unit multi connection piping kit (separately sold) is required.
*2. Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor units.
*3. When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units. And the connection ratio must not exceed 100%.

Space Saving Type

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

Notes: *1. For multiple connection of 30 class and above the outdoor unit multi connection piping kit (separately sold) is required.
*2. Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor units.
*3. When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units must not exceed 30% of the capacity index of the outdoor units. And the connection ratio must not exceed 100%.

Outdoor Unit Lineup

VRV III Q Series Heat Recovery

Outdoor unit lineup

class	10	13	16	18	20	22	24	26	28	30
VRV III Q Series	●	●	●	●	●	●	●	●	●	●

Outdoor unit combinations

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

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

Indoor Unit Lineup

Wide variety of indoor units

● New lineup

Category	Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
			Capacity Range (kW)	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	16.2	18	20	22.4	28
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	New **FXFTQ-AVM**			●	●	●	●	●		●	●	●	●					
	Round Flow Cassette with Sensing	FXFSQ-AVM			●	●	●	●	●		●	●	●	●					
	Compact Multi Flow Cassette	New **FXZQ-BVM**		●	●	●	●	●											
	Double Flow Cassette	New **FXCQ-BVM**		●	●	●	●	●	●		●		●						
	Single Flow Cassette	FXEQ-AV36		●	●	●	●	●	●										
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE	 (700 mm width type)	●	●	●													
		FXDQ-NDVE	 (900/1,100 mm width type)				●	●	●										
	Slim Duct (Compact)	FXDQ-TV1C(A)		●	●	●	●	●	●										
		FXDQ-SPV1		●	●	●	●	●	●										
	Middle Static Pressure Duct	FXSQ-PAVE		●	●	●	●	●	●		●	●	●	●					
		FXDYQ-MAV1									●	●	●		●				
	Middle-High Static Pressure Duct	FXMQ-PAVE		●	●	●	●	●	●		●	●	●	●					
	High Static Pressure Duct	FXMQ-PV1A														●	●	●	●
	Outdoor-Air Processing Unit	New **FXMQ-AFVM**									●			●				●	●
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
	Ceiling Suspended	FXHQ-MAVE				●		●	●		●	●							
		New **FXHQ-BVM**											●	●					
Wall Mounted		FXAQ-AVM		●	●	●	●	●	●										
Floor Standing	Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
	Concealed Floor Standing (Duct Connection)	FXNQ-A2VEB		●	●	●	●	●	●										
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															

Notes:
1. It is not possible to combine old R-22 and new R-410A indoor units in one system due to incompatibility of communication.
2. It is not possible to keep R-407C indoor units.

Outdoor Units

Specifications

VRV IV Q Series

Standard Type


MODEL			RQYQ6TY1A(E)	RQYQ8TY1A(E)	RQYQ10TY1A(E)	RQYQ12TY1A(E)	RQYQ14TY1A(E)	RQYQ16TY1A(E)
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	5.21	7.29	9.01	10.9	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		ℓ/s	1,983	2,616	2,749	2,966	3,883	
		m³/min	119	157	165	178	233	
Dimensions (H×W×D)		mm	1,657X930X765				1,657X1,240X765	
Machine weight		kg	185		195		285	
Sound level		dB(A)	55	56	57	59	60	61
Sound power		dB(A)	75	76	78	79	80	83
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	ϕ9.5(Brazing)			ϕ12.7(Brazing)		
	Gas	mm	ϕ19.1(Brazing)		ϕ22.2(Brazing)	ϕ28.6(Brazing)		



MODEL			RQYQ34TNY1A(E)	RQYQ36TNY1A(E)	RQYQ38TNY1A(E)	RQYQ40TNY1A(E)	RQYQ42TNY1A(E)	RQYQ44TNY1A(E)
Combination units			RQYQ10TY1A(E)	RQYQ12TY1A(E)	RQYQ8TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)
			RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ14TY1A(E)	RQYQ16TY1A(E)
			RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ18TY1A(E)	RQYQ16TY1A(E)	RQYQ16TY1A(E)	RQYQ16TY1A(E)
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	25.3	27.0	29.6	31.0	32.9	35.0
	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)+(3.6×1)+(3.7×1)
Airflow rate		ℓ/s	2,749+2,966+2,966	2,966+2,966+2,966	2,616+2,966+3,883	2,966+2,966+3,883	2,966+3,883+3,883	
		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		
Sound power		dB(A)	83	84	86			87
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	6.3+6.3+6.3	5.9+6.3+11.7	6.3+6.3+10.4	6.3+10.3+10.4	6.3+10.4+10.4
Piping connections	Liquid	mm	ϕ19.1(Brazing)					
	Gas	mm	ϕ34.9(Brazing)	ϕ41.3(Brazing)				

Heat Pump



	RQYQ18TNY1A(E)	RQYQ20TNY1A(E)	RQYQ22TNY1A(E)	RQYQ24TNY1A(E)	RQYQ26TNY1A(E)	RQYQ28TNY1A(E)	RQYQ30TNY1A(E)	RQYQ32TNY1A(E)
	RQYQ8TY1A(E)	RQYQ8TY1A(E)	RQYQ10TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ14TY1A(E)	RQYQ14TY1A(E)
	RQYQ10TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ14TY1A(E)	RQYQ16TY1A(E)	RQYQ16TY1A(E)	RQYQ18TY1A(E)
	—	—	—	—	—	—	—	—
	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
	12.5	14.2	16.3	18.0	19.9	22.0	23.9	26.3
	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)
	2,616+2,749	2,616+2,966	2,749+2,966	2,966+2,966	2,966+3,883		3,883+3,883	
	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	
	80	81	82		83	84	85	
	-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
	ϕ15.9(Brazing)				ϕ19.1(Brazing)			
	ϕ28.6(Brazing)			ϕ34.9(Brazing)				

Space Saving Type

Heat Pump


	RQYQ46TNY1A(E)	RQYQ48TNY1A(E)
	RQYQ14TY1A(E)	RQYQ14TY1A(E)
	RQYQ14TY1A(E)	RQYQ16TY1A(E)
	RQYQ18TY1A(E)	RQYQ18TY1A(E)
	3-phase 4-wire system, 380-415 V, 50 Hz	
	444,000	461,000
	130	135
	498,000	515,000
	146	151
	37.2	39.3
	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)
	3,883+3,883+3,883	
	233+233+233	
	(1,657×1,240×765)+(1,657×1,240×765)+(1,657×1,240×765)	
	285+285+300	
	66	
	87	
	-5 to 49	
	-20 to 15.5	
	R-410A	
	10.3+10.3+11.7	10.3+10.4+11.7
	ϕ19.1(Brazing)	
	ϕ41.3(Brazing)	

MODEL			RQYQ18TY1A(E)	RQYQ20TY1A(E)
Combination units			–	–
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz	
Cooling capacity		Btu/h	171,000	191,000
		kW	50.0	56.0
Heating capacity		Btu/h	191,000	215,000
		kW	56.0	63.0
Power consumption	Cooling	kW	15.4	18.0
	Heating	kW	15.1	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		ℓ/s	3,883	4,466
		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
Sound power		dB(A)	84	87
Operation range	Cooling	°CDB	-5 to 49	
	Heating	°CWB	-20 to 15.5	
Refrigerant	Type		R-410A	
	Charge	kg	11.7	11.8
Piping connections	Liquid	mm	ϕ15.9(Brazing)	
	Gas	mm	ϕ28.6(Brazing)	

Notes:
1. Models with (E) are the outdoor units with anti-corrosion specifications. Please refer to Engineering Data Book for details.
2. Specifications are based on the following conditions;
   - Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, 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 to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

Outdoor Units

Specifications

VRV IV Q Series

Space Saving Type


MODEL			RQYQ30TSY1A(E)	RQYQ32TSY1A(E)	RQYQ34TSY1A(E)	RQYQ36TSY1A(E)
Combination units			RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ16TY1A(E)	RQYQ18TY1A(E)
			RQYQ18TY1A(E)	RQYQ20TY1A(E)	RQYQ18TY1A(E)	RQYQ18TY1A(E)
			—	—	—	—
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		ℓ/s	2,966+3,883	2,966+4,466	3,883+3,883	
		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	
Sound power		dB(A)	85	88	87	
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	ϕ19.1(Brazing)			
	Gas	mm	ϕ34.9(Brazing)			ϕ41.3(Brazing)

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

VRV III Q Series


MODEL			RQCEQ280PY1	RQCEQ360PY1	RQCEQ460PY1	RQCEQ500PY1	RQCEQ540PY1	RQCEQ636PY1
Combination units			RQEQ140PY1	RQEQ180PY1	RQEQ140PY1	RQEQ140PY1	RQEQ180PY1	RQEQ212PY1
			RQEQ140PY1	RQEQ180PY1	RQEQ140PY1	RQEQ180PY1	RQEQ180PY1	RQEQ212PY1
			—	—	RQEQ180PY1	RQEQ180PY1	RQEQ180PY1	RQEQ212PY1
			—	—	—	—	—	—
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz					
Cooling capacity (*1) (*2)		Btu/h(*1)	96,200	124,000	158,000	172,000	186,000	218,000
		kW (*1)	28.2	36.3	46.3	50.4	54.4	64.0
		kW (*2)	28.0	36.0	46.0	50.0	54.0	63.6
Heating capacity		Btu/h	109,000	136,000	177,000	191,000	205,000	229,000
		kW	32.0	40.0	52.0	56.0	60.0	67.2
Power consumption	Cooling(*2)	kW	7.04	10.3	12.2	13.9	15.5	21.9
	Heating	kW	8.00	10.7	13.4	14.7	16.1	17.7
Capacity control		%	13-100	10-100	8-100	7-100		
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed scroll type					
	Motor output	kW	2.8X2	3.3X2	2.8X2+3.3	2.8+3.3X2	3.3X3	3.6X3
Airflow rate		ℓ/s	1583+1583	1833+1833	1583+1583+1833	1583+1833+1833	1833+1833+1833	
		m³/min	95+95	110+110	95+95+110	95+110+110	110+110+110	
Dimensions (HXWXD)		mm	(1,680X635X765)+(1,680X635X765)		(1,680X635X765)+(1,680X635X765)+(1,680X635X765)			
Machine weight		kg	175+175		175+175+175			179+179+179
Sound level		dB(A)	57	61		62	63	65
Operation range	Cooling	°CDB	-5 to 43					
	Heating	°CWB	-20 to 15.5					
	Cooling & Heating	°CWB	-6 to 15.5					
Refrigerant	Type		R-410A					
	Charge	kg	10.3+10.3	10.6+10.6	10.3+10.3+10.6	10.3+10.6+10.6	10.6+10.6+10.6	11.2+11.2+11.2
Piping connections	Liquid	mm	ϕ 9.5 (Brazing)	ϕ12.7 (Brazing)		ϕ15.9 (Brazing)		
	Suction gas	mm	ϕ22.2 (Brazing)	ϕ25.4 (Brazing)	ϕ28.6 (Brazing)			
	High and low pressure gas	mm	ϕ19.1 (Brazing)	ϕ19.1 (Brazing)	ϕ22.2 (Brazing)			ϕ25.4 (Brazing)

Note: Specifications are based on the following conditions;
- Cooling:(*1) Indoor temp.: 27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
  (*2) 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.

Heat Pump

						
	RQYQ38TSY1A(E)	RQYQ40TSY1A(E)	RQYQ42TSY1A(E)	RQYQ44TSY1A(E)	RQYQ46TSY1A(E)	RQYQ48TSY1A(E)
	RQYQ18TY1A(E)	RQYQ20TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)
	RQYQ20TY1A(E)	RQYQ20TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ16TY1A(E)	RQYQ18TY1A(E)
	—	—	RQYQ18TY1A(E)	RQYQ20TY1A(E)	RQYQ18TY1A(E)	RQYQ18TY1A(E)
	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					
	(4.4x1)+(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)
	3,883+4,466	4,466+4,466	2,966+2,966+3,883	2,966+2,966+4,466	2,966+3,883+3,883	
	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	
	89	90	86	87	88	
	-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
	ϕ19.1(Brazing)					
	ϕ41.3(Brazing)					

- 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 to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

Heat Recovery

				
	RQCEQ712PY1	RQCEQ744PY1	RQCEQ816PY1	RQCEQ848PY1
	RQEQ140PY1	RQEQ140PY1	RQEQ180PY1	RQEQ212PY1
	RQEQ180PY1	RQEQ180PY1	RQEQ212PY1	RQEQ212PY1
	RQEQ180PY1	RQEQ212PY1	RQEQ212PY1	RQEQ212PY1
	RQEQ212PY1	RQEQ212PY1	RQEQ212PY1	RQEQ212PY1
	3-phase 4-wire system, 380-415 V, 50 Hz			
	245,000	256,000	280,000	291,000
	71.7	74.9	82.2	85.4
	71.2	74.4	81.6	84.8
	268,000	276,000	298,000	306,000
	78.4	80.8	87.2	89.6
	21.2	23.3	27.1	29.2
	20.7	21.2	23.1	23.6
	5-100			
	Ivory white (5Y7.5/1)			
	Hermetically sealed scroll type			
	2.8+3.3X2+3.6	2.8+3.3+3.6X2	3.3+3.6X3	3.6X4
	1583+1833+1833+1833		1833+1833+1833+1833	
	95+110+110+110		110+110+110+110	
	(1,680X635X765)+(1,680X635X765)+(1,680X635X765)+(1,680X635X765)			
	175+175+175+179	175+175+179+179	175+179+179+179	179+179+179+179
	64	65	66	
	-5 to 43			
	-20 to 15.5			
	-6 to 15.5			
	R-410A			
	10.3+10.6+10.6+11.2	10.3+10.6+11.2+11.2	10.6+11.2+11.2+11.2	11.2+11.2+11.2+11.2
	ϕ15.9 (Brazing)	ϕ19.1 (Brazing)		
	ϕ28.6 (Brazing)	ϕ34.9 (Brazing)		
	ϕ25.4 (Brazing)	ϕ25.4 (Brazing)	ϕ 28.6 (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 IV W SERIES

Water Cooled System Suitable for Tall Multi-Storied Buildings

Heat Pump
Heat Recovery
6 class (16 kW) – 36 class (101 kW)

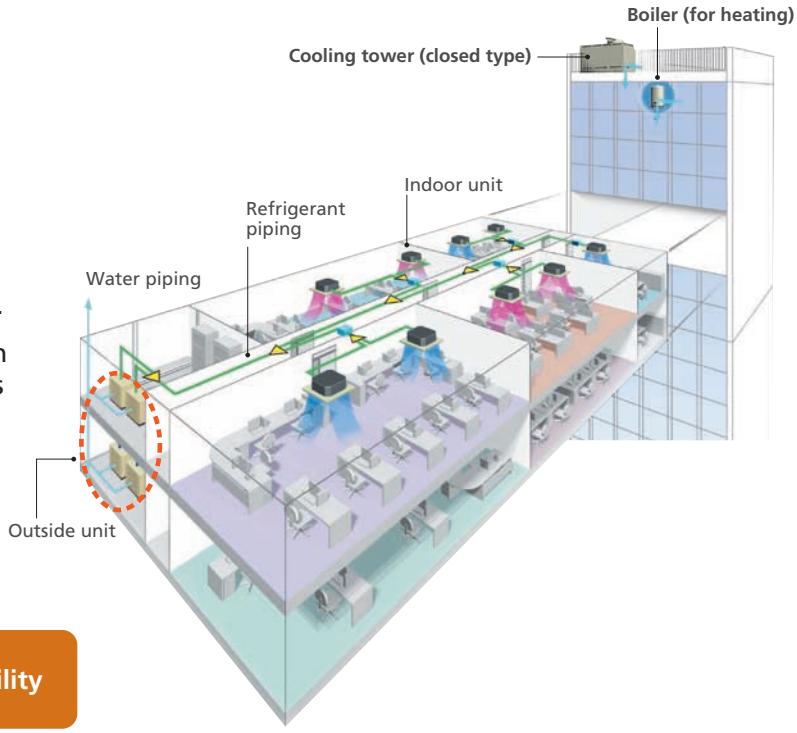
Single outside units
RWEYQ6-12TYM

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

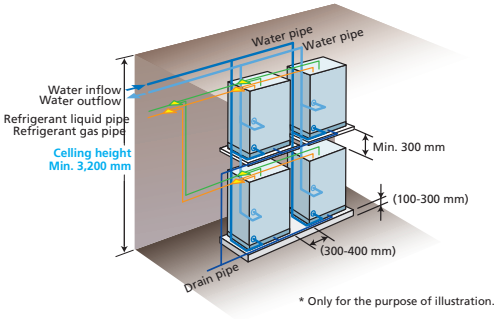
Design flexibility

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.

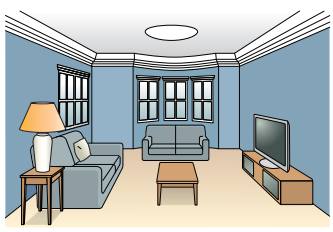
No balcony required



* Only for the purpose of illustration.

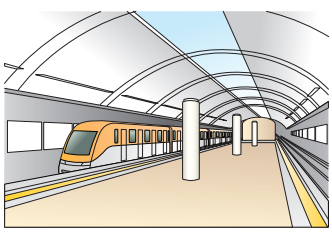
Condominiums and detached houses

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



Underground shopping malls and subway

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



Water Cooled *VRV* IV as a Retrofit Solution

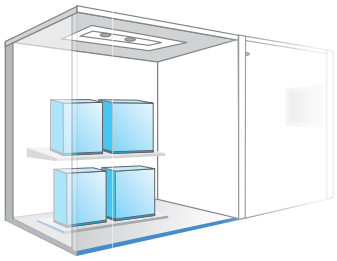
A flexible system convenient for expansion/renovation

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

Easy Installation

Indoor installation solves the puzzle of proper placement of outside units

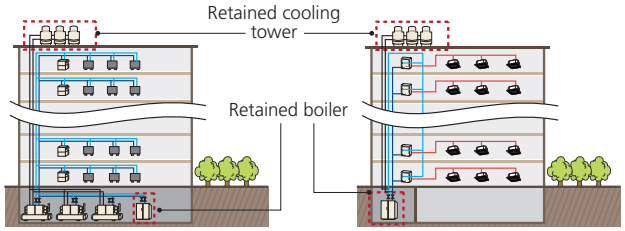
It is possible to place the outside unit inside the building, it makes easier to adapt to different type of buildings and open to various kinds of creative building exteriors.



Part of the old system can be retained

Cost Saving

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

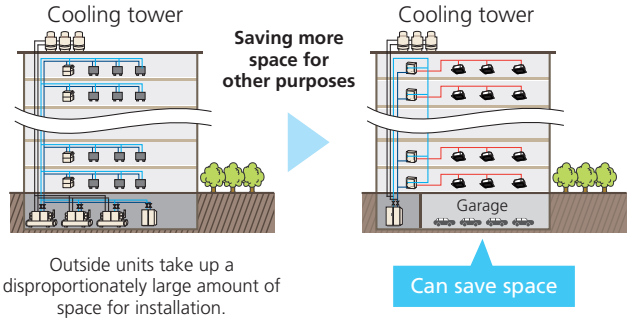


*System diagram

The compact outside units facilitate the renovation process

Space Saving

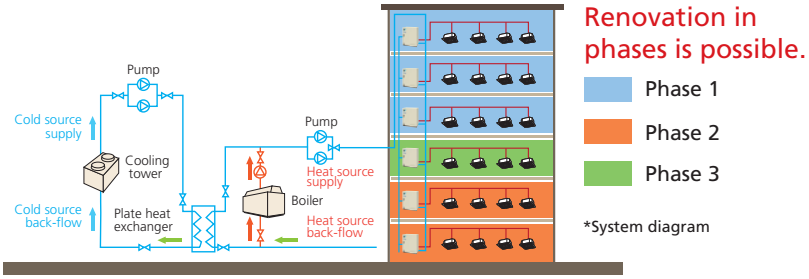
- The outside units are conveniently compact so transport by elevator is possible. It also effectively simplifies installation. This also saves a great deal of time and labor.
- The modular design enables a free and flexible configuration of the outside units. Also can save space for other purposes.



Floor by floor renovation without disturbing other tenants

Flexible Renovation

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.



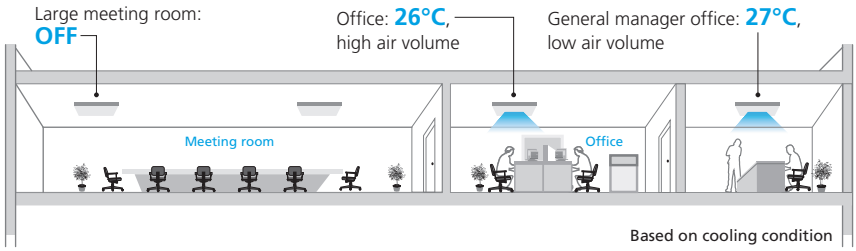
*System diagram

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

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

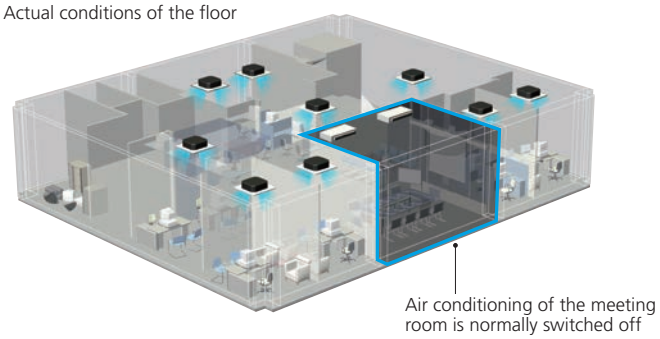
Independent control provides greater comfort and convenience.

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.

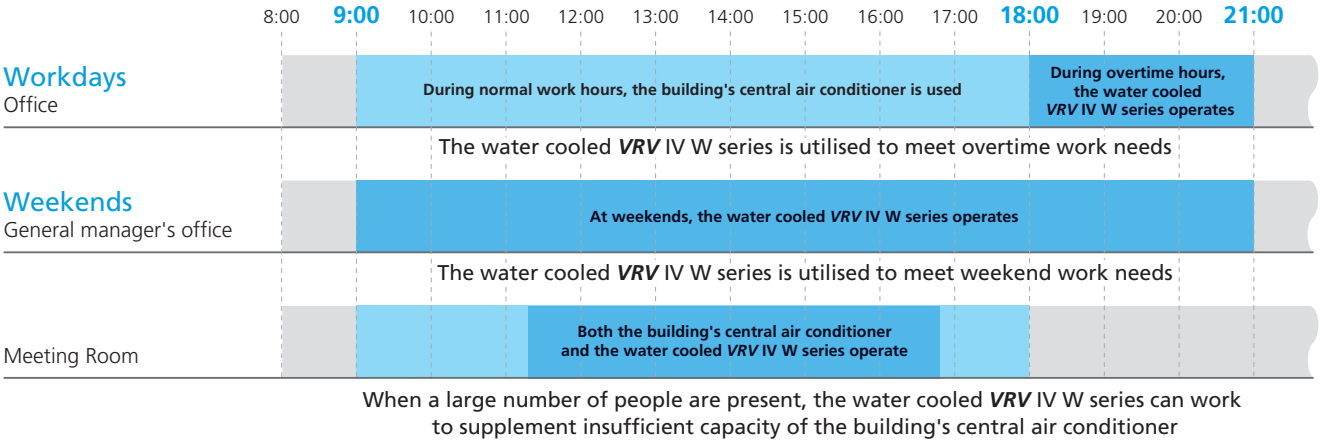


Flexibly satisfies conditions for working overtime and times of insufficient load

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

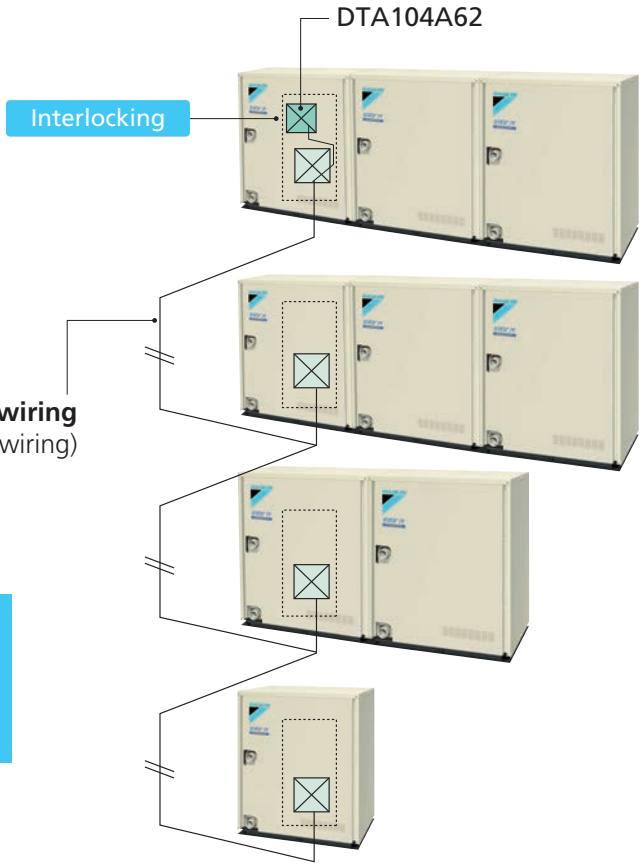
Footprint : **0.43** m^2

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

Enhanced usability

Centralised interlocking function

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



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

Enhanced lineup

VRV IV W SERIES

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

6 class, 8 class, 10 class, 12 class

6, 8, 10, 12 class

RWEYQ6TYM RWEYQ10TYM
RWEYQ8TYM RWEYQ12TYM

14, 16, 18, 20, 22, 24 class

RWEYQ14TYM RWEYQ20TYM
RWEYQ16TYM RWEYQ22TYM
RWEYQ18TYM RWEYQ24TYM

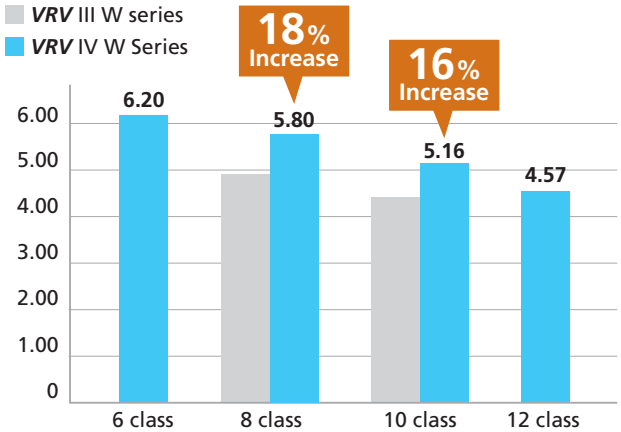
26, 28, 30, 32, 34, 36 class

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.

Variable Refrigerant Temperature

Maximum Comfort via Simultaneous Cooling and Heating

Flexibility by simultaneous cooling and heating operation

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.**

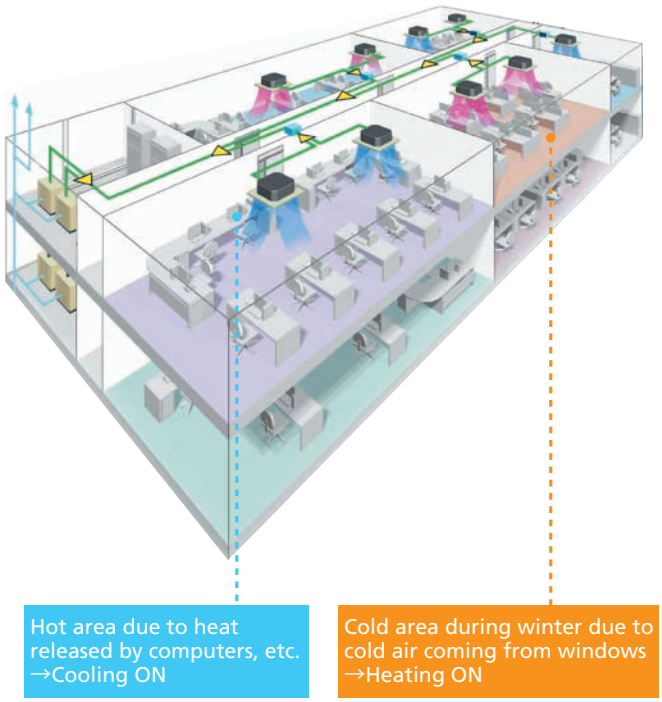
Need

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

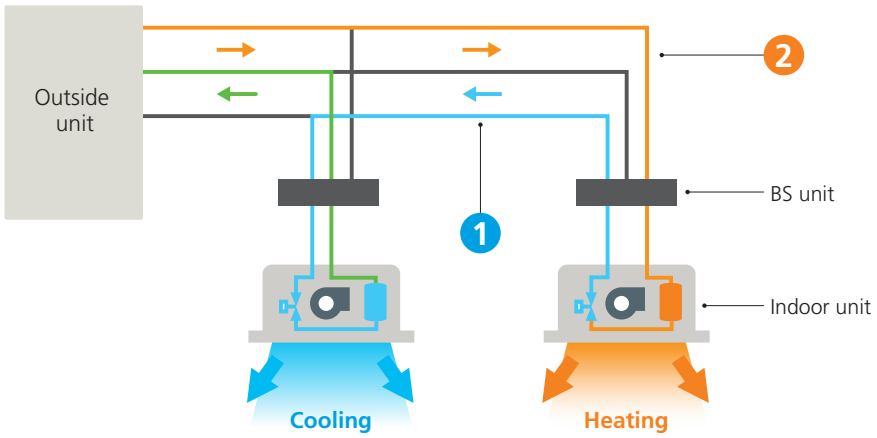
Solution

- Heat recovery system enables flexibility by simultaneous cooling and heating operation just using one ***VRV*** IV W system.
- Improves energy efficiency by recycling waste heat.

Heat recovery system offers simultaneous cooling and heating operation on the same floor!



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)

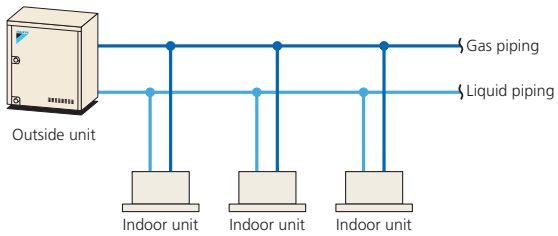
See page 163 - 166

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

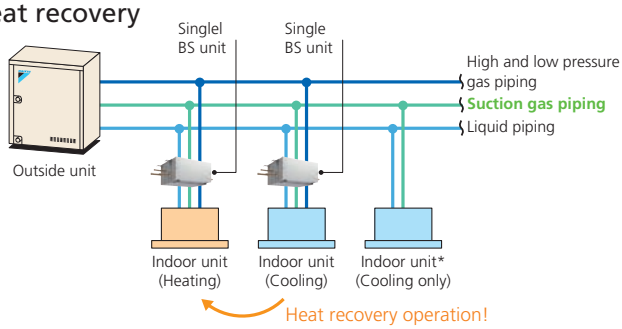
Single BS unit

Multi BS unit

Heat pump

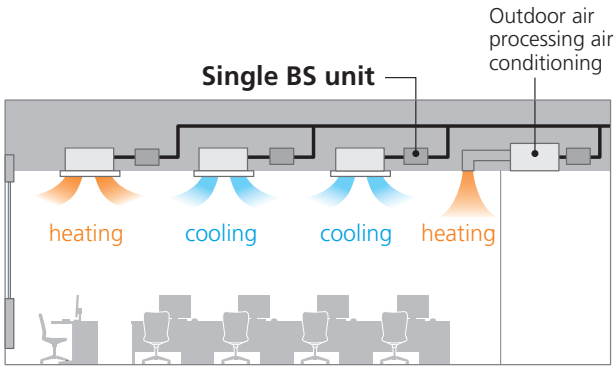


Heat recovery



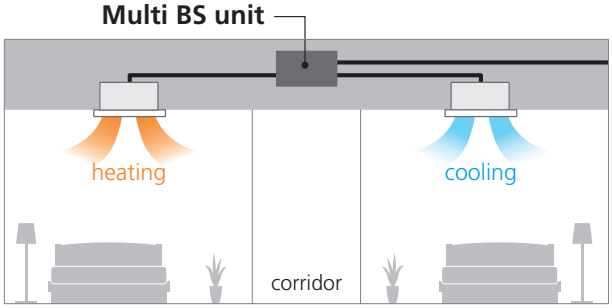
* For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outside units.

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

Flexible System Design

Long piping length

Installation for *VRV* indoor units only

Actual piping length

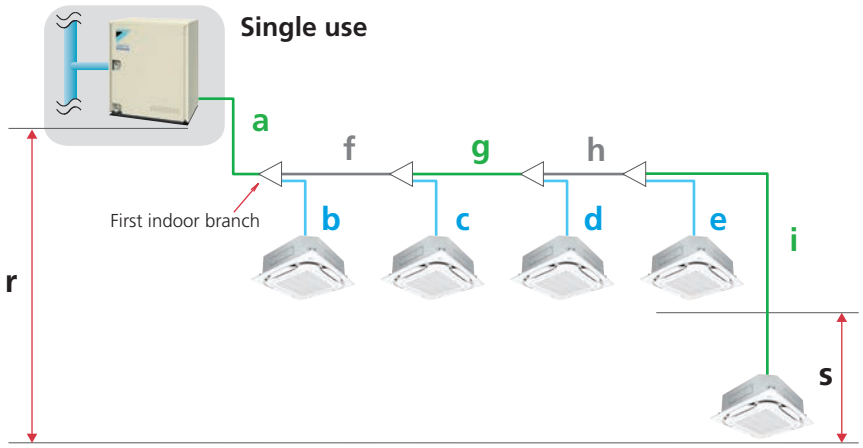
Max. 120 m

Equivalent piping length

Max. 140 m

Total piping length

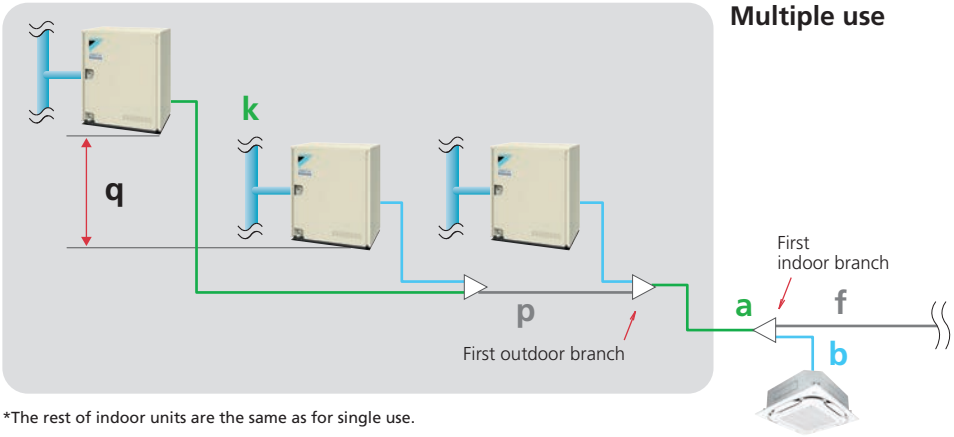
Max. 300 m



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

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

*1 No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. 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.



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

Installation for residential indoor units only

Actual piping length

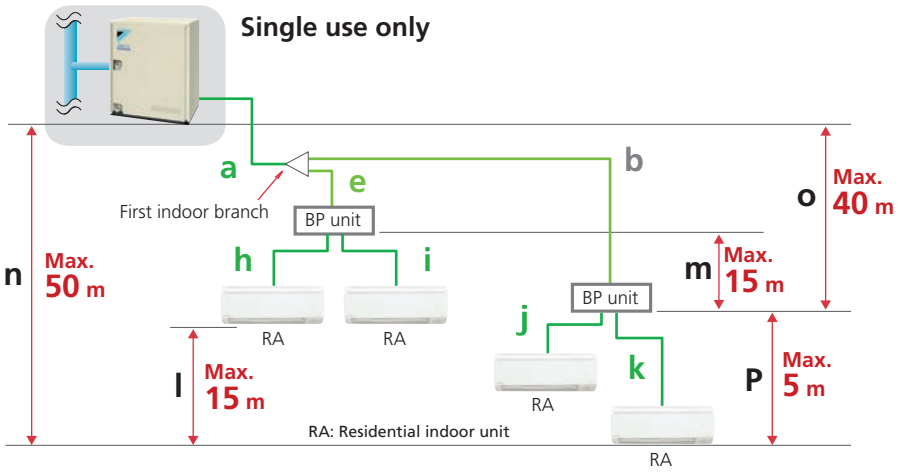
Max. 100 m

Equivalent piping length

Max. 120 m

Total piping length

Max. 200 m



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

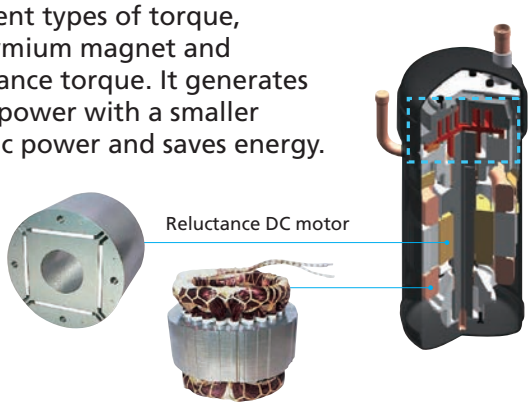
			Actual piping length	Example	Equivalent Example piping length
Max. allowable piping length	Refrigerant piping length		100 m	a+b+k	120 m
	Total piping length		200 m	a+b+e+h+j+k	—
	Between the first indoor branch and the farthest indoor unit		50 m*1	b+k	—
Max. and min. allowable piping length	Between BP unit and indoor unit	If indoor unit capacity index < 60	2 m - 15 m	h,i,j,k	—
		If indoor unit capacity index is 60	2 m - 12 m	h,i,j,k	—
		If indoor unit capacity index is 71	2 m - 8 m	h,i,j,k	—
Max. allowable height difference	Between the outside unit and the indoor unit	If the outside unit is above.	50 m	n	—
		If the outside unit is below.	40 m	n	—
	Between the indoor units		15 m	l	—
	Between the outside unit and the BP unit		40 m	o	—
	Between BP units		15 m	m	—
	Between the BP unit and the indoor unit		5 m	p	—

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

Advanced Technologies

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.

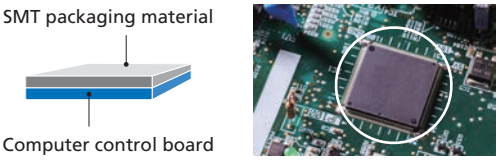


SMT* packaging technology

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

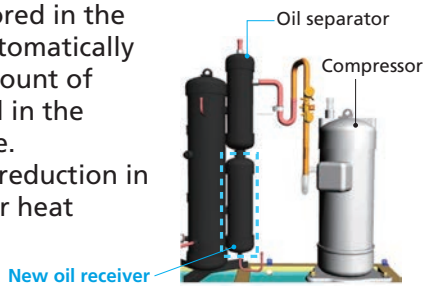
*SMT: Surface mounted technology

Computer control board surface adopting SMT packaging technology



Minimize performance degradation from refrigeration oil in all stages of operation

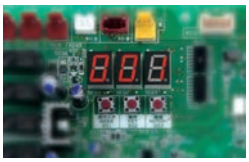
Surplus oil is stored in the receiver and automatically controls the amount of refrigeration oil in the refrigerant cycle.
This prevents a reduction in performance for heat exchanger.



Function of information display by luminous digital tube

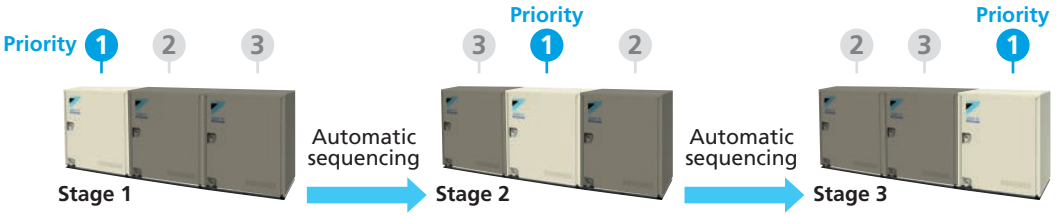
VRV IV W series utilises a bright 7-segment digital display to convey operational status and facilitate simple installation and after-sales service.

7-segment digital display



Displays system operation information directly

Automatic sequencing operation



Auto-restart technology

Power interruption during normal operation	→	Keep a record of the operating mode adopted	power supply recovers → Restore itself back into the recorded operating status

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	class	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
	kW	16.0	22.4	28.0	33.5	38.4	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

For connection of only *VRV* indoor units

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

*1. An outside unit multi connection piping kit (option) is necessary for multiple connections of 14 class systems and above.
*2. Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outside units.

For connection of only residential indoor units

Model name*1	kW	class	Capacity index	Total capacity index of connectable indoor units*2			Maximum number of connectable indoor units
				Combination (%)*2			
				80%*2	100%	130%	
RWEYQ6T	16.0	6	150	120	150	195	9
RWEYQ8T	22.4	8	200	160	200	260	13
RWEYQ10T	28.0	10	250	200	250	325	16
RWEYQ12T	33.5	12	300	240	300	390	19

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

Indoor Unit Lineup

Enhanced range of choices

VRV indoor units

● New lineup

Category	Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
			Capacity Range (kW)	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	16.2	18	20	22.4	28
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	New **FXFTQ-AVM**			●	●	●	●	●		●	●	●	●					
	Round Flow Cassette with Sensing	FXFSQ-AVM			●	●	●	●	●		●	●	●	●					
	Compact Multi Flow Cassette	New **FXZQ-BVM**		●	●	●	●	●											
	Double Flow Cassette	New **FXCQ-BVM**		●	●	●	●	●	●		●		●						
	Single Flow Cassette	FXEQ-AV36		●	●	●	●	●	●										
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE	 (700 mm width type)	●	●	●													
		FXDQ-NDVE	 (900/1,100 mm width type)				●	●	●										
	Slim Duct (Compact)	FXDQ-TV1C(A)		●	●	●	●	●	●										
		FXDQ-SPV1		●	●	●	●	●	●										
	Middle Static Pressure Duct	FXSQ-PAVE		●	●	●	●	●	●		●	●	●	●					
		FXDYQ-MAV1									●	●	●		●				
	Middle-High Static Pressure Duct	FXMQ-PAVE		●	●	●	●	●	●		●	●	●	●					
	High Static Pressure Duct	FXMQ-PV1A														●	●	●	●
	Outdoor-Air Processing Unit	New **FXMQ-AFVM**									●			●				●	●
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
	Ceiling Suspended	FXHQ-MAVE				●		●	●		●	●							
		New **FXHQ-BVM**											●	●					
Wall Mounted		FXAQ-AVM		●	●	●	●	●	●										
Floor Standing	Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
	Concealed Floor Standing (Duct Connection)	FXNQ-A2VEB		●	●	●	●	●	●										
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															

Residential indoor units with connection to BP units

Type	Model Name		20	25	35	50	60	71
		Rated Capacity (kW)	2.0	2.5	3.5	5.0	6.0	7.1
		Capacity Index	20	25	35	50	60	71
Compact Multi Flow Cassette	FFQ-BV1B			●	●	●	●	
Slim Ceiling Concealed Duct	FDXS-CVMA	 (900/1,100 mm width type)		●	●	●	●	
Wall Mounted	FTXS-KVMA		●	●	●			
	FTXS-KAVMA					●	●	●

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

*Refer to page 108 for the maximum number of connectable indoor units.

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	ϕ9.5 (Flare)			ϕ12.7 (Flare)
	Suction gas *1		ϕ19.1 (Brazing)		ϕ22.2 (Brazing)	
	High and low pressure gas		ϕ15.9*2, ϕ19.1*3 (Brazing)		ϕ19.1*2, ϕ22.2*3 (Brazing)	
Water piping connections	Water inlet		PT1 1/4B intenal thread			
	Water outlet		PT1 1/4B intenal thread			
	Drain outlet		PS1/2B intenal 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	ϕ19.1 (Flare)		
	Suction gas *1		ϕ34.9 (Brazing)		
	High and low pressure gas		ϕ28.6*2, ϕ34.9*3 (Brazing)		
Water piping connections	Water inlet		(PT1 1/4B) × 3 intenal thread		
	Water outlet		(PT1 1/4B) × 3 intenal thread		
	Drain outlet		(PS1/2B) × 3 intenal thread		
Machine weight (Operating weight)		kg	146 × 2 + 147 (148 × 2 + 149)	146 + 147 × 2 (148 + 149 × 2)	147 × 3 (149 × 3)
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 / Heat Recovery

	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 intenal thread					
	(PT1 1/4B) × 2 intenal thread					
	(PS1/2B) × 2 intenal 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 intenal thread		
	(PT1 1/4B) × 3 intenal thread		
	(PS1/2B) × 3 intenal 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 class / hour, 0.58 kW / 10 - 12 class / hour.
4. Connectable to closed type cooling tower only.
   *1: In the case of heat pump system, suction gas pipe is not used.
   *2: In the case of heat recovery system.
   *3: In the case of heat pump system.
- Be sure to refer to the Engineering Data Book for facility design.

VRV WS SERIES

Water Cooled System Suitable for Residential Houses

Heat Pump
3class (8 kW) – 6class (16 kW)

RWXYQ3-6AV1

Easy Installation & Energy Saving

Compact and lightweight

Footprint : **0.43** m²

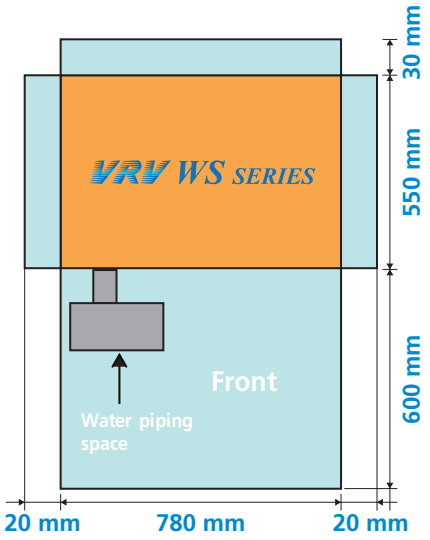
Product Weight : (For 3 class) **90** kg

Product Weight : (For 4/5 class) **94** kg

Product Weight : (For 6 class) **99** kg

Service space (Single installation)

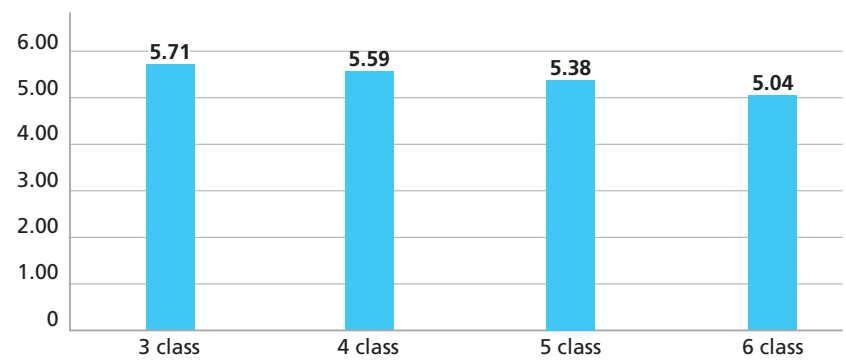
Service access from the front with minimal space required at rear of the condenser (30 mm)



Energy saving

Higher Energy Efficiency Ratio (EER)

Cooling Operation EER

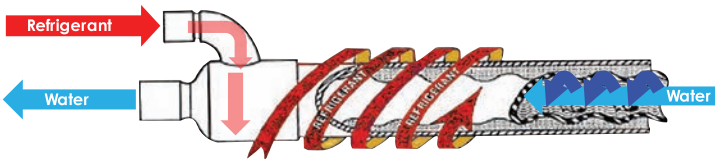


*Cooling : Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C, Equivalent piping length: 7.5 m, Height difference: 0 m.

Advanced Technologies

Tube-in-Tube Type Heat Exchanger

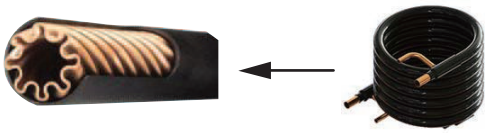
Refrigerant lines spiraling around the water circuit in a counter flow design delivers superior heat exchange.



Tube in tube structure for simple installation and maintenance

Lower risk of blockage

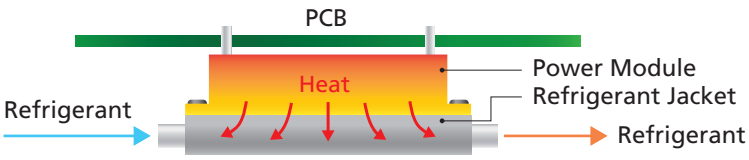
Delivers optimal performance



Better tolerance for water quality!

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

Refrigerant cooling technology



The main heat generating parts (inverter power module) in the electric component is adopted to reduce the size of the refrigerant cooling

Control board failure ratio at stable operation is reduced.

This enables

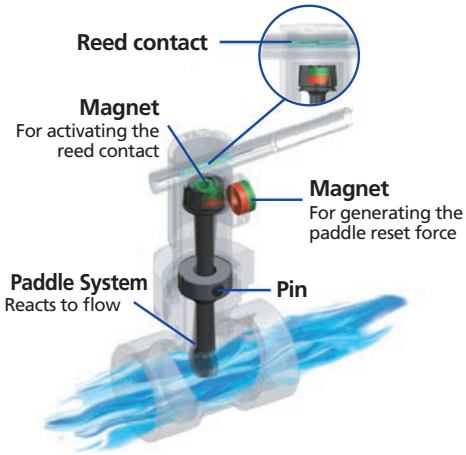
- Suitability for high ambient temperatures
- Miniaturization of electronic components

Easy maintenance

The electrical components and the major components are designed in a way that they can be accessed from front for maintenance.

Built in water flow switch

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



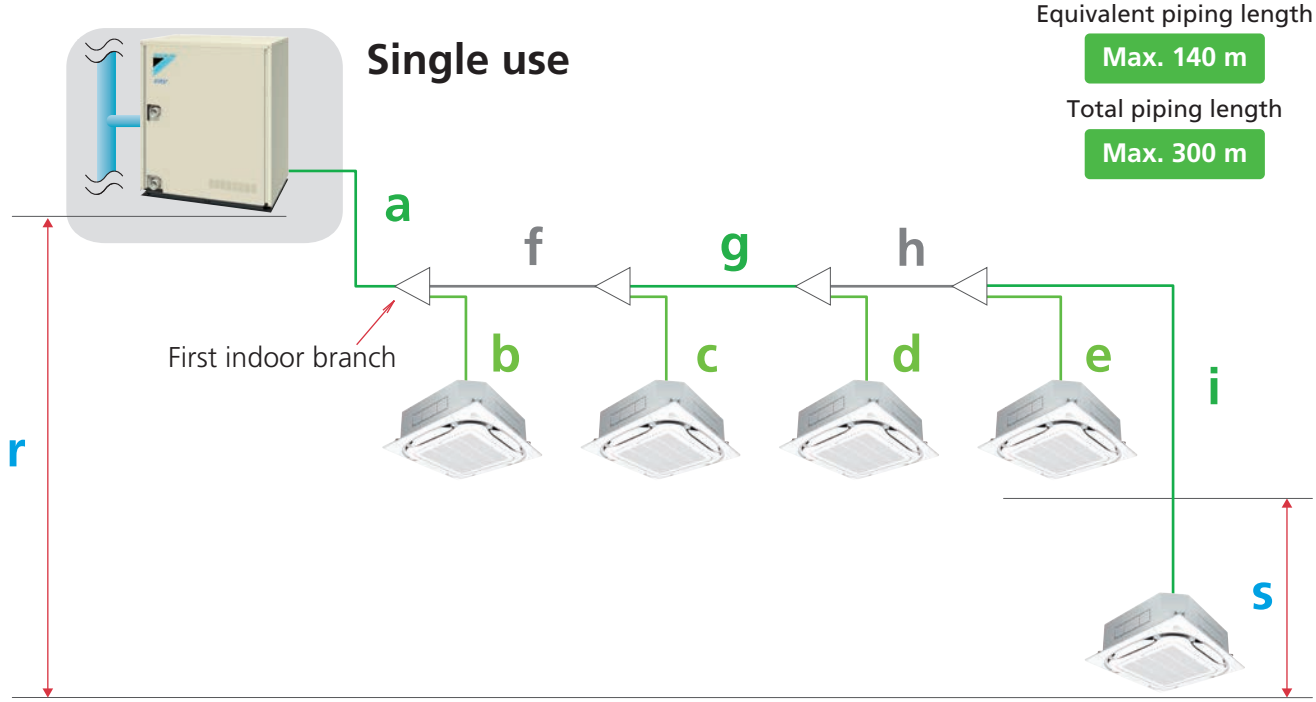
Standard water strainer

A standard water strainer is equipped so it reduces the additional cost and installation time at field.

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	40 m	f+g+h+i	—
Maximum allowable height difference	Between the indoor units	15 m	s	—
	Between the outside units and the indoor units	30 m	r	—

Indoor Unit Lineup

Enhanced range of choices

New lineup

Category	Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180
			Capacity Range (kW)	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	16.2	18	20
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	New **FXFTQ-AVM**			●	●	●	●	●		●	●	●	●			
	Round Flow Cassette with Sensing	FXFSQ-AVM			○	○	○	○	○		○	○	○	○			
	Compact Multi Flow Cassette	New **FXZQ-BVM**		●	●	●	●	●									
	Double Flow Cassette	New **FXCQ-BVM**		●	●	●	●	●	●		●		●				
	Single Flow Cassette	FXEQ-AV36		○	○	○	○	○	○								
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE	 (700 mm width type)	○	○	○											
		FXDQ-NDVE	 (900/1,100 mm width type)				○	○	○								
	Slim Duct (Compact)	FXDQ-TV1C(A)		○	○	○	○	○	○								
		FXDQ-SPV1		○	○	○	○	○	○								
	Middle Static Pressure Duct	FXSQ-PAVE		○	○	○	○	○	○		○	○	○	○			
		FXDYQ-MAV1									○	○	○		○		
	Middle-High Static Pressure Duct	FXMQ-PAVE		○	○	○	○	○	○		○	○	○	○			
	High Static Pressure Duct	FXMQ-PV1A														●	●
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		○					
	Ceiling Suspended	FXHQ-MAVE				○		○	○		○	○					
		New **FXHQ-BVM**											●	●			
Wall Mounted		FXAQ-AVM		○	○	○	○	○	○								
Floor Standing	Floor Standing	FXLQ-MAVE		○	○	○	○	○	○								
	Concealed Floor Standing (Duct Connection)	FXNQ-A2VEB		○	○	○	○	○	○								

Outside Units

VRV WS Series

Specifications

Heat Pump

MODEL			RWXYQ3AV1	RWXYQ4AV1	RWXYQ5AV1	RWXYQ6AV1
Power supply			1-Phase, 220-240 V, 50 Hz			
Cooling capacity		Btu/h	27,300	38,200	47,800	54,600
		kW	8.0	11.2	14.0	16.0
Heating capacity		Btu/h	30,700	42,700	54,600	61,400
		kW	9.0	12.5	16.0	18.0
Power consumption	Cooling	kW	1.40	2.00	2.60	3.17
	Heating	kW	1.60	2.10	2.60	2.80
Casing colour			Ivory white (5Y7.5/1)			
Dimensions (H×W×D)		mm	1,000×780×550			
Compressor	Type		Hermetically sealed swing type			
	Motor output	kW	1.92			
Refrigerant piping connections	Liquid	mm	ϕ9.5 (Flare)			
	Suction gas		ϕ15.9 (Flare)			
Water piping connections	Water inlet		PT1B external thread			PT1 1/4B external thread
	Water outlet		PT1B external thread			PT1 1/4B external thread
	Drain outlet		PS1/2B internal thread			
Machine weight		kg	90	94		99
Sound level		dB(A)	48	50		
Sound power		dB(A)	66	68		
Operation range (Inlet water temp.)		°C	15 to 45 (Range for continuous operation)			
Capacity control		%	20-100			
Refrigerant	Type		R-410A			
	Charge	kg	2.2	2.4		2.7
Rated water flow (Range of water flow)		L/min	30 (15 to 45)	40 (20 to 60)	50 (25 to 75)	57 (28.5 to 85.5)

Note :1. Specifications are based on the following conditions ;
- Cooling : Indoor temp. : 27°CDB, 19°CWB / inlet water temp. :30°C, Equivalent piping length : 7.5 m, 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: 0.21 kW/3 class /hour, 0.28 kW/4 class /hour, 0.31 kW/5 class /hour, 0.35 kW/6 class /hour

Outside Unit Combinations

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

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

INDOOR UNIT LINEUP

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

VRV indoor units

Round Flow Cassette with Sensing and Streamer Type

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

Page 123

New FXFTQ-AVM

Round Flow Cassette with Sensing Type

Comfort and energy savings by sensing functions

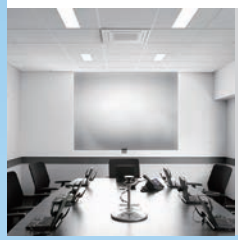
Page 129

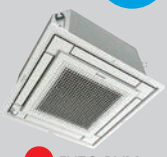
FXFSQ-AVM

Compact Multi Flow Cassette Type

Quiet, compact, and designed for user comfort

Page 135





New FXZQ-BVM

Double Flow Cassette Type

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

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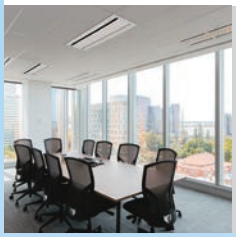
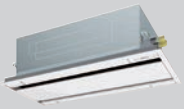


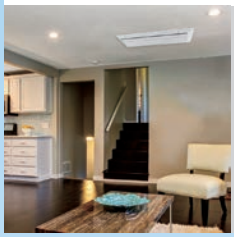


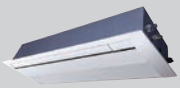
New FXCQ-BVM

Single Flow Cassette Type

Slim design for flexible installation

Page 139



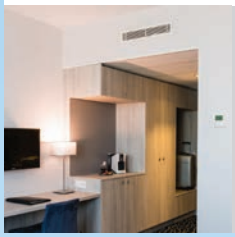


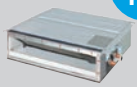
FXEQ-AV36

Slim Duct (Standard) Type

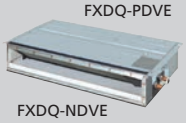
Slim design, quietness and ideal for drop-ceilings

Page 141





FXDQ-PDVE



FXDQ-NDVE

Slim Duct (Compact) Type

Slim and compact design for easy and flexible installation

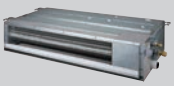
Page 143

FXDQ-TV1C(A)

Slim Duct (Compact) Type

Slim and compact design for easy and flexible installation

Page 145

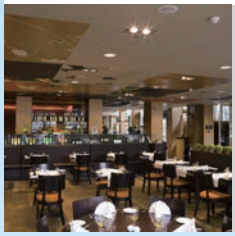


FXDQ-SPV1

Middle Static Pressure Duct Type

Middle static pressure and slim design allow flexible installations.

Page 147

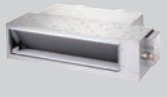


FXSQ-PAVE

Middle Static Pressure Duct Type

Middle static pressure and slim design allow flexible installations.

Page 149



FXDYQ-MAV1

Middle-High Static Pressure Duct Type

Middle and high static pressure allows for flexible duct design.

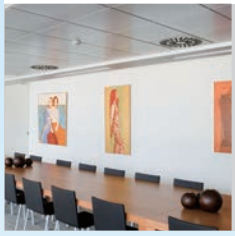
Page 151

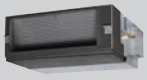
FXMQ-PAVE

High Static Pressure Duct Type

High static pressure allows for flexible duct design.

Page 153





FXMQ-PV1A

Outdoor-Air Processing Unit

Improve IAQ with fresh air ventilation and precise room temperature control

Page 175

New FXMQ-AFVM

4-Way Flow Ceiling Suspended Type

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

Page 155

FXUQ-AVEB

Ceiling Suspended Type

Slim body with quiet and wide airflow.

Page 157

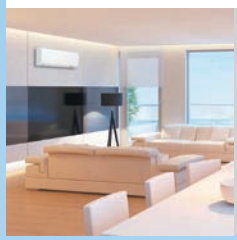
FXHQ-MAVE

New FXHQ-BVM

Wall Mounted Type

Stylish flat panel design harmonised with your interior décor.

Page 159



FXAQ-AVM

Floor Standing Type

Suitable for perimeter zone air conditioning

Page 161

FXLQ-MAVE

Concealed Floor Standing (Duct Connection) Type

Designed to be concealed in the wall

Page 162

FXNQ-A2VEB

Air Handling Unit

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

Page 171

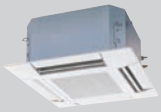
AHUR

Residential indoor units with connection to BP units

Compact Multi Flow Cassette Type

Quiet, compact, and designed for user comfort

Page 167

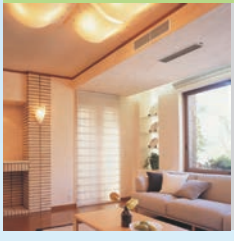


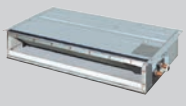
FFQ-BV1B

Slim Ceiling Concealed Duct Type

Slim and smooth design suits your shallow ceiling

Page 168



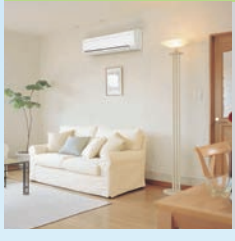


FDXS-CVMA

Wall Mounted Type

Stylish flat panel harmonises with your interior décor

Page 169



FTXS-KVMA

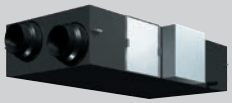
FTXS-KAVMA

Air treatment equipment

Heat Reclaim Ventilator with DX-Coil

Air quality improvement by introducing fresh outdoor air in the room

Page 179



VKM-GCVE

Heat Reclaim Ventilator

Daikin VAM series ensures fresh air intake and energy savings

Page 183

VAM-HVE

Round Flow Cassette with Sensing and Streamer Type

New **FXFTQ-A**

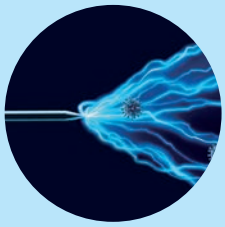
Comfort, energy savings by sensing functions and enhanced maximum efficiency in cleaning

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.

FXFTQ-AVM

STREAMER Technology



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

New

Streamer filter clean unit built-in inside the indoor unit

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.)

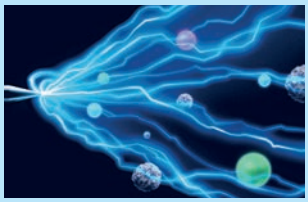
Stylish Remote Controller BRC1H63W/K

Streamer ON/OFF setting and status icon are available.

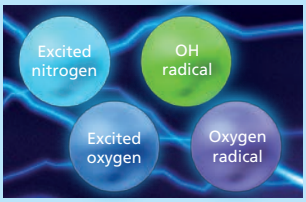
Streamer Technology

Equipped with decomposition technology, Streamer is a type of plasma discharge that eliminates allergens such as pollen, mould, and mites, as well as, deodorises anti-bacterial dust filters so you can breathe with ease.

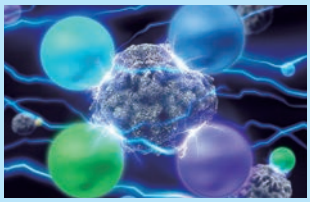
Mechanism of decomposition by Streamer



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.

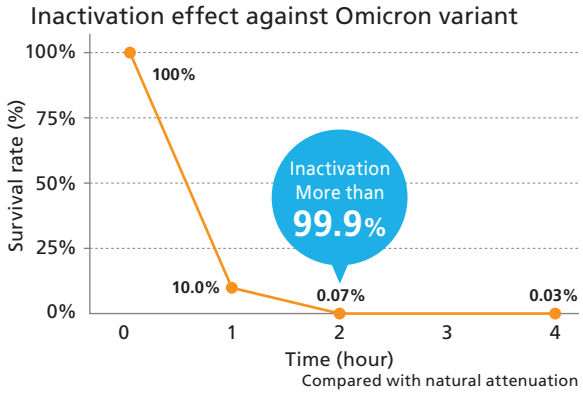


The decomposing elements provide decomposition power.

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.



Compared with natural attenuation

Test Method

DAIKIN Streamer Research Institute

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

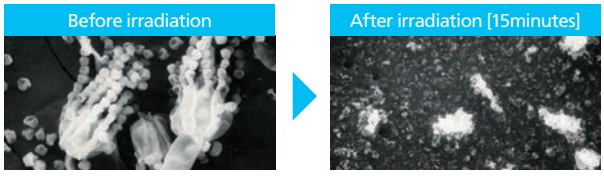
Professor Tatsuo Shioda, Department of Virus Infections, Research Institute for Microbial Diseases, Osaka University

*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.

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 dischage 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

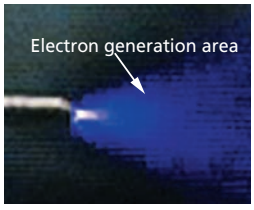
Winner of the 2005 Progress Award, Institute of Electrostatics Japan

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

105 Patents Acquired

Patents acquired relating to Streamer technology

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



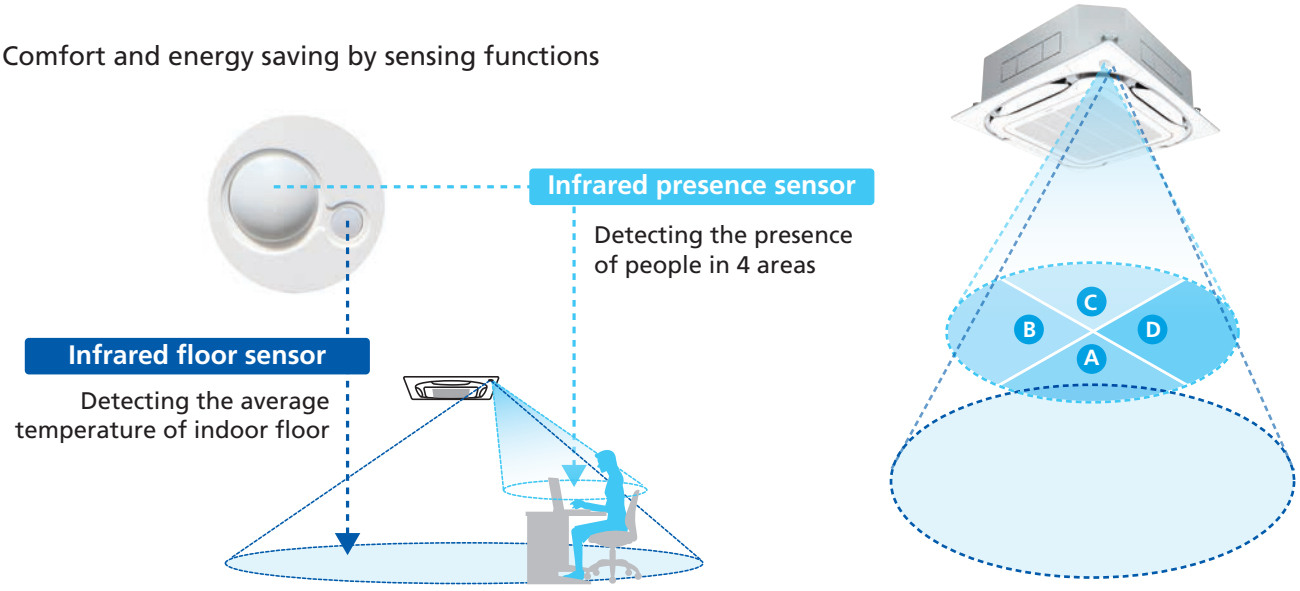
Note:
*Comparison of oxidation decomposition.
This does not mean temperature will become high.

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



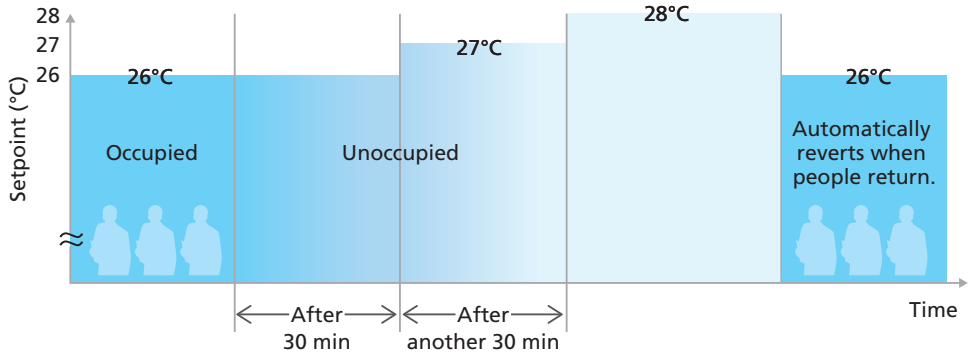
Sensing sensor mode **Energy saving**

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

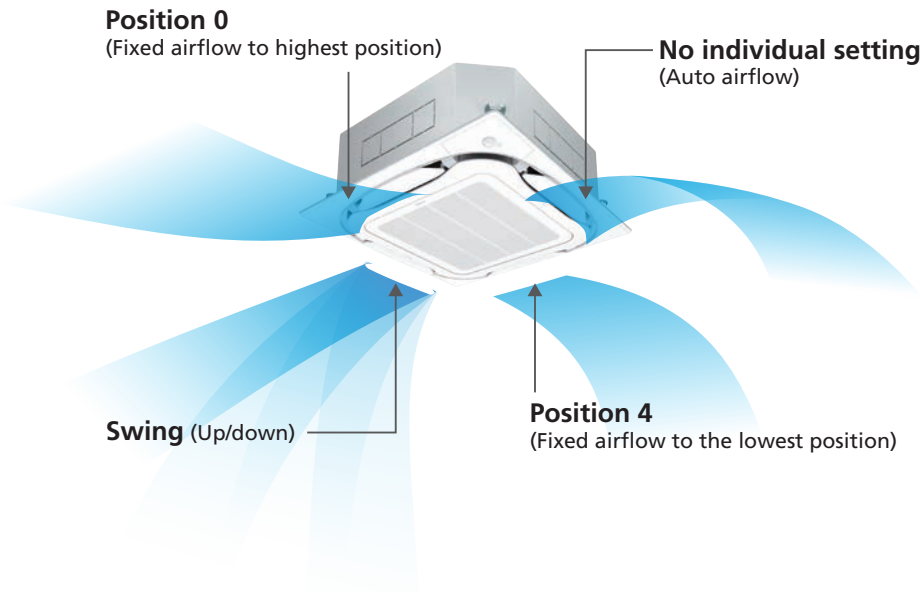
Easy setting is possible with a wired remote controller

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

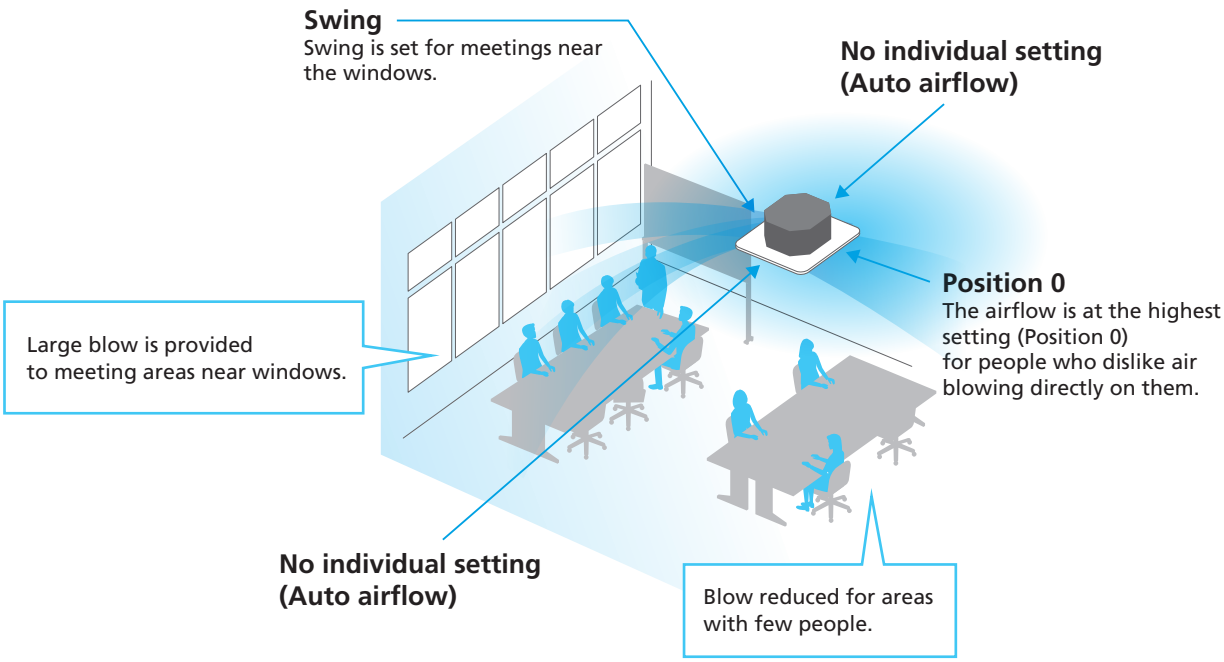
Individual airflow settings

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

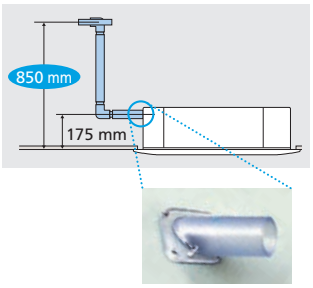
Other functions

Quick and easy installation

Installable in tight ceiling spaces

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

* For FXFTQ25-80A models.



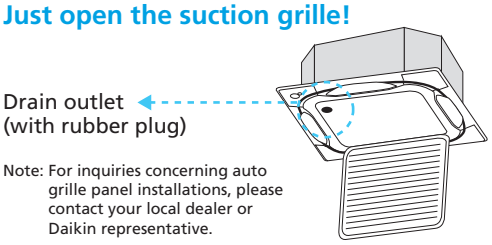
Drain pump is equipped as standard accessory with 850 mm lift.

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!



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 218

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

BAF552A160

Decoration Panel (Option)

Standard panel with sensing

Standard panel with sensing
BYCQ125EEF (Fresh White)

Standard panel with sensing
BYCQ125EEK (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)

Close to ideal styling
New designer panel

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.

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			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)		ℓ/s	217/208/192/183/167		283/225/208/200/183	383/342/317/242/183	392/350/333/267/225	408/367/342/333/250	558/508/450/392/350	575/525/475/425/383	592/542/492/442/383
		m^3/min	13/12.5/11.5/11/10		17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
Sound level (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	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.
- 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(H×W×D)	mm	50×950×950
	Weight	kg	5.5
	Model		BYCQ125EEK (Black)
	Dimensions(H×W×D)	mm	50×950×950
	Weight	kg	5.5
Designer panel	Model		BYCQ125EAPF* (Fresh White)
	Dimensions(H×W×D)	mm	97×950×950
	Weight	kg	6.5
Auto grille panel	Model		BYCQ125EBSF* (Fresh White)
	Dimensions(H×W×D)	mm	105×950×950
	Weight	kg	8

*These panels do not contain the sensing function

Function List

Wired remote controller	BRC1H63W(K)
Streamer function unit	○
Dual sensors *1	○
Auto airflow function (Draft prevention) *1	○
Sensing sensor low mode *1	○
Sensing sensor stop mode *1	○
Individual airflow direction control	○
Switchable 5 step fan speed	○
Auto airflow rate	○
Auto swing	○
High ceiling application	○

*1. Applicable when sensing panel is installed.

Round Flow Cassette with Sensing Type

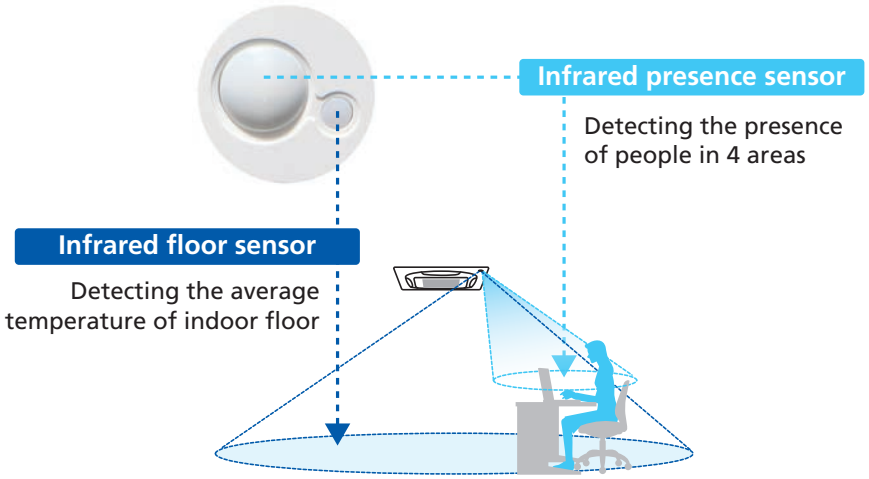
FXFSQ-A

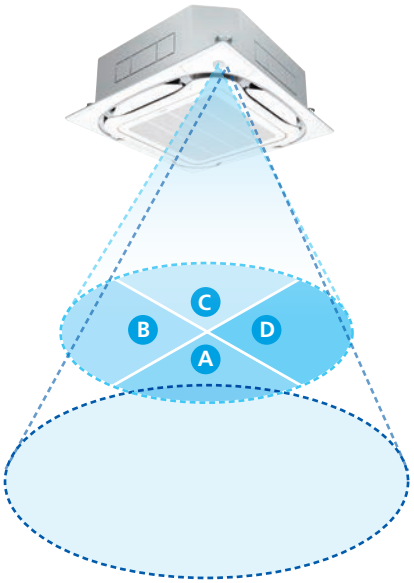
Comfort and energy saving by sensing functions

Daikin advanced sensing technology dual sensors

Round flow with sensing

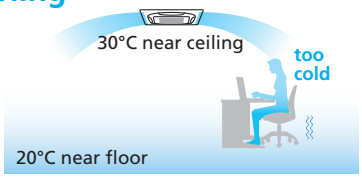
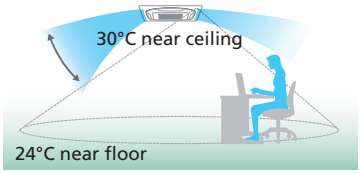
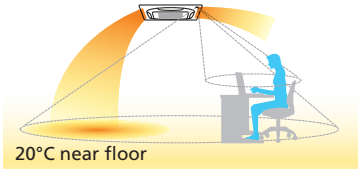
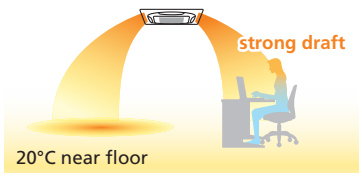
Comfort and energy saving by sensing functions





Comfort and energy saving preventing over cooling/heating **Comfort**

Sensors detecting human presence and temperatures near the floor provide comfortable spaces without uneven temperatures.

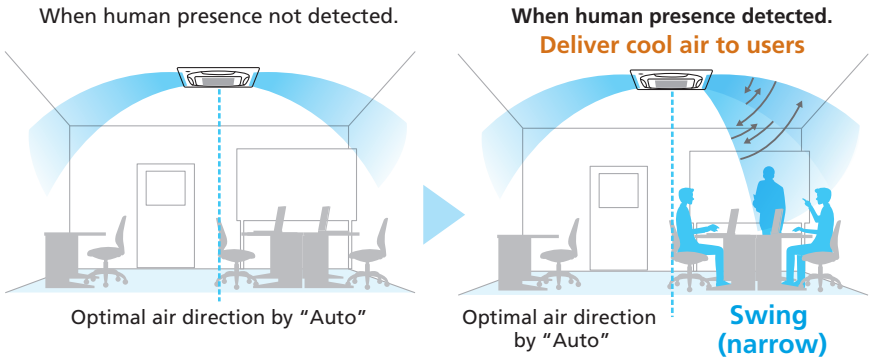
Without sensing function		With sensing function	
Cooling		Even when room temperature is detected at 30°C, the floor temperature may be as low as 20°C, causing the feet area to be cold.		To prevent an excessive drop in temperature, room temperature is calculated at 27°C when people are in the vicinity.
Heating		Uneven temperatures enable minimal drafts, but the feet area becomes cold.		The sensing function controls airflow to reduce drafts and ensure the feet area is warm.
		When you try to eliminate uneven temperatures, drafts become strong.		

Auto airflow function Comfort

*When human is not detected for 5 minutes, the unit automatically returns to controlling the flaps for an unoccupied room.

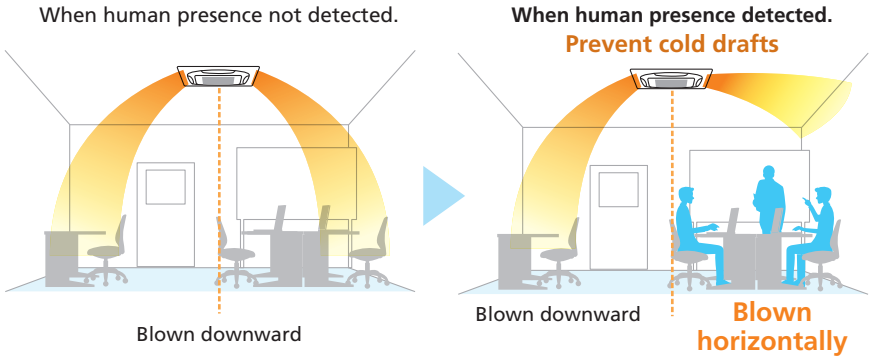
Direct Airflow (default: OFF)

Cooling Dry



Draft prevention function (default: OFF)

Heating



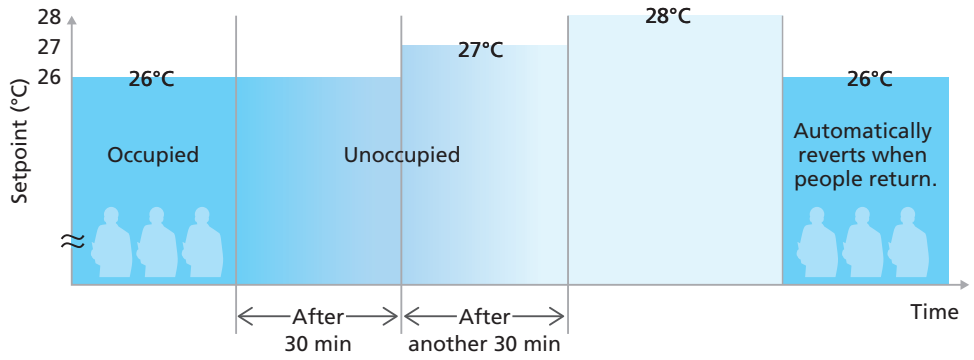
Sensing sensor mode Energy saving

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.

Round Flow Cassette with Sensing Type

Circulation airflow*1

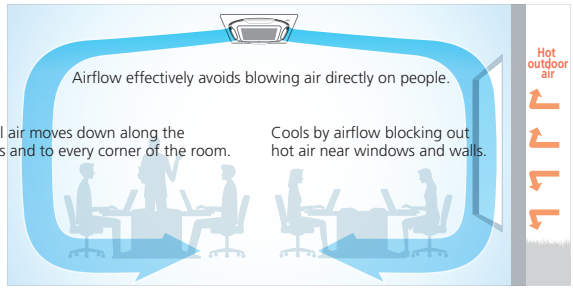
Configurations of circulation airflow

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

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

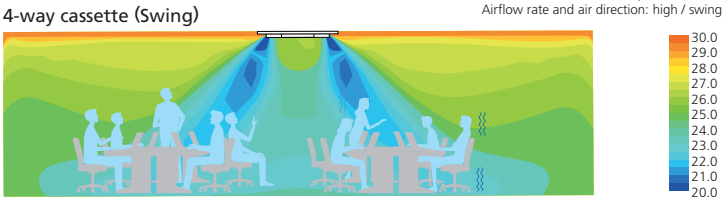
Cooling

During 2-way horizontal flow



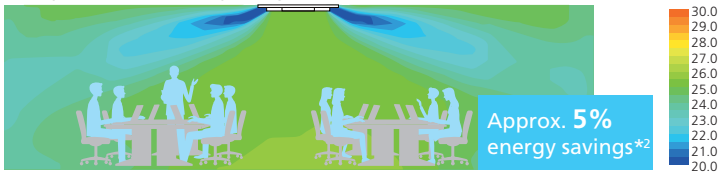
Comfort without cold air pockets at floor level.

4-way cassette (Swing)



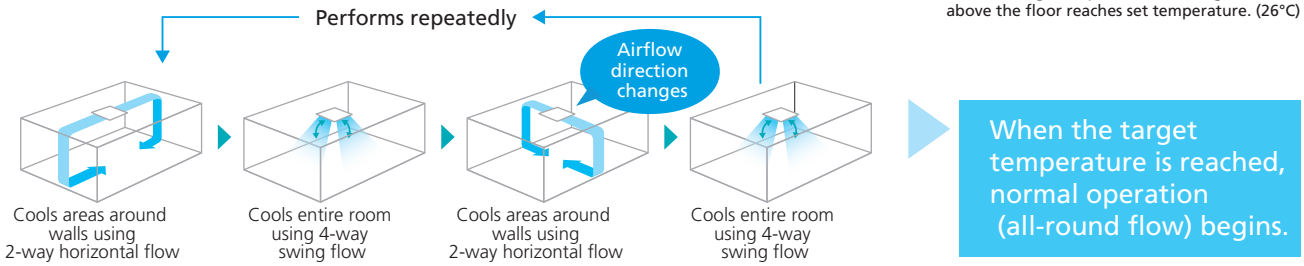
reduce uneven temperatures

Circulation Airflow
(2-way horizontal + 4-way swing)



*2Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor reaches set temperature. (26°C)

Operation (at start)



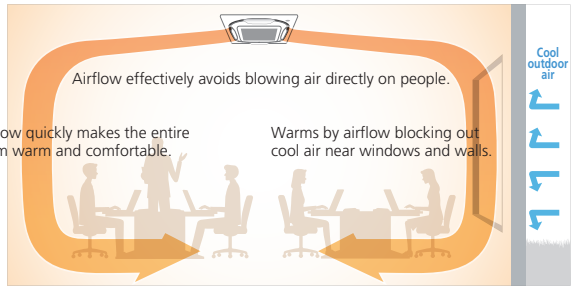
When the target temperature is reached, normal operation (all-round flow) begins.

Circulation airflow warms the entire room starting from your feet.

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

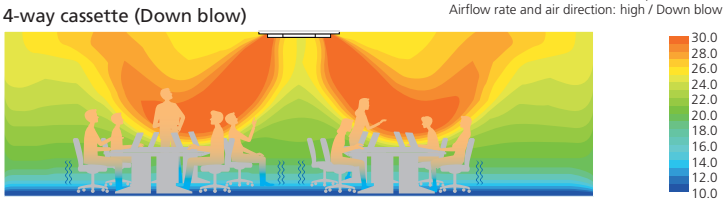
Heating

During 2-way horizontal flow



Warmth reliably reaches feet.

4-way cassette (Down blow)

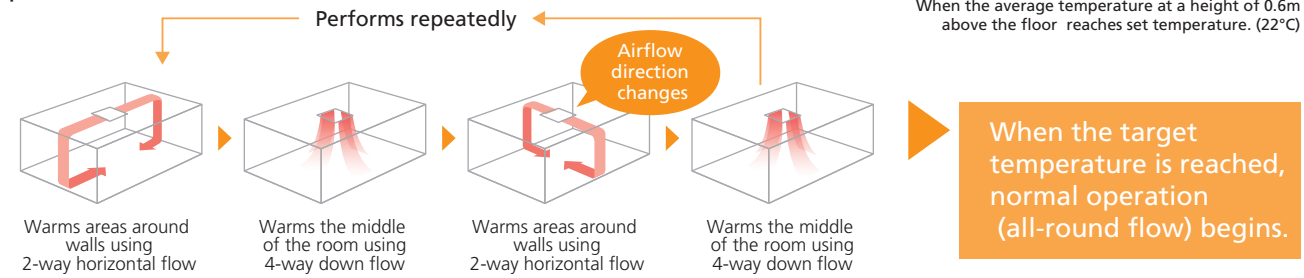


reduce uneven temperatures

Circulation Airflow
(2-way horizontal + 4-way swing)

*3Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor reaches set temperature. (22°C)

Operation (at start)



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

*1 Conditions apply for the circulation airflow function. Please contact your local sales office for details.

Individual airflow direction control

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

Comfortable air conditioning for all room layouts and conditions

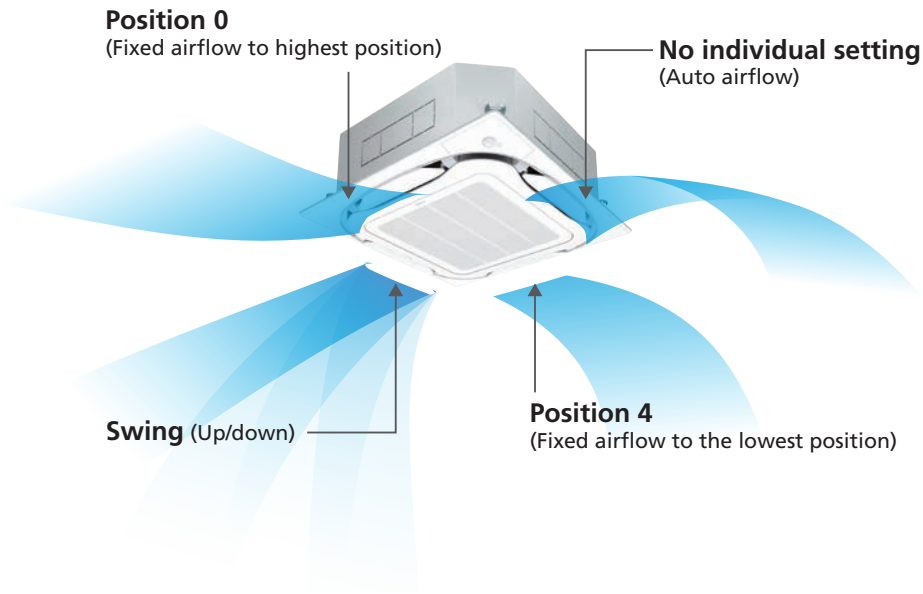
Easy setting is possible with a wired remote controller

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

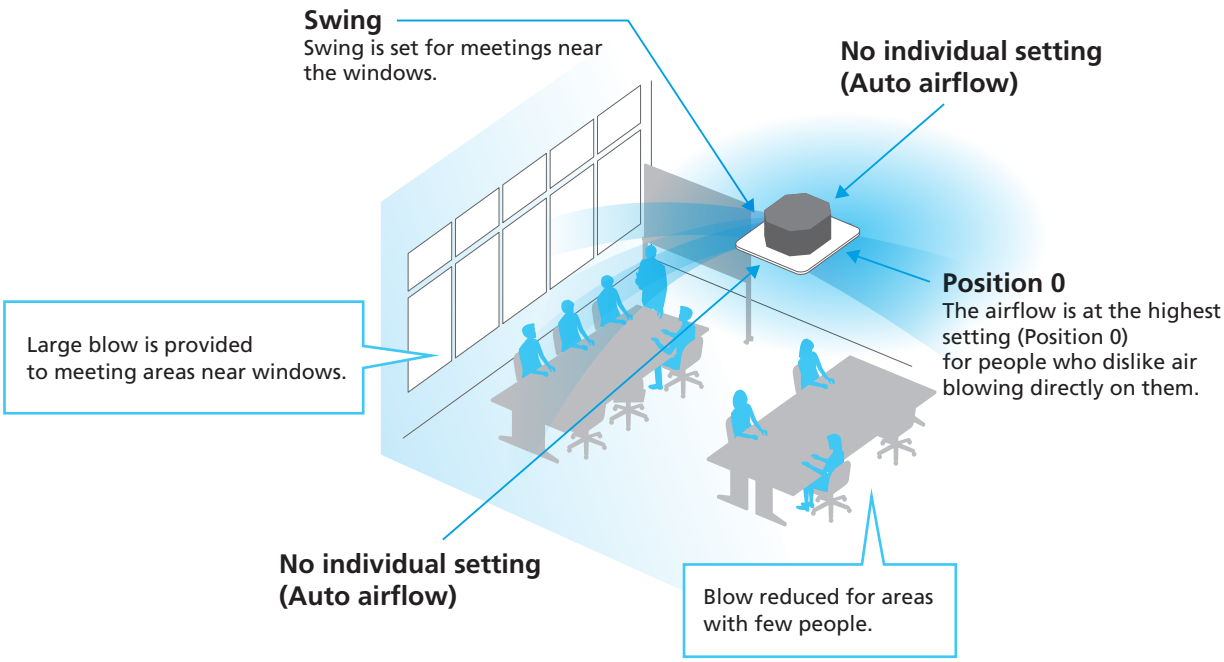
Individual airflow settings

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 with Sensing 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

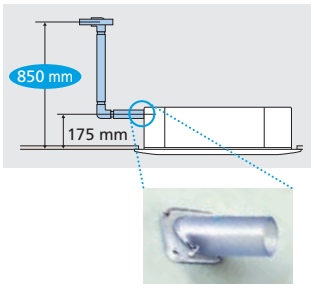
Even in spaces with high ceilings, a comfortable airflow is carried down to the floor level.

Quick and easy installation

Installable in tight ceiling spaces

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

* For FXFSQ25-80A models.



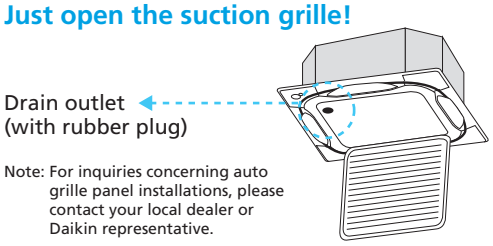
Drain pump is equipped as standard accessory with 850 mm lift.

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!



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 218

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

BAF552A160

Decoration Panel (Option)

Standard panel with sensing

Standard panel with sensing
BYCQ125EEF (Fresh White)

Standard panel with sensing
BYCQ125EEK (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)

Close to ideal styling
New designer panel

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.

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			FXFSQ25AVM	FXFSQ32AVM	FXFSQ40AVM	FXFSQ50AVM	FXFSQ63AVM	FXFSQ80AVM	FXFSQ100AVM	FXFSQ125AVM	FXFSQ140AVM
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)		ℓ/s	217/208/192/183/167		283/225/208/200/183	383/342/317/242/183	392/350/333/267/225	408/367/342/333/250	558/508/450/392/350	575/525/475/425/383	592/542/492/442/383
		m³/min	13/12.5/11.5/11/10		17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
Sound level (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	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.
- 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(H×W×D)	mm	50×950×950
	Weight	kg	5.5
	Model		BYCQ125EEK (Black)
	Dimensions(H×W×D)	mm	50×950×950
	Weight	kg	5.5
Designer panel	Model		BYCQ125EAPF* (Fresh White)
	Dimensions(H×W×D)	mm	97×950×950
	Weight	kg	6.5
Auto grille panel	Model		BYCQ125EBSF* (Fresh White)
	Dimensions(H×W×D)	mm	105×950×950
	Weight	kg	8

*These panels do not contain the sensing function

Function List

Remote controller	Wired		Wireless
	BRC1E63	BRC1H63W(K)	BRC7M634F(K)
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	○	—	—
Individual airflow direction control	○	○	—
Switchable 5 step fan speed	○	○	○
Auto airflow rate	○	○	○
Auto swing	○	○	○
Selectable airflow pattern	○	—	○
High ceiling application	○	○	—

*1. Applicable when sensing panel is installed.

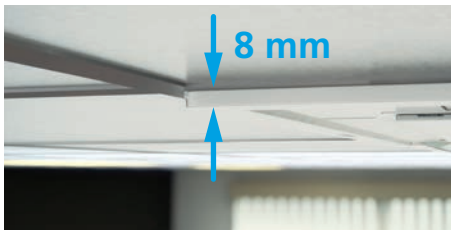
Compact Multi Flow Cassette Type

New **FXZQ-B**

Quiet, compact, and designed for user comfort

Compact & elegant design

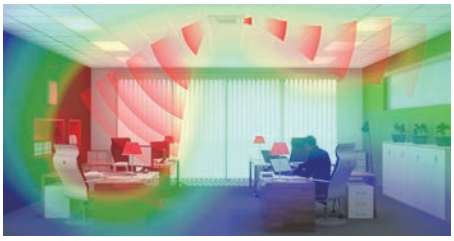
- Fully-flat integration in standard architectural ceiling tiles, leaving only 8 mm
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white
- The newly designed panel integrates fully within one ceiling tile enabling lights, speakers and sprinklers to be installed 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

New **Streamer filter clean unit (Option)** See page 5-6

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

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.

STREAMER

BAPW55A61

Ceiling soiling prevention

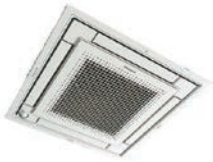
Prevents air from blowing against the ceiling to prevent ceiling stains.

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)		ℓ/s	145/125/108	150/133/108	167/142/117	192/158/133	242/208/167
		m^3/min	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.5/12.5/10.0
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	ϕ6.4				
	Gas (Flare)		ϕ12.7				
	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.

Panel (Option)

Panel type		Grid ceiling panel
Appearance		
Model		BYFQ60CAW
Colour		White (N9.5)
Dimensions (H×W×D)	mm	46×620×620
Weight	kg	2.8

Double Flow Cassette Type

New **FXCQ-B**

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

Stylish design

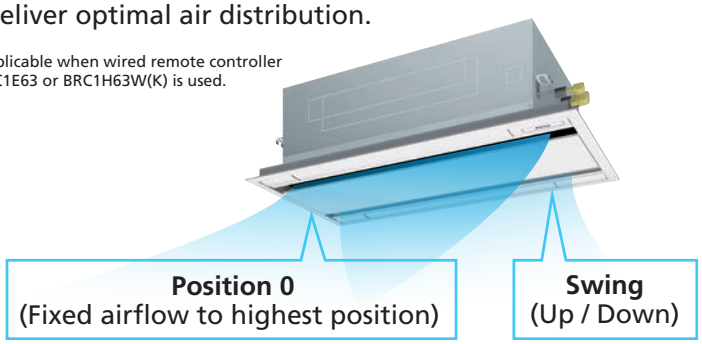
- Stylish unit blends easily with any interior.
- The flat flaps close entirely when the unit is not operating and there are no air intake grilles visible.
- Depth of all units is 620 mm, ideal for narrow spaces

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

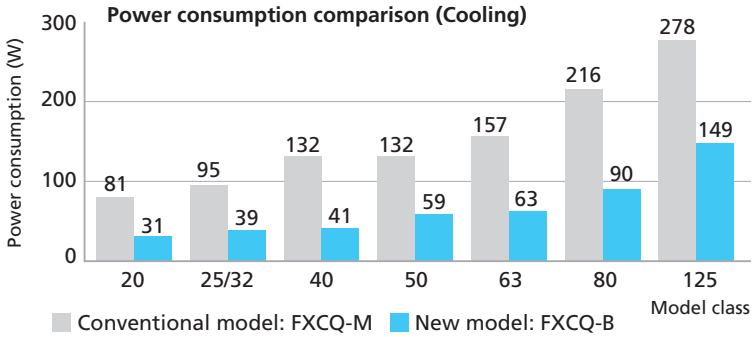
- Control of airflow rate has been improved from 3-step to 5-step. Auto airflow rate is newly available.

Suitable for high ceilings

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

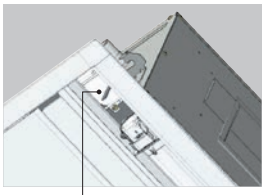
Energy saving

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



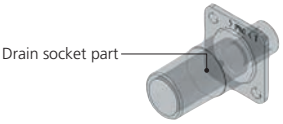
Easy maintenance

- 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.



Flexible installation

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



Cleanliness

New Streamer filter clean unit (Option)

See page 5-6

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

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.

STREAMER

BAPW55A61

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	kW	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/ML/L)		ℓ/s	175/158/150/133/125	192/175/158/142/133		200/183/175/158/142	250/233/217/192/175	267/250/233/208/192	433/400/375/342/308	533/492/458/417/375
		m^3/min	10.5/9.5/9/8/7.5	11.5/10.5/9.5/8.5/8		12/11/10.5/9.5/8.5	15/14/13/11.5/10.5	16/15/14/12.5/11.5	26/24/22.5/20.5/18.5	32/29.5/27.5/25/22.5
Sound level (H/HM/M/ML/L)		dB(A)	32/31/30/29/28	34/33/31/30/29	34/33/32/31/30	36/35/33/32/31	37/36/35/33/31	39/38/37/35/32	42/40/38/36/33	46/44/42/40/38
Dimensions (H × W × D)		mm	305×775×620				305×990×620		305×1,445×620	
Machine weight		kg	19				22	25	33	38
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5		
	Gas (Flare)		ϕ12.7					ϕ15.9		
	Drain		VP25 (External Dia. 32/Internal Dia. 25)							
Panel (Option)	Model		BYBCQ40CF				BYBCQ63CF		BYBCQ125CF	
	Colour		Fresh white (6.5Y 9.5/0.5)							
	Dimensions (HxWxD)	mm	55×1,070×700				55×1,285×700		55×1,740×700	
	Weight	kg	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.

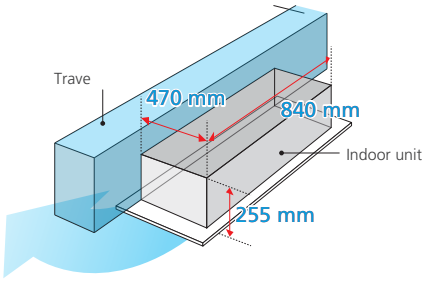
Single Flow Cassette Type

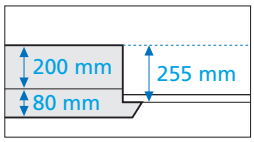
FXEQ-A

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.



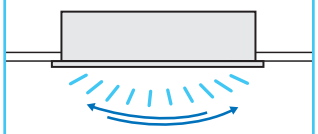


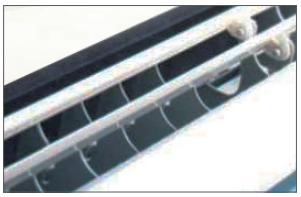
- The novel smooth panel design makes dust difficult to accumulate, thus causing the cleaning more conveniently.

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.

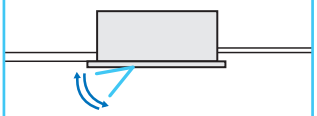
Front view

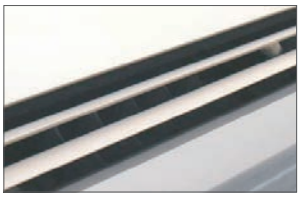




Vertical swing flaps, swinging to left or right within **45°**

Side view

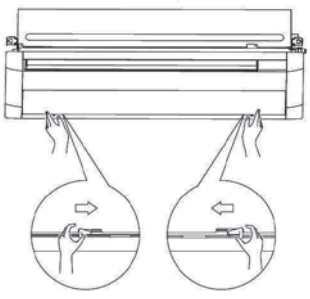




Horizontal swing flaps, swinging between **20° to 70°**

Easy maintenance

- Drain pump is equipped as standard accessory with 850 mm lift.
- Maintenance operations can be performed by removing the front panel.



Specifications

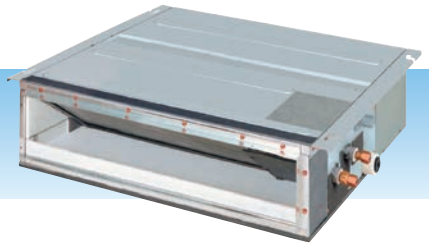
MODEL			FXEQ20AV36	FXEQ25AV36	FXEQ32AV36	FXEQ40AV36	FXEQ50AV36	FXEQ63AV36
Power supply			1-phase, 220-240 V, 50 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	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	ℓ/s	100/90/82/73/67	115/107/97/88/80	133/125/117/105/92	163/147/130/117/103	208/190/173/158/145	150/227/203/183/163
		m^3/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
	Heating	ℓ/s	100/93/85/78/70	120/112/102/93/83	143/133/123/112/100	170/155/140/127/113	233/213/193/178/163	282/255/227/205/183
		m^3/min	6.0/5.6/5.1/4.7/4.2	7.2/6.7/6.1/5.6/5.0	8.6/8.0/7.4/6.7/6.0	10.2/9.3/8.4/7.6/6.8	14.0/12.8/11.6/10.7/9.8	16.9/15.3/13.6/12.3/11.0
Sound level (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 (H×W×D)		mm	200×840×470				200×1,240×470	
Machine weight		kg	17			18	23	
Piping connections	Liquid (Flare)	mm	φ6.4					φ9.5
	Gas (Flare)		φ12.7					φ15.9
	Drain		PVC26 (External Dia. 26/Internal Dia. 20)					
Panel (Option)	Model		BYEP40AW1				BYEP63AW1	
	Colour		Fresh white					
	Dimensions(H×W×D)	mm	80×950×550				80×1,350×550	
	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 differencee: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.

Slim Duct (Standard) Type

FXDQ-PD / ND

Slim design, quietness and ideal for drop-ceilings



Comfort

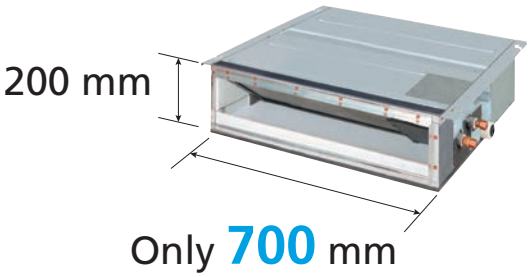
- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller.
- Low operation sound level: down to 23 dB(A)

Installation flexibility

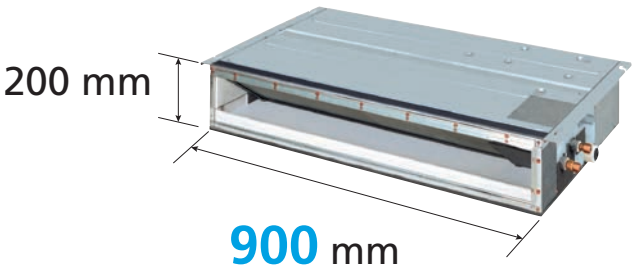
- Only 200 mm in height, this model can be installed in rooms with as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab.

Great for hotel use!

FXDQ20-32PD



FXDQ40/50ND



1,100 mm in width for the FXDQ63ND model.

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

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	Cooling	kW	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)		ℓ/s	133/120/106			175/158/141	208/183/166	275/241/216
		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
External static pressure		Pa	30-10 *2			44-15 *2		
Sound level (HH/H/L) *1 *3		dB(A)	28/26/23		28/26/24	30/28/26	33/30/27	33/31/29
Sound power (HH/H/L)		dB(A)	56/54/51		56/54/52	58/56/54	61/58/55	61/59/57
Dimensions (H×W×D)		mm	200×700×620			200×900×620		200×1,100×620
Machine weight		kg	23			27	28	31
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flare)		ϕ12.7					ϕ15.9
	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).

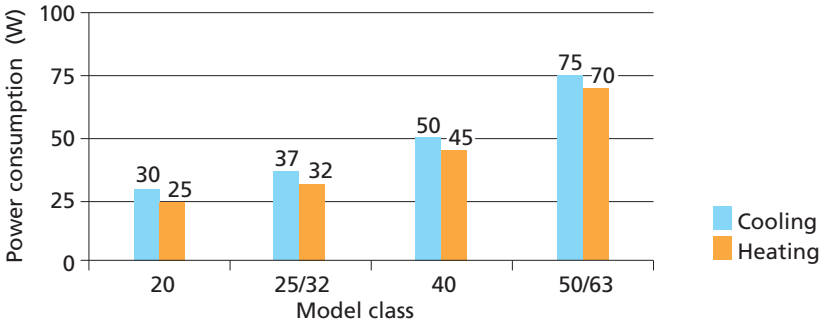
Slim Duct (Compact) Type

FXDQ-T

Slim and compact design for easy and flexible installation

Energy saving

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



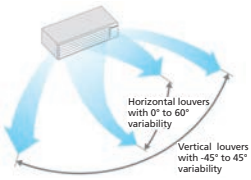
Comfort

5-step & auto airflow control

- Control of airflow rate can be selected from 5-step and Auto to provide comfortable airflow.

3-D auto swing discharge grille (Option)

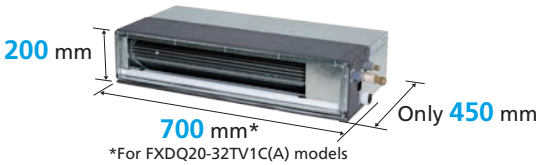
- Motorised louvres provide 3-D airflow distribution. Operations via BRC1E63 with functions including 3-D Auto Swing, Horizontal Auto Swing, Vertical Auto Swing & Fixed Positioning.



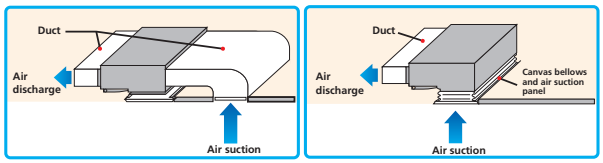
Model	Compatibility	HxWxD (mm)
BDG20A09	20-32 Class	180x722x70
BDG20A15	40-50 Class	180x922x70
BDG20A20	63 Class	180x1,122x70

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.
- Features rear or bottom return to suite site constraints.



*For FXDQ20-32TV1C(A) models



Air filter included

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

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

Easy maintenance

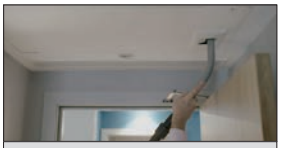
Auto clean air filter module (Option)

- A unique rear suction mounted motorised filter cleaning module with included polyester filter for convenient filter maintenance to ensure optimal performance and increased energy savings.

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

Mounts to the rear of the indoor unit with the vacuum port

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



Dust in the dust box can be emptied by vacuuming out the dust via the vacuum port

Design flexibility

Two series available

FXDQ-TV1C – Standard Model
FXDQ-TV1CA – Features Built-in Multi Tenancy Kit

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

Specifications

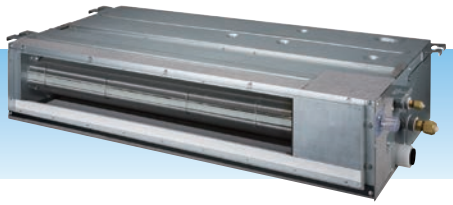
MODEL			FXDQ20TV1C(A)	FXDQ25TV1C(A)	FXDQ32TV1C(A)	FXDQ40TV1C(A)	FXDQ50TV1C(A)	FXDQ63TV1C(A)
Power supply			1-phase, 220-240/220-230 V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption *1	Cooling	kW	0.030	0.037		0.050	0.075	
	Heating		0.025	0.032		0.045	0.070	
Casing			Galvanized steel plate					
Airflow rate		ℓ/s	135	150		210	250	325
		m³/min	8.1	9.0		12.6	15.0	19.5
External static pressure		Pa	40-10*2		50-10*2	60-10*2	45-10*2	
Sound level (HH/H/L)*1 *3		dB(A)	32/30/28	33/30.5/28		34/31.5/29	35/32.5/30	37/35/33
Dimensions (H×W×D)		mm	200×700×450			200×900×450		200×1,100×450
Machine weight		kg	18			21		24
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flare)		ϕ12.7					ϕ15.9
	Drain		PVC26 (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 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. For FXDQ-TV1CA models, +0.0005kW on top of cooling/heating power consumption values.
- *2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa)
- *3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Slim Duct (Compact) Type

FXDQ-SP

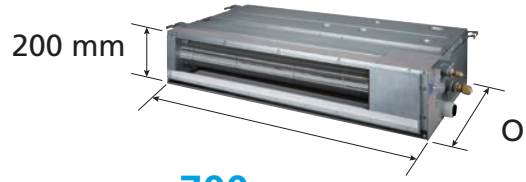
Slim and compact design for easy and flexible installation



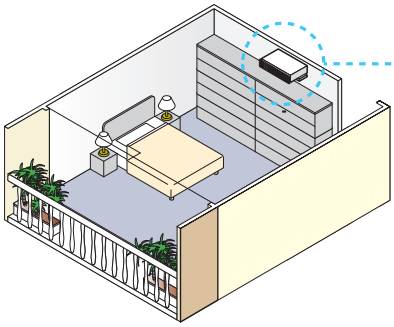
Installation flexibility

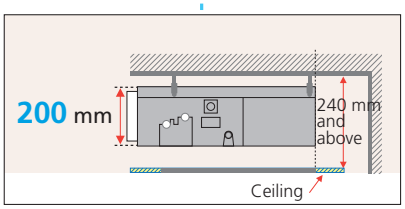
- Slim and compact design with a height of only 200 mm and the depth of only 450 mm which is suitable to install in limited spaces.

Great for residential use

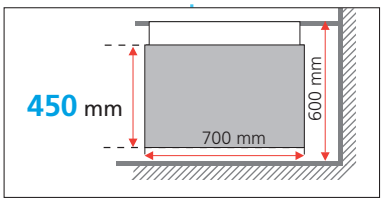


*For FXDQ20-32SP models





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)		ℓ/s	145/127/108	150/133/117	167/150/133	250/217/175		333/267/208
		m^3/min	8.7/7.6/6.5	9.0/8.0/7.0	10.0/9.0/8.0	15.0/13.0/10.5		20.0/16.0/12.5
External static pressure		Pa	30-10 *2			50-20 *2		40-20 *2
Sound level (HH/H/L) *1 *3		dB(A)	33/31/29		34/32/30	35/33/31		37/35/33
Sound power (HH/H/L)		dB(A)	61/59/57		62/60/58	63/61/59		65/63/61
Dimensions (H×W×D)		mm	200×700×450			200×900×450		200×1,100×450
Machine weight		kg	17			20		23
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flare)		ϕ12.7					ϕ15.9
	Drain		VP20 (External Dia. 26/Internal Dia. 20)					

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

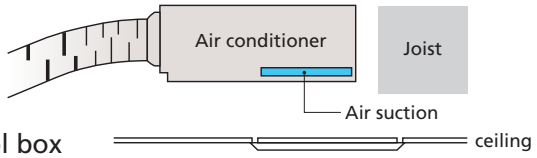
- With a height of only 245 mm, installation is possible even in buildings with narrow ceiling spaces.

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

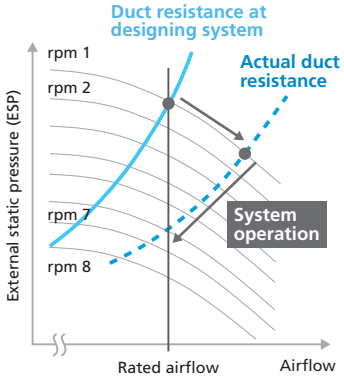
Easy installation

"Airflow rate auto adjustment function" at field setting

(local setting by remote controller)

*This function can only be set via wired remote controller.

Design	Installation	Field setting **without** "airflow rate auto adjustment function"	Various adjustments are required (Due to excess or deficiency of airflow) e.g. Duct re-construction, Motor replacement, Damper replacement, etc.
Design	Installation	Field setting **with** "airflow rate auto adjustment function" by remote controller	**Innovating Function!**



<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 FXSQ-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.

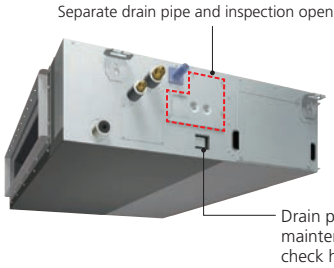
Notes: "Airflow rate auto adjustment function" can be adjusted within ±10% of rated airflow. (Refer to Engineering Data Book for details)
"Airflow rate auto adjustment function" should be used at field setting only.

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	kW	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)		ℓ/s	150/125/108		158/133/116	250/208/175	283/242/192
		m³/min	9/7.5/6.5		9.5/8/7	15/12.5/10.5	17/14.5/11.5
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
Sound power (H)		dB(A)	61		62	64	62
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)	mm	ϕ6.4				
	Gas (Flare)		ϕ12.7				
	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	kW	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)		ℓ/s	350/292/242	383/325/267	533/450/375	617/525/433	650/558/467
		m³/min	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26	39/33.5/28
External static pressure		Pa	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
Sound power (H)		dB(A)	64	65.5	67	70	71
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)	mm	ϕ9.5				
	Gas (Flare)		ϕ15.9				
	Drain		VP25 (External Dia. 32/Internal Dia. 25)				

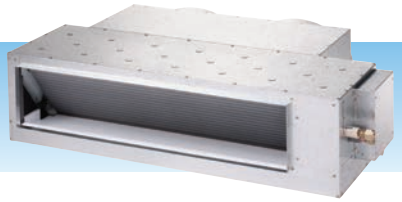
Notes:
Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- 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 Static Pressure Duct Type

FXDYQ-MA

Middle static pressure allows for flexible duct design.



Energy saving

- High efficiency Hi-X heat exchanger coils that provide even more energy savings.

Installaion flexibility

- High external static pressure of 120 Pa allows comprehensive duct layout for various applications.
- Two external static pressure settings for added flexibility.
- Return air spigots included for ease of installation.
- Quiet yet powerful supply air fan.
- High strength galvanised steel casing.

Specifications

MODEL			FXDYQ80MAV1	FXDYQ100MAV1	FXDYQ125MAV1	FXDYQ145MAV1
Power supply			1-phase, 220-240 V, 50 Hz			
Cooling capacity		Btu/h	30,000	38,200	47,400	54,600
		kW	8.8	11.2	13.9	16.0
Heating capacity		Btu/h	33,800	42,700	54,600	62,800
		kW	9.9	12.5	16.0	18.4
Power consumption	Cooling	kW	0.415	0.700	0.780	0.880
	Heating		0.415	0.700	0.780	0.880
Casing			Galvanised steel plate			
Airflow rate (H)		ℓ/s	510	778	852	957
		m^3/min	30.6	46.7	51.1	57.4
External static pressure		Pa	120 ★1			
Sound level (H)	240 V	dB(A)	45	46	48	51
Dimensions (H×W×D)		mm	360×1168×869	360×1478×899		
Machine weight		kg	50	60	65	66
Piping connections	Liquid (Flare)	mm	ϕ 9.5			
	Gas (Flare)		ϕ15.9			
	Drain		VP25 (External Dia. 32/Internal Dia. 25)			

Note: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, 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: External static pressure is changeable to change over the connectors inside electrical box (High static pressure-Standard static pressure).
The data above is for high static pressure setting.

Middle-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**

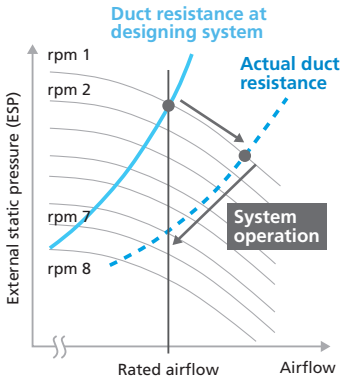
*30 Pa – 100 Pa for FXMQ20PA-32PA
*30 Pa – 160 Pa for FXMQ40PA
*50 Pa – 200 Pa for FXMQ50PA-125PA
*50 Pa – 140 Pa for FXMQ140PA

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.

Design	Installation	Field setting **without** "airflow rate auto adjustment function"	Various adjustments are required (Due to excess or deficiency of airflow) e.g. Duct re-construction, Motor replacement, Damper replacement, etc.
Design	Installation	Field setting **with** "airflow rate auto adjustment function" by remote controller	**Innovating Function!**



<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 ±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

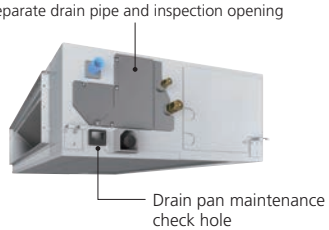
- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller.
- Low operation sound level: down to 29 dB(A)

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.



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		0.044 *1		0.048 *1	0.139 *1	0.116 *1
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)		ℓ/s	150/125/108		158/133/116	267/216/183	300/275/250
		m³/min	9/7.5/6.5		9.5/8/7	16/13/11	18/16.5/15
External static pressure		Pa	30-100 (50) *2			30-160 (100) *2	50-200 (100) *2
Sound level (HH/H/L)		dB(A)	33/31/29		34/32/30	39/37/35	41/39/37
Sound power (H)		dB(A)	51		52	57	59
Dimensions (H×W×D)		mm	300x550x700			300x700x700	300x1,000x700
Machine weight		kg	25			27	35
Piping connections	Liquid (Flare)	mm	ϕ6.4				
	Gas (Flare)		ϕ12.7				
	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)		ℓ/s	32.5/292/267	417/375/333	533/450/383	650/550/466	767/649/533
		m³/min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
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
Sound power (H)		dB(A)	60	61		62	64
Dimensions (H×W×D)		mm	300×1,000×700		300×1,400×700		
Machine weight		kg	35		45		46
Piping connections	Liquid (Flare)	mm	ϕ9.5				
	Gas (Flare)		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.
- 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

- 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

*60 Pa – 217 Pa for FXMQ160P
*50 Pa – 210 Pa for FXMQ180P
*50 Pa – 250 Pa for FXMQ200P-250P

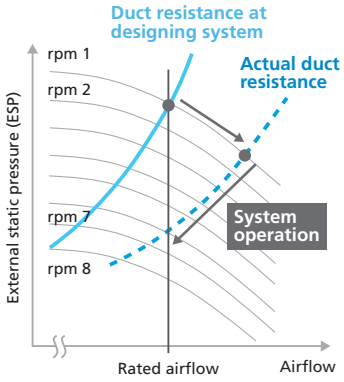
Easy installation

"Airflow rate auto adjustment function" at field setting

(local setting by remote controller)

*This function can only be set via wired remote controller.

Design	Installation	Field setting **without** "airflow rate auto adjustment function"	Various adjustments are required (Due to excess or deficiency of airflow) e.g. Duct re-construction, Motor replacement, Damper replacement, etc.
Design	Installation	Field setting **with** "airflow rate auto adjustment function" by remote controller — **Innovating Function!**	

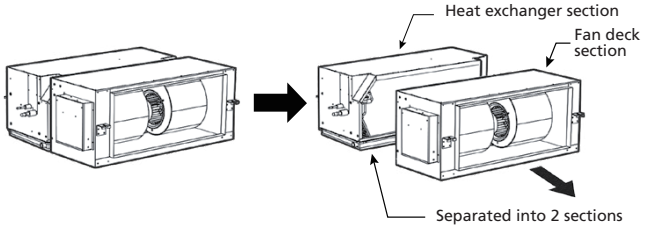


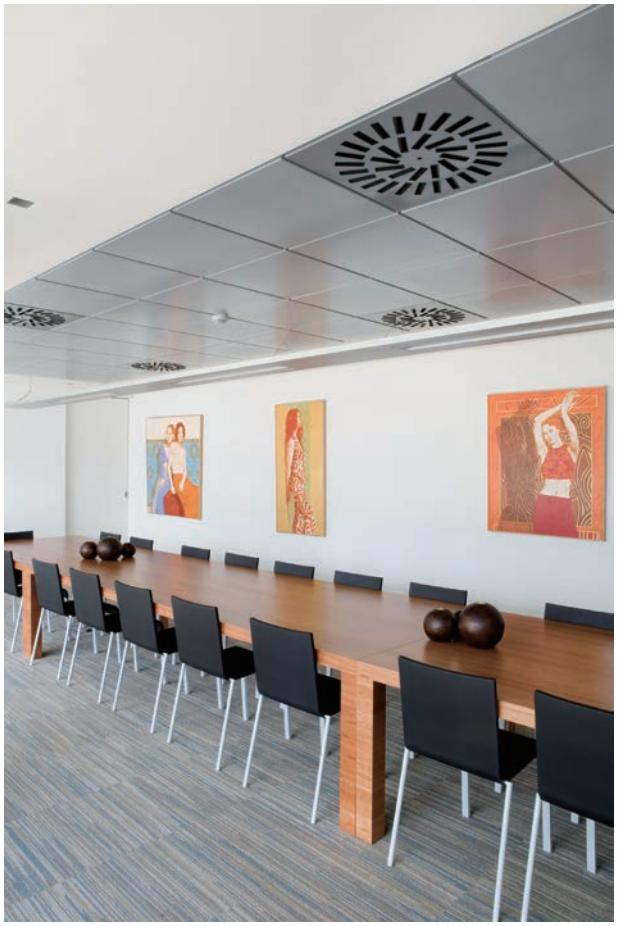
<Mechanism>
1. During field setting, power input of DC fan is detected.
2. External static pressure is estimated from power input of DC fan because PCB of FXMQ-P has table of external static pressure vs. power input of DC fan.
3. Actual duct resistance is calculated according to 1 and 2.
4. Fan speed is automatically adjusted to produce rated airflow.

Notes: "Airflow rate auto adjustment function" can be adjusted within ±10% of rated airflow. (Refer to Engineering Data Book for details)
"Airflow rate auto adjustment function" should be used at field setting only.

- Drain pump kit is available as optional accessory with 750 mm lift.

- Each model can be separated into 2 sections for convenient handling and easier installation through openings in the ceiling.





Specifications

MODEL			FXMQ160PV1A	FXMQ180PV1A	FXMQ200PV1A	FXMQ250PV1A
Power supply			1-phase, 220-240 V, 50 Hz			
Cooling capacity		Btu/h	61,400	68,200	76,400	95,500
		kW	18.0	20.0	22.4	28.0
Heating capacity		Btu/h	68,200	76,400	85,300	107,500
		kW	20.0	22.4	25.0	31.5
Power consumption*1	Cooling	kW	0.650		0.640	0.810
	Heating		0.650		0.640	0.810
Casing			Galvanized steel plate			
Airflow rate (HH/H/L)		ℓ/s	1,120/955/790	1,160/995/820	1,200/1,025/850	1,400/1,200/1,000
		m^3/min	67.2/57.3/47.4	69.6/59.7/49.2	72.0/61.5/51.0	84.0/72.0/60.0
External static pressure*2		Pa	60-217 (138)	50-210 (130)	50-250 (150)	
Sound level (HH/H/L)		dB(A)	45/41.5/38		44/40.5/37	46/42.5/39
Sound power (H)		dB(A)	73		72	74
Dimensions (H×W×D)		mm	470x1,133x919		470x1,333x919	
Machine weight		kg	70		79	85
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)
	Drain		BSP 3/4 internal thread (OD ϕ 32.7)			

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: These values indicate the lowest and highest possible static pressures. The rated static pressure is 138 Pa for FXMQ160P, 130 Pa for FXMQ180P and 150 Pa for FXMQ200-250P.

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.

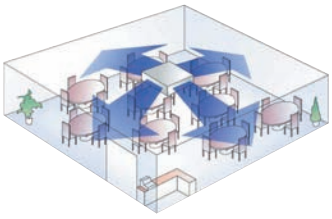
Comfort

- 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.

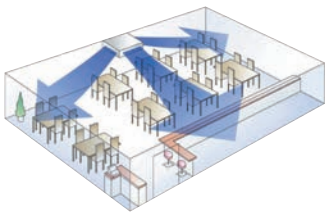
Flexible installation

- 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.

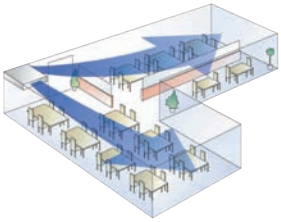
4-way flow



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)		ℓ/s	375/325/267	517/433/350
		m³/min	22.5/19.5/16	31/26/21
Sound level (H/M/L)		dB(A)	40/38/36	47/44/40
Sound power (H/M/L)		dB(A)	58/56/54	65/62/58
Dimensions (H×W×D)		mm	198×950×950	
Machine weight		kg	26	27
Piping connections	Liquid (Flare)	mm	ϕ9.5	
	Gas (Flare)		ϕ15.9	
	Drain		VP20 (External Dia. 26/Internal Dia. 20)	

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

New FXHQ-MA / B

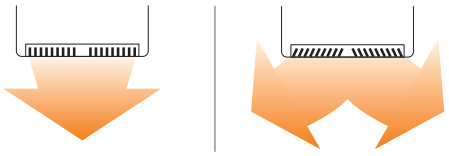
Slim body with quiet and wide airflow

FXHQ50 / 80MA
FXHQ32 / 63 / 100MA

New FXHQ125 / 140B

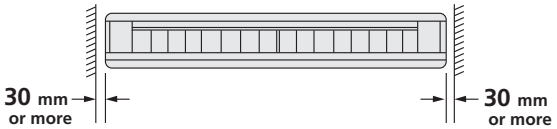
Comfort

- 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.

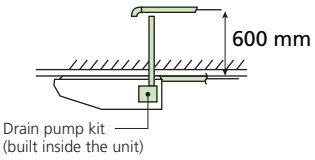


Installation flexibility

- 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.

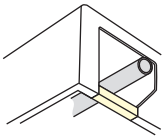


*Water used in the test-run can be drained from the air discharge opening rather than from the side as was formerly the case.



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.



Easier piping work

Cleanliness

New Streamer filter clean unit (Option) for new 125 / 140 models

See page 5-6

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

STREAMER

BAPW55A61

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.

Specifications

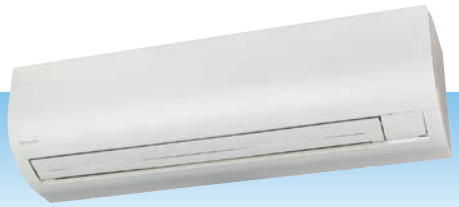
MODEL			FXHQ32MAVE	FXHQ50MAVE	FXHQ63MAVE	FXHQ80MAVE	FXHQ100MAVE	FXHQ125BVM	FXHQ140BVM
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz					1-phase, 220-240 V/220-230 V, 50/60 Hz	
Cooling capacity		Btu/h	12,300	19,100	24,200	30,700	38,200	48,000	52,900
		kW	3.6	5.6	7.1	9.0	11.2	14.1	15.5
Heating capacity		Btu/h	13,600	21,500	27,300	34,100	42,700	54,600	58,000
		kW	4.0	6.3	8.0	10.0	12.5	16.0	17.0
Power consumption	Cooling	kW	0.111	0.100	0.115	0.126	0.135	0.168	0.181
	Heating		0.111	0.100	0.115	0.126	0.135	0.168	0.181
Casing			Sheet Metal / White (10Y9/0.5)				Sheet Metal / White		
Airflow rate (H/M/L)		ℓ/s	200/-/166	250/-/200	291/-/233	392/-/283	416/-/325	567/433/333	600/450/333
		m^3/min	12/-/10	15/-/12	17.5/-/14	23.5/-/17	25/-/19.5	34/26/20	36/27/20
Sound level (H/M/L)		dB(A)	36/-/31	37/-/32	39/-/34	43/-/35	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	ϕ6.4		ϕ9.5				
	Gas (Flange)		ϕ12.7		ϕ15.9				
	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

FXAQ-A

Stylish flat panel design harmonised with your interior décor



Comfort

Higher airflow

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

Lower sound level

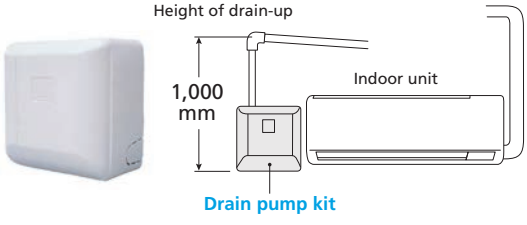
- Whisper quiet in operation, with sound levels as low as 28.5 dB(A)*
  *Sound level for FXAQ20-32A
- An ideal solution for a wide range of commercial spaces, including individual office spaces.

Stylish design and cleanliness

- Stylish flat panel design creates a graceful harmony that enhances any interior space.
- Flat panel can be cleaned with only the single pass of a cloth across their smooth surface. Flat panel can also be easily removed and washed for more thorough cleaning.
- Drain pan and air filter can be kept clean by mould-proof polystyrene.

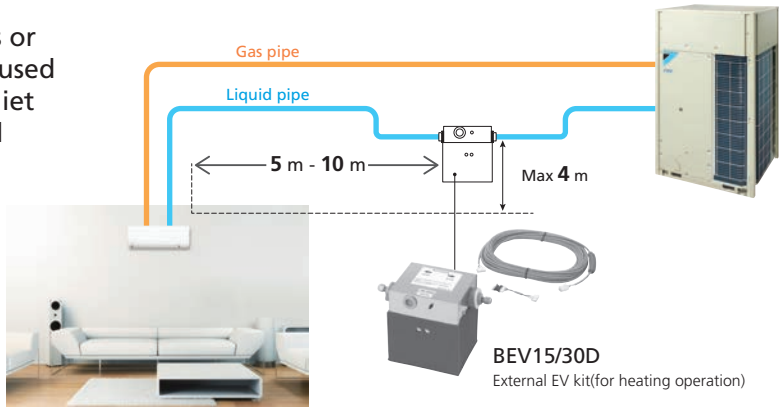
Flexible installation

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



External EV kit (for heating operation) (Option)

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



BEV15/30D
External EV kit(for heating operation)

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

Specifications

MODEL			FXAQ20AVM	FXAQ25AVM	FXAQ32AVM	FXAQ40AVM	FXAQ50AVM	FXAQ63AVM
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz					
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300
		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power consumption	Cooling	kW	0.040	0.040	0.040	0.050	0.060	0.100
	Heating		0.040	0.040	0.050	0.050	0.070	0.110
Casing			Resin / White N9.5					
Airflow rate (H/L)		ℓ/s	151/116	156/116	163/116	203/161	250/200	316/233
		m³/min	9.1/7.0	9.4/7.0	9.8/7.0	12.2/9.7	15.0/12.0	19.0/14.0
Sound level (H/L)	Cooling	dB(A)	33.0/28.5	35.0/28.5	37.5/28.5	37.0/33.5	41.0/35.5	46.5/38.5
	Heating		34.0/28.5	36.0/28.5	38.5/28.5	38.0/33.5	42.0/35.5	47.0/38.5
Dimensions (H × W × D)		mm	290×795×266			290×1,050×269		
Machine weight		kg	12			15		
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flange)		ϕ12.7					ϕ15.9
	Drain		VP13 (External Dia. 18/Internal Dia. 15)					

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.

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)		ℓ/s	116/100		133/100	183/141	233/183	266/200
		m³/min	7/6		8/6	11/8.5	14/11	16/12
Sound level (H/L)	240 V	dB(A)	37/34			40/35	41/36	42/37
Dimensions (H × W × D)		mm	600×1,000×222		600×1,140×222		600×1,420×222	
Machine weight		kg	25		30		36	
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flare)		ϕ12.7					ϕ15.9
	Drain		21O.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 (Duct Connection) Type

FXNQ-A2

Designed to be concealed in the wall

FXNQ20-32A2

FXNQ40-63A2

Polished design

The most discrete installation

- Discretely concealed in the wall with only the suction and discharge grilles visible, creating high-class interior design.

Comfort

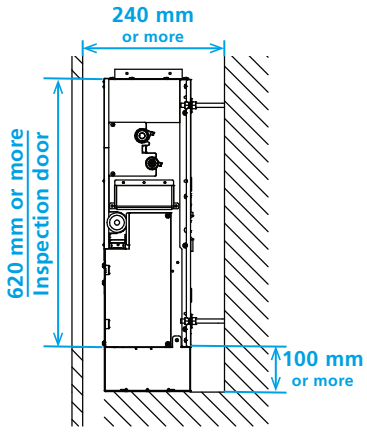
Lower sound level

- Whisper quiet in operation, with sound levels as low as 27 dB(A)*

*Sound level for FXNQ20-32A2

Flexible installation

- With only 200 mm in depth, this concealed floor standing unit requires very little installation space.
- Low unit height of 620 mm (without stands) enables it to fit perfectly beneath a window.
- High external static pressure allows wall-concealed and window sill installations.



Specifications

MODEL			FXNQ20A2VEB	FXNQ25A2VEB	FXNQ32A2VEB	FXNQ40A2VEB	FXNQ50A2VEB	FXNQ63A2VEB
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	0.071			0.078	0.099	0.110
	Heating		0.068			0.075	0.096	0.107
Casing			Galvanised steel plate					
Fan	Airflow rate (H/M/L)	ℓ/s	133/120/107			175/158/142	208/183/167	275/242/217
		m³/min	8.0/7.2/6.4			10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
	External static pressure	Pa	41		42	52	59	55
Sound level (H/M/L)		dB(A)	30/28.5/27			32/30/28	33/31/29	35/33/32
Sound power (H)		dB(A)	51			52	53	54
Dimensions [without stands] (H×W×D)		mm	720[620]×790×200			720[620]×990×200		720[620]× 1,190×200
Machine weight		kg	23.5			27.5		32.0
Piping connections	Liquid (Flare)	mm	ϕ6.4					ϕ9.5
	Gas (Flange)		ϕ12.7					ϕ15.9
	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.

BS Units

BS Units for Heat Recovery

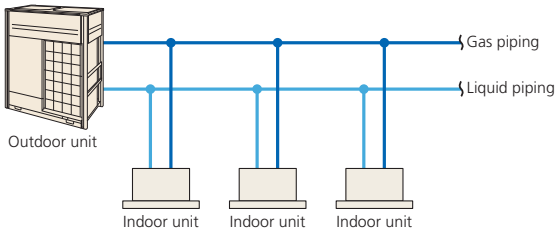
BS unit (Single type/Multi type)

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

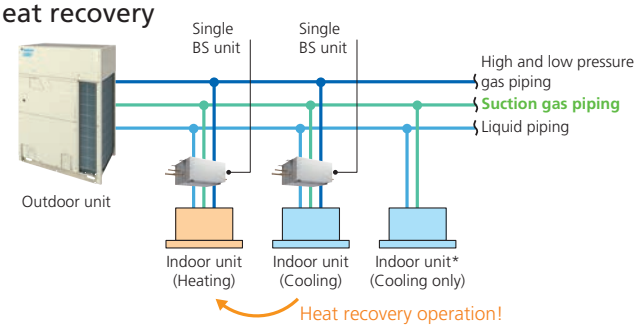
Single BS unit

Multi BS unit

Heat pump

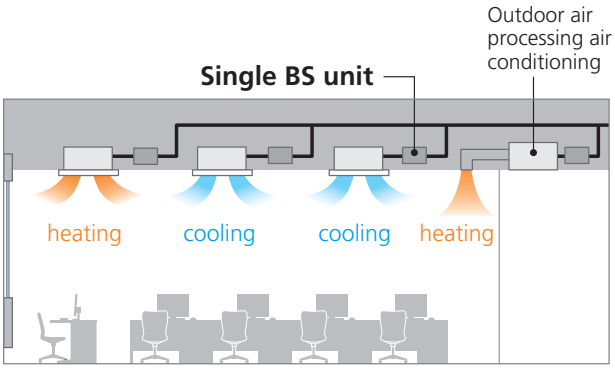


Heat recovery



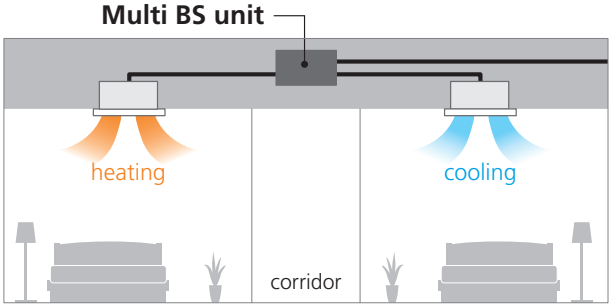
* For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outdoor units.

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)

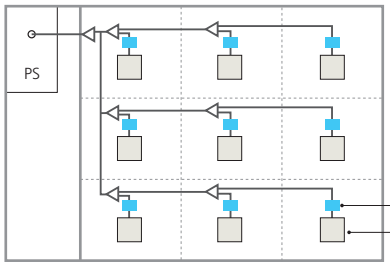
- Able to cater to individual heating and cooling requirement

BS Unit Lineup

Single and multi BS unit allow greater design flexibility

Single BS unit

Drainless Type
BSQ100AVE
BSQ160AVE
BSQ250AVE



Recommended for large spaces or areas subject to frequent layout change

- **No need for drain piping**
  - Easy installation
  - Less risk of water leakage
- **Compact and flexible installation**
- **Flexible design**
- **Low noise**

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 (H×W×D)			mm	207×388×326		
Piping connections	Indoor Unit	Liquid	mm	ϕ9.5 (Brazing) ★1	ϕ9.5 (Brazing)	ϕ9.5 (Brazing)
		Gas		ϕ15.9 (Brazing) ★1	ϕ15.9 (Brazing) ★2	ϕ22.2 (Brazing) ★3
	Outdoor Unit	Liquid	mm	ϕ9.5 (Brazing)	ϕ9.5 (Brazing)	ϕ9.5 (Brazing)
		Suction gas		ϕ15.9 (Brazing)	ϕ15.9 (Brazing) ★2	ϕ22.2 (Brazing) ★3
		High and low pressure gas		ϕ12.7 (Brazing)	ϕ12.7 (Brazing) ★2	ϕ19.1 (Brazing) ★3
Machine weight			kg	11	11	14
Sound level			dB(A)	35(40) ★4	41(45) ★4	41(45) ★4

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

BS Units

Multi BS unit

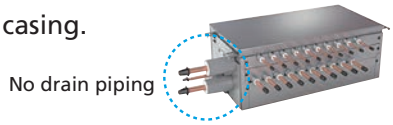
Drainless Type
BS4Q14BVM (4-branch)
BS6Q14BVM (6-branch)
BS8Q14BVM (8-branch)
BS10Q14BVM (10-branch)
BS12Q14BVM (12-branch)

Standard Type
BS16Q14AVM (16-branch)

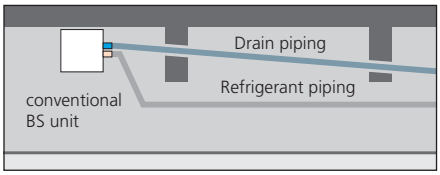
- **No need for drain piping (Drainless type only)**
  - Easy installation
  - Less risk of water leakage
- **Wide range lineup**
  - Max. 16 branches with a single unit up to 30 class
- **Individual control and cooling/heating changeover for each branch**
- **Installation cost reduction by reduction of brazing points.**

Drainless function enables a drastic reduction of on-site work

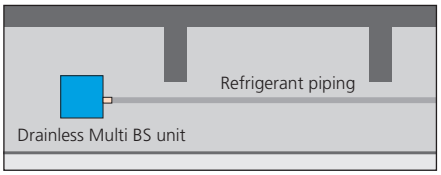
Drain is eliminated with the use of foam insulation inside the casing.



Conventional Multi BS unit

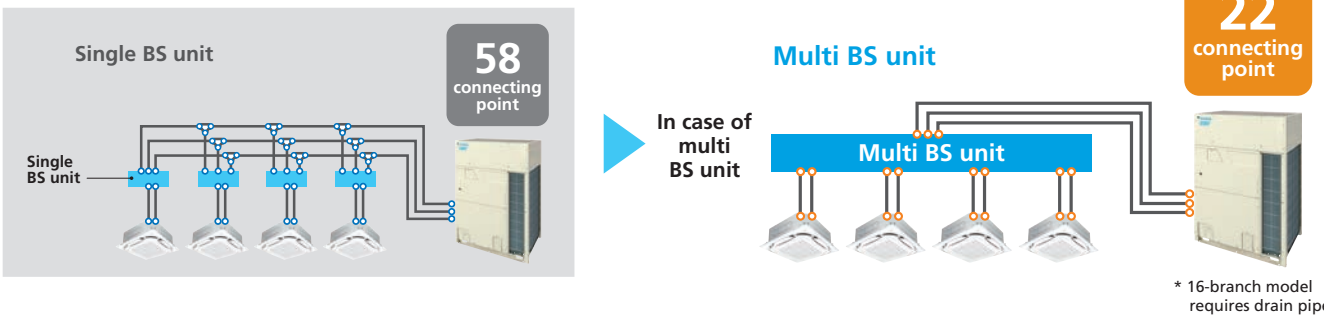


New Drainless Multi BS unit



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

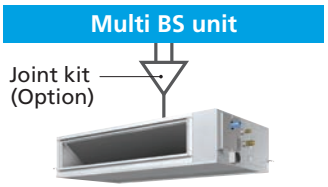


* 16-branch model requires drain pipe

Greater design flexibility achieved by increasing the connection capacity range

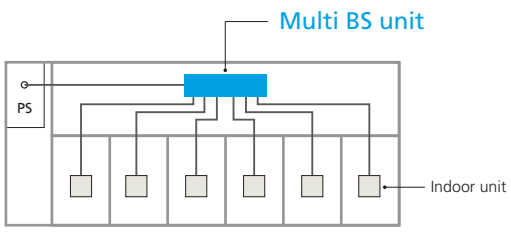
Increased to

16.0 kW



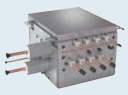
By merging two branches adaptable up to

28.0 kW



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 (H×W×D)			mm	298×370×480	298×580×480		298×820×480		298×1060×430
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		ϕ 28.6 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.

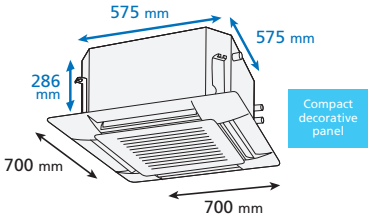
Compact Multi Flow Cassette Type

FFQ-B

Quiet, compact, and designed for user comfort

Installation flexibility

- Designed to fit 600 mm wide ceiling grids



Option

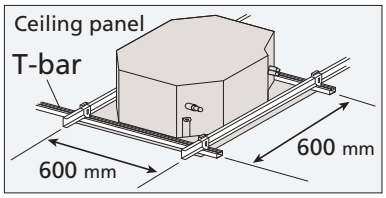
Note: Remote controller cables not included Cables should be obtained locally.

Option

Signal receiver unit

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

- T-bar grid does not need to be cut.

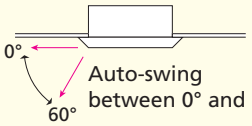
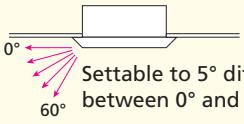
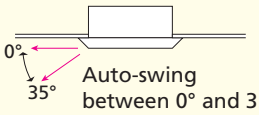
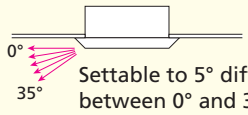
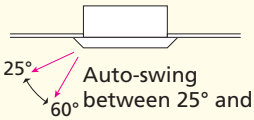
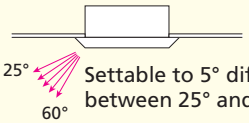


- Low draft performance is designed for your comfort.
- Drain pump is equipped as standard accessory with 750 mm lift.

Comfort

Conditioned air is distributed evenly by Auto-swing operation.

Adjustable airflow angle to suit all room conditions.

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

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

Specifications

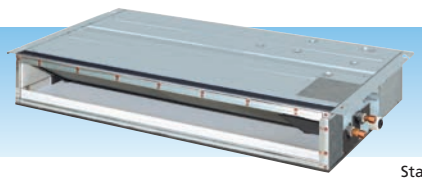
MODEL			FFQ25BV1B	FFQ35BV1B	FFQ50BV1B	FFQ60BV1B
Power supply			1-phase, 220-240 V, 50 Hz			
Airflow rate (H)		m³/min(ℓ/s)	9.0 (150)	10.0 (167)	12.0 (200)	15.0 (250)
Sound level (H/L)*		dB(A)	29.5/24.5	32/25	36/27	41/32
Sound power level (H)		dB(A)	46.5	49	53	58
Fan speed			2 steps			
Temperature control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

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

Slim Ceiling Concealed Duct Type

FDXS-C

Slim and smooth design suits your shallow ceiling



Standard accessory

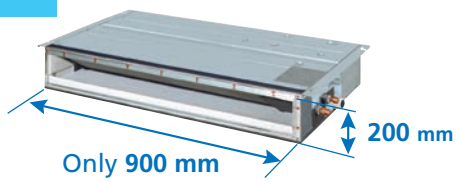
Option

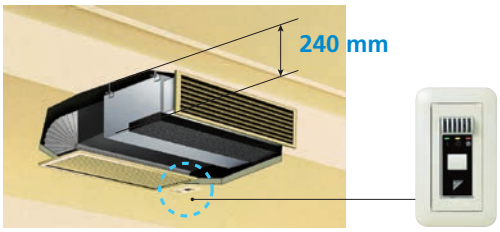
Installation flexibility

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.

Great for hotel use!

FDXS25/35



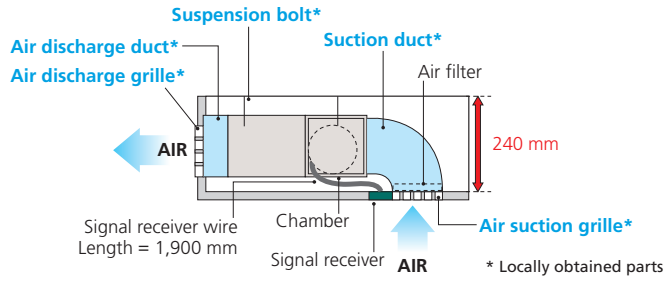


Signals from the wireless remote controller are transmitted to the signal receiver.

Comfort

- Low operation sound level: down to 29 dB(A)
- Home Leave Operation prevents large increase or decrease in the indoor temperature by continuing operation* while someone is sleeping or left the house. This means that an air-conditioned welcome awaits when someone wakes up or returns. It also means that the indoor temperature can quickly return to the preferred comfort setting.

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



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

Specifications

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

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

Wall Mounted Type

FTXS-K(A)

Stylish flat panel harmonises with your interior décor

FTXS20/25/35K

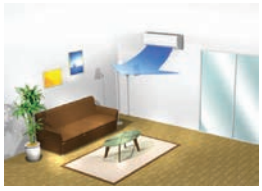
FTXS50/60/71KA

Standard accessory | Option

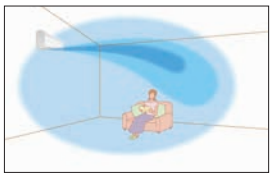
Efficiency & comfort

- Intelligent Eye with its infrared sensor automatically controls air conditioner operation according to human movement in a room. When there is no movement, it adjusts the temperature by 2˚C for energy savings.
- Low sound level: down to 22 dB(A)
- Comfort Airflow Mode prevents uncomfortable drafts from blowing directly on to your body. During cooling operation, the flap moves upward to prevent direct cold drafts. During heating operation, it also moves downward to prevent direct drafts and deliver warm air to the floor.

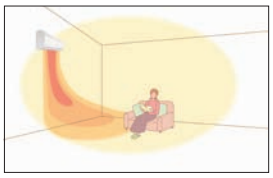
When you are in the room



When you go out



Cooling operation



Heating operation

Cleanliness

Titanium Apatite Deodorising Filter

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

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

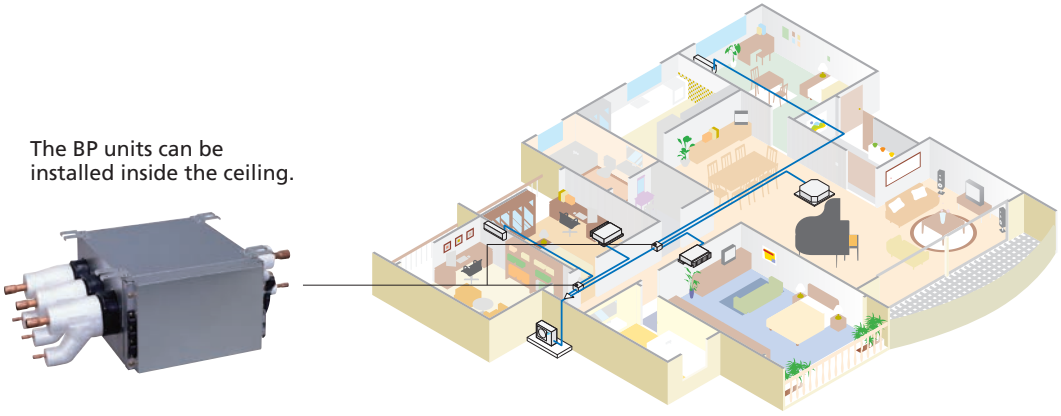
Specifications

MODEL				FTXS20KVMA	FTXS25KVMA	FTXS35KVMA	FTXS50KAVMA	FTXS60KAVMA	FTXS71KAVMA
Power supply				1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel colour				White					
Airflow rate (H)	Cooling	m³/min(ℓ/s)		9.7 (161)		11.3 (188)	14.7 (245)	16.2 (270)	17.4 (290)
	Heating			10.5 (175)		11.5 (191)	16.2 (270)	17.4 (290)	21.5 (358)
Sound level (H/L/SL)	Cooling	dB(A)		38/25/22		42/26/23	44/35/32	45/36/33	46/37/34
	Heating			39/28/25		42/29/26	42/33/30	44/35/32	46/37/34
Sound power (H)	Cooling	dB(A)		54		58	60	61	62
	Heating			55		58		60	62
Fan speed				5 steps, quiet and automatic					
Temperature control				Microcomputer control					
Dimensions (H×W×D)			mm	295x800x215			290x1,050x250		
Machine weight			kg	9		10	12		
Piping connections	Liquid (Flare)		mm	ϕ6.4					
	Gas (Flare)			ϕ9.5			ϕ12.7		ϕ15.9
	Drain			I.D ϕ14.0xO.D ϕ18.0					
Heat insulation				Both liquid and gas pipes					

BP Units

BP units for connection to residential indoor units

The BP units can be installed inside the ceiling.

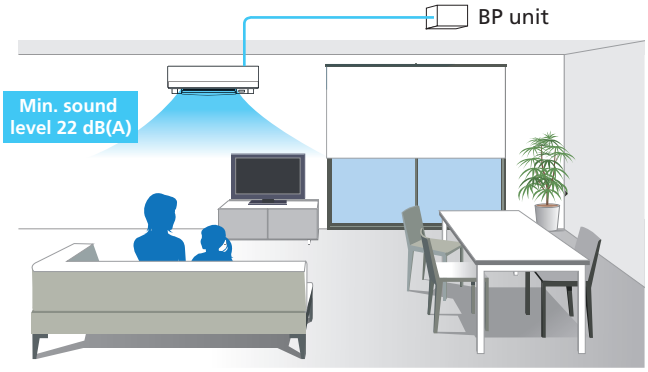


Connectable to residential indoor units

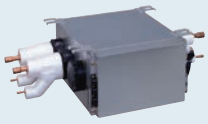
BP units allow ***VRV*** systems to be connected to Daikin's stylish and quiet residential indoor units.

Quiet operating sound

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



Specifications

MODEL				 BPMKS967A3	 BPMKS967A2
Power supply				1-phase, 220-240 V/220-230 V, 50/60 Hz	
Number of ports				3 (connectable to 1-3 indoor units)	2 (connectable to 1-2 indoor units)
Power consumption			W	10	
Running current			A	0.05	
Dimensions (H×W×D)			mm	180×294 (+356*)×350	
Machine weight			kg	8	7.5
Number of wiring connections				3 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 4 for interunit wiring (BP-indoor unit)	2 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 3 for interunit wiring (BP-indoor unit)
Piping connections (Brazing)	Liquid	Main	kW	ϕ9.5×1	
		Branch		ϕ6.4×3	ϕ6.4×2
	Gas	Main	kW	ϕ19.1×1	
		Branch		ϕ15.9×3	ϕ15.9×2
Heat insulation			kW	Both liquid and gas pipes	
Connectable indoor units			kW	2.0 kW class to 7.1 kW class	
Min. rated capacity of connectable indoor			kW	2.0	
Max. rated capacity of connectable indoor			kW	20.8	14.2

Note: *Total auxiliary piping length.

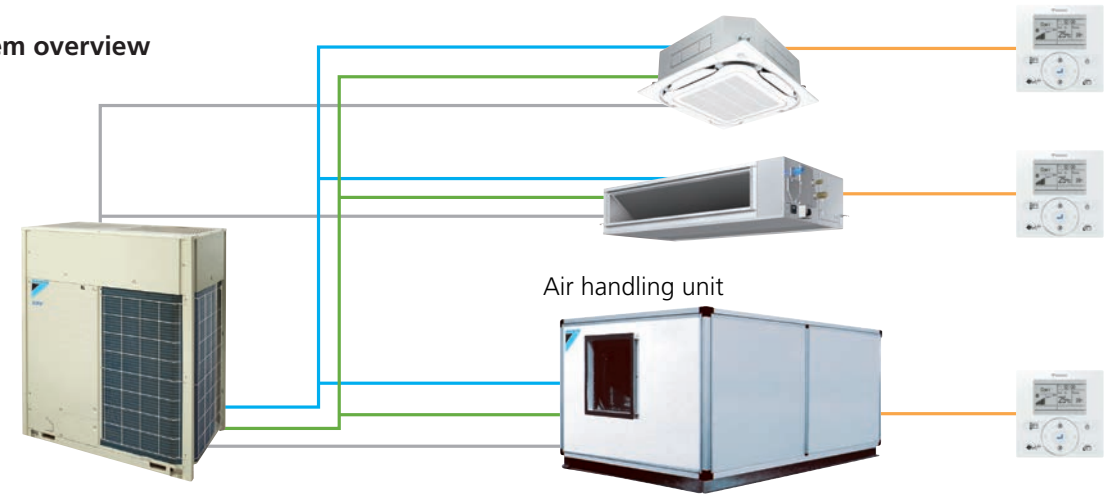
Air Handling Unit

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 – 60 class

System overview



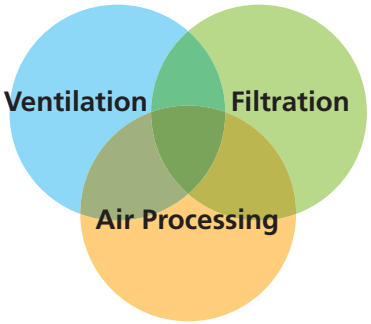
Daikin air handling units can be connected to ***VRV*** systems.
This combination can be built to order as a system. Outdoor air series is also possible. Please contact your local sales office for details.

Air Treatment Equipment

Daikin's air treatment systems creating a higher IAQ

Components of indoor air quality

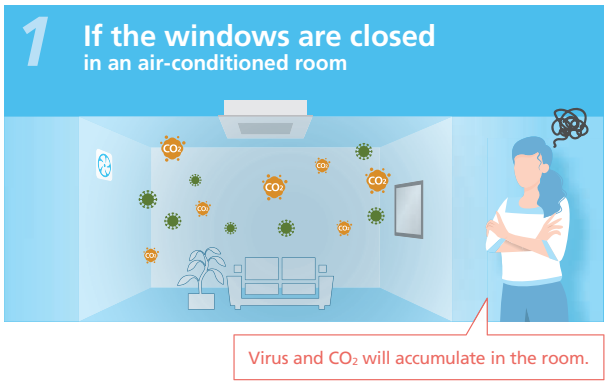
Air Conditioning +

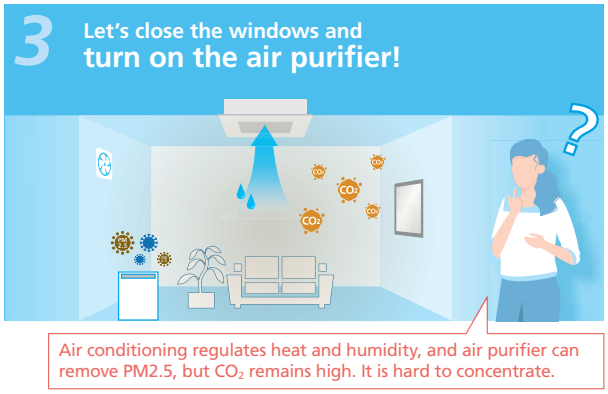


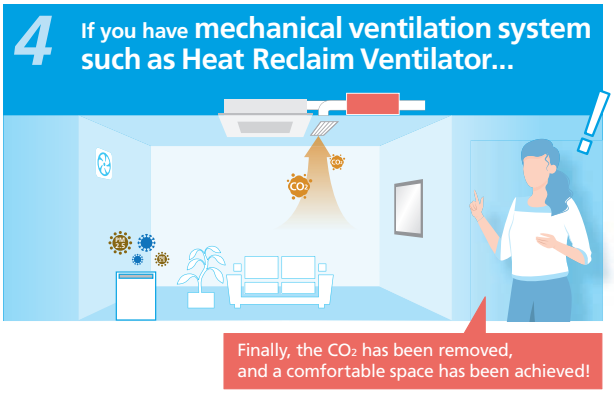
A recent trend rapidly gaining popularity is for air treatment to be required as well as air conditioning. Daikin has a lineup of 3 products that provide adequate IAQ, according to the client's needs.

Our Solutions for Indoor Air Quality Problems

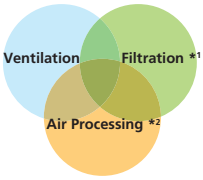
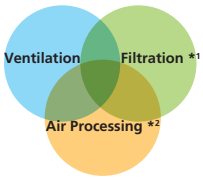
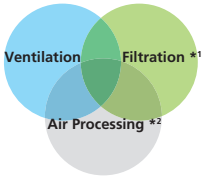
You may think cool and comfortable air-conditioned room is enough, but...





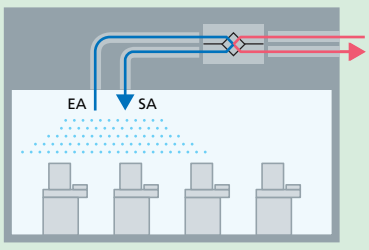
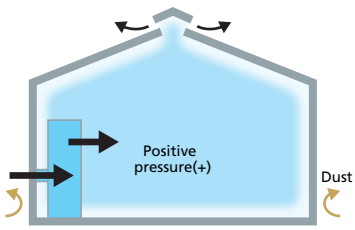
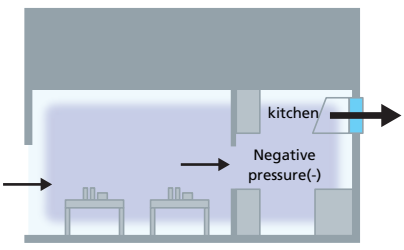


Ventilation equipment can be selected according to suit purpose and circumstances

		Outdoor Air Processing Unit	Heat Reclaim Ventilator	
		FXMQ-AF series	VKM-GC series	VAM-H series
		 	 	 
Connections with ***VRV*** systems	Refrigerant Piping	Connectable	Connectable	Not connectable
	Wiring	Connectable	Connectable	Connectable
	After-cool & After-heat Control	Available	Available	Not available
Ventilation class		Class 2	Class 1	Class 1
		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
PM2.5 Filter (Option)		—	Available	Available
MERV8/14 Filter (Option)		Available	—	—
Airflow Rate		690 - 2,160 m^3/h	500 - 950 m^3/h	150 - 2,000 m^3/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.
		

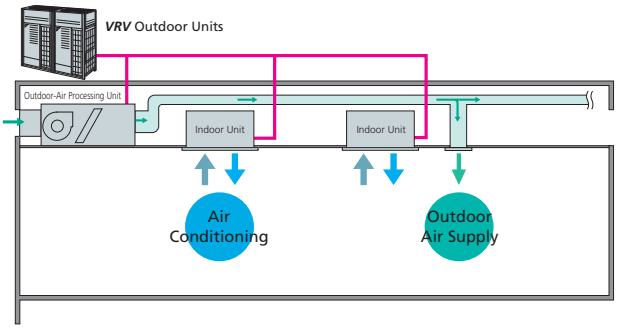
Air Treatment Equipment

Outdoor-Air Processing Unit (Room Temperature Control Type)

New 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	Conncetion 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%

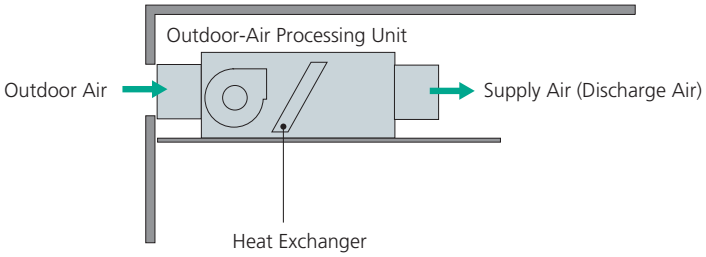
$$\text{Connection ratio} = \frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$$

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.

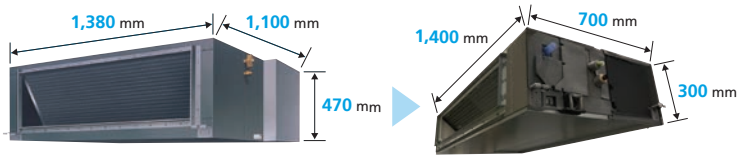
3-step airflow control

Control of the airflow rate has been improved from 1-step to 3-step control, which enhance usage and design flexibility.

Slim & compact design

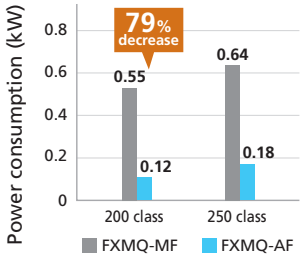
Only 300 mm in height and 700 mm in depth, the new casing comes with smaller footprint and with 59% reduction* in unit size.

* 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.

Variable Refrigerant Temperature

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

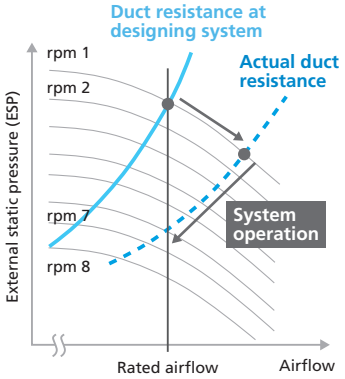
50 Pa — 200 Pa

"Airflow rate auto adjustment function" at field setting

(local setting by remote controller)

*This function can only be set via wired remote controller.

Design	Installation	Field setting **without** "airflow rate auto adjustment function"	Various adjustments are required (Due to excess or deficiency of airflow) e.g. Duct re-construction, Motor replacement, Damper replacement, etc.
Design	Installation	Field setting **with** "airflow rate auto adjustment function" by remote controller	**Innovating Function!**



<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.

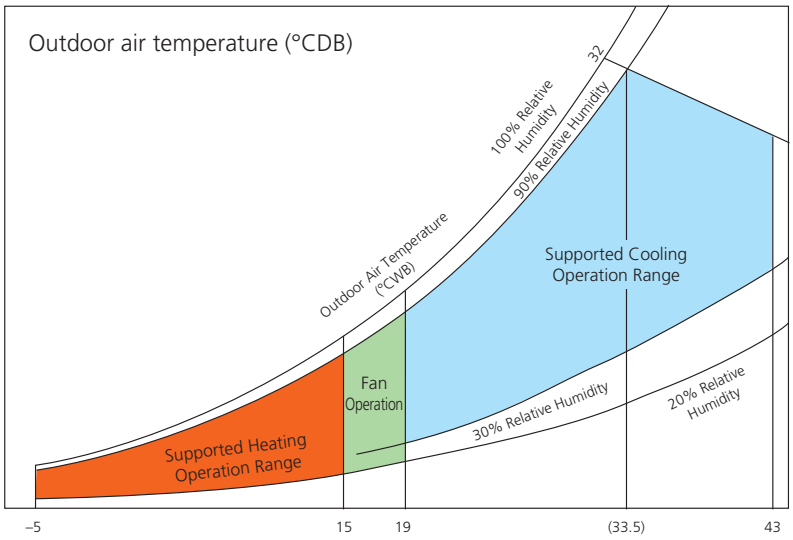
Notes: "Airflow rate auto adjustment function" can be adjusted within ±10% of rated airflow. (Refer to Engineering Data Book for details)
"Airflow rate auto adjustment function" should be used at field setting only.

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 / heating15°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, 220-230-240 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 (H×W×D)		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)	ℓ/s	192/143/97	342/257/172	483/363/242	600/450/300
		m^3/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
	External static pressure	Pa	Rated 100 (200-50)			
Air filter			*2			
Refrigerant piping	Liquid	mm	ϕ9.5 (Flare)			
	Gas		ϕ15.9 (Flare)		ϕ19.1 (Brazing)	ϕ22.2 (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	BRC1H63W(K) / BRC1E63 / BRC2E61			
	Wireless remote controller	BRC4C65			
	Remote sensor (for indoor temperature)	BRCS01A-6			
	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	
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			
Multi tenant unit for indoor (24V free type)		★ BRP114A61			
Multi tenant unit Booster (24V free type)		★ BRP114A63			
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.

Air Treatment Equipment

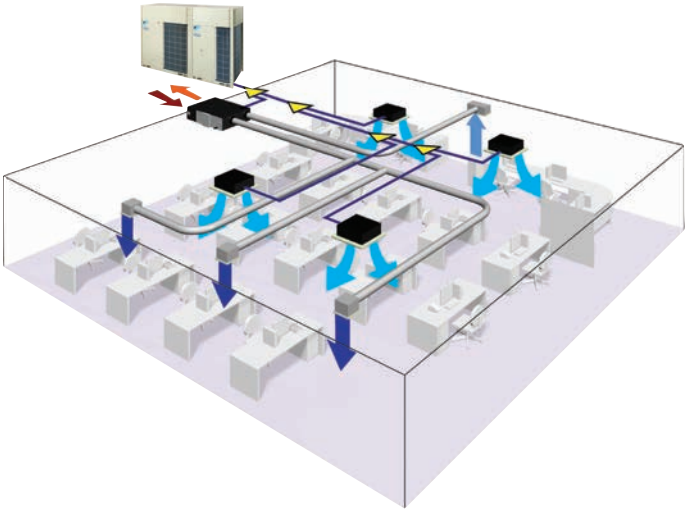
Heat Reclaim Ventilator with DX-coil

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.

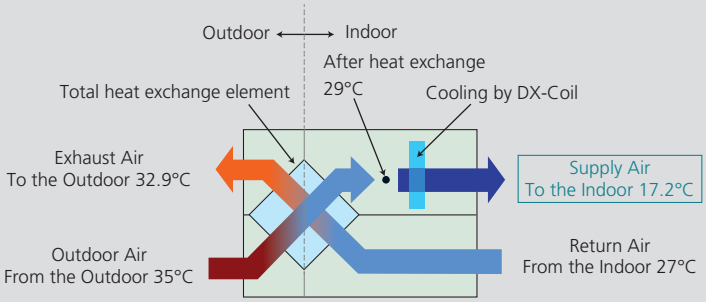
This energy-saving heat reclaim ventilator further reduces air conditioning load.

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.

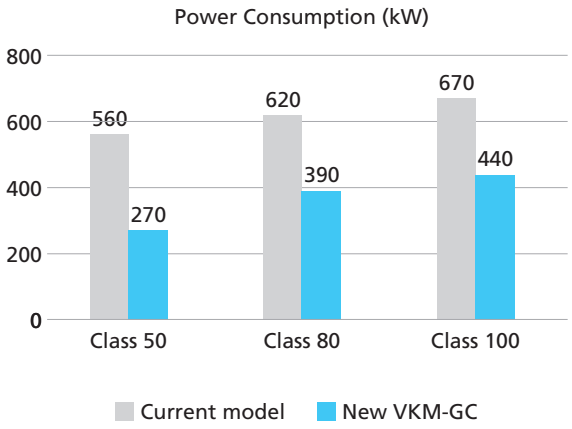
The supply air is cooled from 29°C to 17.2°C with DX-coil.

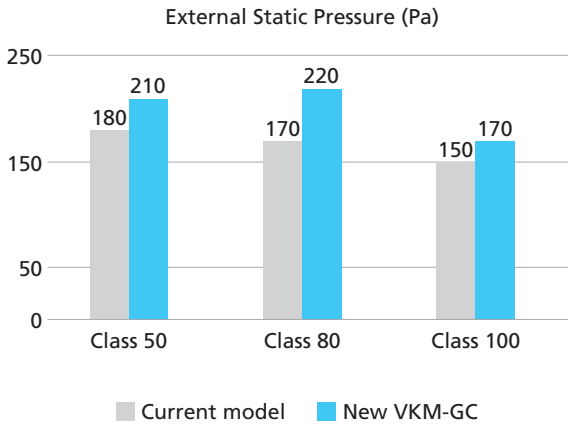
Structure of VKM series



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

CO_2 sensor control (Option)

* Refer to page 189 for details.

When CO_2 sensor is installed, it detects the concentration of CO_2 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 190 - 192 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.

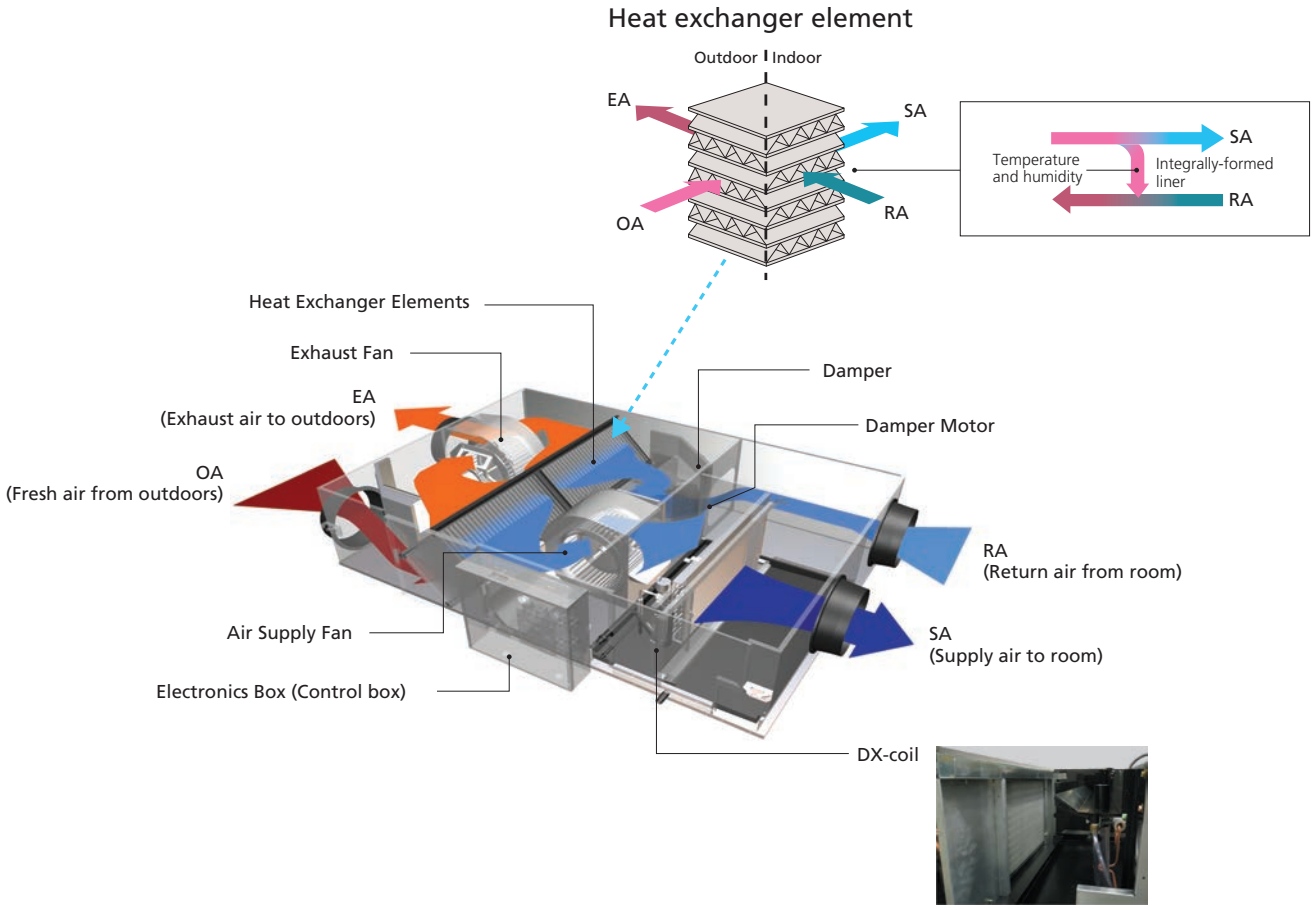
- PM2.5 filter: Removes 99% or more of 2.5 μm particulate matter.
- Activated Carbon filter: Removes sulfur oxides and nitrogen oxides

Other characteristics

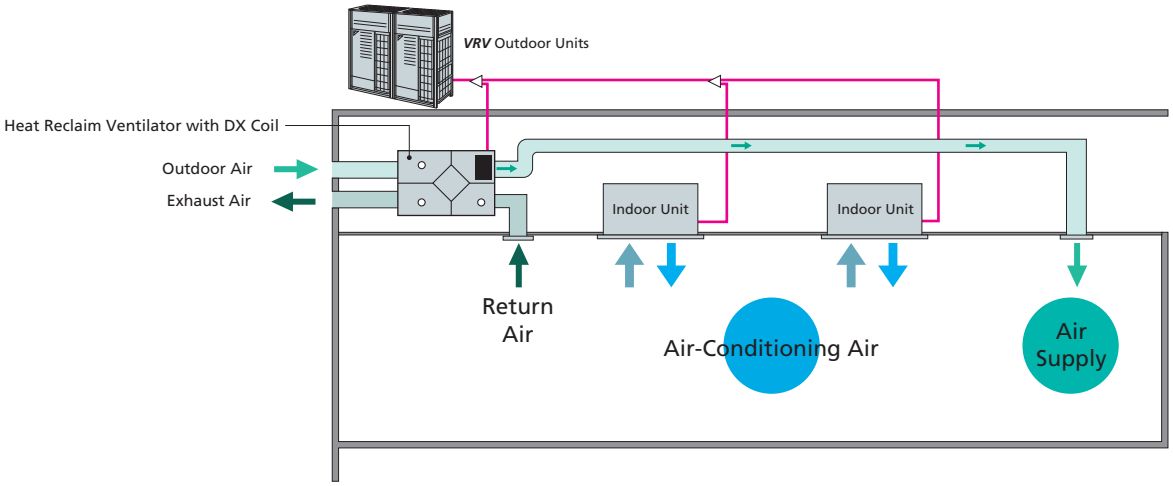
- Nighttime free cooling operation * Refer to page 186 for details.
- Stainless drain pan
- High-efficiency filter (Option)

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 V/220 V, 50/60 Hz		
Airflow Rate & External Static Pressure (Ultra-high / High / Low) (Note 4)	Airflow	m^3/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	ϕ6.4 (Flare)		
	Gas	mm	ϕ12.7 (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

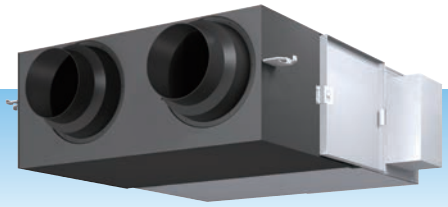
Item \ Type				VKM50GCVE	VKM80GCVE	VKM100GCVE
Controlling device	Remote controller *1			BRC1H63W(K) / BRC1E63		
	PCB Adaptor	Wiring adaptor for electrical appendices		KRP2A61		
		For heater control kit		BRP4A50A		
Additional function	Silencer			—	KDDM24B100	
		Nominal pipe diameter	mm	—	ϕ250	
	High efficiency 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	

*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 190 - 192 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

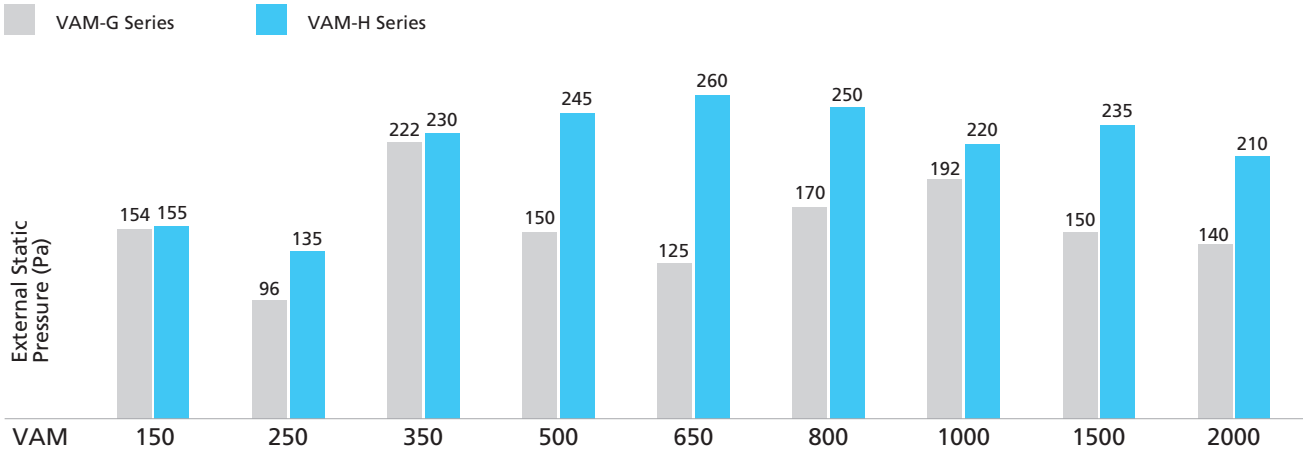
New features

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.

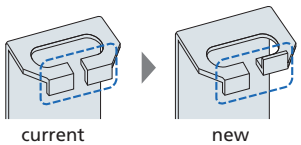
■ Comparison of external static pressure



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.

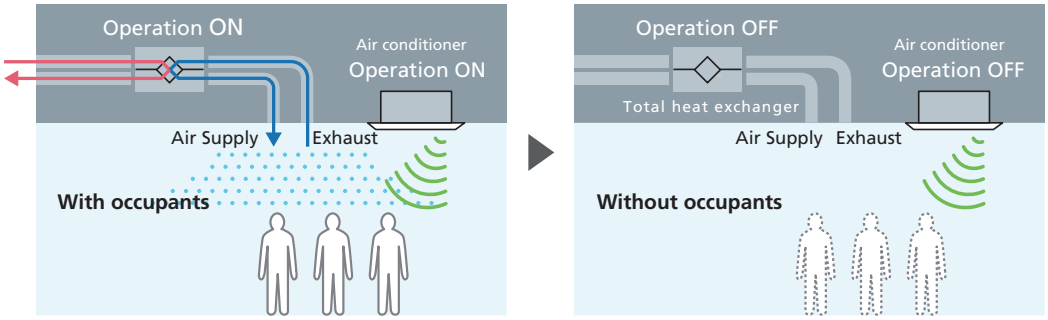


Energy saving

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.



* During group controlling of air conditioner, no occupancy stop mode cannot be used.
* During 24-hours ventilation mode is turned on, the normal operation mode is changed to 24-hours ventilation mode.
* Once the absence is detected and stopped, the operation will not be performed automatically again.

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.

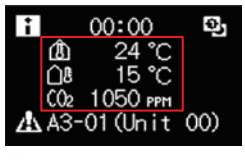
When the humidity sensor is not installed	When the humidity sensor is installed
Outdoor air with high humidity enters through normal ventilation.	When outdoor air with high humidity is detected, the system automatically switches to ventilation mode and prevents the humid outdoor air from entering.
• **Discomfort increases.** • **Air conditioning load and inefficiency increase.**	• **Air conditioning load is reduced.** • **Comfort greatly improves.** • **Energy savings are also increased.** • **Moreover, ventilation amount is also controlled according to humidity conditions.**

Stylish remote controller

NEW 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.

NEW Sensor view of the Information screen



Note:
3 items selected by remote controller setting.

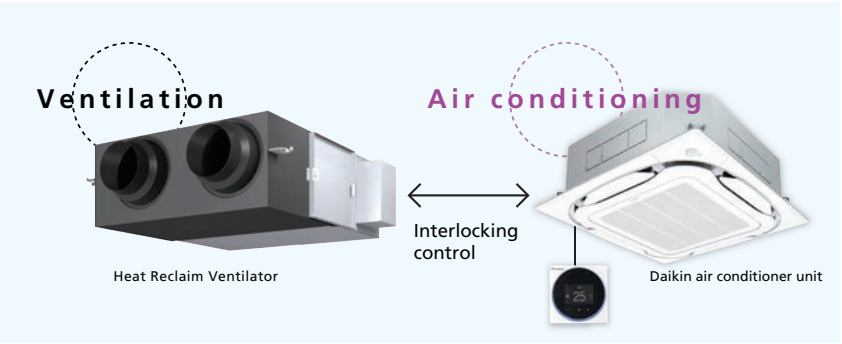
Air Treatment Equipment

Heat Reclaim Ventilator

Energy saving / Heat recovery functions

Air conditioner and ventilation system can be interlocked to provide even greater comfort and energy saving.

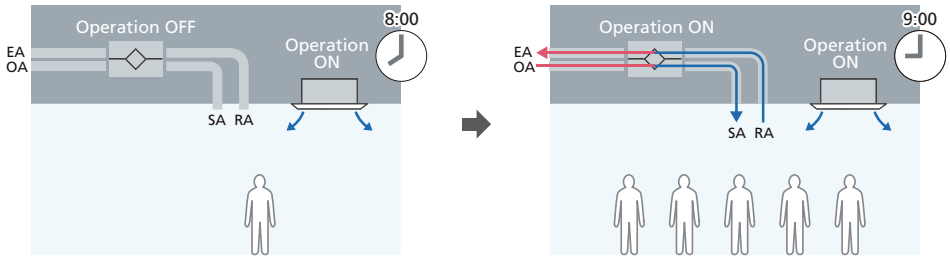
The system can be interlocked with Daikin air conditioners to provide energy saving ventilation solution for various situation.



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.

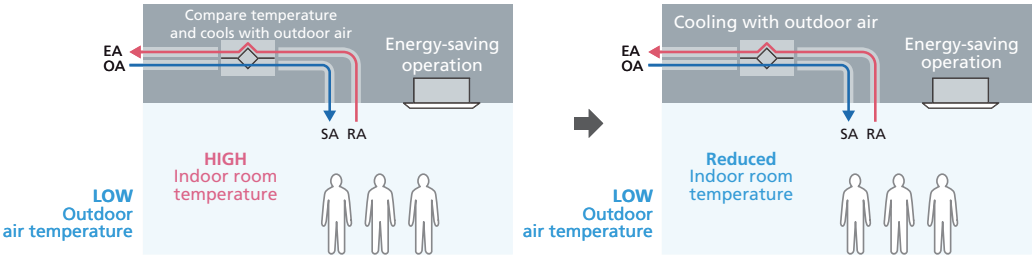


* The delay time can be changed using field settings.

Auto-ventilation mode changeover switching

Automatically determine the appropriate ventilation for each situation

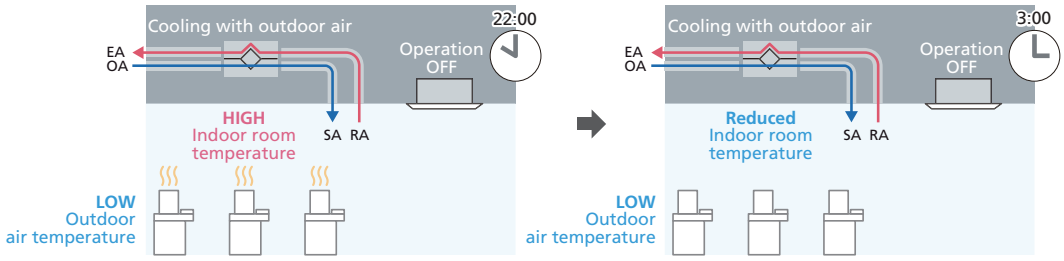
Indoor temperature and the outdoor temperature are detected, and the system automatically switches to the ventilation mode which has higher energy-saving effect.



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.



*The system is automatically controlled by the set temperature of the ***VRV*** indoor unit.

CO_2 sensor control (Option) *Refer to pages 189 for details.

When CO_2 sensor is installed, it detects the concentration of CO_2 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)

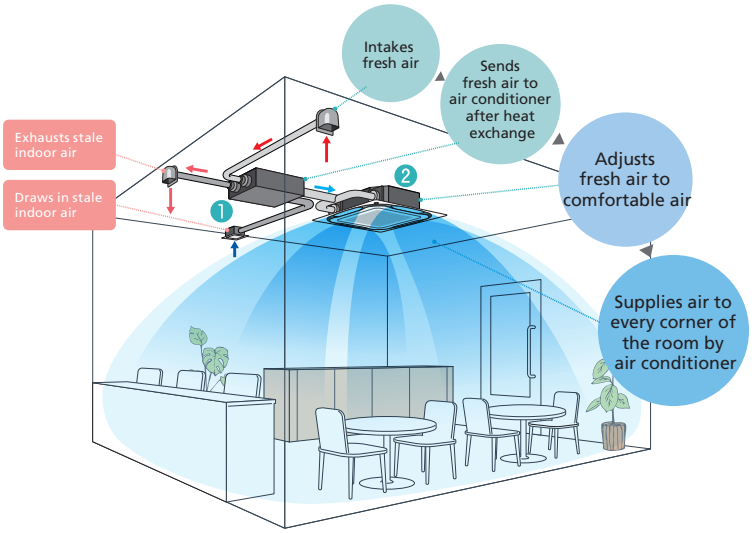
PM2.5 filter (Option) *Refer to pages 190 - 192 for details.

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	m^3/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		0.190 × 4	
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

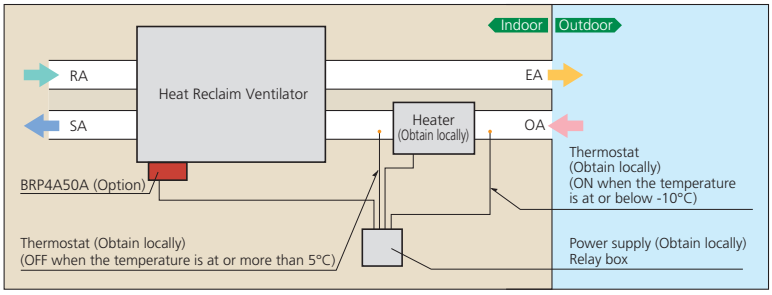
Options

Item \ MODEL			VAM150HVE	VAM250HVE	VAM350HVE	VAM500HVE	VAM650HVE	VAM800HVE	VAM1000HVE	VAM1500HVE	VAM2000HVE
Additional function	Silencer		—			KDDM24B100				KDDM24B100 × 2	
	Nominal pipe	mm	—			φ200		φ250			
	High efficiency filter		KAF242J25M		KAF242J50M	KAF242J65M		KAF242K100M		KAF242K100M × 2	
	Air filter for replacement		KAF241L25M		KAF241L35M	KAF241L65M		KAF241L100M		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			
Wired remote controller			BRC1H63W (White) / BRC1H63K (Black) / BRC1E63 / BRC2E61								
Controlling device	Centralised controlling device	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 189 for details. *3. Refer to pages 190 - 192 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.



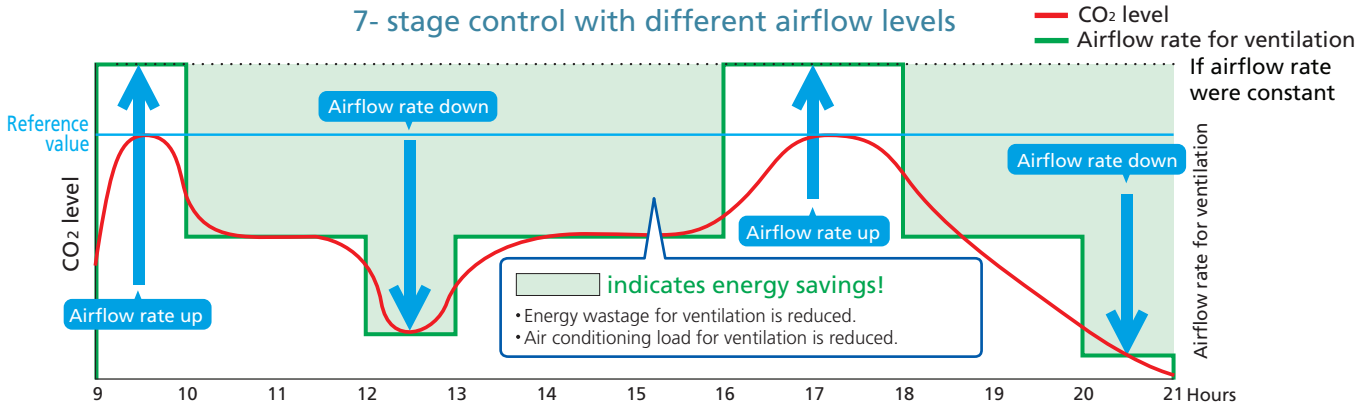
Notes when installing :
- Examine fully an installation place and specification for using the electric heater based on the standard and regulation of each country.
- Supply the electric heater and safety production devices such as a relay and a thermostat, etc of which qualities satisfy the standard 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.

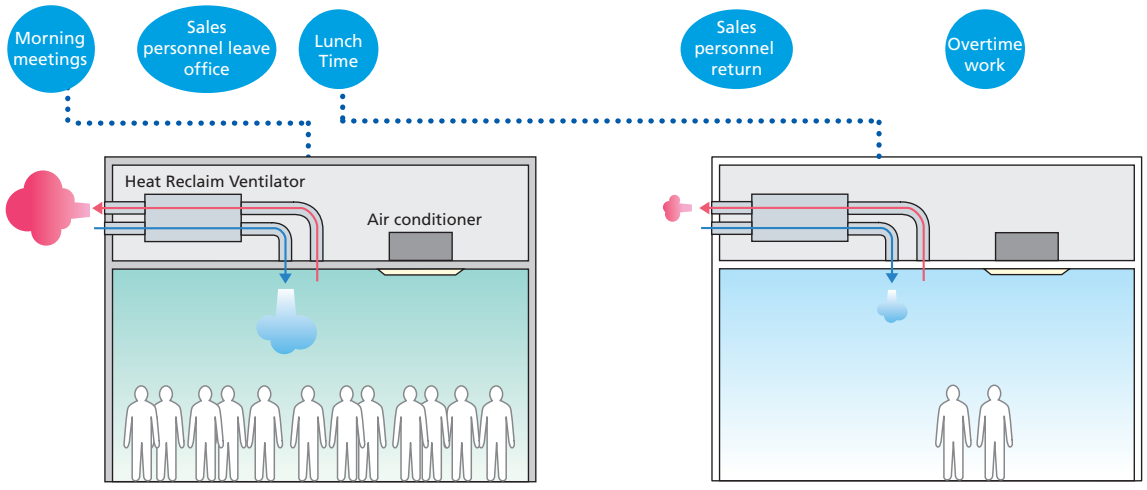
Air Treatment Equipment

Airflow rate control with CO_2 sensor (Option) for VAM / VKM series

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

● Example of CO_2 sensor operation in an office room:





Many people increase CO_2 level:

Airflow rate up

Fewer people decrease CO_2 level:

Airflow rate down

PM2.5 filtration unit (Option) for VAM / VKM series

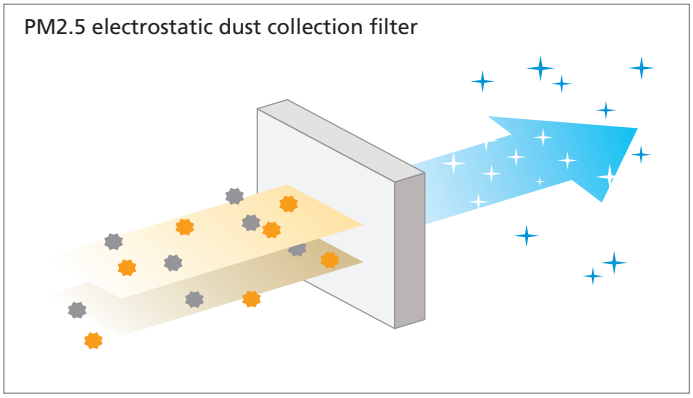
Rapid urbanization has increased industrial and automobile emissions, resulting in higher PM2.5 levels. This has become the source of respiratory diseases and poses a serious threat to a long term health issue. As the air quality has worsened, research has shown the harmful effects of PM2.5 on the health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



PM2.5
Removal Rate
99%

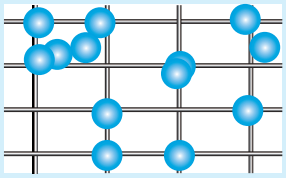
*Test results by the Heating, Ventilation and Air Conditioning Lab at Tongji University
Test environment: temperature 25-26°CDB, humidity 58-60%RH

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.

Daikin Electrostatic Dust Collecting Filtration



With the capturing effect of static electricity, particles are adsorbed on the filter fabric.

The filter is not blocked and therefore continuous Supply Air is guaranteed.

Long-lasting highly efficient dust collection capacity

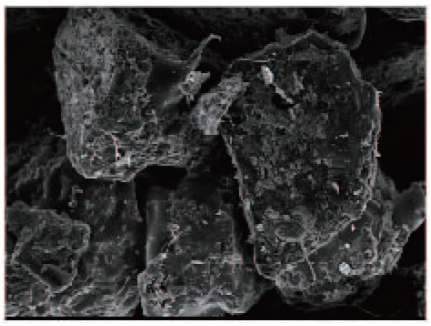
PM2.5 with activated carbon filtration unit (Option) for VAM / VKM series

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.

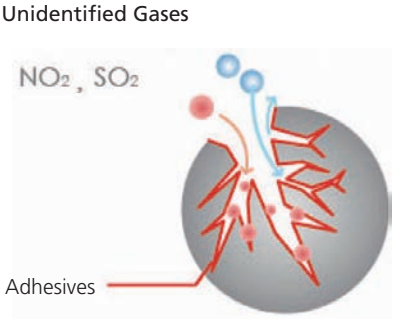
Notes: Surface area of active carbon: 700 m^2/g
Given a newspaper page of 40.6 cm wide by 54.6 cm long, each gram of active carbon has a surface area of 3,000 newspaper pages.



Intelligent Identification, Super-effective Adhesion

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

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



Specifications

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	ϕ100	ϕ150	ϕ150	ϕ200	580×348
Airflow Rate		m^3/h	150	250	350	500	2,100
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42	less than 40
	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	ϕ100	ϕ150	ϕ150	ϕ200	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	less than 40
	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	less than 10
	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) New

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

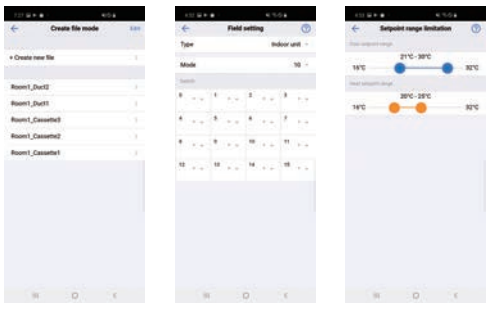
User-friendly interface

- 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

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)

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

BRC1E63

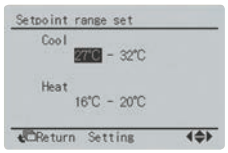
BRC1F61
(Only for FXEQ series)

A series of user friendly functions that can be individually selected

Energy saving

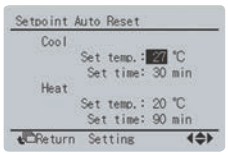
Setpoint range set

- 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.

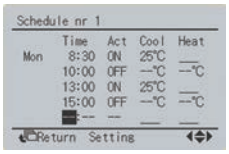
Convenience

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 FXFSQ series.

BRC-C, E series

Signal receiver unit (Separate type)

- Backlight LCD of new wireless remote controller

Pressing the backlight button helps operating in dark rooms.

- A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.

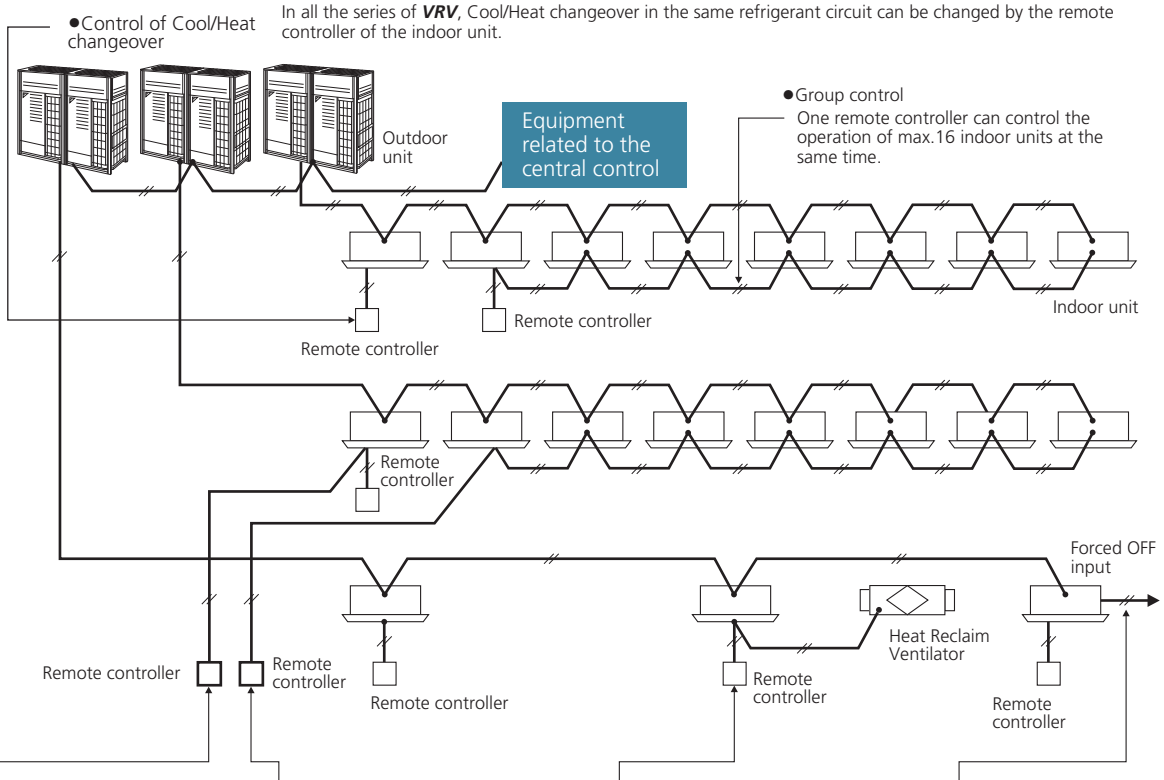
* Wireless remote controller and signal receiver unit are sold as a set.
* Refer to page 222 for the name of each model.

Wide variation of remote controllers for *VRV* indoor units

MODEL	FXFTQ	FXFSQ	FXZQ	FXCQ	FXEQ	FXDQ	FXDYQ	FXSQ	FXMQ	FXUQ	FXHQ	FXAQ	FXLQ	FXNQ
Stylish remote controller (BRC1H63W / BRC1H63K)	●	●	●	●	●	●	●	●	●	●	●	●	●	●
"Nav Ease" remote controller (BRC1E63)		●	●	●		●	●	●	●	●	●	●	●	●
"Nav Ease" 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 222 for the name of each model.

The wired remote controller supports a wide range of control functions



1 Control by two remote controllers

The indoor unit can be connected by the two remote controllers, for example one in the room and the other one in the control room, which can control the operation of indoor unit freely. (The last command has a priority.) Of course, the group control by two remote controllers is also possible.

2 Remote control

The wiring of remote controller can be extended to max. 500 m and it is possible to install the remote controllers for different indoor units in one place.

3 Control for the combined operation

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

4 Expansion of system control

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

Control Systems

Integrated building monitoring system

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

Building Control System

intelligent Touch Manager

intelligent Touch Manager
(DCM601B51)

Via internet

ACC Centre

Air Conditioning Network Service System
(There are restrictions in applicable areas and release times, therefore please consult us separately for details.)
(Optional Maintenance Service)

Controllers for Centralised Control

intelligent Touch Controller
(DCS601C51)

Residential central remote controller
(DCS303A51)

Via internet

Control /Connection Interface

Unification adaptor for computerised control
(DCS302A52)

Master Controller

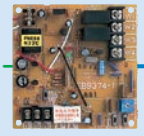
Modbus® Communication Adaptor
(DTA116A51)

BMS

(Obtain locally)

Interface for use in BACnet®
(DMS502B51)

Interface for use in LONWORKS®
(DMS504B51)



Wiring adaptor for electrical appendices
(KRP2A61/62/51/53)

DIII-NET Line

BACnet®/Ethernet or LONWORKS® Network Communication Line

Contact Signal Line

RS485 Modbus® Line

The DIII-NET system provides for:

- Close control and monitoring by integrating a wide variety of air-conditioners in the entire building.
- Saves the in-building cabling using non-polar, two-wire cables. Easier wiring work with tremendously fewer wiring errors.
- Additional setups readily up and running. An extendable cabling up to 2 km in total.
- Different control equipment flexibly joined in the system for hierarchical risk diversification.
- Daikin's total heat exchangers and other devices under integral control.

DIII-NET
(High Speed Multiple Transmission)

DIII-NET, Daikin's unique high speed multiple transmission system, links air conditioners and various other building equipment — in accordance with applications, scale and conditions — and transmits vast amounts of information between them.

VRV

Heat Reclaim Ventilator

Interface Adaptor for SkyAir Series
(DTA112BA51)

SkyAir

* No adaptor is required for some indoor units.

Central Control Adaptor Kit
(DTA107A55)

Packaged Air-conditioner

Interface Adaptor for DIII-NET use
(KRP928BB2S)

Residential Air-conditioner

Di unit (DEC101A51)
Dio unit (DEC102A51)

Building services equipment

- Electrical equipment
- Supply water and drainage equipment
- Automatic fire alarm
- Parking equipment
- Lift
- Ventilation equipment
- Lighting
- Crime and fire prevention equipment

VRV

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

Advanced control systems for ***VRV*** systems

intelligent touch Manager

DCM601B51

Various types of equipment in a building can be controlled by a single controller.

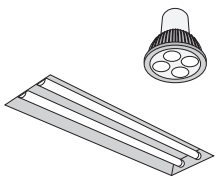
One touch selection enables flexible control of equipment in a building.

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).

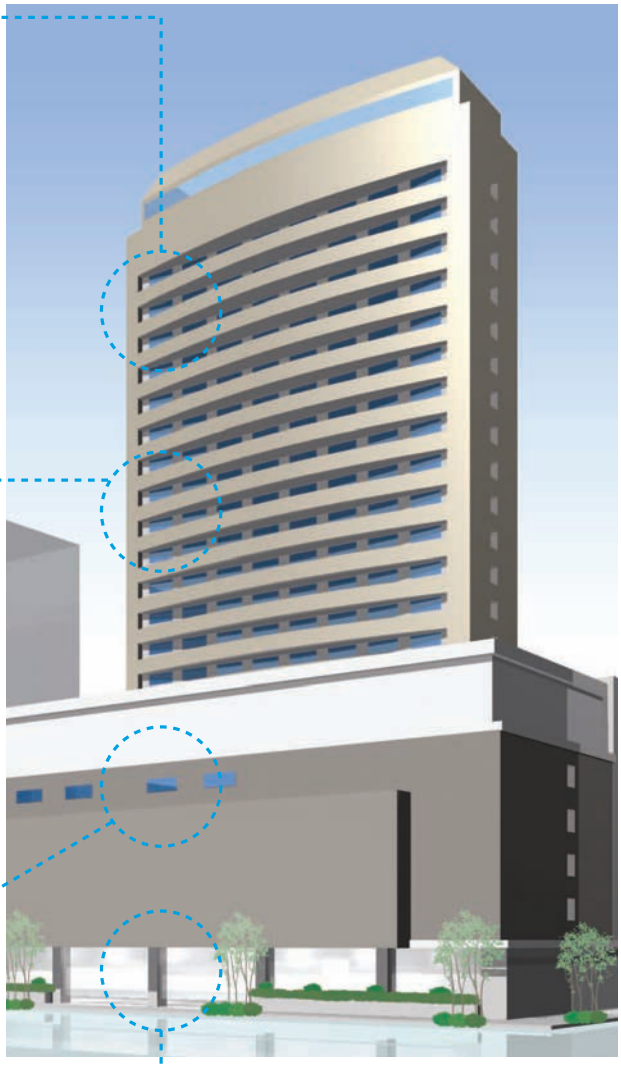
Lighting control DALI-compatible

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.

Pump

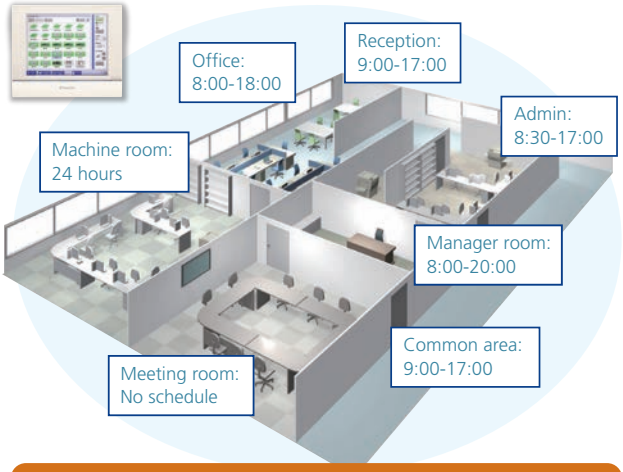
Fan

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.

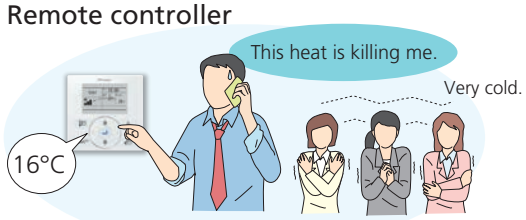
Schedule the operation time for each application.



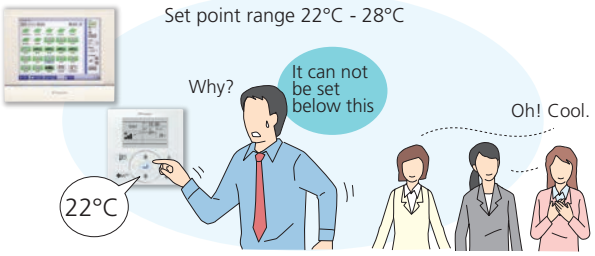
Setting the I-demand function and nighttime quiet operation function is also possible.

Define the setpoint range that users can change.

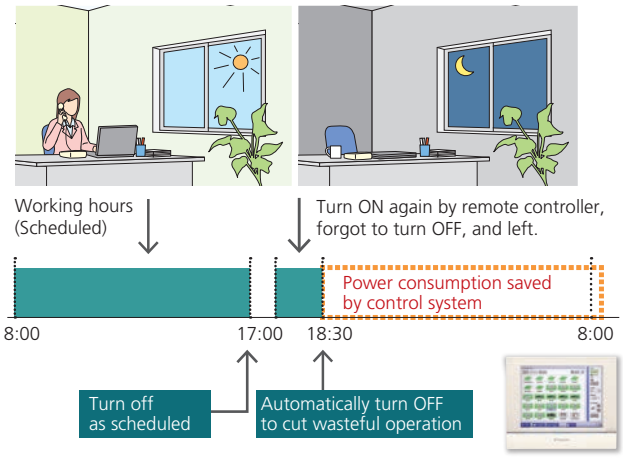
With Remote controller



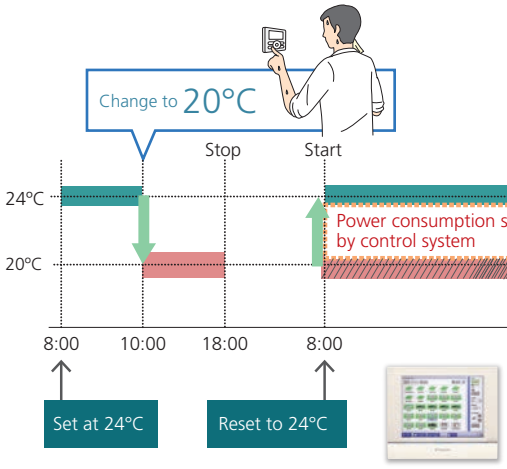
With Control System



Turn the unit OFF if a user didn't.



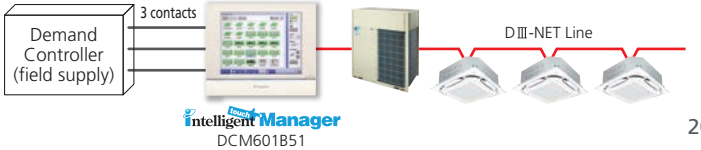
Reset setpoint regularly.



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.

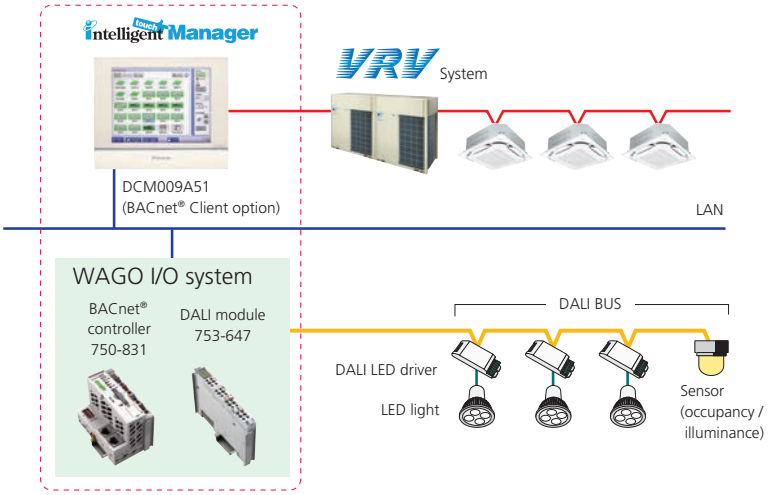
Simple wiring (daisy chain) enables management of LED lighting by the ***intelligent Touch Manager***. Various air conditioning and lighting control is enabled through the interlock with occupancy sensors and illuminance sensors.

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!



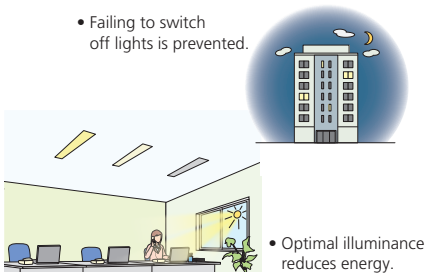
Overview of control

- 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

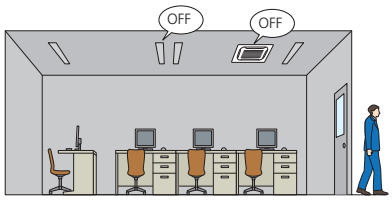
Case 1

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



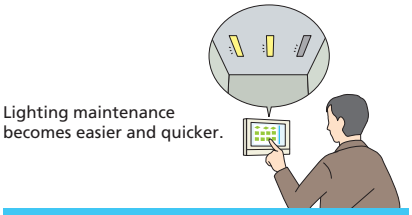
Case 2

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.



The layout screen enables quick identification of specific locations.

Tenant management

Reporting the power consumption of *VRV* system for each tenant (PPD* Option)

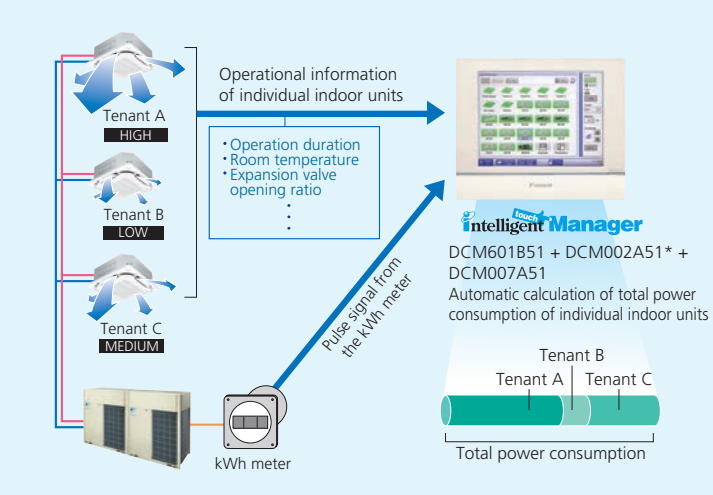
With the PPD function, power consumption can be calculated for each indoor unit (Option)

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.



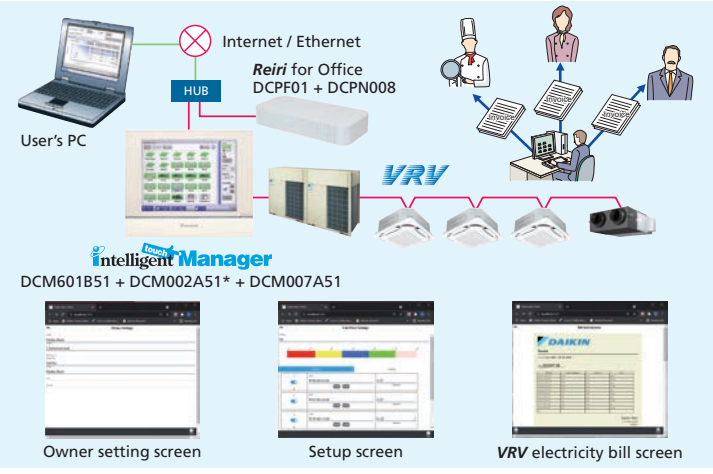
*PPD (Power Proportional Distribution) is Daikin's proprietary calculation method.

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)

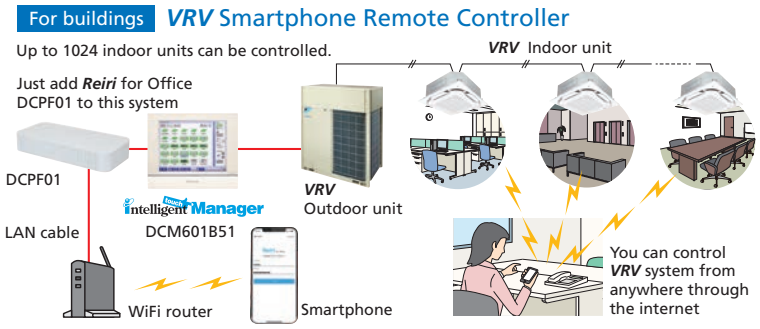


*PPD (Power Proportional Distribution) is Daikin's proprietary calculation method.

Effective service functions offered to tenants

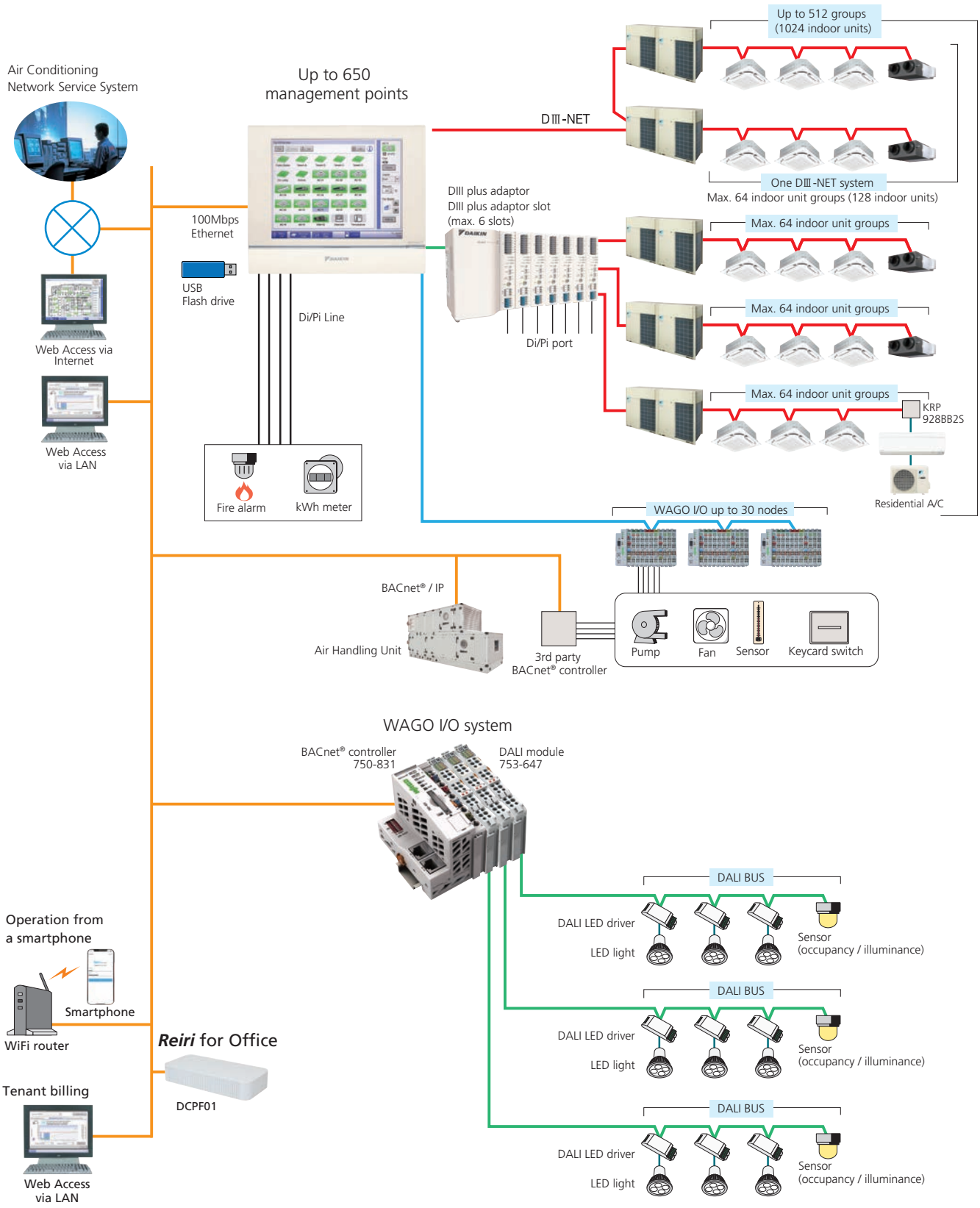
Smartphone will be a remote controller of ***VRV*** system (Option)

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.



Control Systems

intelligent Touch Manager system overview



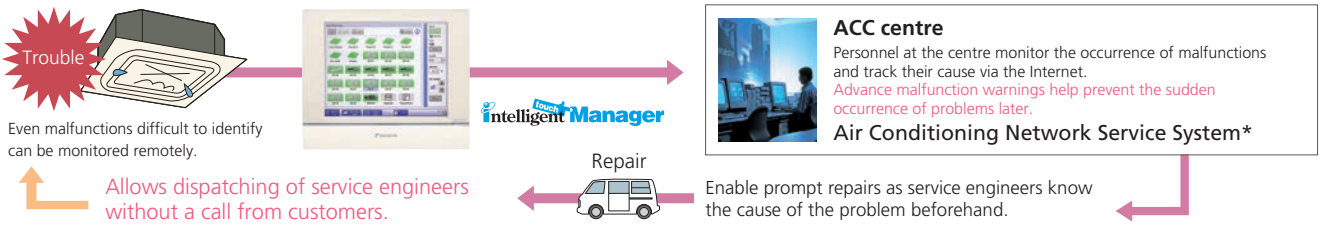
Air conditioning network service system

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.



*Because of restrictions in applicable areas and release times, please consult a Daikin representative separately for details.

Daikin offers a variety of control systems

Convenient controllers that offer more freedom to administrators

intelligent Touch Controller

DCS601C51

Ease of use and expanded control functions

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

Connect *VRV* system to your BMS via BACnet® or LonWorks®

Compatible with BACnet® and LonWorks®, the two leading open network 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 and home 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

Reiri for Office (Touchscreen Controller)

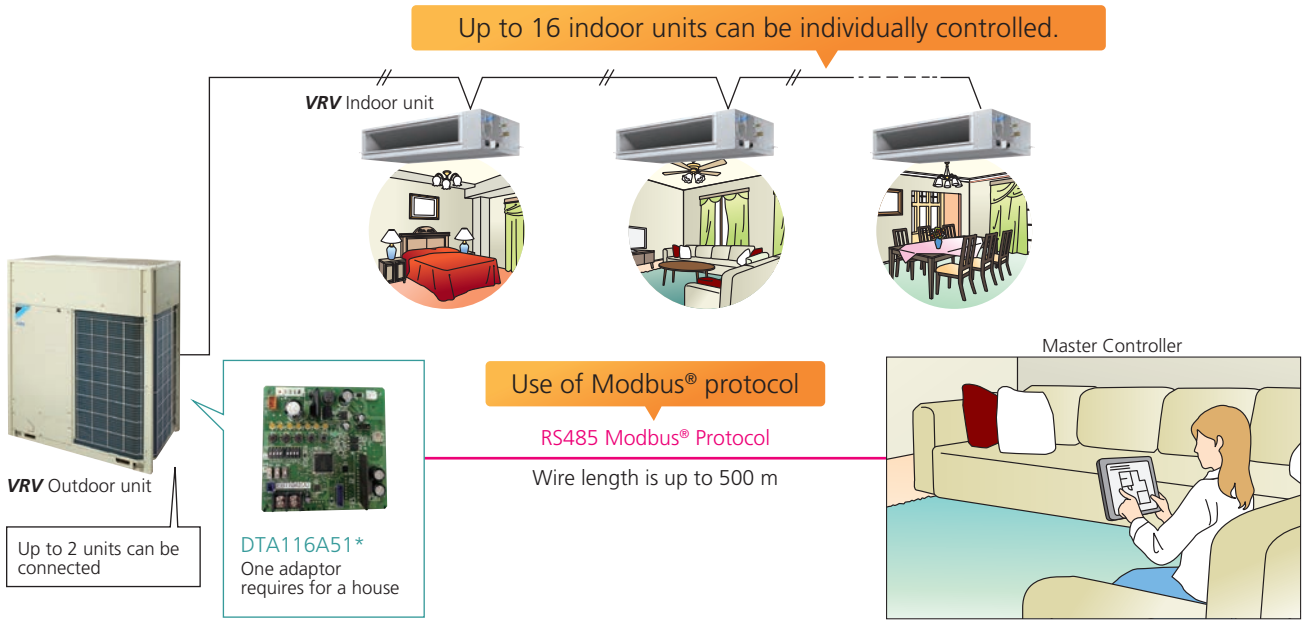
- ***Reiri*** for Office
- ***Reiri*** for Office (Controller Extension)
- ***Reiri*** for Office (Multisite Extension)
- ***Reiri*** for Home

- ***Reiri*** for Home (Lite Version)

Control Systems

Modbus® Communication Adaptor

Image to use Modbus® Communication Adaptor DTA116A51



*A separate power supply for Home Automation Interface Adaptor is necessary. It may not be installed inside some outdoor unit models.

Functions

Monitor

On/Off	On/Off status of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Setpoint of indoor units
Room temperature	Suction temperature of indoor units
Fan direction	Swing, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Forced off status	Forced off status of indoor units
Error	Malfunction, Warning with Error code
Filter sign	Filter sign of indoor units
Communication status	Communication normal/error of indoor units

Control

On/Off	On/Off control of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Cooling/Heating setpoint
Fan direction	Swing, Stop, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Filter sign reset	Reset filter sign of indoor units

Retrieve system information

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

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

Complete control system for *VRV* systems

Reiri

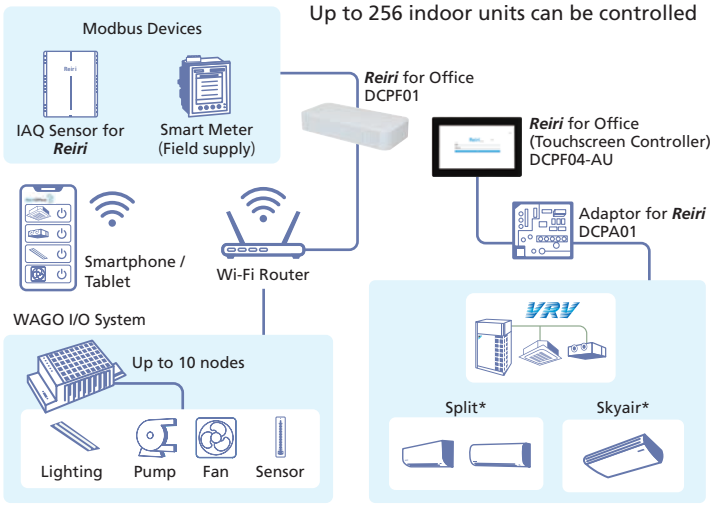
High value smart solution creation for different application

Office Air Conditioning Solution
(*Reiri* for Office :DCPF01 / *Reiri* for Office (Touchscreen Controller) :DCPF04-AU)

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-AU 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.



*Additional Interface Adaptors may be required.

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

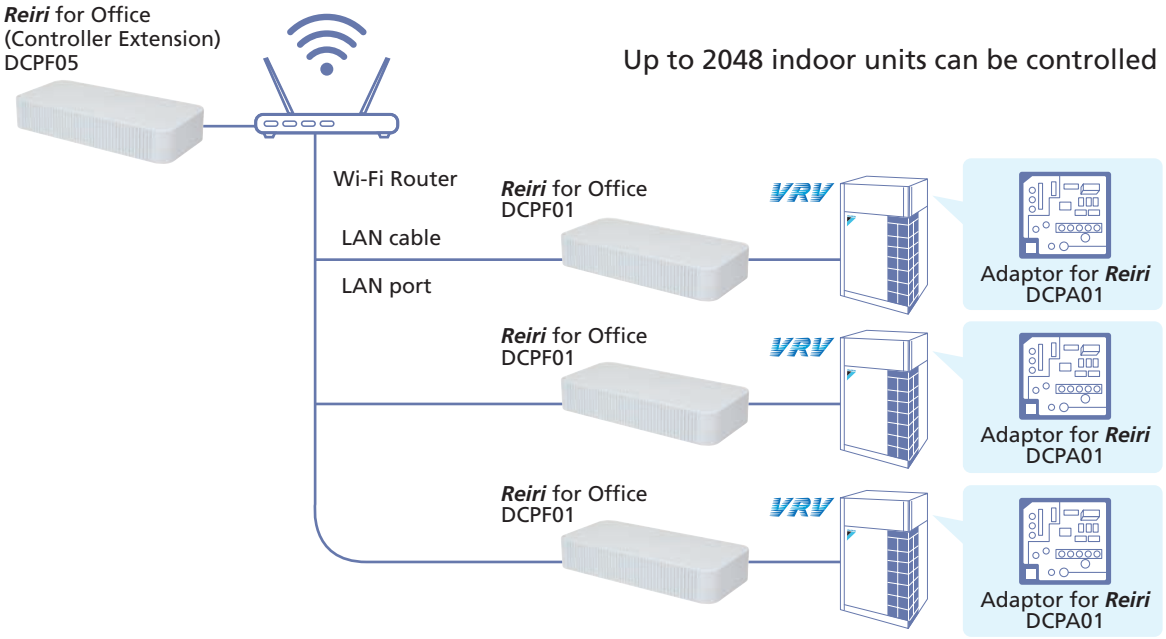
[1] Optional software for ***Reiri*** for Office, DCPF01
[2] Optional software for ***Reiri*** for Office (Touchscreen Controller), DCPF04-AU

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.

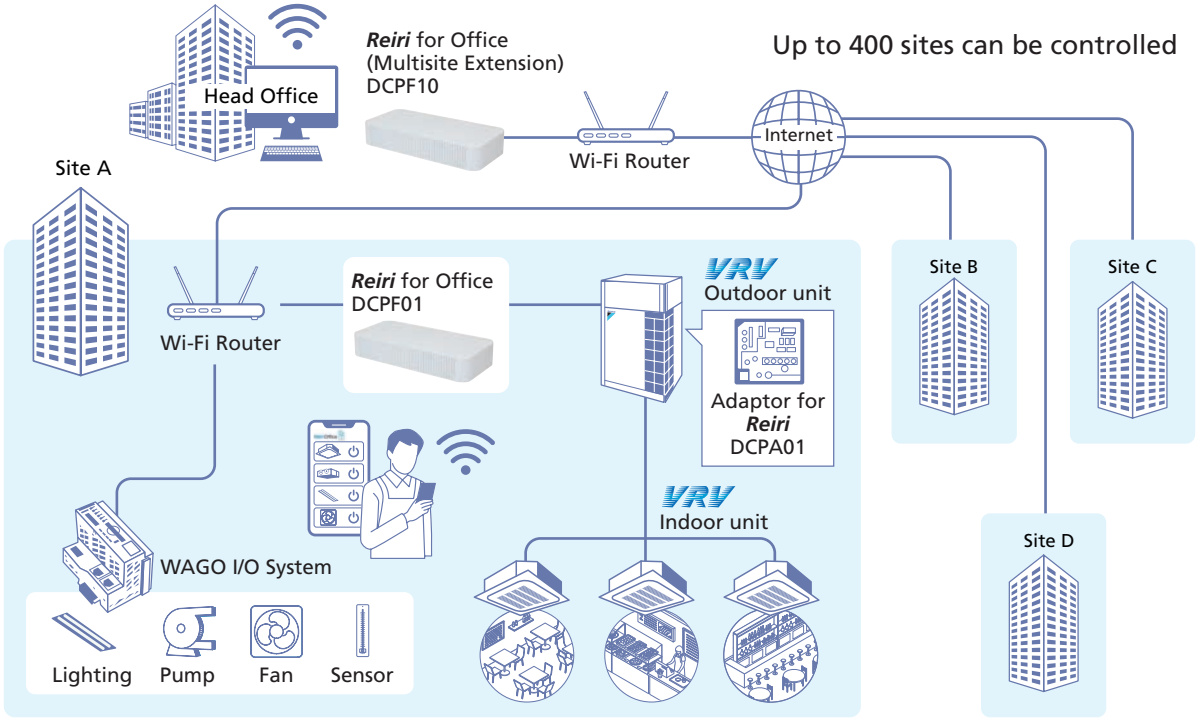
Note: P.P.D. & Tenant Billing Management and Real-Time Energy Monitoring (R.E.M.) are offered as optional software.



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.



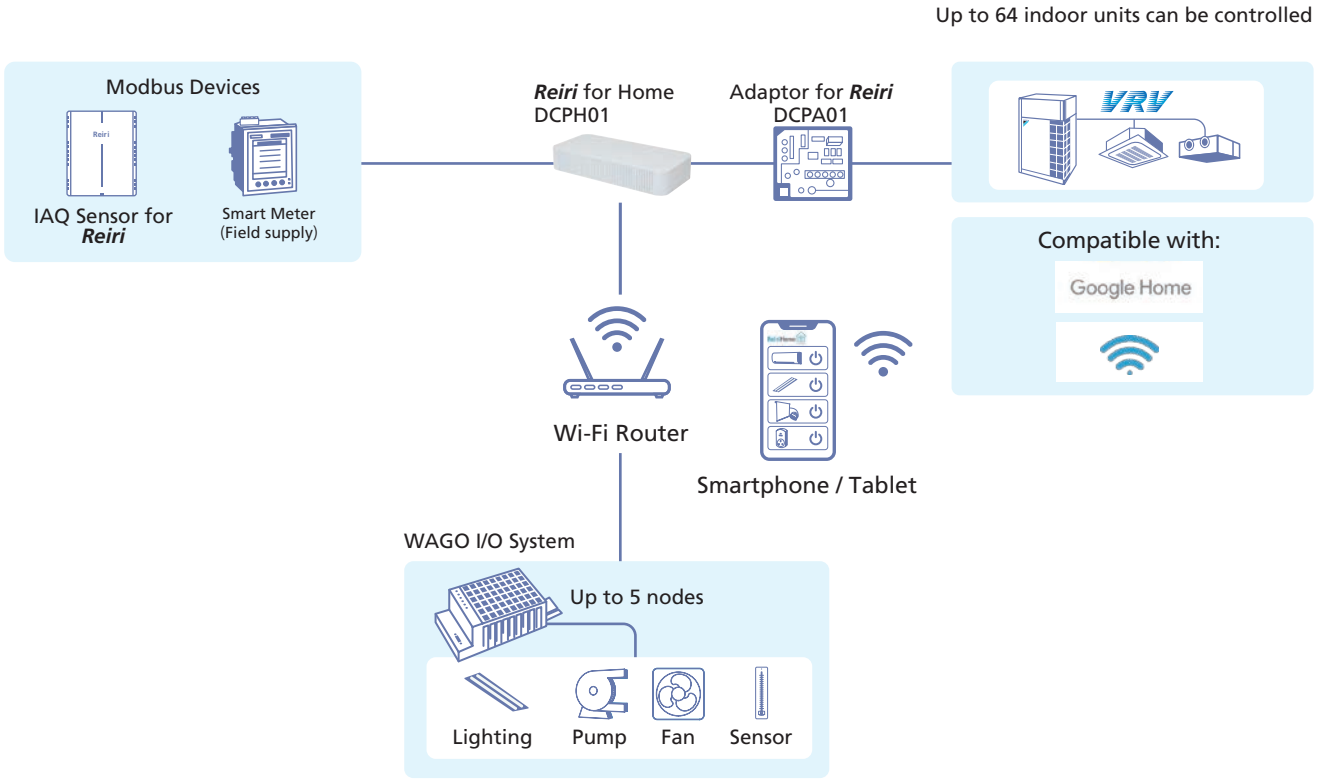
Smart Home Solution (*Reiri* for Home :DCPH01)

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, WAGO, Modbus, LAN communication
- Convenience & Lifestyle
- IAQ Management
- Energy Management
- Home Security Solution
- Google Home Enabled

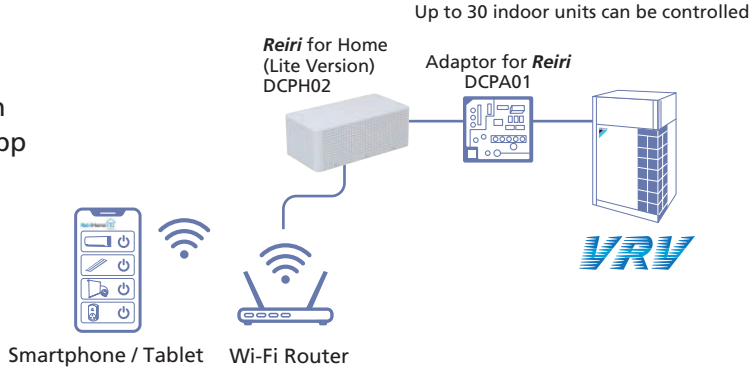
Note: Residential automatic control and system report is offered as optional software.



VRV Smart Centralised Control Solution (*Reiri* for Home (Lite Version) :DCPH02)

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.

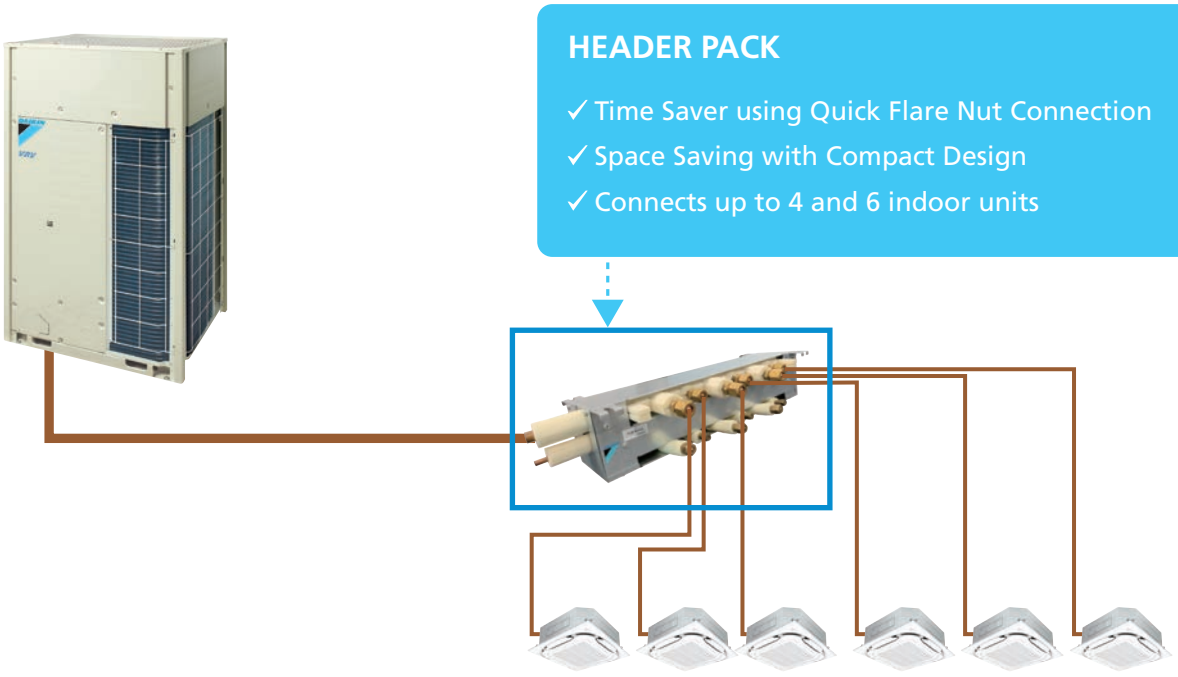


Header Pack (Packaged Refnet Headers)

Save installation time

Indoor unit piping work can be easier and quicker.

A smarter way to connect refrigerant piping



HEADER PACK

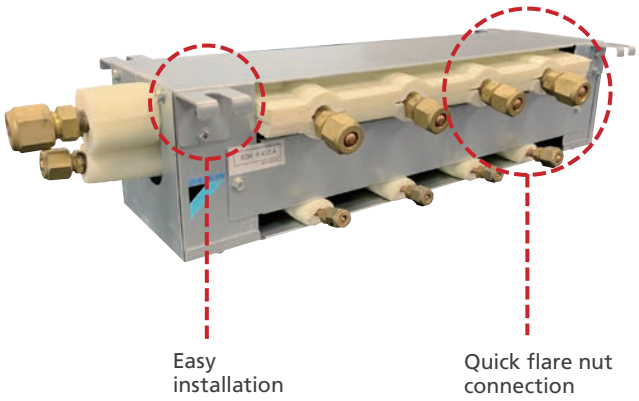
- ✓ Time Saver using Quick Flare Nut Connection
- ✓ Space Saving with Compact Design
- ✓ Connects up to 4 and 6 indoor units

Reliability improvement	Installation improvement
Easy piping installation that anyone can do	Faster work with simplified installation using basic tools

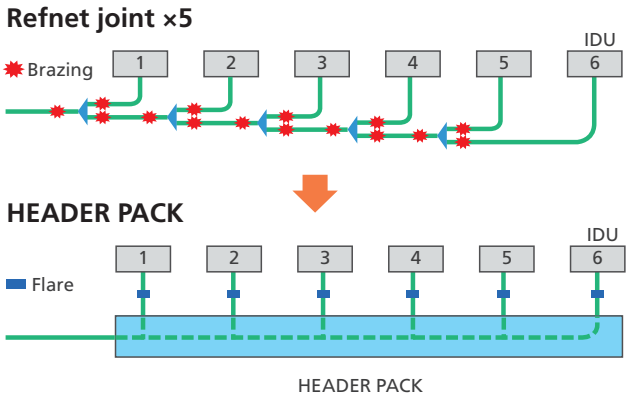
Suitable luxions residence

Simple & Quick!

Easy piping connection / Easy installation



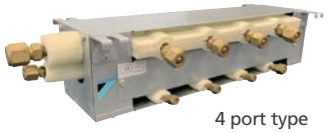
Reduction of connection points by elimination of refnet joints



Advantages

- Easy to install with no brazing required
- Save more than 60% installation time
- Safe to use with no fire hazard danger in the building
- Space saving with attic height reduced by 300 mm

- Connectable up to 4 & 6 IDU


4 port type

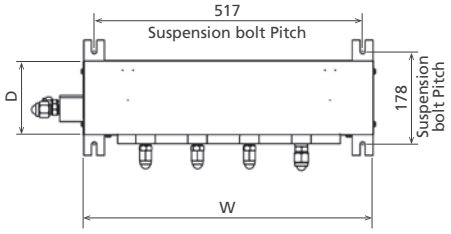

6 port type

HEADER PACK Lineup

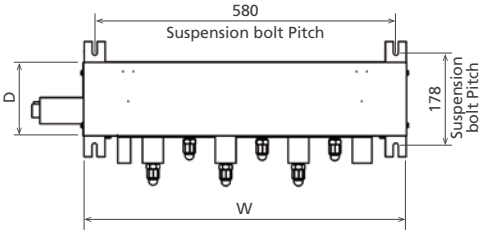
Model name	Outdoor unit side	Indoor unit side (Flare)			Indoor unit total capacity index	Dimension (mm)		
	Liquid / Gas (mm)	Port		Liquid / Gas (mm)		H	D	W
BHF6RHP6Z	9.5 / 15.9 (Flare)	4	Large ×1	φ9.5 / φ 15.9	≦150	135	143	559
			Small ×3	φ6.4 / φ 12.7				
BHF6ARHP6Z	9.5 / 15.9 (Flare)	6	Large ×2	φ9.5 / φ 15.9	≦150	135	143	623
			Small ×4	φ6.4 / φ 12.7				
BHF8RHP6Z	9.5 / 19.1 (Daikin Gas Tight Joint)	6	Large ×3	φ9.5 / φ 15.9	≦200	135	143	623
			Small ×3	φ6.4 / φ 12.7				
BHF10RHP6Z	9.5 / 22.2 (Daikin Gas Tight Joint)	6	Large ×3	φ9.5 / φ 15.9	＜290	135	143	623
			Small ×3	φ6.4 / φ 12.7				
BHF16RHP6Z	12.7 / 28.6 (Daikin Gas Tight Joint)	6	Large ×3	φ9.5 / φ 15.9	＜420	135	143	623
			Small ×3	φ6.4 / φ 12.7				

Dimensions (Top view)

BHF6RHP6Z



BHF6ARHP6Z,BHF8/10/16RHP6Z



Option List

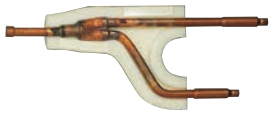
Outdoor units

VRV R SERIES

No.	Item / Type			REYQ8B REYQ10B REYQ12B REYQ14B REYQ16B REYQ18B REYQ20B REYQ22B REYQ24B	REYQ26B REYQ28B REYQ30B REYQ32B REYQ34B REYQ36B REYQ38B REYQ40B REYQ42B REYQ44B REYQ46B REYQ48B	REYQ50B REYQ52B REYQ54B REYQ56B REYQ58B REYQ60B
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		
		2 Pipes	REFNET header	KHRP26M22H(Max. 4 branch), KHRP26M33H(Max. 8 branch), KHRP26M72H(Max. 8 branch), KHRP26M73H(Max. 8 branch)		
			REFNET joint	BHRP26A22TA, BHRP26A33TA, BHRP26A72TA, BHRP26A73TA		
			Pipe size reducer	KHRP26M73HP		
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
(BHRP25A22/33/72/73T, BHRP26A22/33/72/73TA)



Option PCB

No.	Item / Type	REYQ8B REYQ10B REYQ12B REYQ14B REYQ16B REYQ18B REYQ20B REYQ22B REYQ24B REYQ26B REYQ28B REYQ30B REYQ32B REYQ34B REYQ36B REYQ38B REYQ40B REYQ42B REYQ44B REYQ46B REYQ48B REYQ50B REYQ52B REYQ54B REYQ56B REYQ58B REYQ60B
1	DIII-NET expand adaptor + Wire harness adaptor kit	DTA109A51 + BER11A
2	External control adaptor	DTA104A62

VRV H SERIES

No.	Item \ Type		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	BHRP26A22TA, BHRP26A33TA, BHRP26A72TA, BHRP26A73TA		
		Pipe size reducer	KHRP26M73HP		
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
(BHRP26A22/33/72/73TA)

Option PCB

No.	Item \ Type	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	DIII-NET expand adaptor + Wire harness adaptor kit	DTA109A51 + BER11A
2	External control adaptor	DTA104A62

Option List

Outdoor units

VRV S High Seasonal Efficiency SERIES

No.	Item \ Type	RSUYQ4A RSUYQ5A RSUYQ6A	RSUYQ7A RSUYQ8A
1	Header pack	BHF6RHP6Z, BHF6ARHP6Z, BHF8RHP6Z	
2	REFNET header	KHRP26M22H (Max. 4 branch) , KHRP26M33H (Max. 8 branch)	
3	REFNET joint	BHRP26A22TA	BHRP26A22TA, BHRP26A33TA
4	Drain plug	BKP082A41	
5	Air direction adjustment grille	KPW082A41	

Option PCB

No.	Item \ Type	RSUYQ4A RSUYQ5A RSUYQ6A	RSUYQ7A RSUYQ8A
1	DIII-NET expander adaptor ★	DTA109A51	
2	External control adaptor ★	DTA104A61	
3	Modbus® Communication 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

No.	Item \ Type	RXYMQ3A RXYMQ4A	RXYMQ5B RXYMQ6B	RXYMQ8A RXYMQ9A
1	Header pack	BHF6RHP6Z, BHF6ARHP6Z, BHF8RHP6Z		
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	Central drain plug	KKPJ5H280		
6	Fixture for preventing overturning	KKTP5B112		
7	Wire fixture for preventing overturning	—		K-KYZP15C

VRV IV Q SERIES Standard Type

No.	Item \ Type		RQYQ6T(E) RQYQ8T(E) RQYQ10T(E)	RQYQ12T(E) RQYQ14T(E) RQYQ16T(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch), (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)
		REFNET joint	BHRP26A22TA, BHRP26A33TA	BHRP26A22TA, BHRP26A33TA, BHRP26A72TA
2	Cool / Heat selector		KRC19-26A	

No.	Item \ Type		RQYQ18TN(E) RQYQ20TN(E) RQYQ22TN(E)	RQYQ24TN(E) RQYQ26TN(E) RQYQ28TN(E)	RQYQ30TN(E) RQYQ32TN(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch), KHRP26M72H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch)	
		REFNET joint	BHRP26A22TA, BHRP26A33TA, BHRP26A72TA	BHRP26A22TA, BHRP26A33TA, BHRP26A72TA, BHRP26A73TA	
2	Pipe size reducer		—	KHRP26M73HP	
3	Outdoor unit multi connection piping kit		BHFP22P100		
4	Cool / Heat selector		KRC19-26A		

No.	Item \ Type		RQYQ34TN(E) RQYQ36TN(E)	RQYQ38TN(E) RQYQ40TN(E)	RQYQ42TN(E) RQYQ44TN(E)	RQYQ46TN(E) RQYQ48TN(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	BHRP26A22TA, BHRP26A33TA, BHRP26A72TA, BHRP26A73TA			
2	Pipe size reducer		KHRP26M73HP			
3	Outdoor unit multi connection piping kit		BHFP22P151			
4	Cool / Heat selector		KRC19-26A			

VRV IV Q SERIES Space Saving Type

No.	Item \ Type		RQYQ18T(E) RQYQ20T(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)
		REFNET joint	BHRP26A22TA, BHRP26A33TA, BHRP26A72TA
2	Cool / Heat selector		KRC19-26A

No.	Item \ Type		RQYQ30TS(E) RQYQ32TS(E) RQYQ34TS(E)	RQYQ36TS(E) RQYQ38TS(E) RQYQ40TS(E)	RQYQ42TS(E) RQYQ44TS(E)	RQYQ46TS(E) RQYQ48TS(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)			
		REFNET joint	BHRP26A22TA, BHRP26A33TA, BHRP26A72TA, BHRP26A73TA			
2	Pipe size reducer		KHRP26M73HP			
3	Outdoor unit connection piping kit		BHFP22P100		BHFP22P151	
4	Cool / Heat selector		KRC19-26A			

Option List

Outdoor units

VRV III-Q

No.	Item	Type	RQCEQ280P RQCEQ360P	RQCEQ460P RQCEQ500P	RQCEQ540P RQCEQ636P	RQCEQ712P RQCEQ744P RQCEQ816P RQCEQ848P
1	Distributive piping	REFNET header	KHRP25M33H (Max. 8 branch) KHRP25M72H (Max. 8 branch) KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch)		KHRP25M33H (Max. 8 branch) KHRP25M72H (Max. 8 branch) KHRP25M73H (Max. 8 branch) KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch)	KHRP25M33H (Max. 8 branch) KHRP25M72H (Max. 8 branch) KHRP25M73H (Max. 8 branch) KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch) KHRP26M72H (Max. 8 branch)
		REFNET joint	BHRP25A22T (Max. 4 branch) BHRP25A33T (Max. 8 branch) BHRP25A72T (Max. 8 branch) BHRP26A22TA (Max. 4 branch) BHRP26A33TA (Max. 8 branch)		BHRP25A22T (Max. 4 branch) BHRP25A33T (Max. 8 branch) BHRP25A72T (Max. 8 branch) BHRP25A73T (Max. 8 branch) BHRP26A22TA (Max. 4 branch) BHRP26A33TA (Max. 8 branch)	BHRP25A22T (Max. 4 branch) BHRP25A33T (Max. 8 branch) BHRP25A72T (Max. 8 branch) BHRP25A73T (Max. 8 branch) BHRP26A22TA (Max. 4 branch) BHRP26A33TA (Max. 8 branch) BHRP26A72TA (Max. 8 branch)
2	Outdoor unit multi connection piping kit		BHFP26P36C	BHFP26P63C		BHFP26P84C
3	Digital pressure gauge kit		BHGP26A1×2	BHGP26A1×3		BHGP26A1×4

VRV IV W SERIES

No.	Item	Type	RWEYQ6T RWEYQ8T RWEYQ10T RWEYQ12T	RWEYQ14T RWEYQ16T RWEYQ18T RWEYQ20T RWEYQ22T RWEYQ24T	RWEYQ26T RWEYQ28T RWEYQ30T RWEYQ32T RWEYQ34T RWEYQ36T
1	Cool/heat selector		KRC19-26A (Applies to heat pump type only)		
1-1	Fixing box		KJB111A (Applies to heat pump type only)		
2	Distributive piping	REFNET header	KHRP25M33H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP25M73H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch)
		REFNET joint	BHRP25A22T, BHRP25A33T, BHRP26A22TA, BHRP26A33TA	BHRP25A22T, BHRP25A33T, BHRP25A72T, BHRP26A22TA, BHRP26A33TA, BHRP26A72TA	BHRP25A22T, BHRP25A33T, BHRP25A72T, BHRP25A73T, BHRP26A22TA, BHRP26A33TA, BHRP26A72TA, BHRP26A73TA
3	Outside unit multi connection piping kit	For heat pump	—	BHFP22MA56	BHFP22MA84
		For heat recovery	—	BHFP26MA56	BHFP26MA84
4	External control adaptor		DTA104A62		
5	Strainer kit		BWU26A15, BWU26A20		

Note: ★1 In the case of heat recovery system, cool/heat selector cannot be connected.

VRV IV W SERIES Strainer kit specifications

Model		BWU26A15	BWU26A20
Pressure resistance	MPa	1.47	1.96
Mesh size		50	50
Connection diameter		PT1 1/4B internal thread	PT1 1/4B internal thread

VRV WS SERIES

No.	Item	Type	RWXYQ3A	RWXYQ4A	RWXYQ5A	RWXYQ6A
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)			
		REFNET joint	BHRP26A22TA			

VRV indoor units

Round Flow Cassette with Sensing and Streamer Type

No.	Item		Type		FXFTQ25A FXFTQ32A FXFTQ40A	FXFTQ50A FXFTQ63A FXFTQ80A	FXFTQ100A FXFTQ125A FXFTQ140A
1	Decoration panel	Standard panel with sensing	Fresh white		BYCQ125EEF		
			Black		BYCQ125EEK		
		Designer panel [1]	Fresh white		BYCQ125EAPF *		
		Auto grille panel [2, 3]	Fresh white		BYCQ125EBSF *		
2	Panel spacer				KDB55J160F		
3	Fresh air intake kit		Chamber type [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		
4	High performance prefilter (MERV 8) [9]				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 [11]				KDTP55K80B		KDTP55K160B

Round Flow Cassette with Sensing Type

No.	Item		Type		FXFSQ25A FXFSQ32A FXFSQ40A	FXFSQ50A FXFSQ63A FXFSQ80A	FXFSQ100A FXFSQ125A FXFSQ140A
1	Decoration panel	Standard panel with sensing	Fresh white		BYCQ125EEF		
			Black		BYCQ125EEK		
		Designer panel [1]	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 [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] (Including filter chamber)		(Colorimetric method 65%)		KAF556D80		KAF556D160
			(Colorimetric method 90%)		KAF557D80		KAF557D160
6	Replacement high-efficiency filter [9, 10]		(Colorimetric method 65%)		KAF552D80		KAF552D160
			(Colorimetric method 90%)		KAF553D80		KAF553D160
7	Filter chamber				KDDFP55C160		
8	High performance prefilter (MERV 8) [9]				BAF552A160		
9	Replacement long-life filter				KAF5511D160		
10	Replacement long-life filter (Auto grille panel)				KAF5512D160		
11	Ultra long-life filter unit (Including filter chamber) [9]				KAF555D160		
12	Replacement ultra long-life filter [9, 10]				KAF550D160		
13	Branch duct chamber [4]				KDJP55C80		KDJP55C160
14	Insulation kit for high humidity [9, 11]				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. Circulation airflow is not available with this option.
5. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
6. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.
7. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.
8. Please order using the names of both components instead of set name.
9. This option cannot be installed to designer panel and auto grille panel.
10. Filter chamber is required.
11. Please use in case temperature/humidity inside ceiling may get over 30˚C, 80% RH.

*These panels do not contain the sensing function.

Option List

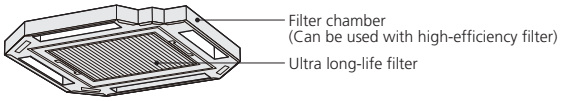
VRV indoor units

Options of Round Flow Cassette with Sensing and Streamer & Round Flow Cassette with Sensing

Options required for specific operating environments

Ultra long-life filter unit

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

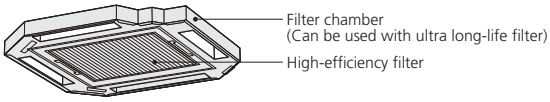


Dusty area: annual filter change
*For dust concentration of 0.3 mg/m^3 (Requires separately sold Air purifier.)
1 year (Approx. 5,000 hr): About 15 hr/day x 28 day/month x 12 month/year

Ordinary store or office: filter change every 4 years
*For dust concentration of 0.15 mg/m^3
4 years (Approx. 10,000 hr): About 8 hr/day x 25 day/month x 12 month/years x 4 years

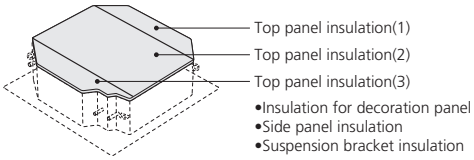
High-efficiency filter unit

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



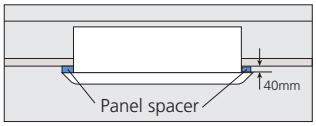
Insulation kit for high humidity

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.



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

Sealing material of air discharge outlet

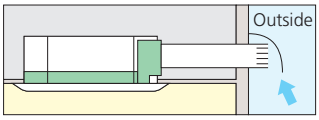
By using this option, 2-way, 3-way, or 4-way flow can be selected.

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]

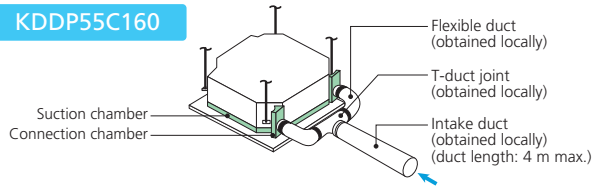
Using this kit, a duct can be connected to take in outdoor air. There are two chamber types that have intake in two places: with T-duct joint and without T-duct joint.



The units can be installed in the following different ways:

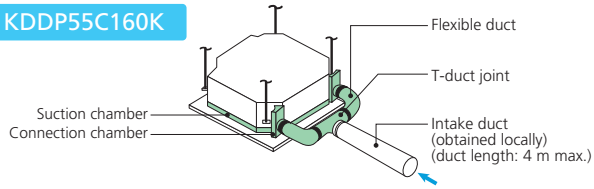
Chamber type (without T-duct joint) [3, 4, 5]

KDDP55C160



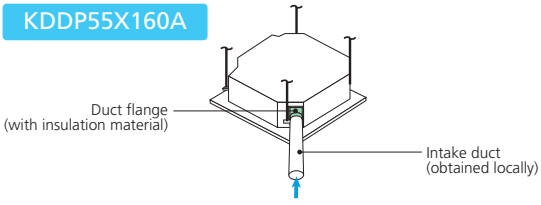
Chamber type (with T-duct joint) [3, 4, 5]

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

BAF552A160

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.

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		

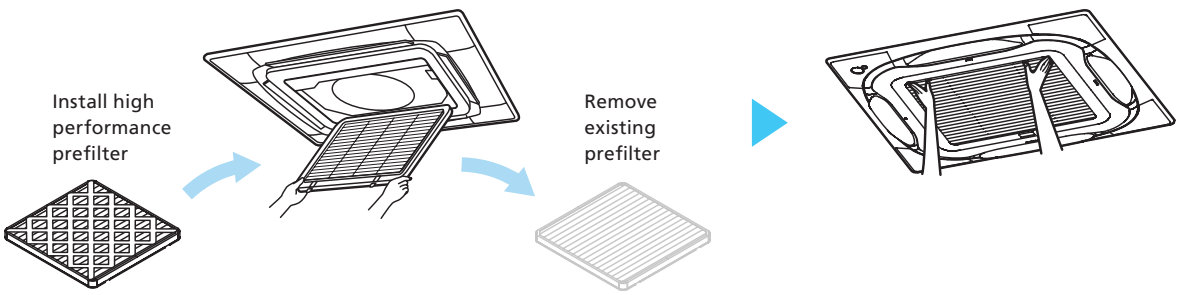
Note 1. It is necessary to set a high ceiling mode on site to prevent a decrease in air volume when installing the filter.
The setting number differs according to each model. Please refer to the installation manual.

*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	FXZQ20A	FXZQ25A	FXZQ32A	FXZQ40A	FXZQ50A
1-1	Grid ceiling panel	BYFQ60CAW				
1-2	Sensor kit for grid ceiling panel	BRYQ60AAW				
1-3	Sealing material of air discharge outlet for grid ceiling panel	BDBHQ44C60				
2	Replacement long life filter	KAF441C60				
3	Fresh air intake kit	KDDQ44XA60				
4	Streamer filter clean unit *2	BAPWS55A61				

Note: Available only when stylish remote controller (BRC1H63W/K) is connected.

Double Flow Cassette Type

No.	Item \ Model		FXCQ20A FXCQ25A FXCQ32A FXCQ40A	FXCQ50A FXCQ63A	FXCQ80A FXCQ125A
1	Decoration panel		BYBCQ40CF	BYBCQ63CF	BYBCQ125CF
2	High efficiency filter *1	65 %	KAF532C50	KAF532C80	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		

Notes: *1. If installing high efficiency filter, filter chamber is required.
*2. Available only when stylish remote controller (BRC1H63W/K) is connected.

Single Flow Cassette Type

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

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 \ Model	FXDQ20T	FXDQ25T	FXDQ32T	FXDQ40T	FXDQ50T	FXDQ63T
1	3-D Auto swing discharge grille	BDG20A09			BDG20A15		BDG20A20
2	Auto clean air filter module	BAE20A62			BAE20A82		BAE20A102

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	KAF632B160B
		90%	KAF633C36	KAF633C56	KAF633C80		KAF633C160	KAF633B160B
2	Filter chamber (for rear suction) *1		KDDFP63B36	KDDFP63B56	KDDFP63B80		KDDFP63B160	KDDF63B160B
3	Long-life filter *1		KAF631C36	KAF631C56	KAF631C80		KAF631C160	KAF631B160B
4	Service panel (Fresh white)		KTBJ25K36F	KTBJ25K56F	KTBJ25K80F		KTBJ25K160F	
5	Air discharge adaptor		KDAP25A36A	KDAP25A56A	KDAP25A71A		KDAP25A140A	KDAP25A160A *2
6	Shield plate for side plate		KDBD63A160					—

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

Middle Static Pressure Duct Type

No.	Item \ Model	FXDYQ80MA	FXDYQ100MA	FXDYQ125MA	FXDYQ145MA
1	Run/fault status PCB	KRP1B5X			

Middle-High Static Pressure Duct Type

No.	Item \ Type		FXMQ20PA FXMQ25PA FXMQ32PA	FXMQ40PA	FXMQ50PA FXMQ63PA	FXMQ80PA	FXMQ100PA FXMQ125PA FXMQ140PA
1	High efficiency filter	65%	KAF372AA36	KAF372B56	KAF372B80		KAF372B160
		90%	–	KAF373B56	KAF373B80		KAF373B160
2	Filter chamber		–	KDDF37AB56	KDDF37AB80		KDDF37AB160
3	Long life replacement filter		–	KAF371B56	KAF371B80		KAF371B160
4	Long life filter chamber kit		–	KAF375C56	KAF375C80		KAF375C160
5	Service panel (Fresh white)		KTBJ25K36F	KTBJ25K56F	KTBJ25K80F		KTBJ25K160F
6	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A		KDAJ25K140A

High Static Pressure Duct Type

No.	Item \ Type	FXMQ160P	FXMQ180P	FXMQ200P	FXMQ250P
1	Drain pump kit	BDU37A250			

4-Way Flow Ceiling Suspended Type

No.	Item \ Type	FXUQ71A	FXUQ100A
1	Sealing material of air discharge outlet	KDBHP49B140	
2	Decoration panel for air discharge	KDBTP49B140	
3	Replacement long-life filter	KAF5511D160	

Ceiling Suspended Type

No.	Item \ Type	FXHQ32MA	FXHQ50MA	FXHQ63MA	FXHQ80MA FXHQ100MA	FXHQ125B FXHQ140B
1	Drain pump kit	KDU50N60VE		KDU50N125VE		KDUP50P160
2	Replacement long-life filter	KAFJ501D56	KAFJ501D80		KAFJ501D112	KAF501B160
3	L-type piping kit (for upward direction)	KHFP5M63		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	FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
1	Drain pump kit	K-KDU572KVE					
2	External EV kit (for heating operation)*1	BEV15D				BEV30D	

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

Floor Standing Type

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

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	KHRP26A250T					
3	Quiet kit	KDDN26C4	KDDN26C8		KDDN26C12		KDDN26B16

Header Pack

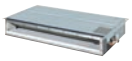
No.	Item \ Type	4 port type	6 port type
1	HEADER PACK	BHF6RHP6Z	BHF6ARHP6Z, BHF8RHP6Z, BHF10RHP6Z, BHF16RHP6Z

Residential indoor units with connection to BP units

Compact Multi Flow Cassette Type

No.	Item \ Type		FFQ25B	FFQ35B	FFQ50B	FFQ60B
1	Decoration panel		BYFQ60B3W1			
2	Replacement long-life filter		KAF441C60			
3	Fresh air intake kit	Direct installation type	KDDQ44XA60			
4	Sealing material for air discharge outlet		KDBH44BA60			
5	Panel spacer		KDBQ44BA60A			

Slim Ceiling Concealed Duct Type



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

Wall Mounted Type

No.	Item \ Type	FTXS20K	FTXS25K	FTXS35K	FTXS50KA	FTXS60KA	FTXS71KA
1	Titanium apatite deodorising filter	KAF970A46					

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

BP Units for Connection to Residential Indoor Units

No.	Item \ Type	BPMKS967A2	BPMKS967A3
1	REFNET joint	BHRP26A22TA	

Note: A single BP unit does not require a REFNET joint. 2 BP units require only 1 REFNET joint, and 3 BP units require only 2 REFNET joints.

Control systems

Operation control system optional accessories

Remote sensor
BRCS01A-1(4)(5)(6)

For *VRV* indoor unit use

No.	Item \ Type	FXFTQ-A	FXFSQ-A	FXZQ-B	FXCQ-B	FXEQ-A	FXDQ-PD FXDQ-ND	FXDQ-T	FXDQ-SP	FXSQ-PA
1	Stylish remote controller *5	BRC1H63W (White) / BRC1H63K (Black)								
2	"Nav Ease" remote controller *5	—	BRC1E63			BRC1F61	BRC1E63			
3	Simplified remote controller	—		BRC2E61						
4	Wireless remote controller	—	BRC7M634F (Fresh White) BRC7M634K (Black)	BRC7M530W	BRC7M65	BRC4M61	BRC4C65			
5-1	Adaptor for wiring (operation status output)	★BRP11B62		★BRP11B62	—		★BRP11B61	—		★BRP11B62
5-2	Adaptor for wiring	—			★KRP1C14A	—		★KRP1C64	—	
6-1	Wiring adaptor for electrical appendices (1)	—		★KRP2A62	★KRP2A51	—	★KRP2A53	★KRP2A61	—	★KRP2A61
6-2	Wiring adaptor for electrical appendices (2)	★KRP4AA53			★KRP4AA51	—	★KRP4A54	★KRP4AA51	—	★KRP4AA51
7	Remote sensor (for indoor temperature)	BRCS01A-5		BRCS01A-6		BRCS01A-4	BRCS01A-1	BRCS01A-4	BRCS01A-1	BRCS01A-4
8	Installation box for adaptor PCB ☆	KRP1H98A *2, 3		KRP1BB101 *4	KRP1C96 *2, 3	—	KRP1BB101 *4	BRP9A90	—	KRP4A98 *2, 3
9	External control adaptor for outdoor unit	★DTA104A62			★DTA104A61	—	★DTA104A53	★DTA104A61	—	★DTA104A61
10	Adaptor for multi tenant	—		★DTA114A61	—					
11	Multi tenancy kit	—						KRP114A3*2	—	
12	Digital input adaptor	★BRP7A52		★BRP7A53	★BRP7A51	—	★BRP7A54	★BRP7A51	—	★BRP7A51

No.	Item \ Type	FXDYQ-MA	FXMQ-PA	FXMQ-P	FXUQ-A	FXHQ-MA	FXHQ-B	FXAQ-A	FXLQ-MA	FXNQ-A2
1	Stylish remote controller *5	BRC1H63W (White) / BRC1H63K (Black)								
2	"Nav Ease" remote controller *5	BRC1E63								
3	Simplified remote controller	BRC2E61								—
4	Wireless remote controller	BRC4C62	BRC4C65		BRC7CB58	BRC7EA63W	BRC7M53	BRC7M675	BRC4C62	BRC4C65
5-1	Adaptor for wiring (operation status output)	—	★BRP11B62	—		★BRP11B61	BRP11B61-1	—	BRP11B62	—
5-2	Adaptor for wiring	KRP1B61	—	★KRP1C67	—					KRP1B56
6-1	Wiring adaptor for electrical appendices (1)	KRP2A61	★KRP2A61	★KRP2A62	—	★KRP2A62	—	★KRP2A61	KRP2A61	KRP2A53
6-2	Wiring adaptor for electrical appendices (2)	KRP4AA51	★KRP4AA51	★KRP4AA52	★KRP4AA53	★KRP4AA52		★KRP4AA51	KRP4AA51	KRP4A54
7	Remote sensor (for indoor temperature)	BRCS01A-1	BRCS01A-4			BRCS01A-1	BRCS01A-6		BRCS01A-1	BRCS01A-4
8	Installation box for adaptor PCB ☆	—	KRP4A97 *2, 3	BRP9A90	KRP1BA97	KRP1CA93 *3	KRP1D93A *3	KRP4B93 *2, 3	—	KRP1BB101
9	External control adaptor for outdoor unit	DTA104A61	★DTA104A61	—		★DTA104A62		★DTA104A61	DTA104A61	DTA104A53
10	Adaptor for multi tenant	—	★DTA114A61		—					DTA114A61
11	Digital input adaptor	BRP7A52	★BRP7A51	★BRP7A52	★BRP7A53	★BRP7A52		★BRP7A51	BRP7A51	★BRP7A51

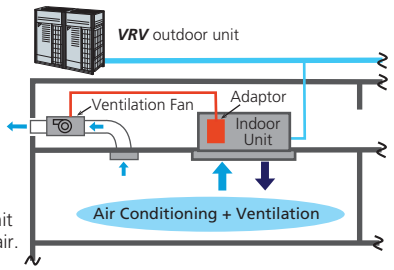
Notes: 1. Installation box ☆ is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Some functions can be set only via the stylish or "Nav Ease" 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.

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.

For residential indoor unit use

No.	Item \ Type		FFQ-B	FDXS-C	FTXS-K(A)
1	Remote controller	Wired *1	BRC1E63	BRC944B2 *2	
		Wireless	BRC7E530W	— *3	
2	Wired remote controller cord	Length 3 m (shielded wire)	—	BRCW901A03	
		Length 8 m (shielded wire)	—	BRCW901A08	
3	Adaptor for wiring		KRP1BA57 *4	—	
4	Wiring adaptor for electrical appendices		KRP4AA53 *4	—	
5	Installation box for adaptor PCB		KRP1BA101	—	
6	Remote sensor (for indoor temperature)		BRCS01A-1	—	
7	Wiring adaptor for time clock/remote controller *5 (Normal open pulse contact/normal open contact)		—	KRP413BB1S	
8	Remote controller loss prevention chain		—	KKF917A4	KKF910A4
9	Interface adaptor for DIII-NET use		DTA112BA51	KRP928BB2S	

Note:1. Wiring for wired remote controller should be obtained locally.
2. 3 m (BRCW901A03) or 8 m (BRCW901A08) length wired remote controller cord is necessary.
3. A wireless remote controller is a standard accessory for FDXS and FTXS models.
4. Installation box for adaptor PCB (KRP1BA101) is necessary.
5. Time clock and other devices should be obtained locally.

Option List

System configuration

No.	Item		Model No.	Function
1	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.
2	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.
3	Interface adaptor for SkyAir-series		★DTA112BA51 *3	
4	Central control adaptor kit	For UAT(Y)-K(A),FD-K	★DTA107A55	
5	Wiring adaptor for other air-conditioner		★DTA103A51	
6	DIII-NET expander adaptor		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.
6-1	External control adaptor		DTA104A62	• Demand control of individual or multiple systems. • Low noise option for individual or multiple systems.

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 main PCB (***VRV*** R/H).

Building management system

No.	Item				Model No.	Function
1	intelligent Touch Controller	Basic	Hardware	intelligent Touch Controller	DCS601C51	• Air-Conditioning management system that can be controlled by a compact all-in-one unit.
1-1		Option	Hardware	DIII-NET plus adaptor	DCS601A52	• Additional 64 groups (10 outdoor units) is possible.
1-2			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.
1-3	Electrical box with earth terminal (4 blocks)				KJB411A	• Wall embedded switch box.
2	intelligent Touch Manager	Basic	Hardware	intelligent Touch Manager	DCM601B51	• Air-conditioning management system that can be controlled by touch screen.
2-1		Option	Hardware	DIII plus adaptor	DGE601A52	• 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	DGE601A53	
2-3			Software	iTM power proportional distribution	DCM002A51	• Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh metre.
2-4				iTM energy navigator	DCM008A51	• Building energy consumption is visualised. Wasted air-conditioning energy can be found out.
2-5				BACnet® client	DCM009A51	• BACnet® equipment can be managed by intelligent Touch Manager.
2-6				HTTP Interface	DCM007A51	• Interface for intelligent Touch Manager by HTTP
2-7	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
2-8				***Reiri*** for Office (Touchscreen Controller)	DCPF04-AU *1	• ***VRV*** smart controller with touch panel (website or mobile app via smartphone or tablet) for small to medium scale building
2-9				***Reiri*** for Office (Controller Extension)	DCPF05	• ***VRV*** smart controller for large scale building
2-10				***Reiri*** for Office (Multisite Extension)	DCPF10	• Control all ***VRV*** units via ***Reiri*** for Office on multisite
2-11				***Reiri*** for Home	DCPH01	• ***VRV*** smart home automation and smart control solution
2-12				***Reiri*** for Home (Lite Version)	DCPH02	• ***VRV*** smart centralised controller
2-13		Option	Hardware	Adaptor for ***Reiri***	DCPA01	• Interface adaptor for ***Reiri***
2-14					DCPA01B	• Interface adaptor for ***Reiri*** with installation box
2-15				IAQ Sensor DC for ***Reiri***	DCPE02S	• IAQ Sensor for ***Reiri*** (24V AC/DC)
2-16			Software (Commercial)	Commercial Automatic Control	DCPN001	• Set back, Scene, Interlock Automatic Changeover functions for individual controller
2-17				Commercial Data Analytics	DCPN002	• Operation Report, Error Report; Trend Graph, Energy Graph functions for individual controller
2-18				PPD & Tenant Billing Management	DCPN003	• Power Proportional Distribution and billing function for individual controller
2-19				Realtime Energy Monitoring (REM)	DCPN004	• Real Time Energy Display function for individual controller
2-20				Multisite Branch Expansion	DCPN005	• To expand the multisite control limit by 1 site
2-21				iTM Tenant Billing Management	DCPN008	• Billing function for iTM Power Proportional Distribution data
2-22			Software (Residential)	Residential Automatic Control	DCPN006	• Setback, Setpoint Range, Remote Control Prohibition, Automatic Changeover functions for individual controller
2-23				Residential System Report	DCPN007	• Operation Report, Error Report functions for individual controller
2-24	Di unit				DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.
2-25	Dio unit				DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input/output.
3	Communication interface	Interface for use in BACnet® *2			DMS502B51	• Interface unit to allow communications between ***VRV*** and BMS. Operation and monitoring of air-conditioning systems through BACnet® communication.
3-1		Optional DIII board			DAM411B51	• Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.
3-2		Optional Di board			DAM412B51	• Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.
4		Interface for use in LONWORKS® *3			DMS504B51	• Interface unit to allow communications between ***VRV*** and BMS. Operation and monitoring of air-conditioning systems through LonWorks® communication.
5		Modbus® Communication Adaptor			DTA116A51	• Use of the Modbus® protocol enables the connection of the ***VRV*** system with a variety of home automation systems from other manufacturers. *5
6	Contact/ analogue signal	Unification adaptor for computerised control			★DCS302A52	• Interface between the central monitoring board and central control units.

Notes: *1. ***Reiri*** for Office (Touchscreen Controller) DCPF04-AU includes built-in Commercial Automatic Control functions (Set back, Scene, Interlock Automatic Changeover).
*2. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
*3. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.
*4. Installation box for ★adaptor must be obtained locally.
*5. Modbus® is a registered trademark of Schneider Electric S.A.

Engineering Supports

Design assistance and sales proposal

By providing not only excellent products but also engineering software, Daikin helps consultants and architects select ***VRV*** systems more appropriately and easily to enable more efficient operation and function, and then supports the optimisation of the environment (space) where ***VRV*** systems exist.

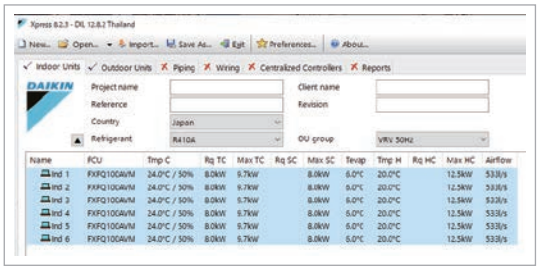
Model Selection

Drawing Supports

Analysis and Simulation

Model Selection

VRV Xpress



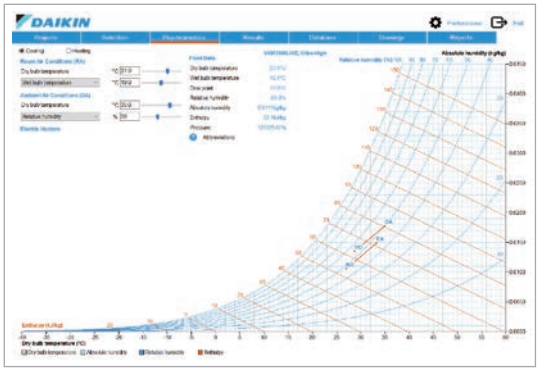
Model Selection

• Refrigerant charge calculation

Standard *VRV* model selection software

The optimum system is automatically selected just by inputting the design conditions.
Refrigerant piping and additional refrigerant charge amount are automatically selected.
In addition, it supports the preparation of a quotation.

Ventilation Xpress



Model Selection for ventilation products

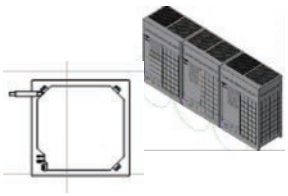
Ventilation products selection software

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.

Drawing Supports

3D Revit data / 2D CAD symbol

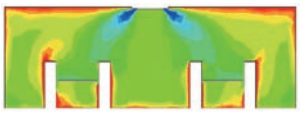
Revit data is used in BIM. It includes not only 3D CAD data but also device specification data such as airflow rate and capacity. Daikin also provides symbol data compatible with 2D CAD.

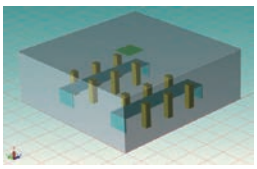


Analysis and Simulation

DT-FLOW2 (Airflow simulation)

IEQ simulation

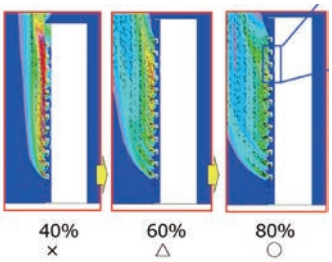




Indoor air environment analysis software

Simulates temperature and humidity, CO_2, dust, and air age.
Creates model of the property with Filder Cube (equipment CAD software), calculates with IconCFD (analysis software), and automatically outputs the report.

Outdoor airflow simulation



Outdoor airflow analysis software

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.

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.

Specifications, designs and other content appearing in this brochure are current as of April 2023 but subject to change without notice.

The specifications, designs and information in this brochure are subject to Change without notice. Unit colours shown are as close as possible to actual unit colours. Colours depicted in this brochure may vary slightly.

ASSUMPTIONS

All representations made in Daikin marketing and promotional material are based on the assumptions that the correct equipment has been selected, appropriately sized and installed in accordance with Daikin's installation instructions and standard industry practices.

QUALITY CERTIFICATIONS

Daikin Industries Ltd was the first air conditioning equipment manufacturer in Japan to receive ISO 9001 certification. All Daikin manufacturing facilities have been certified to ISO 9001 Quality Management System requirements. ISO 9001 is a certificate for quality assurance concerning 'design, development, manufacturing, installation and related service' of products manufactured at that factory.

ENVIRONMENTAL CERTIFICATIONS

Daikin Industries Ltd has received ISO 14001 Environmental Certification for the Daikin production facilities listed below. ISO 14001 is an international standard specifying requirement for an environmental management system, enabling an organisation to formulate policy and objectives, taking into account legislative requirements and information about significant environmental impacts. It applies to those environmental aspects within the organisation's control and over which it can be expected to have an influence.

The certification relates only to the environmental management system and does not constitute any endorsement of the products shipped from the facility by the International Organisation for Standardisation.

Head Office / Tokyo Office	Certificate number: EC02J0355
Shiga Plant (Japan)	Certificate number: EC99J2044
Sakai Plant (Japan)	Certificate number: JQA-E-80009
Daikin Industries (Thailand) Ltd	Certificate number: JQA-E-90108
Yodogawa Plant (Japan)	Certificate number: EC99J2057
Daikin Australia Pty. Ltd.	Certificate number: CEM20437

Daikin Air Conditioning New Zealand Limited (ISO 9001)
QMS42380
Auckland

Certified System
Quality
ISO 9001
SAI GLOBAL

Residential Air Conditioning Manufacturing Div (ISO 9001)
JQA-0486 May 2, 1994
(Shiga Plant)

Commercial Air Conditioning and Refrigeration Manufacturing Div (ISO 9001)
JMI0107 December 28, 1992
(Kanaoka Factory and Rinkai Factory at Sakai Plant)

Industrial System and Chiller Products Manufacturing Div (ISO 9001)
JQA-0495 May 16, 1994
(Yodogawa Plant and Kanaoka Factory and Kishiwada Factory)

Daikin Europe N.V (ISO 9001)
Lloyd 928589.1 June 2, 1993

Daikin Industries (Thailand) Ltd
JQA-1452 September 13, 2002
(ISO 9001)

CERTIFIED MANAGEMENT SYSTEM JQA QUALITY SYSTEM

DAIKIN SPECIALIST

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