



DAIKIN VRV General Catalogue



Perfecting the Air



- 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.



- 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.

**AUTHORIZED DEALER**

**Cautions on product corrosion**

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

VRV is a trademark of Daikin Industries, Ltd.  
 VRV Air Conditioning System is the world's first individual air conditioning system with variable refrigerant flow control and was commercialised by Daikin in 1982.  
 VRV is the trademark of Daikin Industries, Ltd., which is derived from the technology we call "variable refrigerant volume."

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Cooling Only 50 Hz

**R-410A**

**Cooling Only 50 Hz**

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

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



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For OWNERS



Lifecycle Cost & Comfort

For INSTALLERS



Easy Installation

For CONSULTANTS



Flexible Design & Engineering Supports

For BUILDING MANAGERMENTS



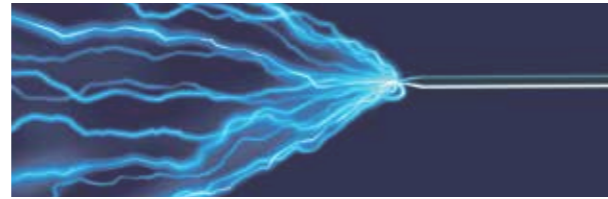
Reliability & Comfort

\*VRV is a trademark of Daikin Industries, Ltd.

# Improving air quality with technology

## Introducing Streamer technology to a wide variety of indoor units

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



## Built-in inside the indoor unit

Round Flow Cassette with Sensing and Streamer



FXFTQ-A

Round Flow Cassette with Streamer



FXFRQ-A



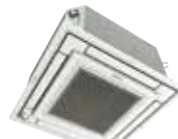
## Option for the indoor unit

Ceiling Suspended



FXHQ-B

Compact Multi Flow Cassette



FXZQ-B

Double Flow Cassette



FXCQ-B



## Option for ducted units

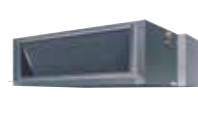
Streamer Duct Chamber



Duct Type Indoor Unit



Heat Reclaim Ventilator



Outdoor-Air Processing Unit



Presentation Movie

## Streamer Technology

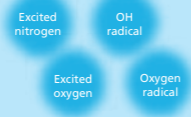
Equipped with decomposition technology, Streamer is a type of plasma discharge that eliminates allergens such as pollen, mould, and mites, as well as, deodorises anti-bacterial dust filters so you can breathe with ease.



### 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.

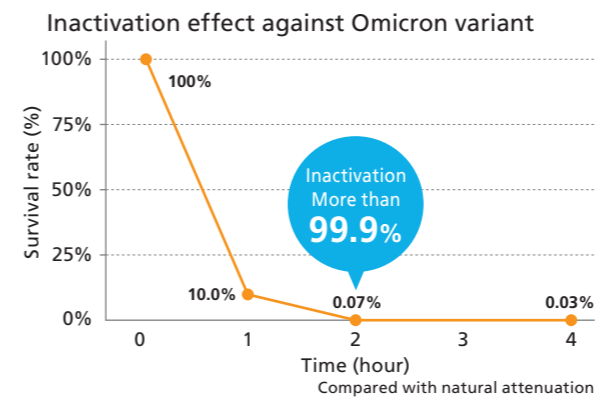


The decomposing elements provide decomposition power.

## 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.



### Test Method

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

DAIKIN Streamer Research Institute



### Test Organization

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

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

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

### Demonstration of mould

Picture of mould



### Test Method

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

### Test Organization

Demonstration test was performed at Wakayama Medical University.

## Why Daikin Streamer?

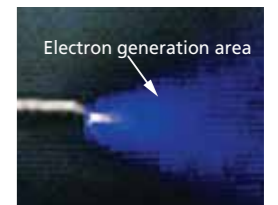
Recognized as clean technology by public bodies

Winner of the 2005 Progress Award, Institute of Electrostatics Japan  
Awards 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.



## Cloud-based HVAC management service

- ✓ Easy operation from a remote location improves work efficiency
- ✓ Analysis of operation data supports energy and power savings
- ✓ Easy daily management with convenient functions
- ✓ Balancing for both energy savings and comfort through precise control
- ✓ Minimize downtime with reliable service

Promotion Movie



MARUTTO edge DGE601A51

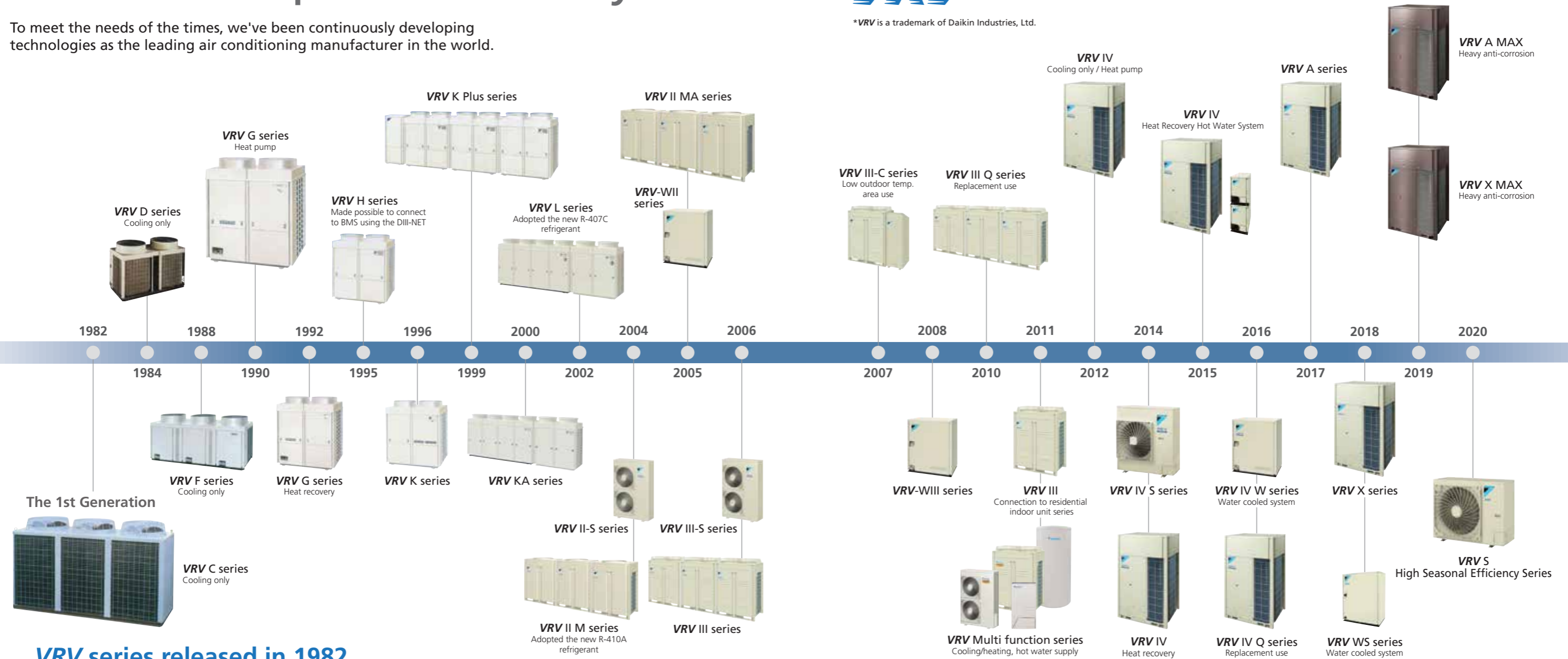


# VRV Development History

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



\*VRV is a trademark of Daikin Industries, Ltd.



## 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



 For OWNERS



## Lifecycle Cost & Comfort

### Large-capacity Single Module

- Installation space and cost are reduced by large-capacity casing for max. 20 HP.



### Energy Saving Technology

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

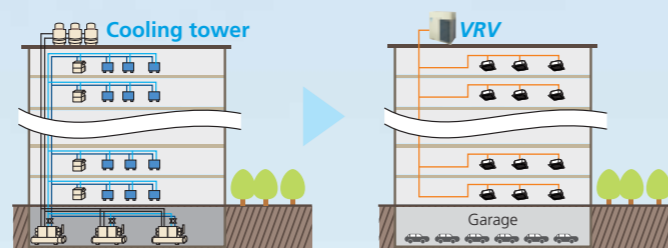


### Comfort

- VRT Smart operation maintains the indoor temperature and ensures a comfortable environment.
- The nighttime quiet operation function automatically suppresses the nighttime operating sound to maintain the quiet environment.

### 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.



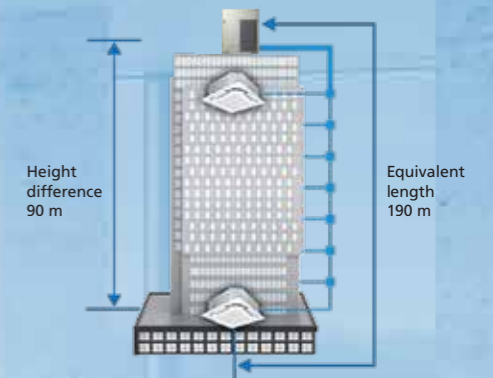
 For CONSULTANTS



## Flexible Design & Engineering Supports

### Long Refrigerant Piping

- Equivalent length extension max. 190 m
- Height difference extension max. 90 m
- 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.



 For INSTALLERS



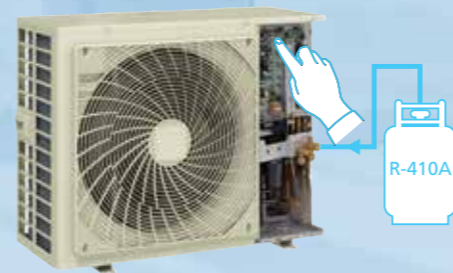
## Easy Installation

### Slimmer Main Piping

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

### Automatic Refrigerant Charge Function

- Automates the charging of proper refrigerant amount to contribute to optimised operation efficiency, higher quality and easier installation.



### Lightweight and compact large-capacity single units

- Easy to install and can be transported in elevators.

### Simple Piping, Easy Wiring

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

 For BUILDING MANAGERMENTS



## Reliability & Comfort

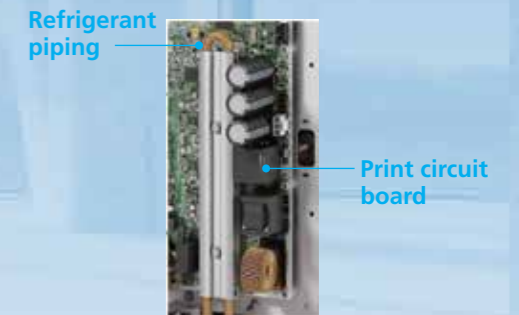
### Heavy Anti-Corrosion Model

- The heavy anti-corrosion models can provide durable operation at humid and seaside areas. Also, outdoor unit can be installed from 0 m from coastline.



### Refrigerant Piping Cooling System

- Refrigerant cooling circuit enables operation in high outdoor temperatures.

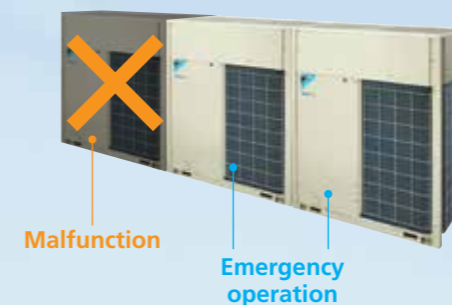


### Double Backup Operation Functions

- 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


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.



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## VRV X

Heavy anti-corrosion model  
**VRV X MAX**  
RXUQ-AW




### New heights in energy efficiency during actual operation

The **VRV X** series features new models specially developed for higher efficiency. All compressors used in outdoor units are new scroll compressors designed to enhance energy efficiency.

Lineup

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

**RXUQ-A**  
3-phase 4-wire system,  
380-415 V, 50 Hz



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## VRV IV Q SERIES


### For quick & high quality replacement use

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

Lineup

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


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



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## VRV A

Heavy anti-corrosion model  
**VRV A MAX**  
RXQ-AW




### Saves space and delivers excellent performance

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

Lineup

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

**RXQ-A**  
3-phase 4-wire system,  
380-415 V, 50 Hz



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## VRV IV W SERIES

### Water cooled system suitable for tall multi-storied buildings

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

Lineup

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

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



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## VRV S High Seasonal Efficiency SERIES


### Especially designed for residential houses, small office and shops

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.

Lineup

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

**RSUQ-A**  
4-6 HP: 1-phase, 220-240 V, 50 Hz  
7-9 HP: 3-phase, 380-415 V, 50 Hz



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## VRV IV HEAT RECOVERY HOT WATER SYSTEM


### Comfortable air conditioning and energy-efficient hot water heating

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

Lineup

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

**RWHQ-T / HWHQ30A**  
3-phase 4-wire system,  
380-415 V, 50 Hz



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## VRV IV S SERIES

### 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 to suit your needs.

Lineup

HP	4	5	6
Cooling Only	●	●	●

**RXMQ-A/B**  
4 HP: 1-phase, 220 V, 50 Hz  
5-6 HP: 1-phase, 220-240 V, 50 Hz





# VRV X

## New Heights in Energy Efficiency During Actual Operation

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



Single outdoor units  
**RXUQ6-20AY14(W)**

Double outdoor units  
**RXUQ12-40AMY14(W)**

Triple outdoor units  
**RXUQ18-20AM1Y14(W)**  
**RXUQ42-60AMY14(W)**

\*(W): Heavy anti-corrosion model

## Greater energy savings during low-load operation

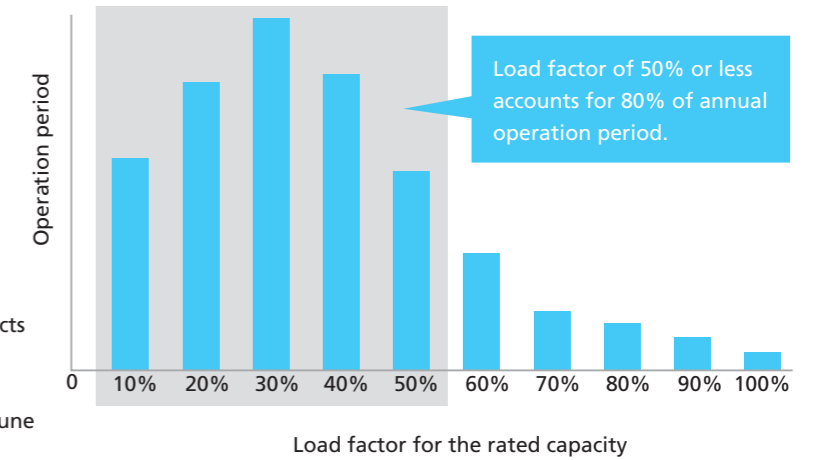
Daikin's VRV X series raised the standard of energy efficiency.

The key to innovative energy savings

Increased efficiency during low-load operation.

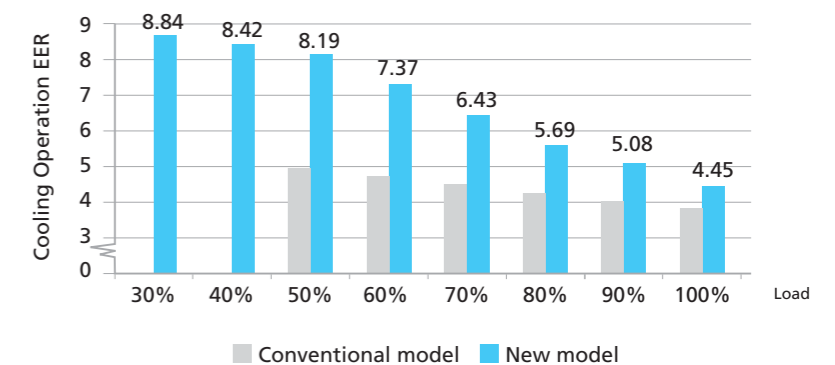
\* Data source

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



## Higher Energy Efficiency Ratio (EER) for 10 HP

Annual power consumption  
**20% Lower**



\* Simulation conditions:

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

\* Cooling operation conditions:

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

# Advanced Technologies

## Advanced technologies for greater energy savings

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

### Software technology VRT Smart Control

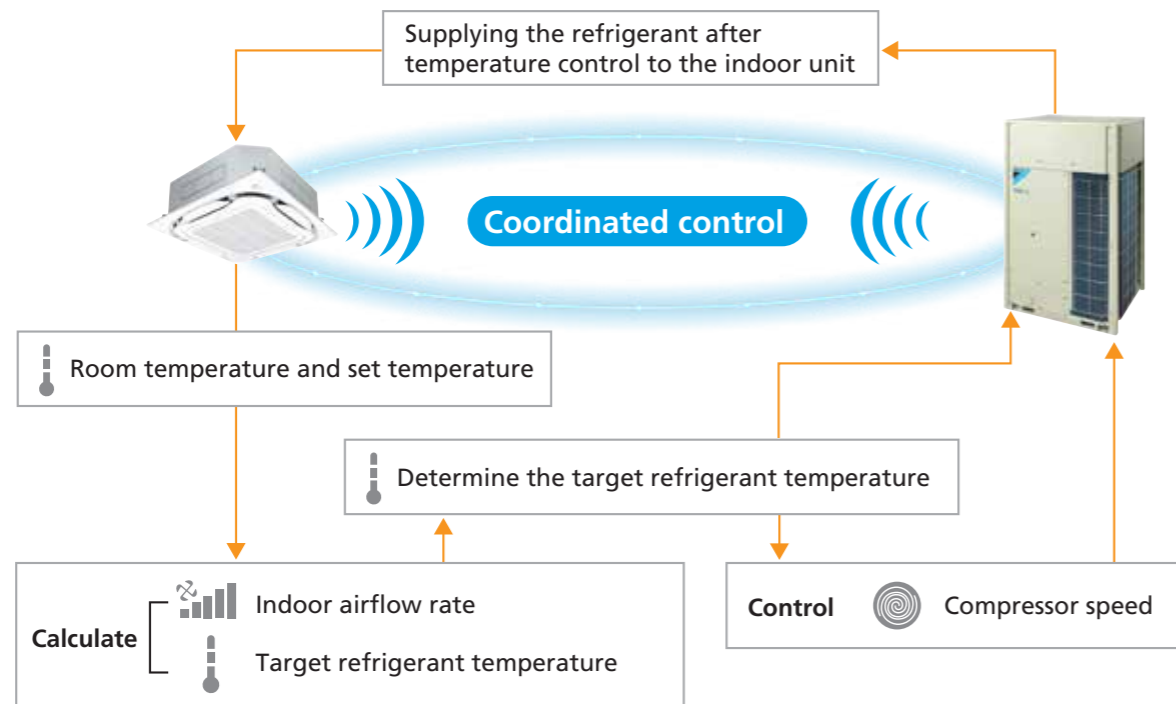
Fully Automatic Energy-saving Refrigerant Control



VRT Smart Control Function movie

### Optimally supply only for the needed capacity of indoor units

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



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

## VRV + VRT + VAV

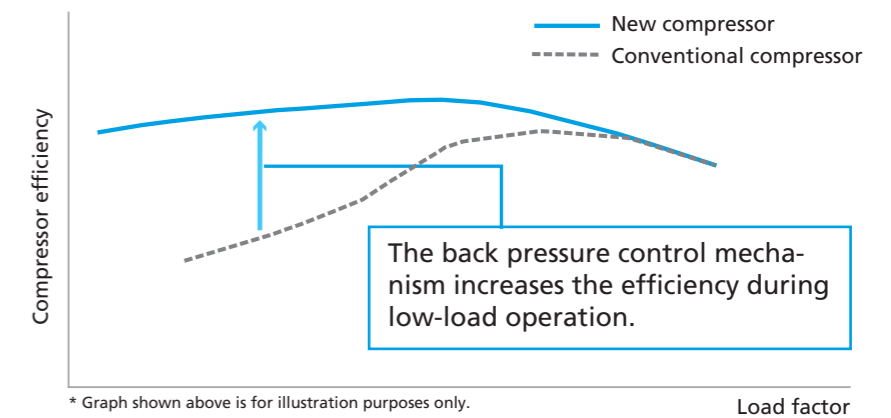
### Hardware technology New Scroll Compressor



New Scroll Compressor movie

### Refrigerant leakage is minimized during low-load operation

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

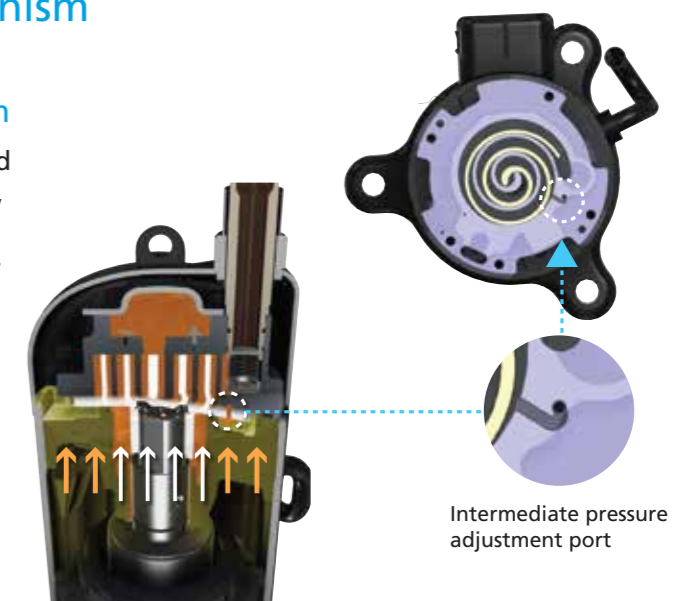


\* Graph shown above is for illustration purposes only.

### Back pressure control mechanism

#### New intermediate pressure mechanism

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



# Advanced Technologies

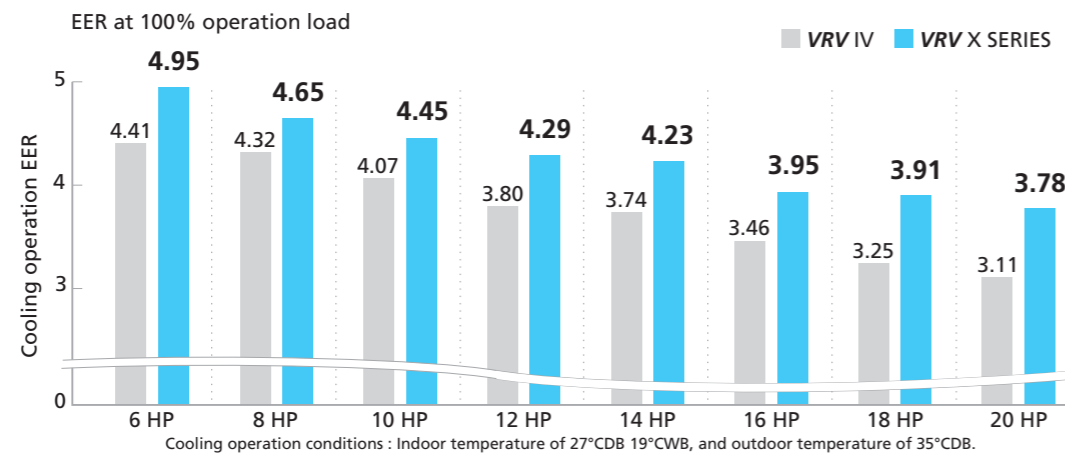
## Advanced oil temperature control

Standby power needed for preheating refrigerator oil was reduced up to **65.4%** to save energy when the air conditioner is stopped.

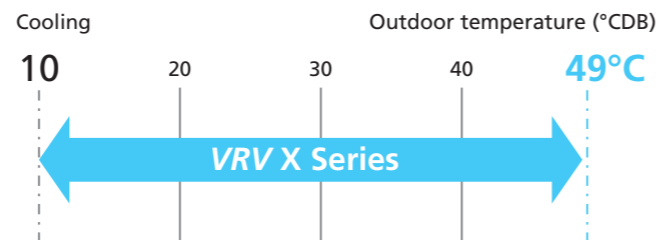
\* Operation calculation conditions: VRV X series 14 HP  
Location: Singapore  
Operation time: 08:00-18:00 on weekdays

**65.4%**  
Reduction

## Higher efficiency is provided during rated operation



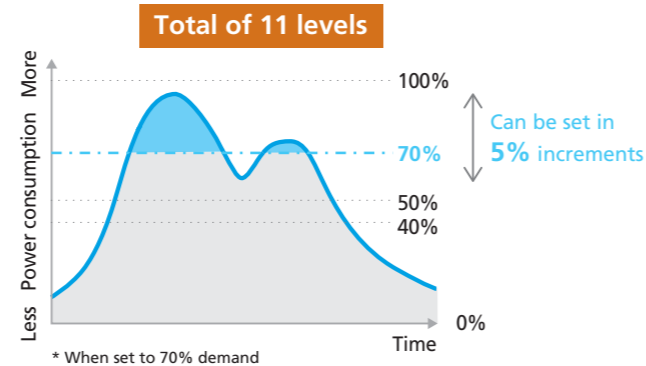
## Extended operation range up to 49°C



## I-demand function

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

\* Set on the PCB of the outdoor unit.



## High external static pressure

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

## Active Filter Unit (Option)

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

## Automatic refrigerant charge function

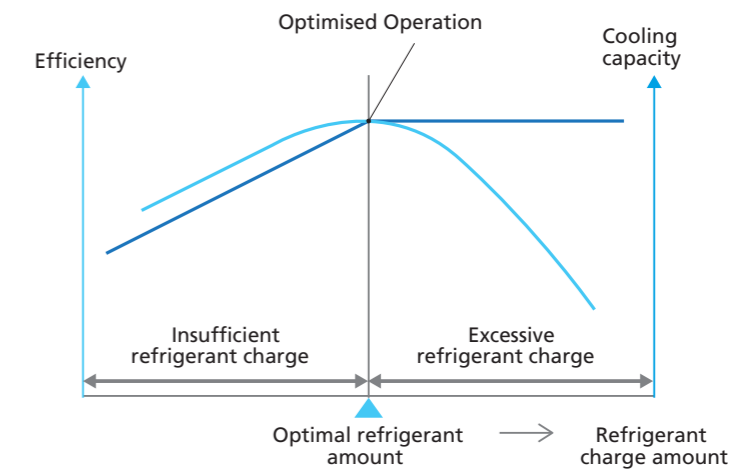
Contribute to optimised operation efficiency, higher quality and easier installation.

### Optimised operation efficiency

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



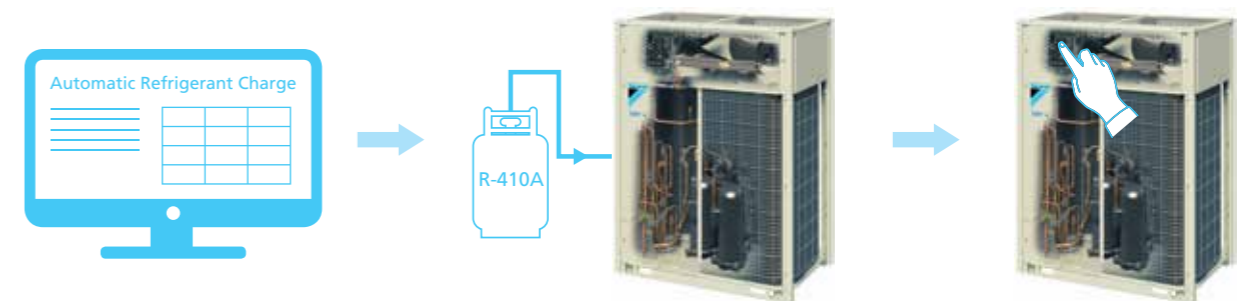
Automatic Refrigerant Charge Function movie



### Higher quality and easier installation

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

- 1 Calculation of necessary refrigerant amount from design drawing
- 2 Pre-charge of refrigerant
- 3 Start of automatic refrigerant charge operation



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

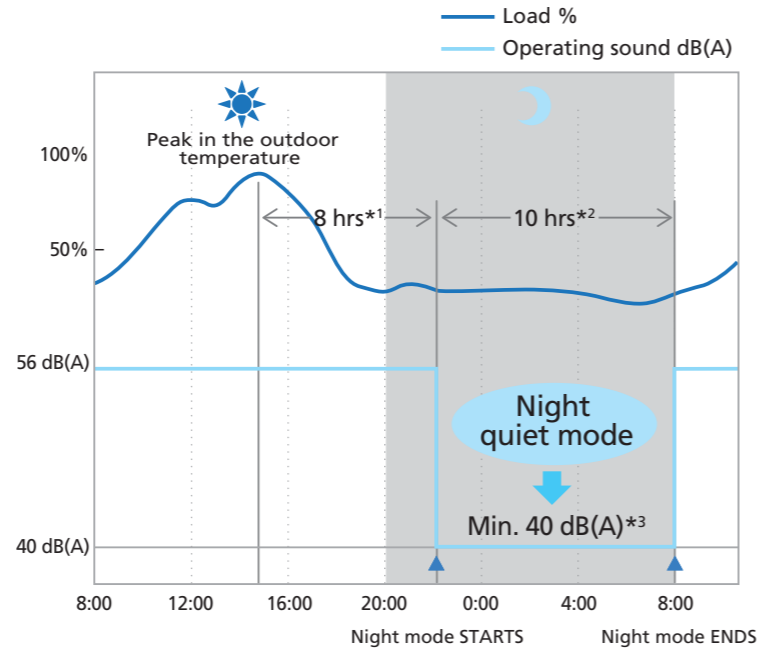
\* There are conditions in the range of ambient temperature in which the automatic refrigerant charge can be used. Refer to the installation manual for details.  
\* The refrigerant amount that can be automatically charged may differ from the additional refrigerant amount that is provided from calculations,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

# Comfort & Reliability

## Comfort

### Nighttime quiet operation function

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

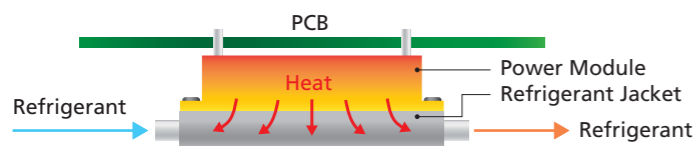


\*1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.  
\*2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.  
\*3. In case of 10 HP outdoor unit.

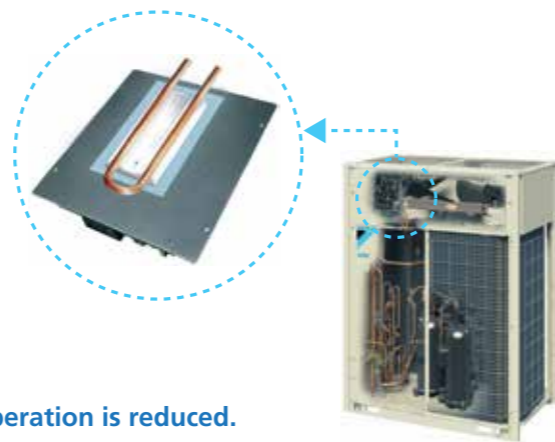
Notes: • This function is available in setting at site.  
• The operating sound in quiet operation mode is the actual value measured by our company.  
• The relationship of outdoor temperature (load) and time shown above is just an example.

## Reliable and stable technology

### High reliability at high ambient temperature



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



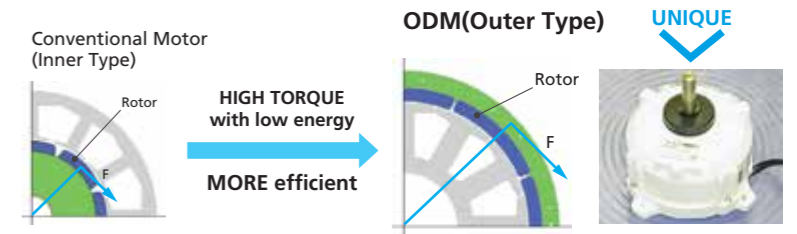
Control board failure ratio at stable operation is reduced.

This enables

- Suitability for high ambient temperatures
- Miniaturization of electronic components

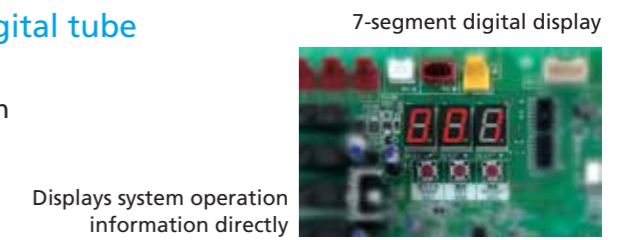
### Outer rotor DC motor (ODM)

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



### Function of information display by luminous digital tube

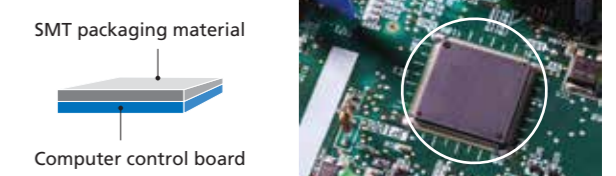
VRV X series utilises a bright 7-segment digital display to convey operational status and facilitate simple installation and after-sales service.



### SMT\* packaging technology

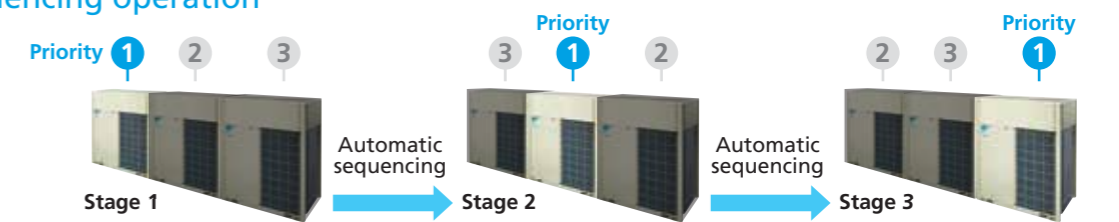
- Improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.

Computer control board surface adopting SMT packaging technology

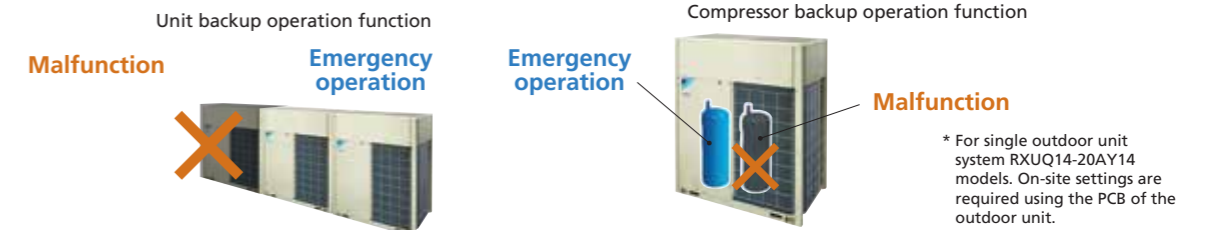


\*SMT: Surface mounted technology

### Automatic sequencing operation



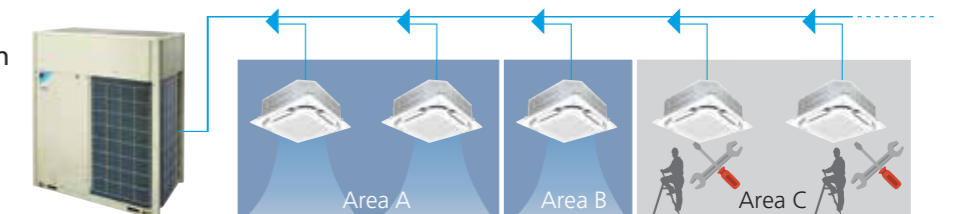
### Double backup operation functions



\* For single outdoor unit system RXUQ14-20AY14 models. On-site settings are required using the PCB of the outdoor unit.

### Ease of maintenance

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



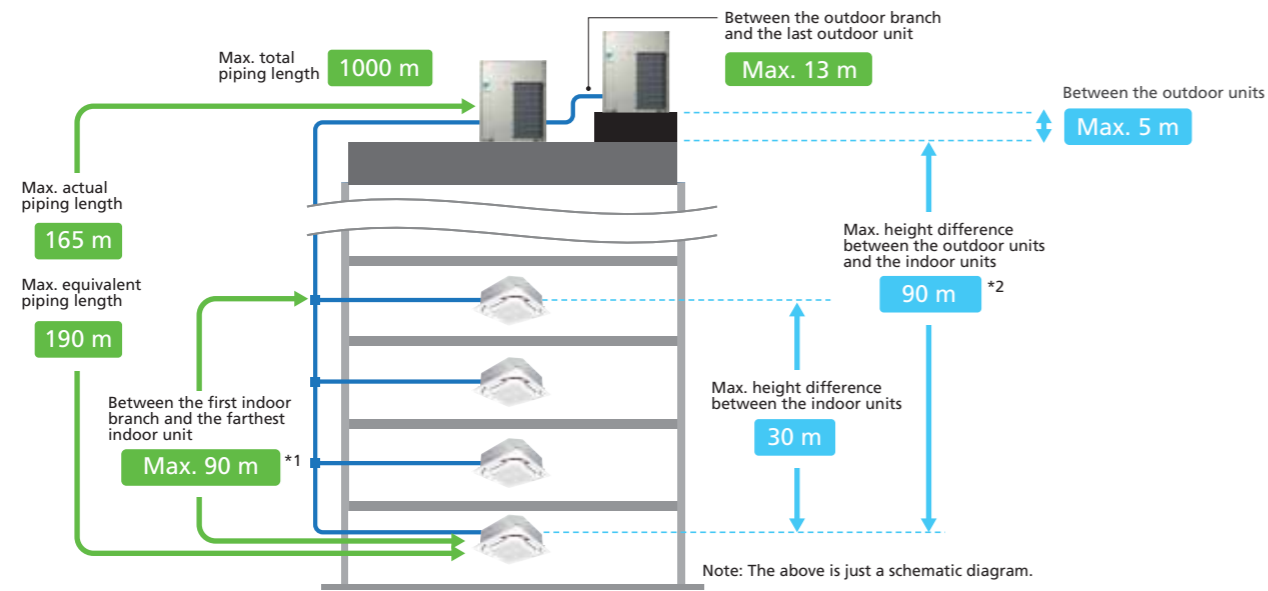
\* Field setting is required.

# Flexible System Design

## More options for installation location

### Long piping length

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



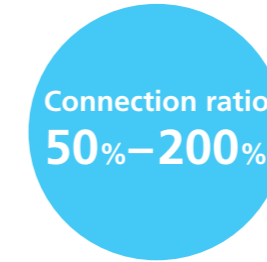
Maximum allowable piping length	Actual piping length (Equivalent)	165 m (190 m)
	Total piping length	1000 m
	Between the first indoor branch and the farthest indoor unit	90 m *1
	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)
Maximum allowable height difference	Between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

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

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

### Connection ratio

Connection capacity at maximum is 200%.



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

#### Conditions of VRV indoor unit connection capacity

Applicable VRV indoor units	 FXSQ	 FXDBQ	 FXAQ	Other VRV indoor unit models*1
	 FXD(S)Q	 FXMQ-PA	 FXB(P)Q	
Single outdoor units	<b>200%</b>			200%
Double outdoor units				160%
Triple outdoor units				130%

\*1 For the FXF(S)(T)(R)Q25 and FXVQ models, maximum connection ratio is 130% for the entire range of outdoor units.  
Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.  
\*Refer to page 27 for outdoor unit combination details.

# Anti-corrosion Technology

## Heavy anti-corrosion model

**VRV X MAX**

RXUQ6-20AY14W  
RXUQ12-60AM(1)Y14W

Built for  
**Seaside**

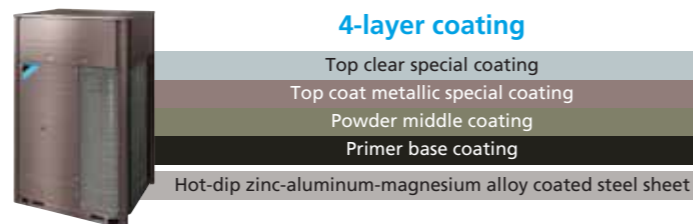


### Maximize anti-corrosion and performance

#### Outer casing

##### Multi coating for extreme durability

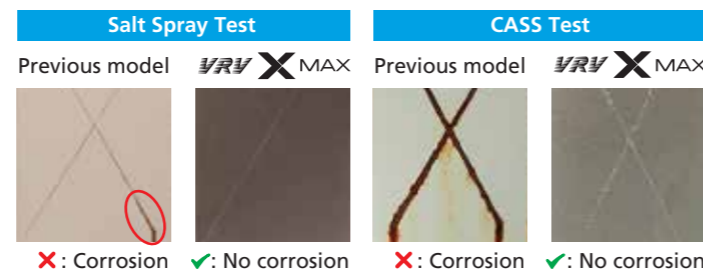
The hot-dip Zinc-Aluminum-Magnesium alloy coated sheet is optimised for even greater durability with an additional four-layer coating combination.



##### Anti-corrosion verification by accelerated test

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

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



#### Heat exchanger (Fin)

##### Anti-corrosion technology

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



##### High performance technology

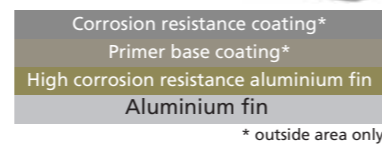
New aluminum fins are 21% thicker to maintain performance.



Achieves both anti-corrosion and high efficiency

##### Automated fin coating line

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



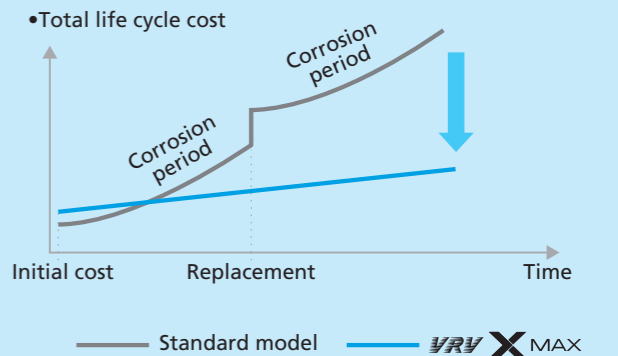
### Maximize lifespan

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

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

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

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

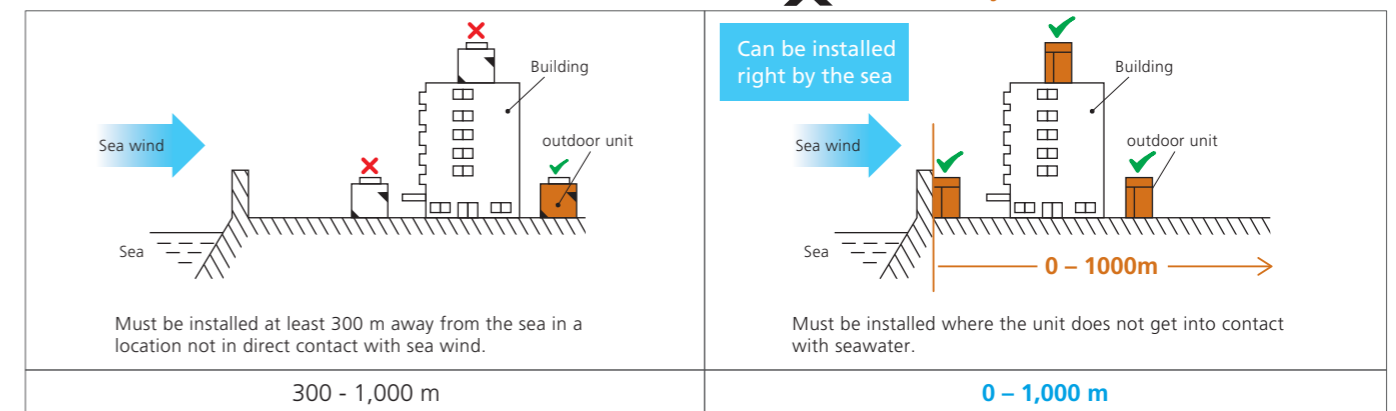


VRV X MAX

Built for seaside

Previous model: Anti-corrosion

VRV X MAX : Heavy Anti-corrosion



### Specifications of anti-corrosion model

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



# Outdoor Units

## VRV X Series

### Specifications

MODEL		RXUQ6AY14(W)	RXUQ8AY14(W)	RXUQ10AY14(W)	RXUQ12AY14(W)	RXUQ14AY14(W)	RXUQ16AY14(W)	RXUQ18AY14(W)	RXUQ20AY14(W)	RXUQ12AMY14(W)	RXUQ14AMY14(W)	RXUQ16AMY14(W)	RXUQ18AMY14(W)	RXUQ20AMY14(W)	RXUQ18AM14(W)	RXUQ20AM14(W)	RXUQ22AMY14(W)	RXUQ24AMY14(W)	RXUQ26AMY14(W)	
Combination units		—	—	—	—	—	—	—	—	RXUQ6AY14(W)	RXUQ6AY14(W)	RXUQ8AY14(W)	RXUQ8AY14(W)	RXUQ8AY14(W)	RXUQ6AY14(W)	RXUQ6AY14(W)	RXUQ10AY14(W)	RXUQ12AY14(W)	RXUQ12AY14(W)	RXUQ14AY14(W)
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz									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	171,000	191,000	109,000	131,000	153,000	172,000	191,000	164,000	186,000	210,000	229,000	251,000	
	kW	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0	32.0	38.4	44.8	50.4	55.9	48.0	54.4	61.5	67.0	73.5	
Power consumption	kW	3.23	4.82	6.29	7.81	9.46	11.4	12.8	14.8	6.46	8.05	9.64	11.1	12.6	9.69	11.3	14.1	15.6	17.3	
Capacity control	%	23-100	19-100	13-100	12-100	11-100	9-100	7-100	11-100	10-100	9-100	8-100	7-100	8-100	7-100	6-100				
Casing colour		Ivory white (5Y7.5/1) (Metallic brown *1)									Ivory white (5Y7.5/1) (Metallic brown *1)									
Compressor	Type	Hermetically sealed scroll type									Hermetically sealed scroll type									
	Motor output	kW	2.4x1	3.4x1	4.2x1	5.2x1	(3.4x1)+(2.9x1)	(3.4x1)+(3.9x1)	(3.7x1)+(4.3x1)	(4.9x1)+(4.2x1)	(2.4x1)+(2.4x1)	(2.4x1)+(3.4x1)	(3.4x1)+(3.4x1)	(3.4x1)+(4.2x1)	(3.4x1)+(5.2x1)	(2.4x1)+(2.4x1)+(2.4x1)	(2.4x1)+(2.4x1)+(3.4x1)	(4.2x1)+(5.2x1)	(5.2x1)+(5.2x1)	(5.2x1)+(3.4x1)+(2.9x1)
Airflow rate	m³/min	119	178	191	218	268	297	119+119	119+178	178+178	178+191	119+119+119	119+119+178	178+191	191+191	191+218				
Dimensions (HxWxD)	mm	1,657x930x765			1,657x1,240x765			(1,657x930x765)+(1,657x930x765)			(1,657x930x765)+(1,657x1,240x765)			(1,657x930x765)+(1,657x930x765)			(1,657x1,240x765)+(1,657x1,240x765)			
Machine weight	kg	185 (195 *1)	215 (235 *1)	275 (295 *1)	291 (316 *1)	185+185 (195+195 *1)	185+215 (195+235 *1)	185+185+185 (195+195+195 *1)	215+215 (235+235 *1)	215+275 (235+295 *1)										
Sound level	dB(A)	54	56	58	59	62	65	57	58	59	60	59	60	61	62					
Operation range		10 to 49									10 to 49									
Refrigerant	Type	R-410A									R-410A									
	Charge	kg	6.4	6.6	8.3	8.5	9.7	9.8	11.7	6.4+6.4	6.4+6.6	6.6+6.6	6.6+8.3	6.6+8.5	6.4+6.4+6.4	6.4+6.4+6.6	8.3+8.5	8.5+8.5	8.5+9.7	
Piping connections	Liquid	φ 9.5 (Brazing)			φ 12.7 (Brazing)			φ 15.9 (Brazing)			φ 12.7 (Brazing)			φ 15.9 (Brazing)			φ 19.1 (Brazing)			
	Gas	φ 19.1 (Brazing)			φ 22.2 (Brazing)			φ 28.6 (Brazing)			φ 28.6 (Brazing)			φ 34.9 (Brazing)						

MODEL		RXUQ28AMY14(W)	RXUQ30AMY14(W)	RXUQ32AMY14(W)	RXUQ34AMY14(W)	RXUQ36AMY14(W)	RXUQ38AMY14(W)	RXUQ40AMY14(W)	RXUQ42AMY14(W)	RXUQ44AMY14(W)	RXUQ46AMY14(W)	RXUQ48AMY14(W)	RXUQ50AMY14(W)	RXUQ52AMY14(W)	RXUQ54AMY14(W)	RXUQ56AMY14(W)	RXUQ58AMY14(W)	RXUQ60AMY14(W)	
Combination units		RXUQ12AY14(W)	RXUQ12AY14(W)	RXUQ12AY14(W)	RXUQ14AY14(W)	RXUQ16AY14(W)	RXUQ18AY14(W)	RXUQ20AY14(W)	RXUQ12AY14(W)	RXUQ12AY14(W)	RXUQ12AY14(W)	RXUQ12AY14(W)	RXUQ12AY14(W)	RXUQ12AY14(W)	RXUQ14AY14(W)	RXUQ16AY14(W)	RXUQ18AY14(W)	RXUQ20AY14(W)	
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz									3-phase 4-wire system, 380-415 V, 50 Hz								
Cooling capacity	Btu/h	268,000	285,000	305,000	328,000	345,000	362,000	382,000	399,000	420,000	444,000	461,000	478,000	498,000	519,000	536,000	553,000	573,000	
	kW	78.5	83.5	89.5	96.0	101	106	112	117	123	130	135	140	146	152	157	162	168	
Power consumption	kW	19.2	20.6	22.6	24.3	26.2	27.6	29.6	28.4	30.4	32.1	34.0	35.4	37.4	39.1	41.0	42.4	44.4	
Capacity control	%	5-100			4-100			4-100	3-100			2-100							
Casing colour		Ivory white (5Y7.5/1) (Metallic brown *1)									Ivory white (5Y7.5/1) (Metallic brown *1)								
Compressor	Type	Hermetically sealed scroll type									Hermetically sealed scroll type								
	Motor output	kW	(5.2x1)+(3.4x1)+(3.9x1)	(5.2x1)+(3.7x1)+(4.3x1)	(5.2x1)+(4.9x1)+(4.2x1)	(3.4x1)+(2.9x1)+(4.9x1)+(4.2x1)	(3.4x1)+(3.9x1)+(4.9x1)+(4.2x1)	(3.7x1)+(4.3x1)+(4.9x1)+(4.2x1)	(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(5.2x1)+(5.2x1)+(3.7x1)+(4.3x1)	(5.2x1)+(5.2x1)+(4.9x1)+(4.2x1)	(5.2x1)+(3.4x1)+(2.9x1)+(4.9x1)+(4.2x1)	(5.2x1)+(3.4x1)+(3.9x1)+(4.9x1)+(4.2x1)	(5.2x1)+(3.7x1)+(4.3x1)+(4.9x1)+(4.2x1)	(5.2x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(3.4x1)+(2.9x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(3.4x1)+(3.9x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(3.7x1)+(4.3x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)
Airflow rate	m³/min	191+218	191+268	191+297	218+297	268+297	297+297	191+191+268	191+191+297	191+218+297	191+268+297	191+297+297	218+297+297	268+297+297	297+297+297				
Dimensions (HxWxD)	mm	(1,657x1,240x765)+(1,657x1,240x765)									(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)								
Machine weight	kg	215+275 (235+295 *1)	215+291 (235+316 *1)	275+291 (295+316 *1)	291+291 (316+316 *1)	215+215+291 (235+235+316 *1)	215+275+291 (235+295+316 *1)	215+291+291 (235+316+316 *1)	275+291+291 (295+316+316 *1)	291+291+291 (316+316+316 *1)									
Sound level	dB(A)	62	63	66	67	68	65	66	67	68	69	70							
Operation range		10 to 49									10 to 49								
Refrigerant	Type	R-410A									R-410A								
	Charge	kg	8.5+9.8	8.5+11.7	9.7+11.7	9.8+11.7	11.7+11.7	8.5+8.5+11.7	8.5+9.7+11.7	8.5+9.8+11.7	8.5+11.7+11.7	9.7+11.7+11.7	9.8+11.7+11.7	11.7+11.7+11.7					
Piping connections	Liquid	φ 19.1 (Brazing)									φ 19.1 (Brazing)								
	Gas	φ 34.9 (Brazing)			φ 41.3 (Brazing)			φ 41.3 (Brazing)			φ 41.3 (Brazing)								

Notes: Specifications are based on the following conditions;  
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.  
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.  
 When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

Note: \*1. Models with (W) are the outdoor units with anti-corrosion specifications. For details, refer to pages 25 - 26 for more information.





Saves Space and Delivers Excellent Performance

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



Single Outdoor units  
**RXQ6-20AY14(W)**

Double Outdoor units  
**RXQ18-40AMY14(W)**

Triple Outdoor units  
**RXQ42-60AMY14(W)**

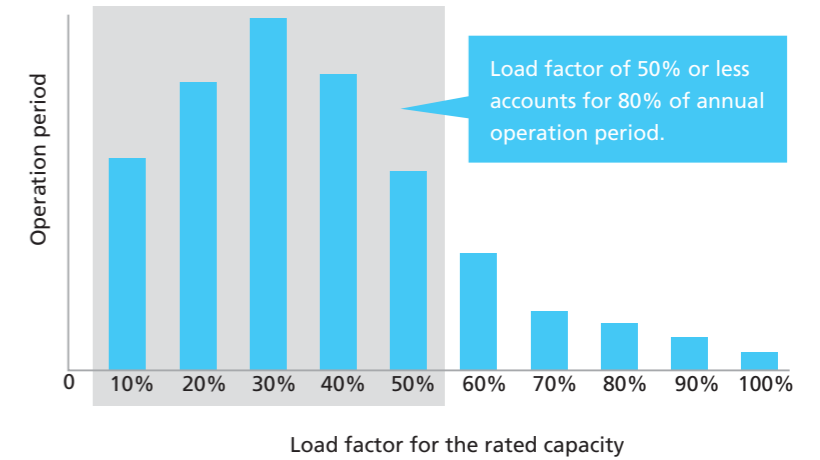
\*(W): Heavy anti-corrosion model

## Greater energy savings during low-load operation

Daikin's VRV A series raised the standard of energy efficiency.

The key to innovative energy savings

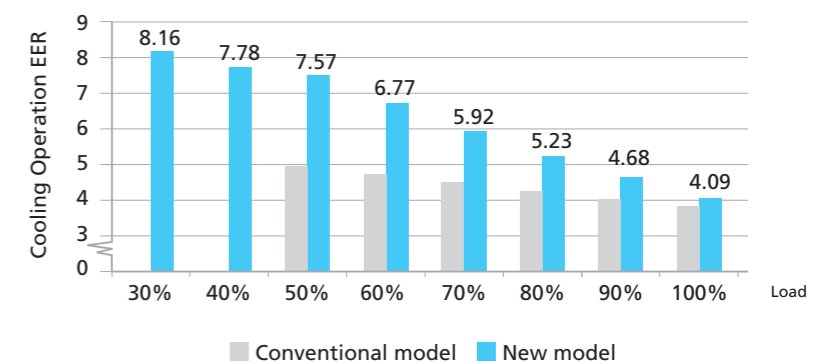
Increased efficiency during low-load operation.



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

## Higher Energy Efficiency Ratio (EER) for 10 HP

Annual power consumption  
**14% Lower**



- \* Simulation conditions:
- Location: Bangkok, Thailand
  - System: Outdoor unit (10 HP) x 1  
Indoor unit (2 HP, Round Flow with Sensing type) x 5
  - Operation time: 8:00-20:00 5 days/week
  - Outdoor units: New model: RXQ10A (VRV A series)  
Conventional model: RXQ10T (VRV IV)
- \* Cooling operation conditions:
- Indoor temperature of 27°CDB, 19°CWB, and outdoor temperature of 35°CDB.

# Advanced Technologies

## Advanced technologies for greater energy savings

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

### Software technology VRT Smart Control

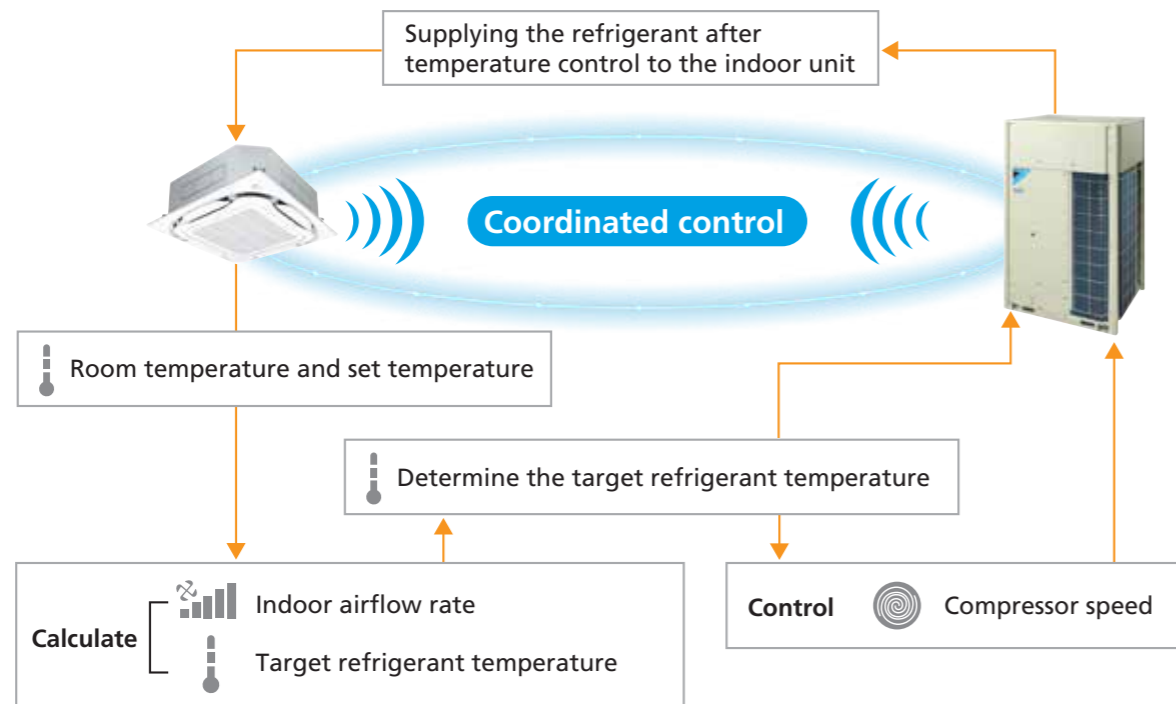
Fully Automatic Energy-saving Refrigerant Control



VRT Smart Control Function movie

### Optimally supply only for the needed capacity of indoor units

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



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

## VRV + VRT + VAV

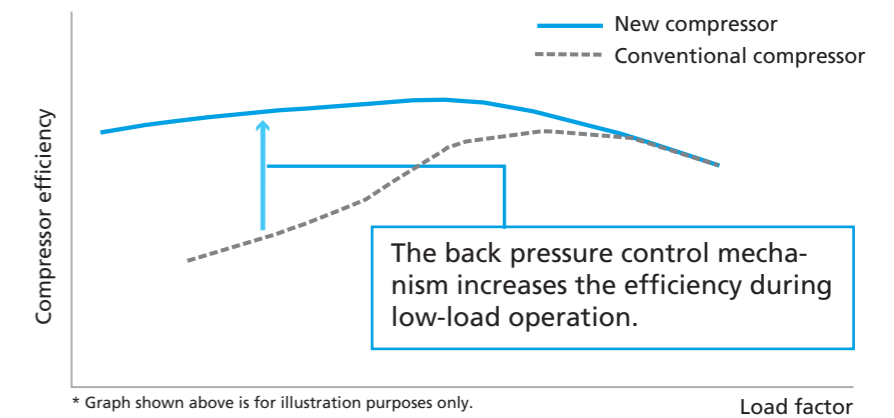
### Hardware technology New Scroll Compressor



New Scroll Compressor movie

### Refrigerant leakage is minimized during low-load operation

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



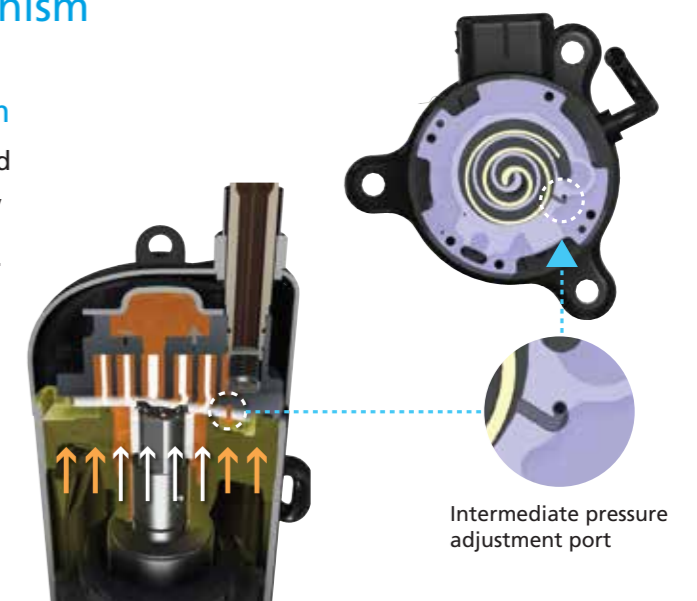
\* Graph shown above is for illustration purposes only.

### Back pressure control mechanism

#### New intermediate pressure mechanism

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

\* The new mechanism is used in RXQ10,12,14 and 20A models.



# Advanced Technologies

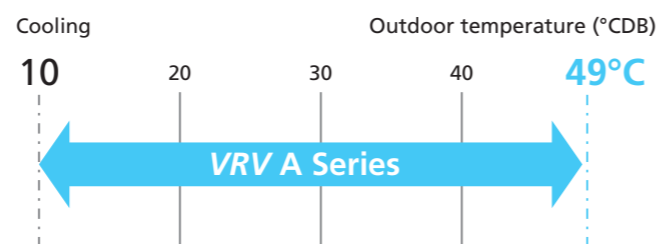
## Advanced oil temperature control

Standby power needed for preheating refrigerator oil was **reduced up to 82.7%** to save energy when the air conditioner is stopped.

\* Operation calculation conditions: VRV A series 14 HP  
Location: Singapore  
Operation time: 08:00-18:00 on weekdays

**82.7%**  
Reduction

## Extended operation range up to 49°C

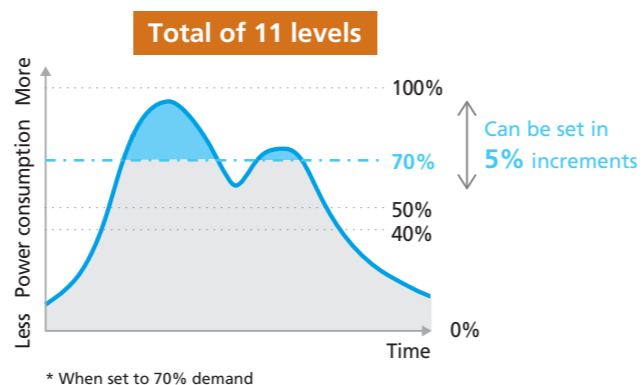


Note: When outdoor temperature falls below 10°C, the thermostat shuts OFF, the outdoor unit stops, and operation switches from cooling to fan operation.

## I-demand function

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

\* Set on the PCB of the outdoor unit.



## High external static pressure

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

## Active Filter Unit (Option)

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



## Automatic refrigerant charge function

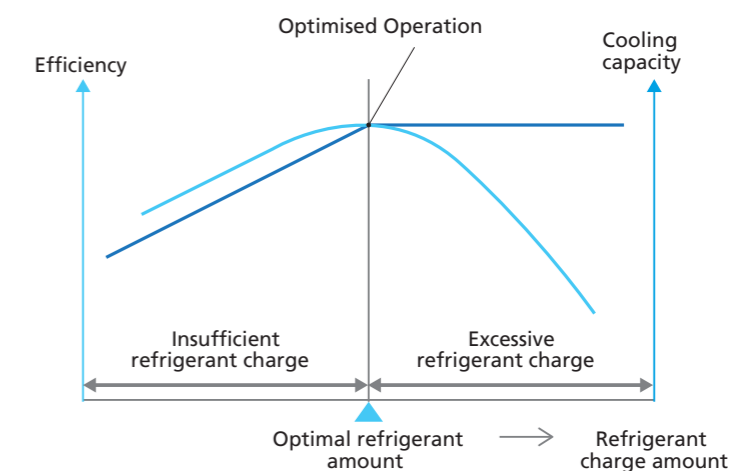
Contribute to optimised operation efficiency, higher quality and easier installation.

### Optimised operation efficiency

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



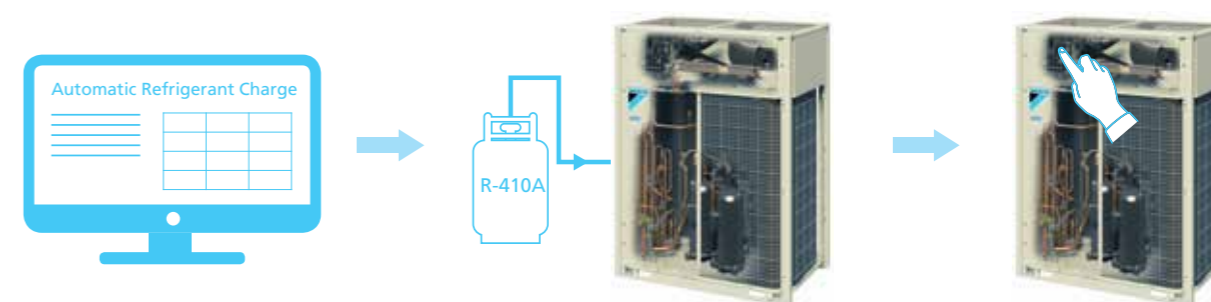
Automatic Refrigerant Charge Function movie



### Higher quality and easier installation

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

- 1 Calculation of necessary refrigerant amount from design drawing
- 2 Pre-charge of refrigerant
- 3 Start of automatic refrigerant charge operation



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

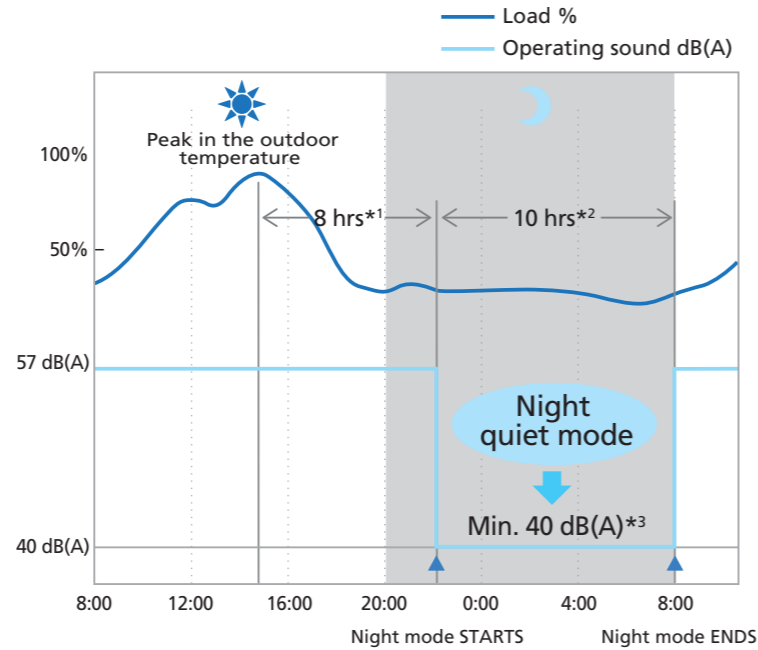
\* There are conditions in the range of ambient temperature in which the automatic refrigerant charge can be used. Refer to the installation manual for details.  
\* The refrigerant amount that can be automatically charged may differ from the additional refrigerant amount that is provided from calculations,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

# Comfort & Reliability

## Comfort

### Nighttime quiet operation function

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

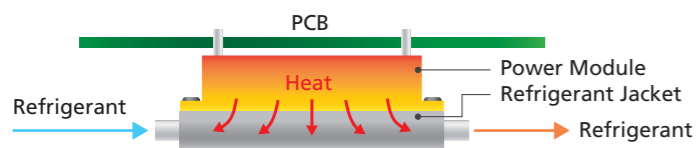


\*1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.  
 \*2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.  
 \*3. In case of 10 HP outdoor unit.

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

## Reliable and stable technology

### High reliability at high ambient temperature



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

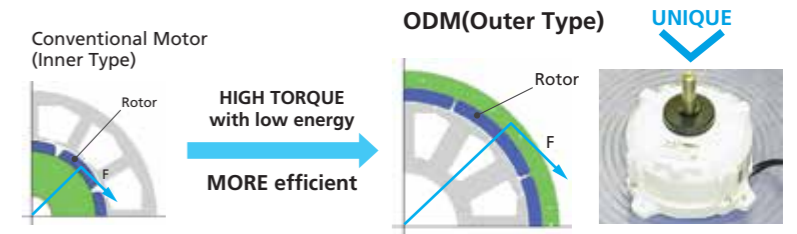
Control board failure ratio at stable operation is reduced.

This enables

- Suitability for high ambient temperatures
- Miniaturization of electronic components

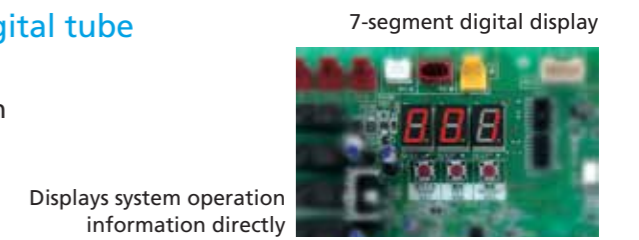
### Outer rotor DC motor (ODM)

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



### Function of information display by luminous digital tube

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

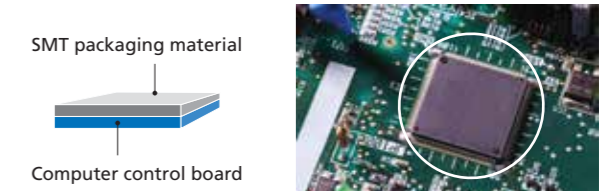


### SMT\* packaging technology

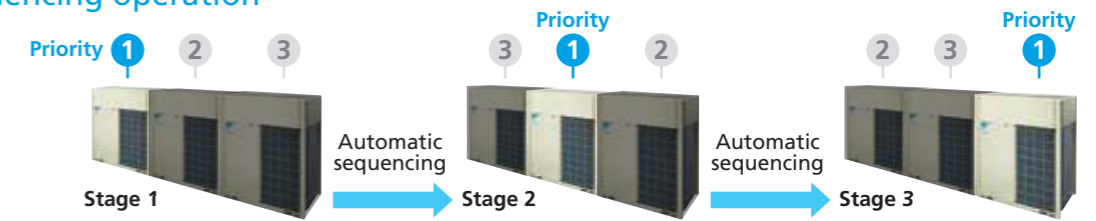
- Improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.

\* SMT: Surface mounted technology

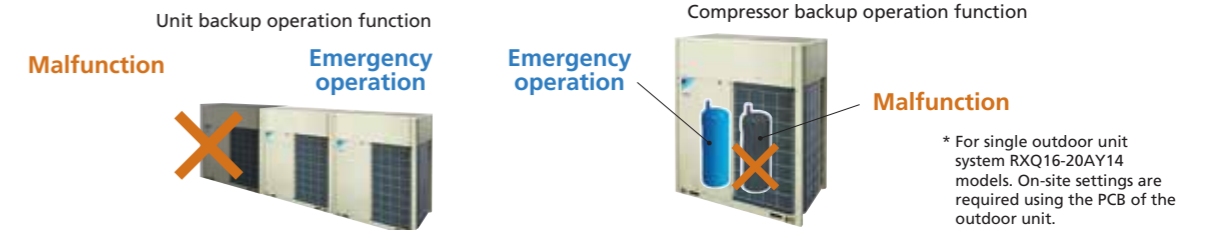
Computer control board surface adopting SMT packaging technology



### Automatic sequencing operation



### Double backup operation functions

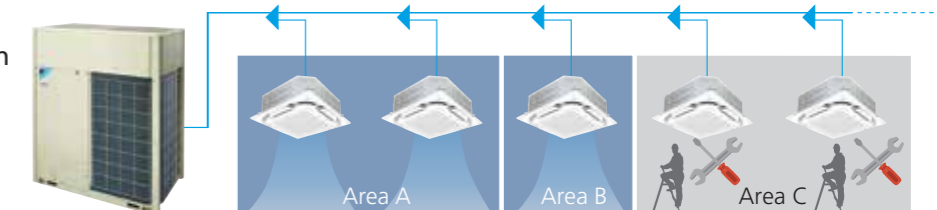


\* For single outdoor unit system RXQ16-20AY14 models. On-site settings are required using the PCB of the outdoor unit.

### Ease of maintenance

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

\* Field setting is required.

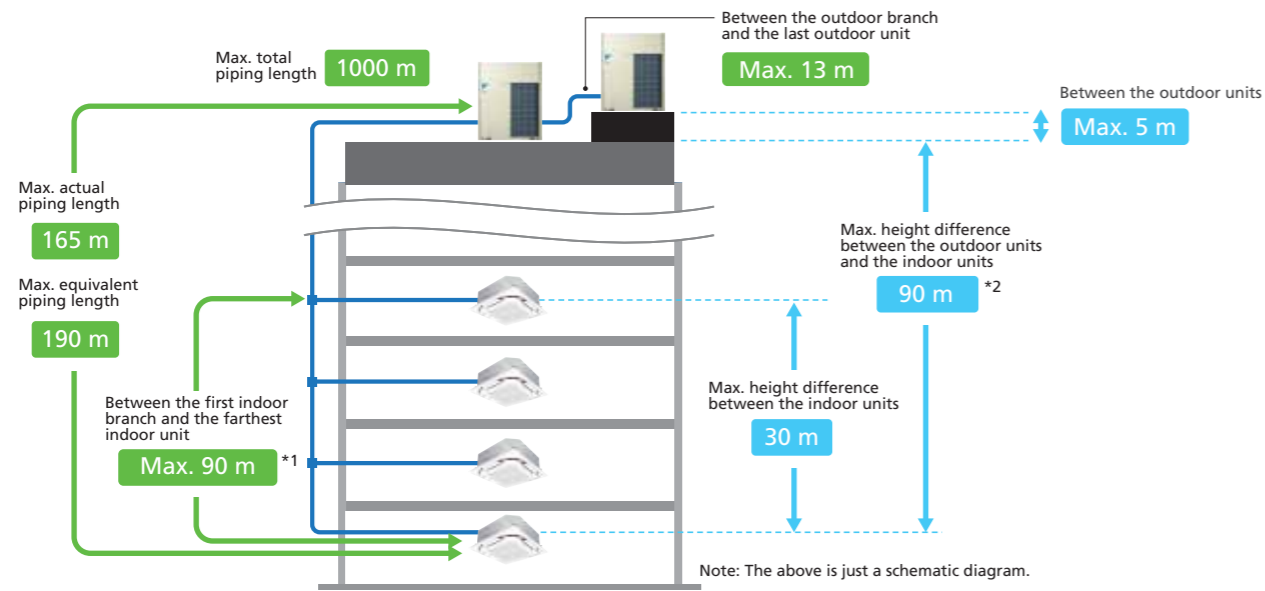


# Flexible System Design

## More options for installation location

### Long piping length

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



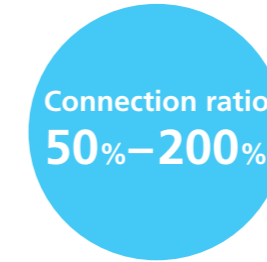
Maximum allowable piping length	Actual piping length (Equivalent)	165 m (190 m)
	Total piping length	1000 m
	Between the first indoor branch and the farthest indoor unit	90 m <sup>*1</sup>
	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)
Maximum allowable height difference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

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

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

### Connection ratio

Connection capacity at maximum is 200%.



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

Conditions of VRV indoor unit connection capacity

Applicable VRV indoor units	 FXSQ	 FXDBQ	 FXAQ	Other VRV indoor unit models <sup>*1</sup>
	 FXD(S)Q	 FXMQ-PA	 FXB(P)Q	
Single outdoor units	<h1>200%</h1>			200%
Double outdoor units				160%
Triple outdoor units				130%

\*1 For the FXF(S)(T)(R)Q25 and FXVQ models, maximum connection ratio is 130% for the entire range of outdoor units.  
Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.  
\*Refer to page 43 for outdoor unit combination details.

# Anti-corrosion Technology

## Heavy anti-corrosion model



RXQ6-20AY14W  
RXQ18-60AMY14W

Built for Seaside

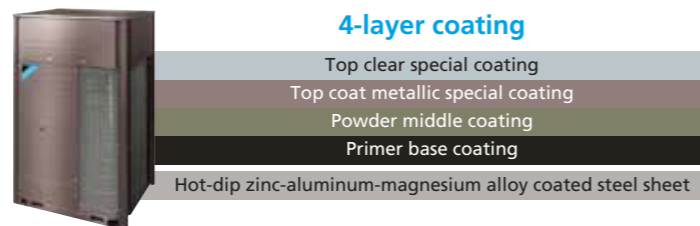


### Maximize anti-corrosion and performance

#### Outer casing

##### Multi coating for extreme durability

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



##### Anti-corrosion verification by accelerated test

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

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



#### Heat exchanger (Fin)

##### Anti-corrosion technology

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



##### High performance technology

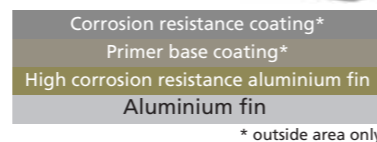
New aluminum fins are 21% thicker to maintain performance.



Achieves both anti-corrosion and high efficiency

##### Automated fin coating line

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



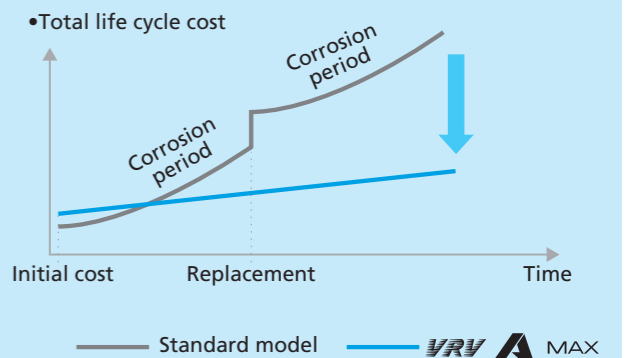
### Maximize lifespan

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

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

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

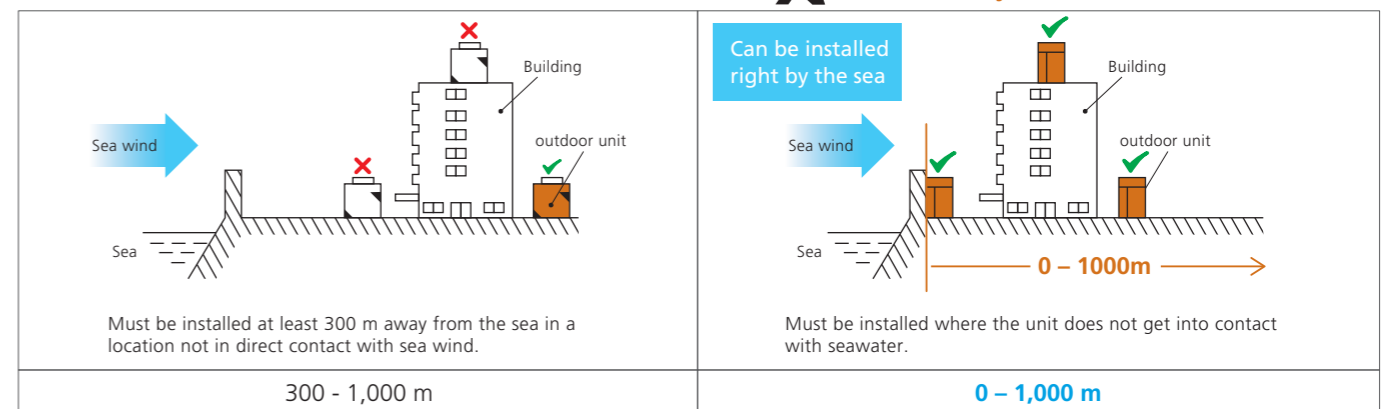
The new model resists corrosion by salt, maintains performance, and greatly reduces life cycle costs.



Built for seaside

Previous model: Anti-corrosion

VRV A MAX : Heavy Anti-corrosion



### Specifications of anti-corrosion model

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



# Outdoor Units

## VRV A Series

### Specifications

MODEL		RXQ6AY14(W)	RXQ8AY14(W)	RXQ10AY14(W)	RXQ12AY14(W)	RXQ14AY14(W)	RXQ16AY14(W)	RXQ18AY14(W)	RXQ20AY14(W)	RXQ18AMY14(W)	RXQ20AMY14(W)	RXQ22AMY14(W)	RXQ24AMY14(W)	RXQ26AMY14(W)	RXQ28AMY14(W)	RXQ30AMY14(W)			
Combination units		—	—	—	—	—	—	—	—	RXQ8AY14(W)	RXQ8AY14(W)	RXQ10AY14(W)	RXQ12AY14(W)	RXQ12AY14(W)	RXQ12AY14(W)	RXQ12AY14(W)			
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz								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	171,000	191,000	172,000	191,000	210,000	229,000	251,000	268,000	285,000			
	kW	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0	50.4	55.9	61.5	67.0	73.5	78.5	83.5			
Power consumption	kW	3.38	5.17	6.84	8.70	10.7	12.9	15.3	17.7	12.0	13.9	15.5	17.4	19.4	21.6	24.0			
Capacity control	%	25-100	20-100	13-100	12-100	11-100	10-100	10-100	7-100	7-100	7-100	6-100	6-100	6-100	5-100	5-100			
Casing colour		Ivory white (5Y7.5/1) (Metallic brown *1)								Ivory white (5Y7.5/1) (Metallic brown *1)									
Compressor	Type	Hermetically sealed scroll type								Hermetically sealed scroll type									
	Motor output	kW	2.3x1	3.4x1	4.5x1	5.6x1	6.4x1	(3.5x1)+(3.5x1)	(4.0x1)+(4.0x1)	(3.8x1)+(6.3x1)	(3.4x1)+(4.5x1)	(3.4x1)+(5.6x1)	(4.5x1)+(5.6x1)	(5.6x1)+(5.6x1)	(5.6x1)+(6.4x1)	(5.6x1)+(3.5x1)+(3.5x1)	(5.6x1)+(4.0x1)+(4.0x1)		
Airflow rate	m³/min	119	178	191	257	297	178+178	178+191	191+191	191+257	257+257	257+297	297+297	297+297	297+297	297+297			
Dimensions (HxWxD)	mm	1,657x930x765				1,657x1,240x765				1,657x1,240x765	(1,657x930x765)+(1,657x930x765)				(1,657x930x765)+(1,657x1,240x765)				
Machine weight	kg	175 (180 *1)		185 (195 *1)		215 (235 *1)	260 (280 *1)		285 (310 *1)	175+185 (180+195 *1)		185+185 (195+195 *1)		185+215 (195+235 *1)		185+260 (195+280 *1)			
Sound level	dB(A)	56		57	59	60		61	65	60	61		62	63					
Operation range	°CDB	10 to 49								10 to 49									
Refrigerant	Type	R-410A								R-410A									
	Charge	kg	5.9		6.7	6.8	7.4	8.2	8.4	11.8	5.9+6.7		5.9+6.8		6.7+6.8	6.8+6.8		6.8+7.4	6.8+8.2
Piping connections	Liquid	φ 9.5 (Brazing)				φ 12.7 (Brazing)				φ 15.9 (Brazing)				φ 19.1 (Brazing)					
	Gas	φ 19.1 (Brazing)		φ 22.2 (Brazing)		φ 28.6 (Brazing)				φ 28.6 (Brazing)				φ 34.9 (Brazing)					

MODEL		RXQ32AMY14(W)	RXQ34AMY14(W)	RXQ36AMY14(W)	RXQ38AMY14(W)	RXQ40AMY14(W)	RXQ42AMY14(W)	RXQ44AMY14(W)	RXQ46AMY14(W)	RXQ48AMY14(W)	RXQ50AMY14(W)	RXQ52AMY14(W)	RXQ54AMY14(W)	RXQ56AMY14(W)	RXQ58AMY14(W)	RXQ60AMY14(W)	
Combination units		RXQ14AY14(W)	RXQ16AY14(W)	RXQ18AY14(W)	RXQ18AY14(W)	RXQ20AY14(W)	RXQ12AY14(W)	RXQ12AY14(W)	RXQ14AY14(W)	RXQ14AY14(W)	RXQ14AY14(W)	RXQ16AY14(W)	RXQ18AY14(W)	RXQ18AY14(W)	RXQ18AY14(W)	RXQ20AY14(W)	
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz								3-phase 4-wire system, 380-415 V, 50 Hz							
Cooling capacity	Btu/h	307,000	324,000	341,000	362,000	382,000	399,000	420,000	444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000	
	kW	90.0	95.0	100	106	112	117	123	130	135	140	145	150	156	162	168	
Power consumption	kW	26.0	28.2	30.6	33.0	35.4	37.7	39.1	36.7	38.9	41.3	43.5	45.9	48.3	50.7	53.1	
Capacity control	%	5-100	5-100	5-100	4-100	3-100	4-100	3-100	3-100	3-100	3-100	3-100	3-100	3-100	2-100	2-100	
Casing colour		Ivory white (5Y7.5/1) (Metallic brown *1)								Ivory white (5Y7.5/1) (Metallic brown *1)							
Compressor	Type	Hermetically sealed scroll type								Hermetically sealed scroll type							
	Motor output	kW	(6.4x1)+(4.0x1)+(4.0x1)	(3.5x1)+(3.5x1)+(4.0x1)+(4.0x1)	(4.0x1)+(4.0x1)+(4.0x1)+(4.0x1)	(4.0x1)+(4.0x1)+(3.8x1)+(6.3x1)	(3.8x1)+(6.3x1)+(3.8x1)+(6.3x1)	(5.6x1)+(5.6x1)+(4.0x1)+(4.0x1)	(5.6x1)+(5.6x1)+(3.8x1)+(6.3x1)	(6.4x1)+(6.4x1)+(4.0x1)+(4.0x1)	(6.4x1)+(3.5x1)+(3.5x1)+(4.0x1)+(4.0x1)	(6.4x1)+(4.0x1)+(4.0x1)+(4.0x1)+(4.0x1)	(3.5x1)+(3.5x1)+(4.0x1)+(4.0x1)+(4.0x1)	(4.0x1)+(4.0x1)+(4.0x1)+(4.0x1)+(4.0x1)	(4.0x1)+(4.0x1)+(4.0x1)+(4.0x1)+(4.0x1)	(4.0x1)+(4.0x1)+(3.8x1)+(6.3x1)+(6.3x1)+(3.8x1)+(6.3x1)	(3.8x1)+(6.3x1)+(3.8x1)+(6.3x1)+(6.3x1)+(3.8x1)+(6.3x1)
Airflow rate	m³/min	257+257		257+297	297+297	191+191+257	191+191+297	257+257+257				257+257+297	257+297+297	297+297+297			
Dimensions (HxWxD)	mm	(1,657x1,240x765)+(1,657x1,240x765)				(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)				(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)							
Machine weight	kg	215+260 (235+280 *1)	260+260 (280+280 *1)		260+285 (280+310 *1)	285+285 (310+310 *1)	185+185+260 (195+195+280 *1)	185+185+285 (195+195+310 *1)	215+215+260 (235+235+280 *1)	215+260+260 (235+280+280 *1)		260+260+260 (280+280+280 *1)		260+260+285 (280+280+310 *1)	260+285+285 (280+310+310 *1)	285+285+285 (310+310+310 *1)	
Sound level	dB(A)	64				66	68	65	67	65				66	68	69	70
Operation range	°CDB	10 to 49								10 to 49							
Refrigerant	Type	R-410A								R-410A							
	Charge	kg	7.4+8.4	8.2+8.4	8.4+8.4	8.4+11.8	11.8+11.8	6.8+6.8+8.4	6.8+6.8+11.8	7.4+7.4+8.4	7.4+8.2+8.4	7.4+8.4+8.4	8.2+8.4+8.4	8.4+8.4+8.4	8.4+8.4+11.8	8.4+11.8+11.8	11.8+11.8+11.8
Piping connections	Liquid	φ 19.1 (Brazing)								φ 19.1 (Brazing)							
	Gas	φ 34.9 (Brazing)				φ 41.3 (Brazing)				φ 41.3 (Brazing)							

Notes: Specifications are based on the following conditions; •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m. •Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

Note: \*1. Models with (W) are the outdoor units with anti-corrosion specifications. For details, refer to pages 41 - 42 for more information.



# VRV S High Seasonal Efficiency SERIES

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

Cooling Only  
**4 HP – 9 HP**  
(11.2 kW) (24 kW)



Presentation Movie



**RSUQ4-6AVM4**  
**RSUQ7-9AYM4**

## 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

High performance & reliability

Design flexibility of installation

### ■ 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

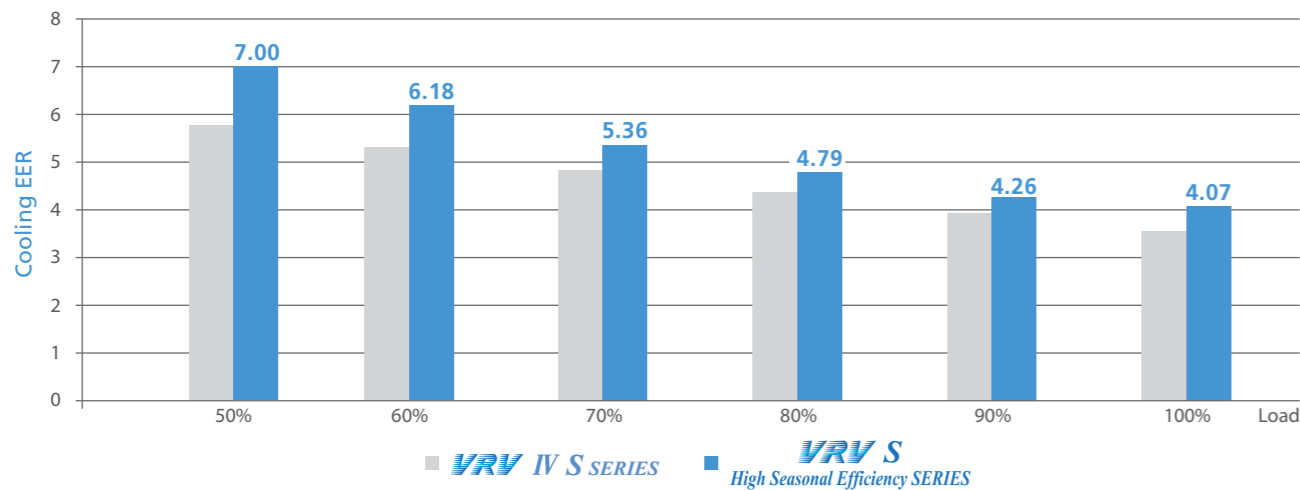
# Energy Savings & Comfort

## Energy savings

### High seasonal efficiency

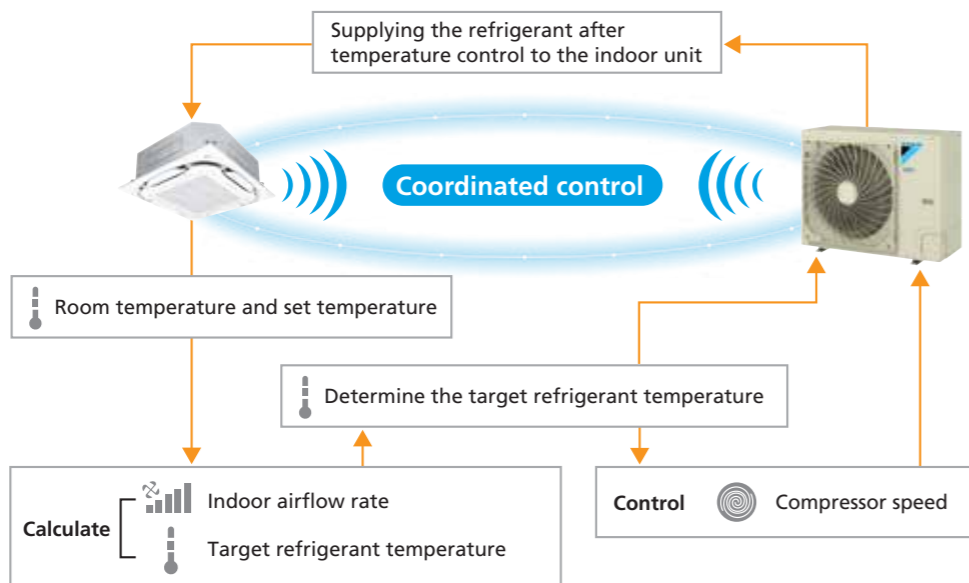
The VRT Smart Control enables improvements on efficiency during low load operation, achieving high seasonal efficiency.

EER for 5 HP



### 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 optimizing capacity to meet actual operation load.



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

## Comfort

### Quiet operation

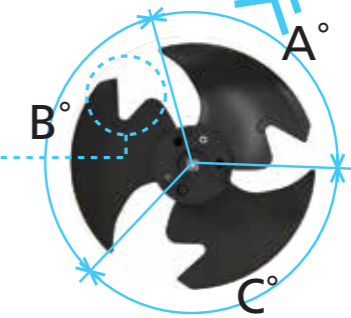
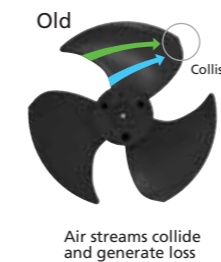
#### Low operation sound

New fan and bell mouth help enable low operation sound.

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



#### V-cut & irregular pitch propeller fan



Irregular blade pitch also contributes to reduced airflow noise.

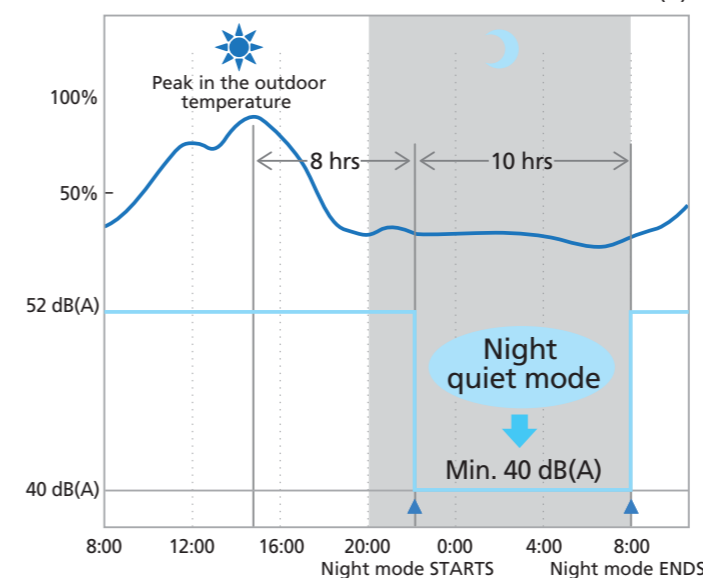
$$A^\circ < B^\circ < C^\circ$$

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

#### 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
RSUQ4/5/6A	Min. 40 dB(A)
RSUQ7/8/9A	Min. 45 dB(A)



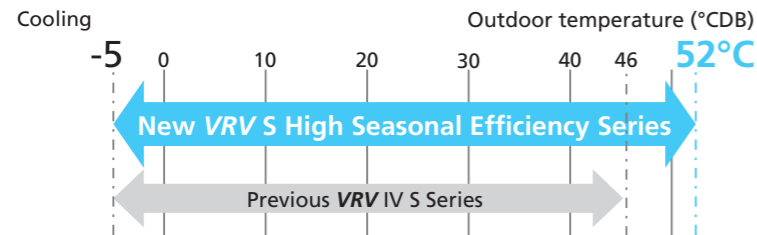
Notes: • This function is available in setting at site.  
 • The operating sound in quiet operation mode is the actual value measured by our company.  
 • The relationship of outdoor temperature (load) and time shown above is just an example.  
 • In case of 4-6 HP outdoor unit

# High Performance & Reliability

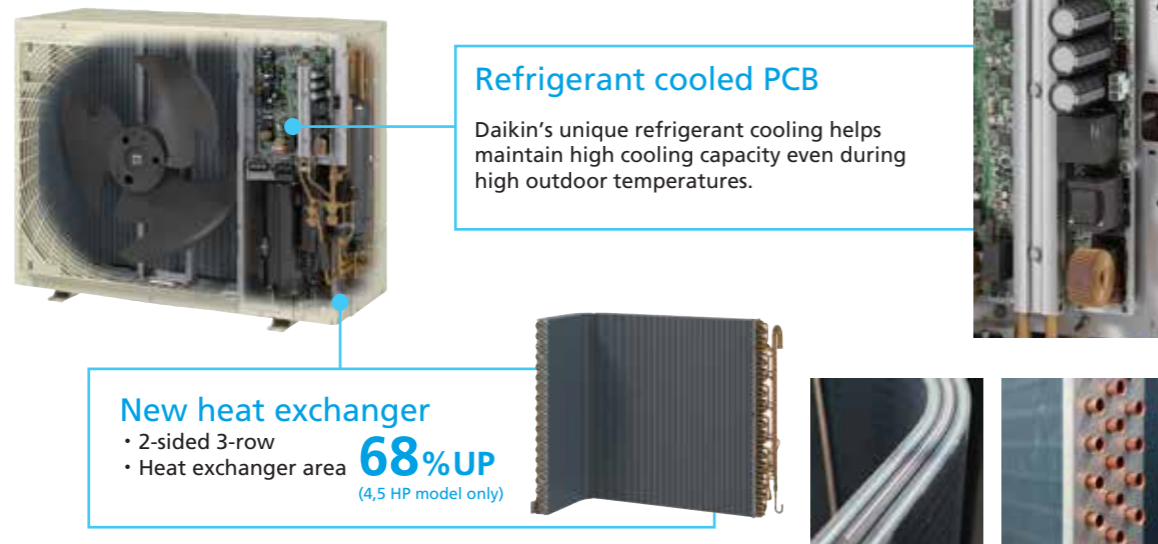
## High temperature operation

### Extended operation range up to 52°C

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

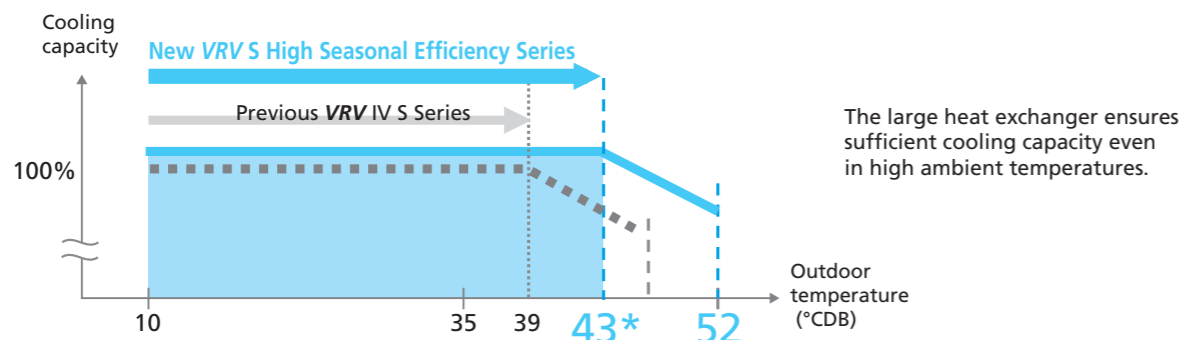


The refrigerant-cooled PCB and large 3-row heat exchanger raise the maximum cooling outdoor operation temperature from 46°C to 52°C.



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

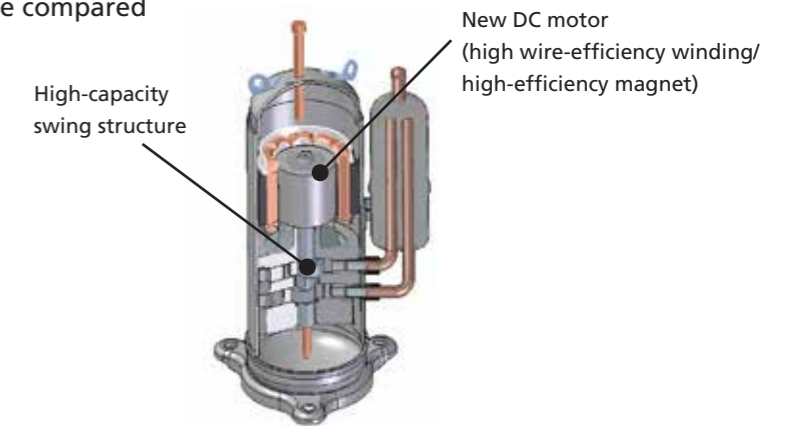
Rated cooling capacity can be maintained even when outdoor temperature is up to 43°C\*. \*Rated cooling capacity for 9 HP is up to 42°C.



## New swing compressor

### High efficiency, high capacity DC inverter swing compressor

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

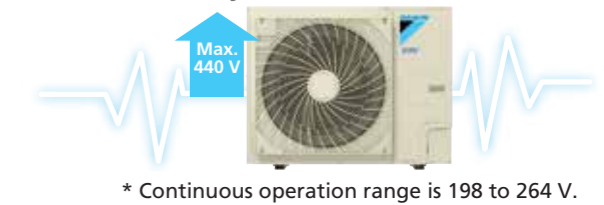


### Improved performance

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

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

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

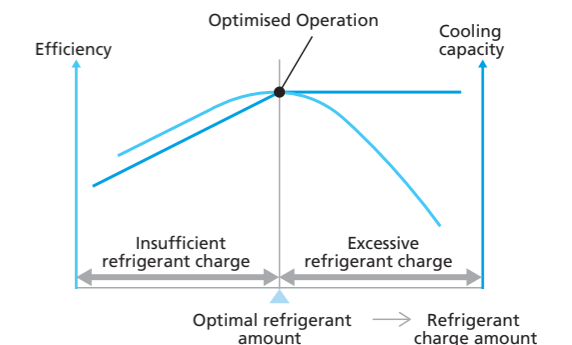


## Automatic refrigerant charge function

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

### Optimised operation efficiency

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



### Higher quality and easier installation

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

- 1 Calculation of necessary refrigerant amount from design drawing
- 2 Start of automatic refrigerant charge operation



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

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

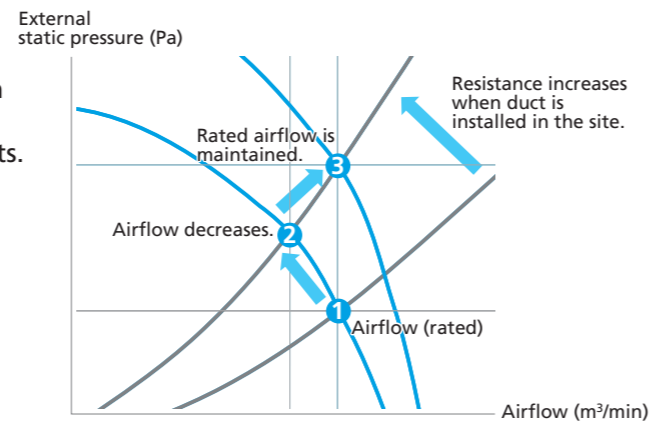
# Design Flexibility of Installation

## No short circuits

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

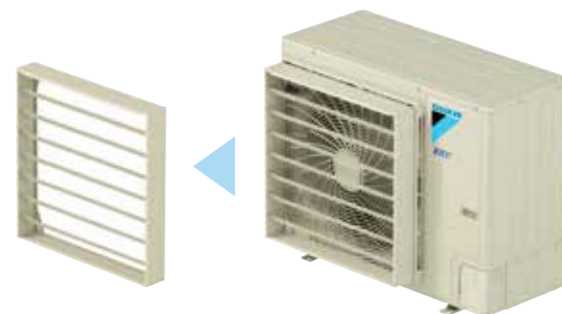
The new VRV S High Seasonal Efficiency Series outdoor unit has been achieved high external static pressure up to 40 Pa, realizing stable operation in small installation sites where the air direction adjustment grille or duct is used to avoid short circuits.

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.



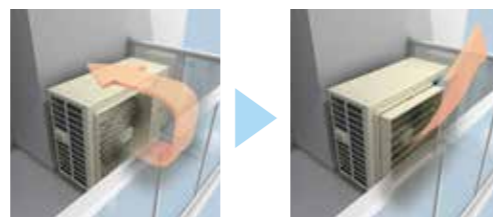
### Optimum airflow direction with the optional air direction adjustment grille

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.

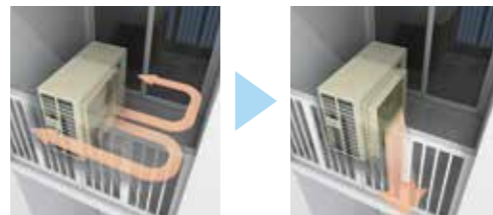


Air direction adjustment grille (option)

Wind is diverted upwards.

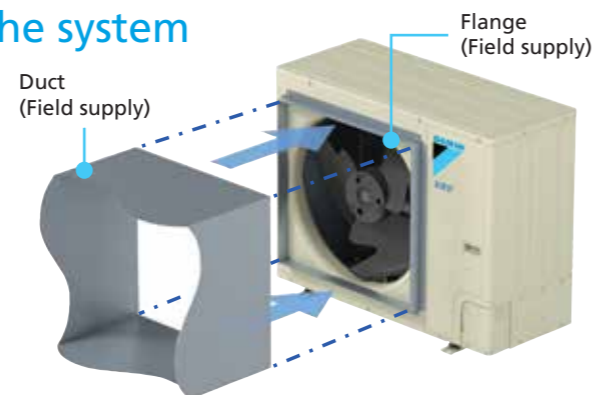


Wind is diverted sideways.



### Duct installation to stabilize the system

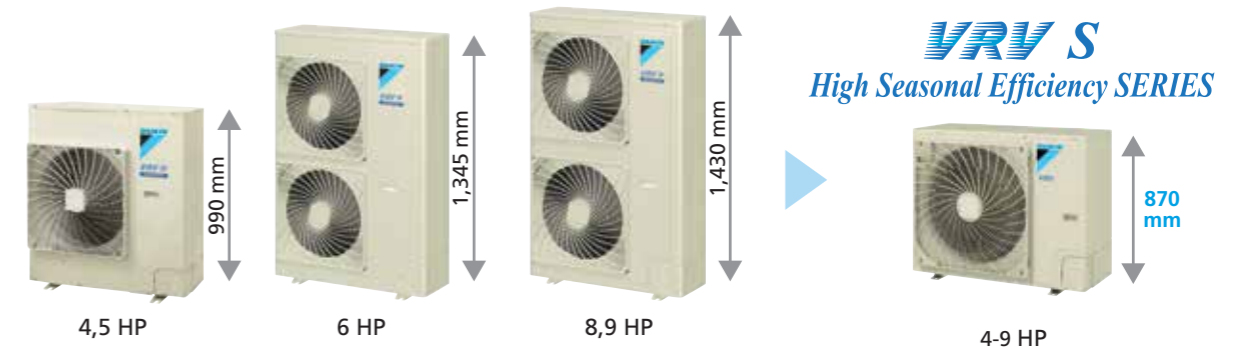
When the obstacle is not avoidable by the air direction adjustment grille, installing a field-supplied duct can bypass the obstacle. In this way, installation of the outdoor unit is possible in places like behind an advertising board.



## 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

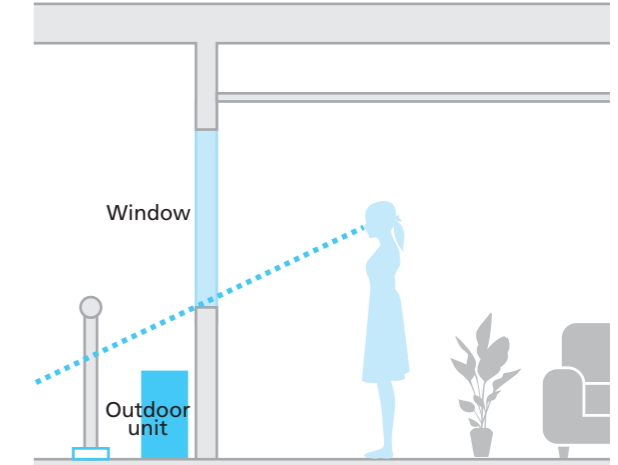


- Ideal solution that minimises both visual and sound impact
- Can be installed in a wide variety of locations and applications
- No space required for multiple outdoor units

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.

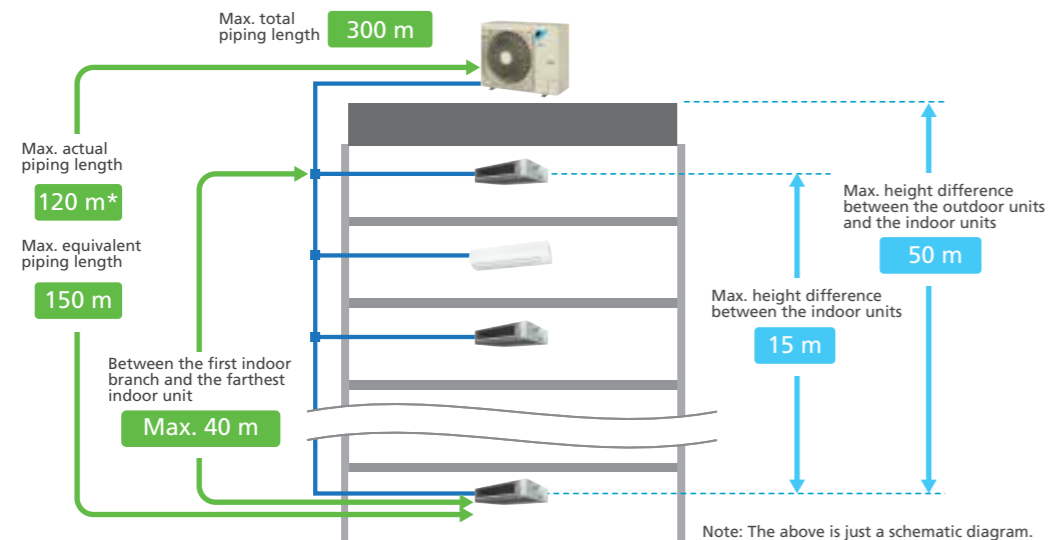


# Design Flexibility of Installation

## Increased actual piping length up to 120 m\*

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

Installation on the rooftop of residential apartments



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

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

Installation on balconies of residential apartments



One outdoor unit can provide comfort for the whole house



# Indoor Unit Lineup

## Wide variety of indoor units

● New lineup  
VRT smart Indoor units subject to VRT smart control  
VRT Indoor units subject to VRT control


Category	Type	Model Name	Capacity Range	20	25	32	40	50	63	80	100	125	140	200	250		
				0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP		
				Capacity Index	20	25	31.25	40	50	62.5	80	100	125	140	200	250	
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	<b>FXFTQ-AV4</b> <span style="color: red;">●</span> <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>			●	●	●	●	●	●	●	●	●	●			
	Round Flow Cassette with Streamer	<b>FXFRQ-AV4</b> <span style="color: red;">●</span> <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>			●	●	●	●	●	●	●	●	●	●			
	Round Flow Cassette with Sensing	FXFSQ-AV4 <span style="background-color: #A9A9A9; color: white; padding: 2px;">VRT</span>			●	●	●	●	●	●	●	●	●	●			
	Round Flow Cassette	FXFQ-AV4 <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>			●	●	●	●	●	●	●	●	●	●			
	Compact Multi Flow Cassette	<b>FXZQ-BVM4</b> <span style="color: red;">●</span> <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>			●	●	●	●	●								
	Double Flow Cassette	<b>FXCQ-BVM4</b> <span style="color: red;">●</span> <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>			●	●	●	●	●	●			●				
	Single Flow Cassette	FXKQ-MAVE4 <span style="background-color: #A9A9A9; color: white; padding: 2px;">VRT</span>			●	●	●			●							
Ceiling Concealed Duct	Ceiling Mounted Cassette Duct	FXFDQ-AV4 <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>							●	●	●	●					
	Bedroom Duct	FXDBQ-AVM4 <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>						●	●	●							
		Slim Duct (Standard)	FXDQ-PDVE4 (with drain pump) <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>		(700 mm width type)		●	●	●								
			FXDQ-PDVT4 (without drain pump) <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>				●	●	●								
			FXDQ-NDVE4 (with drain pump) <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>				●	●	●								
	FXDQ-NDVT4 (without drain pump) <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>		(900/1,100 mm width type)		●	●	●										
	Slim Duct (Compact)	FXDQ-SPV14 <span style="background-color: #A9A9A9; color: white; padding: 2px;">VRT</span>			●	●	●	●	●	●							
	Middle Static Pressure Duct	FXSQ-PAV4 <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>			●	●	●	●	●	●	●	●	●	●			
	Middle-High Static Pressure Duct	FXMQ-PAV4 <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>			●	●	●	●	●	●	●	●	●	●			
	High Static Pressure Duct	FXMQ-PVM <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>													●	●	
Outdoor-Air Processing Unit	FXMQ-MFV7 <span style="background-color: #A9A9A9; color: white; padding: 2px;">VRT</span>												●	●	●		
Ceiling Suspended	FXHQ-MAV7 <span style="background-color: #A9A9A9; color: white; padding: 2px;">VRT</span>				●				●		●						
	<b>FXHQ-BVM4</b> <span style="color: red;">●</span> <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT</span>											●	●				
Floor Standing	Wall Mounted	FXAQ-AVM4 <span style="background-color: #00AEEF; color: white; padding: 2px;">VRT smart</span>			●	●	●	●	●	●							
	Floor Standing	FXLQ-MAVE4 <span style="background-color: #A9A9A9; color: white; padding: 2px;">VRT</span>			●	●	●	●	●	●							
	Concealed Floor Standing	FXNQ-MAVE4 <span style="background-color: #A9A9A9; color: white; padding: 2px;">VRT</span>			●	●	●	●	●	●							
Clean Room Air Conditioner	Floor Standing Duct	FXVQ-NY14 <span style="background-color: #A9A9A9; color: white; padding: 2px;">VRT</span>											●	●	●		
		FXBQ-PVE4 <span style="background-color: #A9A9A9; color: white; padding: 2px;">VRT</span>						●	●	●							
	FXBPQ-PVE4 <span style="background-color: #A9A9A9; color: white; padding: 2px;">VRT</span>								●								
Heat Reclaim Ventilator	VAM-HVE			Airflow rate 150-2000 m³/h													



# Outdoor Units

## VRV S High Seasonal Efficiency Series

### Specifications

								
MODEL			RSUQ4AVM4	RSUQ5AVM4	RSUQ6AVM4	RSUQ7AYM4	RSUQ8AYM4	RSUQ9AYM4
Power supply			1-phase, 220-240 V, 50 Hz			3-phase, 380-415 V, 50 Hz		
Cooling capacity	Btu/h		38,200	47,800	54,600	68,200	76,400	81,900
	kW		11.2	14.0	16.0	20.0	22.4	24.0
Power consumption	kW		2.49	3.44	4.10	5.46	6.61	7.21
Capacity control	%		23 to 100	16 to 100		9 to 100		
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed swing type					
	Motor output	kW	2.0	3.1	3.5	1.9	3.2	3.8
Airflow rate	m <sup>3</sup> /min		87	84	87	123		137
Dimensions (H×W×D)	mm		870×1,100×460					
Machine weight	kg		95	98		115		
Sound level	dB(A)		51		52	58	59	60
Operation range	°CDB		-5 to 52					
Refrigerant	Type		R-410A					
	Charge	kg	4.0	4.2		5.4		
Piping connections	Liquid	mm	φ 9.5 (Flare)					
	Gas	mm	φ 15.9 (Flare)		φ 19.1 (Brazing)		φ 22.2 (Brazing)	

Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.  
During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.  
When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.
- Refrigerant charge is required.

### Outdoor unit combinations

MODEL		RSUQ4AVM4	RSUQ5AVM4	RSUQ6AVM4	RSUQ7AYM4	RSUQ8AYM4	RSUQ9AYM4	
kW		11.2	14.0	16.0	20.0	22.4	24.0	
HP		4	5	6	7	8	9	
Capacity index		100	125	150	175	200	215	
Total capacity index of connectable indoor units	Combination(%)	50%	50	62.5	75	87.5	100	107.5
		100%	100	125	150	175	200	215
		130%	130	162.5	195	227.5	260	280
Maximum number of connectable indoor units		6	8	9	11	13	14	

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

# VRV IV S SERIES

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

Cooling Only  
**4 HP—6 HP**  
 (11.2 kW) (16.0 kW)



RXMQ4AVE4  
 RXMQ5-6BVM4



## ■ Compact & lightweight design

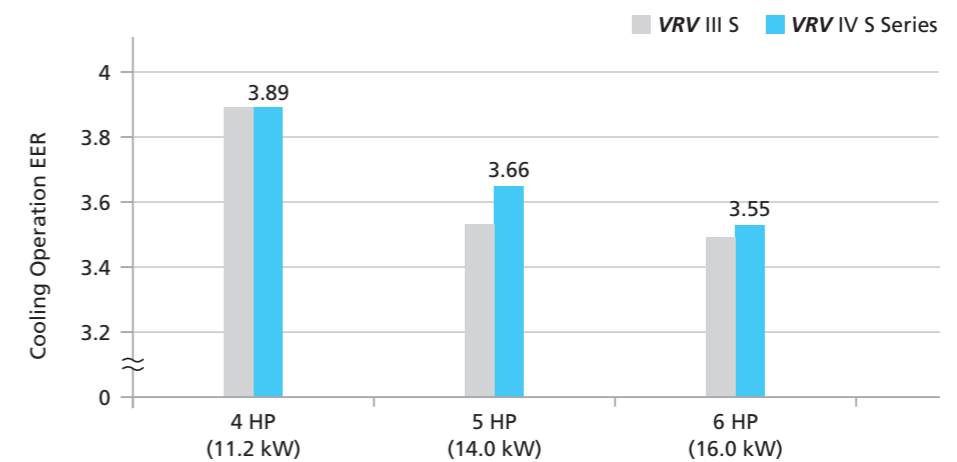
The VRV IV S series is slim and compact, with outdoor units that require minimal installation space.

	4 HP	5 HP	6 HP
Height	990 mm	990 mm	990 mm
Product Weight	71 kg	76 kg	78 kg
Footprint	0.30 m <sup>2</sup>	0.30 m <sup>2</sup>	0.30 m <sup>2</sup>

## ■ Energy saving

### High Energy Efficiency Ratio (EER)

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



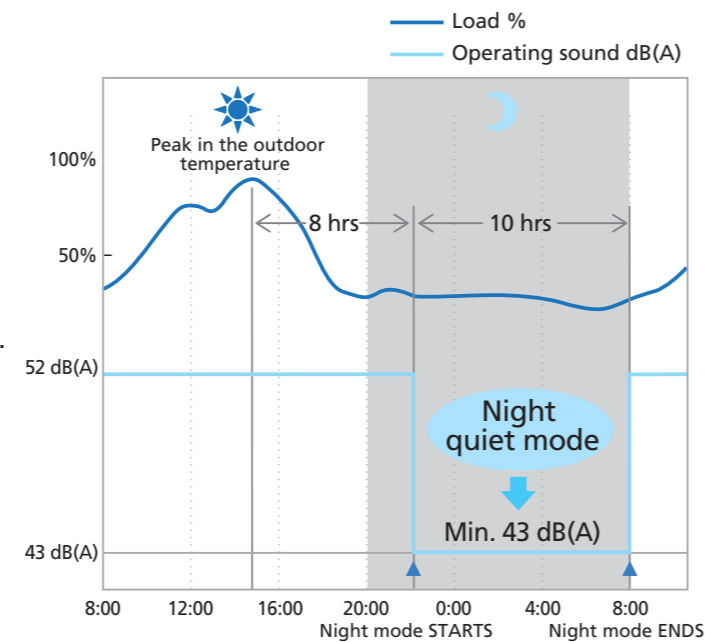
\*Cooling operation conditions: Indoor temp. of 27° CDB, 19° CWB, and outdoor temp. of 35° CDB.

# Comfort and Simplified Installation

## Quiet operation

### Nighttime quiet operation function

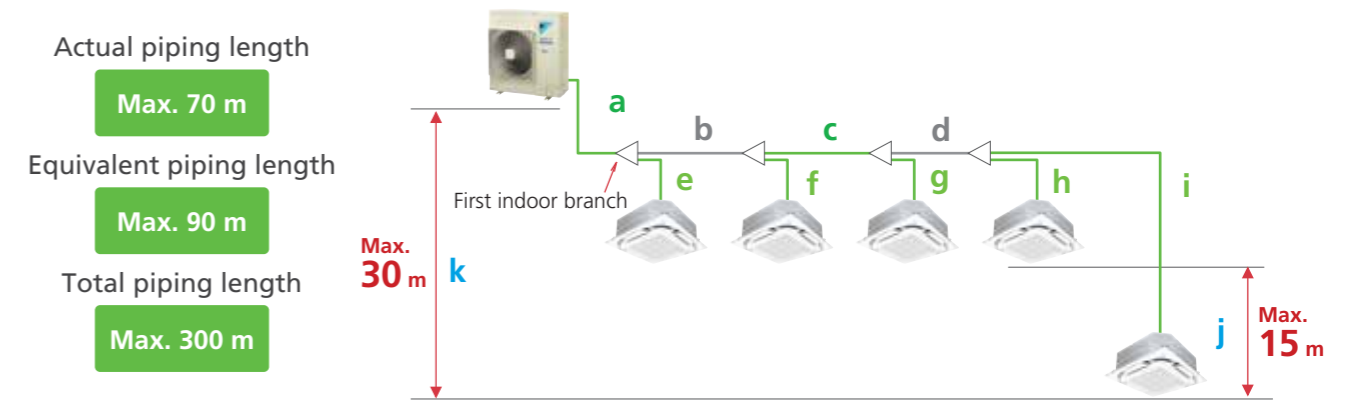
The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood. Three selectable modes are available depending on the required level. This function is suitable for use in residential areas.



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

## Makes the long piping design possible

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

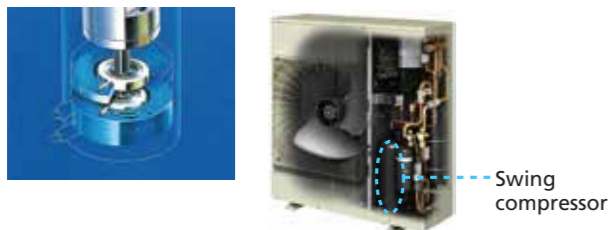


		4 HP	5,6 HP	
Max. allowable piping length	Actual refrigerant piping length (Equivalent)	a+b+c+d+i	50 m (65 m) / 70 m (90 m)	
	Total piping length	a+b+c+d+e+f+g+h+i	250 m / 300 m	
	Between the first indoor branch and the farthest indoor unit	b+c+d+i	40 m / 40 m	
Max. allowable height difference	Between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

## Technologies for efficient and quiet operation

### Swing compressor

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



### 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.

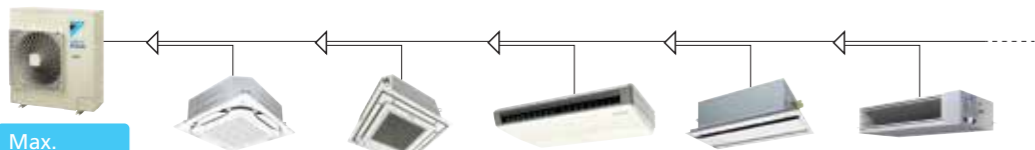


# Indoor Unit Lineup

Enhanced range of choices

New lineup

Category	Type	Model Name	Capacity Range	Capacity Index												
				20	25	32	40	50	63	80	100	125	140			
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AV4														
	Round Flow Cassette with Streamer	FXFRQ-AV4														
	Round Flow Cassette with Sensing	FXFSQ-AV4														
	Round Flow Cassette	FXFQ-AV4														
	Compact Multi Flow Cassette	FXZQ-BVM4														
	Double Flow Cassette	FXCQ-BVM4														
	Single Flow Cassette	FXKQ-MAVE4														
	Ceiling Mounted Cassette Duct	FXFDQ-AV4														
Ceiling Concealed Duct	Bedroom Duct	FXDBQ-AVM4														
	Slim Duct (Standard)	FXDQ-PDVE4 (with drain pump)														
		FXDQ-PDVT4 (without drain pump) (700 mm width type)														
		FXDQ-NDVE4 (with drain pump)														
		FXDQ-NDVT4 (without drain pump) (900/1,100 mm width type)														
	Slim Duct (Compact)	FXDQ-SPV14														
	Middle Static Pressure Duct	FXSQ-PAV4														
Middle-High Static Pressure Duct	FXMQ-PAV4															
Outdoor-Air Processing Unit	FXMQ-MFV7															
	FXMQ-BFV24															
Ceiling Suspended	FXHQ-MAV7															
	FXHQ-BVM4															
Wall Mounted	FXAQ-AVM4															
Floor Standing	Floor Standing	FXLQ-MAVE4														
	Concealed Floor Standing	FXNQ-MAVE4														
	Floor Standing Duct	FXVQ-NY14														
Clean Room Air Conditioner	FXBQ-PVE4															
	FXBPQ-PVE4															
Heat Reclaim Ventilator	VAM-HVE		Airflow rate 150-2000 m³/h													



# Outdoor Units

## VRV IV S Series

### Specifications

MODEL		RXMQ4AVE4	RXMQ5BVM4	RXMQ6BVM4
Power supply		1-phase, 220 V, 50 Hz		
Cooling capacity	Btu/h	38,200	47,800	54,600
	kW	11.2	14.0	16.0
Power consumption	kW	2.88	3.83	4.51
Capacity control	%	24 to 100		
Casing colour		Ivory white (5Y7.5/1)		
Compressor	Type	Hermetically sealed swing type		
	Motor output	kW	1.92	3.2
Airflow rate	m³/min	76	81	80
Dimensions (HxWxD)	mm	990x940x320		
Machine weight	kg	71	76	78
Sound level	dB(A)	52	53	55
Operation range	°CDB	-5 to 46		
Refrigerant	Type	R-410A		
	Charge	kg	2.9	3.4
Piping connections	Liquid	φ 9.5 (Flare)		
	Gas	φ 15.9 (Flare)		φ 19.1 (Brazing)

Note: Specifications are based on the following conditions:  
 • Cooling: Indoor temp.: 27° CDB, 19° CVB, Outdoor temp.: 35° CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.  
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.  
 When there is concern for noise in the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.  
 • Refrigerant charge is required.

### Outdoor unit combinations

MODEL		RXMQ4AVE4	RXMQ5BVM4	RXMQ6BVM4
kW		11.2	14.0	16.0
HP		4	5	6
Capacity index		100	125	150
Total capacity index of connectable indoor units	Combination (%)	50%	62.5	75
		100%	100	125
		130%	130	162.5
Maximum number of connectable indoor units		6	8	9

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

# VRV IV Q SERIES

For Quick & High Quality Replacement Use

Cooling Only  
**6 HP—48 HP**  
(16 kW) (135 kW)

## 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

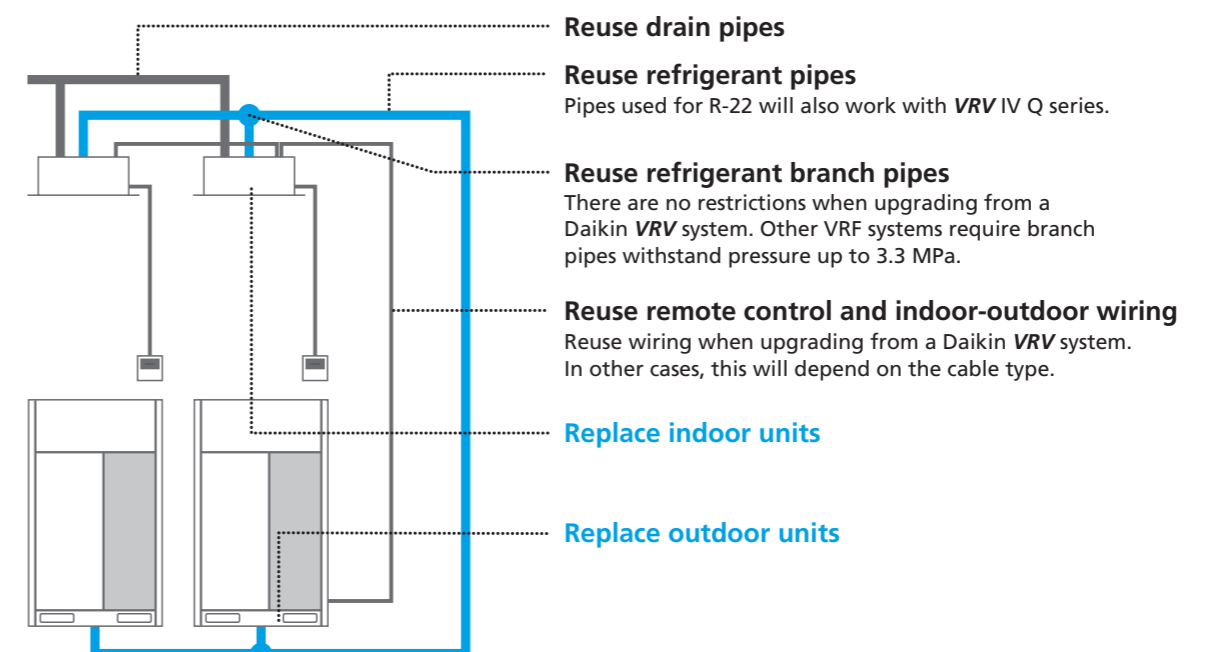
## Quick, quality and economical replacement

### ■ 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



#### Standard Type

Single outdoor units  
**RQQ6-16TY14(E)**

Double outdoor units  
**RQQ18-32TNY14(E)**

Triple outdoor units  
**RQQ34-48TNY14(E)**

#### Space Saving Type

Single outdoor units  
**RQQ18-20TY14(E)**

Double outdoor units  
**RQQ30-40TSY14(E)**

Triple outdoor units  
**RQQ42-48TSY14(E)**

\* (E) : anti-corrosion model

# Benefits of System Replacement

## Automatic

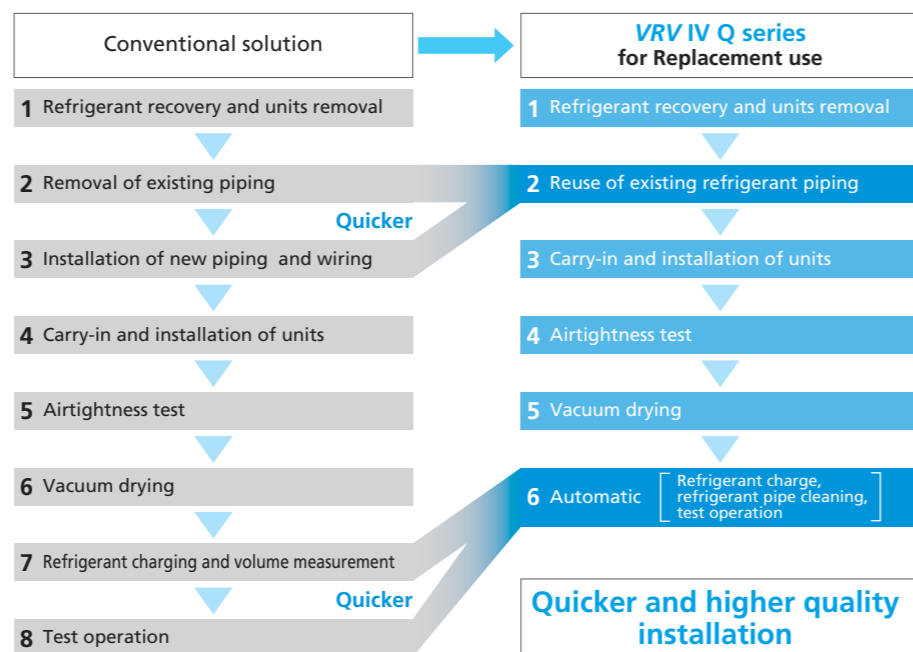
Refrigerant charging, cleaning and test operation done with just a single switch.

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.

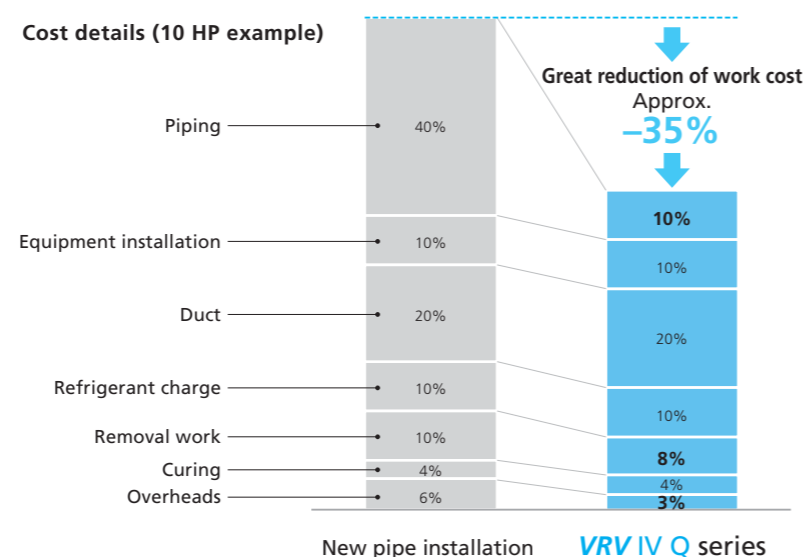
## Time saving

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



## Cost saving

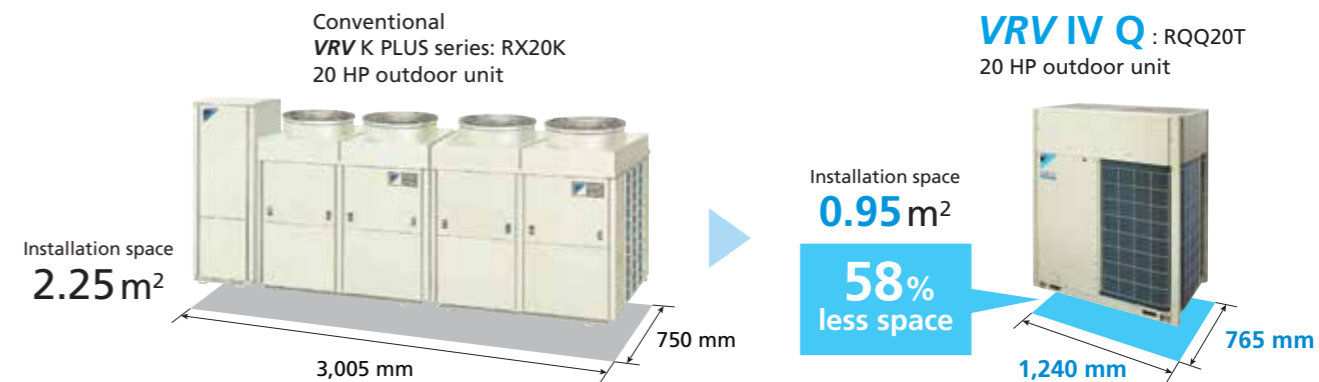
By the reuse of existing piping, 35% of cost down can be realized compared to installing new pipes.



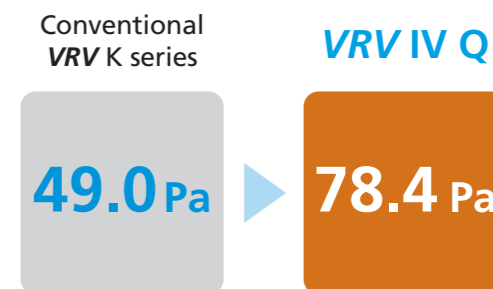
## Design flexibility

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



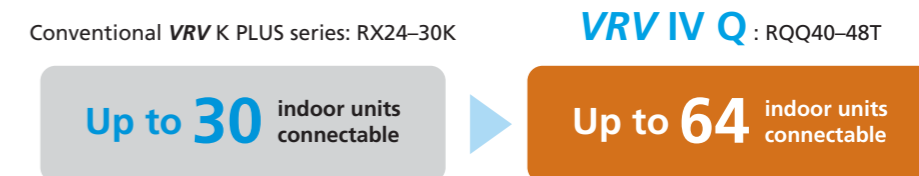
## High external static pressure 78.4 Pa



## System flexibility

An increased number of connectable indoor units in a single system

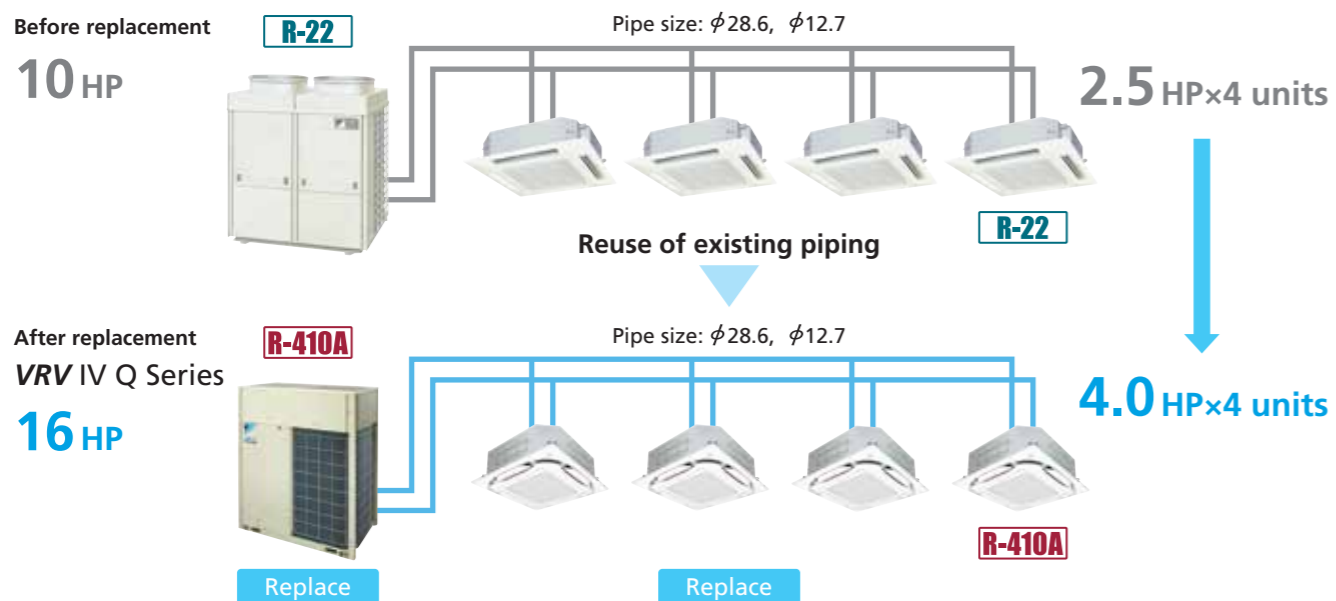
More indoor units can be connected in a single system, enabling consolidation of existing piping!



# Benefits of System Replacement

## Enables increased capacity

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

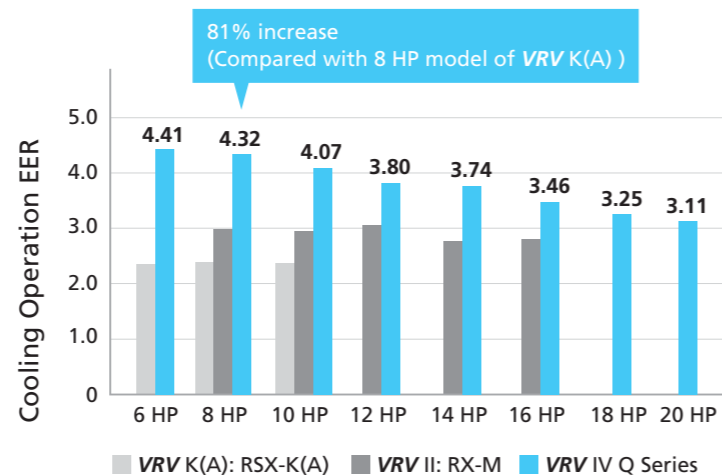


## Energy saving

### Higher Energy Efficiency Ratio (EER)

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

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



### VRT Control for optimal annual efficiency

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

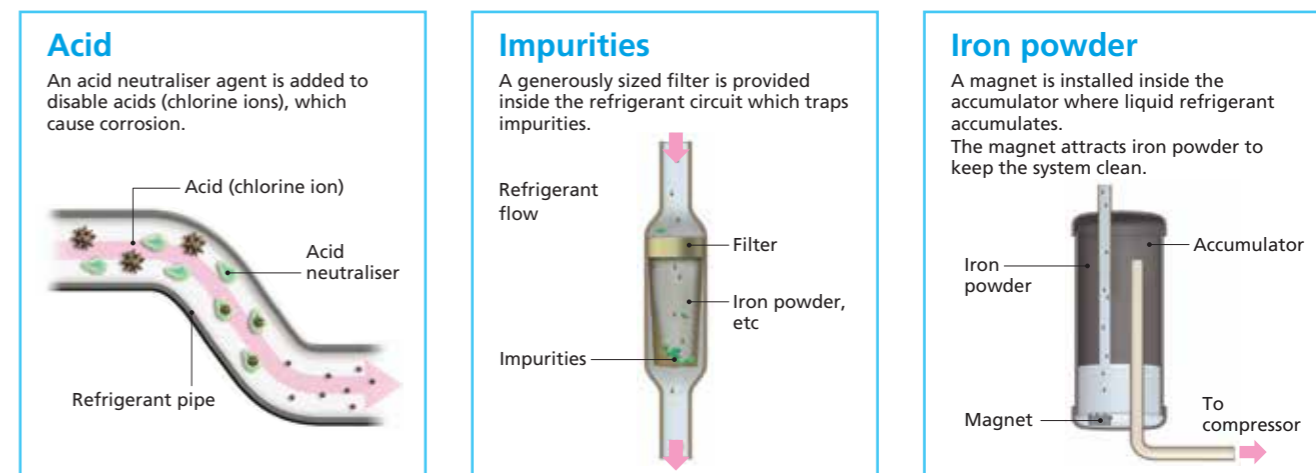


## New technology that enables use of existing piping

### New tested contamination collection method

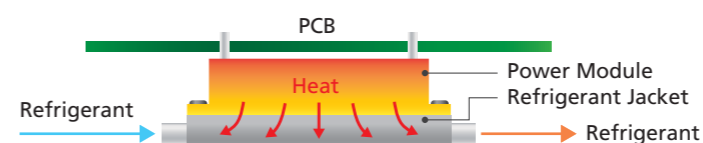
A new method collects contamination from existing piping, eliminating compressors and electric valves malfunction.

VRV IV Q series only



## 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

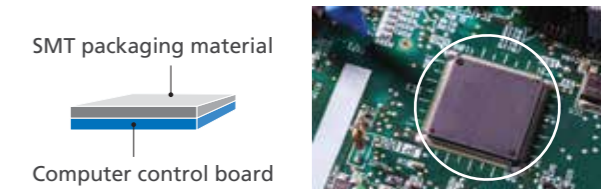
- Suitability for high ambient temperatures
- Miniaturization of electronic components

### SMT\* packaging technology

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

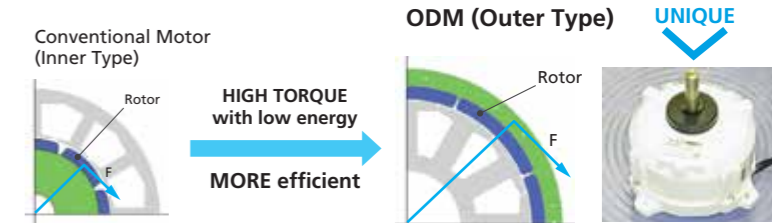
\*SMT: Surface mounted technology

Computer control board surface adopting SMT packaging technology



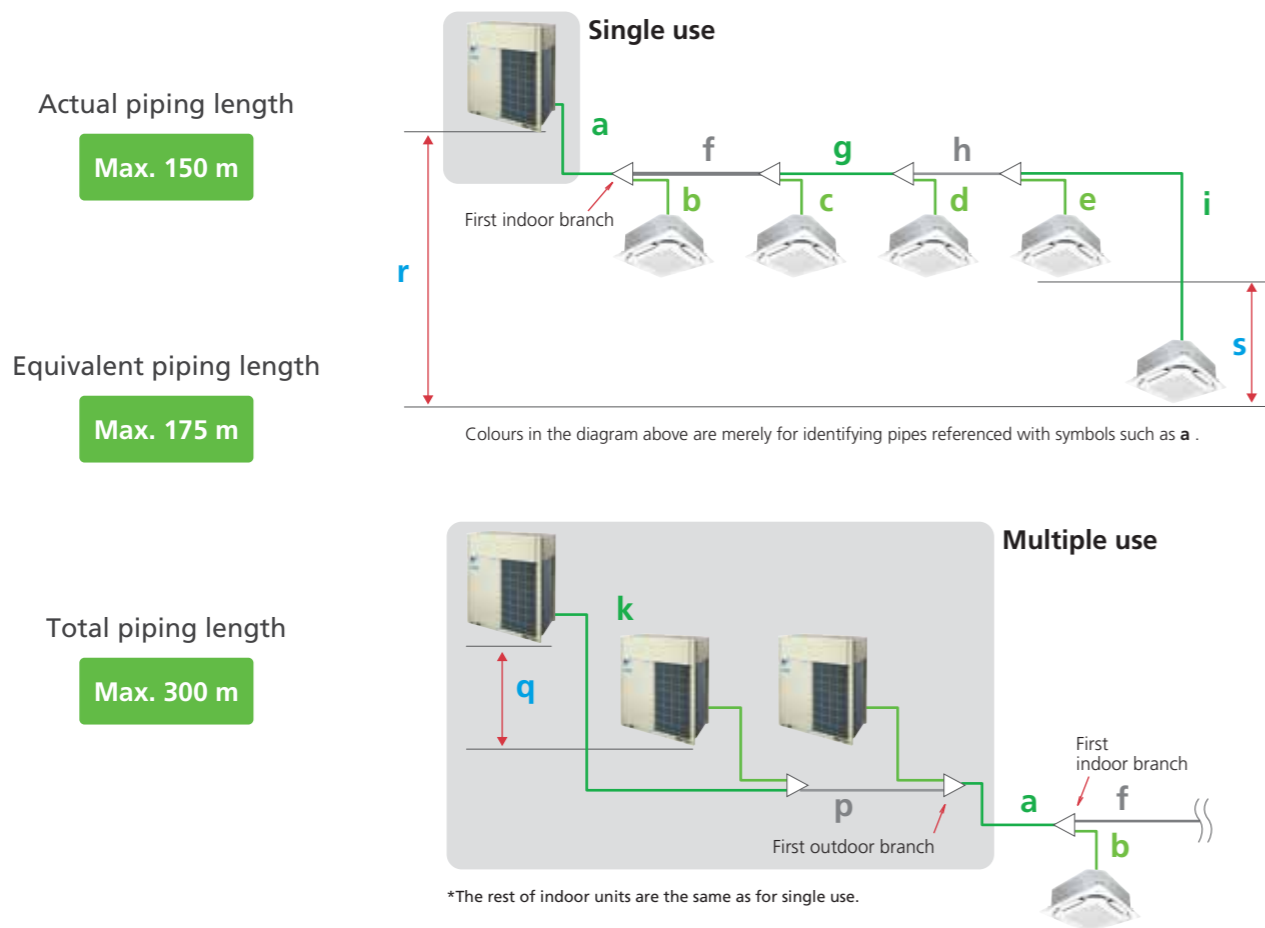
### Outer Rotor DC Motor (ODM)

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



Actual piping length

Max. 150 m

Equivalent piping length

Max. 175 m

Total piping length

Max. 300 m

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

\*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)
	Total piping length	300 m
	Between the first indoor branch and the farthest indoor unit	40 m
	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)

	Height difference	Example
Maximum allowable height difference	Between the outdoor units (Multiple use)	5 m
	Between the indoor units	15 m
	Between the outdoor units	If the outdoor unit is above.
	Between the outdoor units and the indoor units	If the outdoor unit is below.

## Reusability of existing piping for VRV IV Q series

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

● : Piping size of conventional R-22 model  
 ○ : Piping size of conventional R-410A model  
 S : Standard piping size of VRV IV Q series  
 ● : Possible  
 ○ : Standard piping size of VRV IV Q series. However, when equivalent piping length between outdoor unit and indoor unit is 90 m or more, size of main piping must be increased.  
 X : Not possible

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

# Outdoor Unit Lineup

## VRV IV Q Series

### Enhanced lineup to 2 types

#### Lineup

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

### Outdoor unit combinations

#### Standard Type

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

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

#### Space Saving Type

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

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

# Indoor Unit Lineup

### Wide variety of indoor units

● New lineup

Category	Type	Model Name	Capacity Range		20	25	32	40	50	63	80	100	125	140	200	250	400	500	
			Capacity Range	Capacity Index	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP	
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	<b>FXFTQ-AV4</b>	●	●	●	●	●	●	●	●	●	●	●	●					
	Round Flow Cassette with Streamer	<b>FXFRQ-AV4</b>	●	●	●	●	●	●	●	●	●	●	●	●					
	Round Flow Cassette with Sensing	FXFSQ-AV4	●	●	●	●	●	●	●	●	●	●	●	●					
	Round Flow Cassette	FXFQ-AV4	●	●	●	●	●	●	●	●	●	●	●	●					
	Compact Multi Flow Cassette	<b>FXZQ-BVM4</b>	●	●	●	●	●	●	●	●	●	●	●	●					
	Double Flow Cassette	<b>FXCQ-BVM4</b>	●	●	●	●	●	●	●	●	●	●	●	●	●				
	Single Flow Cassette	FXKQ-MAVE4	●	●	●	●	●	●	●	●	●	●	●	●					
	Ceiling Mounted Cassette Duct	FXFDQ-AV4								●	●	●	●	●					
Ceiling Concealed Duct	Bedroom Duct	FXDBQ-AVM4					●	●	●	●	●	●	●						
	Slim Duct (Standard)	FXDQ-PDVE4 (with drain pump)	●	●	●	●	●	●	●	●	●	●	●	●					
		FXDQ-PDVT4 (without drain pump) (700 mm width type)	●	●	●	●	●	●	●	●	●	●	●	●					
		FXDQ-NDVE4 (with drain pump)								●	●	●	●	●					
		FXDQ-NDVT4 (without drain pump) (900/1,100 mm width type)								●	●	●	●	●					
	Slim Duct (Compact)	FXDQ-SPV14	●	●	●	●	●	●	●	●	●	●	●	●					
	Middle Static Pressure Duct	FXSQ-PAV4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Middle-High Static Pressure Duct	FXMQ-PAV4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	High Static Pressure Duct	FXMQ-PVM															●	●	
	Outdoor-Air Processing Unit	FXMQ-MFV7															●	●	
	<b>FXMQ-BFV24</b>															●	●		
Ceiling Suspended	Ceiling Suspended	FXHQ-MAV7																	
		<b>FXHQ-BVM4</b>															●	●	
Wall Mounted	Wall Mounted	FXAQ-AVM4	●	●	●	●	●	●	●	●	●	●	●	●					
	Floor Standing	FXLQ-MAVE4	●	●	●	●	●	●	●	●	●	●	●	●					
	Concealed Floor Standing	FXNQ-MAVE4	●	●	●	●	●	●	●	●	●	●	●	●					
Floor Standing Duct	FXVQ-NY14															●	●		
Heat Reclaim Ventilator with DX-Coil	VKM-GCVE																	Airflow rate 500-950 m³/h	
Heat Reclaim Ventilator	VAM-HVE																		Airflow rate 150-2000 m³/h

# Outdoor Units

## VRV IV Q Series

### Specifications

#### Standard Type

MODEL		RQQ6TY14(E)	RQQ8TY14(E)	RQQ10TY14(E)	RQQ12TY14(E)	RQQ14TY14(E)	RQQ16TY14(E)	RQQ18TY14(E)	RQQ20TY14(E)	RQQ22TY14(E)	RQQ24TY14(E)	RQQ26TY14(E)	RQQ28TY14(E)	RQQ30TY14(E)	RQQ32TY14(E)
Combination units		—	—	—	—	—	—	RQQ8TY14(E)	RQQ8TY14(E)	RQQ10TY14(E)	RQQ12TY14(E)	RQQ12TY14(E)	RQQ12TY14(E)	RQQ14TY14(E)	RQQ14TY14(E)
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz						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	172,000	191,000	210,000	229,000	251,000	268,000	290,000	307,000
	kW	16.0	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5	78.5	85.0	90.0
Power consumption	kW	3.63	5.18	6.88	8.82	10.7	13.0	12.1	14.0	15.7	17.6	19.5	21.8	23.7	26.1
Capacity control	%	20-100		16-100	15-100	11-100	10-100	8-100			6-100			5-100	
Casing colour		Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)							
Compressor	Type	Hermetically Sealed Scroll Type						Hermetically Sealed Scroll Type							
	Motor output	2.4X1	3.4X1	4.1X1	5.2X1	(2.9X1)+(3.3X1)	(3.6X1)+(3.7X1)	(3.4X1)+(4.1X1)	(3.4X1)+(5.2X1)	(4.1X1)+(5.2X1)	(5.2X1)+(5.2X1)	(5.2X1)+(2.9X1)+(3.3X1)	(5.2X1)+(3.6X1)+(3.7X1)	(2.9X1)+(3.3X1)+(3.6X1)+(3.7X1)	(2.9X1)+(3.3X1)+(4.4X1)+(4.0X1)
Airflow rate	m <sup>3</sup> /min	119	157	165	178	233	233	157+165	157+178	165+178	178+178	178+233		233+233	
Dimensions (HxWxD)	mm	1,657x930x765				1,657x1,240x765		(1,657x930x765)+(1,657x930x765)				(1,657x930x765)+(1,657x1,240x765)		(1,657x1,240x765)+(1,657x1,240x765)	
Machine weight	kg	185		195		285		185+195		195+195		195+285		285+285	
Sound level	dB(A)	55	56	57	59	60	61	60	61		62	63		64	
Operation range	°CDB	-5 to 49						-5 to 49							
Refrigerant	Type	R-410A						R-410A							
	Charge	5.9		6.0	6.3	10.3	10.4	5.9+6.0	5.9+6.3	6.0+6.3	6.3+6.3	6.3+10.3	6.3+10.4	10.3+10.4	10.3+10.5
Piping connections	Liquid	φ 9.5(Brazing)			φ 12.7(Brazing)			φ 15.9(Brazing)				φ 19.1(Brazing)			
	Gas	φ 19.1(Brazing)		φ 22.2(Brazing)		φ 28.6(Brazing)		φ 28.6(Brazing)			φ 34.9(Brazing)				

#### Space Saving Type

MODEL		RQQ34TNY14(E)	RQQ36TNY14(E)	RQQ38TNY14(E)	RQQ40TNY14(E)	RQQ42TNY14(E)	RQQ44TNY14(E)	RQQ46TNY14(E)	RQQ48TNY14(E)	
Combination units		RQQ10TY14(E)	RQQ12TY14(E)	RQQ8TY14(E)	RQQ12TY14(E)	RQQ12TY14(E)	RQQ12TY14(E)	RQQ14TY14(E)	RQQ14TY14(E)	
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz						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	444,000	461,000	
	kW	95.0	101	106	112	119	124	130	135	
Power consumption	kW	24.5	26.5	29.4	30.6	32.5	34.8	36.8	39.1	
Capacity control	%	5-100		4-100				3-100		
Casing colour		Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)		
Compressor	Type	Hermetically Sealed Scroll Type						Hermetically Sealed Scroll Type		
	Motor output	(4.1X1)+(5.2X1)+(5.2X1)	(5.2X1)+(5.2X1)+(5.2X1)	(3.4X1)+(5.2X1)+(4.4X1)+(4.0X1)	(5.2X1)+(5.2X1)+(3.6X1)+(3.7X1)	(5.2X1)+(2.9X1)+(3.3X1)+(3.6X1)+(3.7X1)	(5.2X1)+(3.6X1)+(3.7X1)	(2.9X1)+(3.3X1)+(2.9X1)+(3.3X1)+(4.4X1)+(4.0X1)	(2.9X1)+(3.3X1)+(3.6X1)+(3.7X1)+(4.4X1)+(4.0X1)	
Airflow rate	m <sup>3</sup> /min	165+178+178	178+178+178	157+178+233	178+178+233	178+233+233			233+233+233	
Dimensions (HxWxD)	mm	(1,657x930x765)+(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)		(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)			(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)	
Machine weight	kg	195+195+195	195+195+195	185+195+285	195+195+285	195+285+285			285+285+285	
Sound level	dB(A)	63	64		65				66	
Operation range	°CDB	-5 to 49								
Refrigerant	Type	R-410A								
	Charge	6.0+6.3+6.3	6.3+6.3+6.3	5.9+6.3+10.5	6.3+6.3+10.4	6.3+10.3+10.4	6.3+10.4+10.4	10.3+10.3+10.5	10.3+10.4+10.5	
Piping connections	Liquid	φ 19.1(Brazing)								
	Gas	φ 34.9(Brazing)	φ 41.3(Brazing)						φ 41.3(Brazing)	

MODEL		RQQ18TY14(E)	RQQ20TY14(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
Power consumption	kW	15.4	18.0
Capacity control	%	10-100	8-100
Casing colour		Ivory white (5Y7.5/1)	
Compressor	Type	Hermetically Sealed Scroll Type	
	Motor output	(4.4X1)+(4.0X1)	(4.6X1)+(5.5X1)
Airflow rate	m <sup>3</sup> /min	233	268
Dimensions (HxWxD)	mm	1,657x1,240x765	
Machine weight	kg	285	320
Sound level	dB(A)	62	65
Operation range	°CDB	-5 to 49	
Refrigerant	Type	R-410A	
	Charge	10.5	11.8
Piping connections	Liquid	φ 15.9(Brazing)	
	Gas	φ 28.6(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.  
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.  
 When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

# Outdoor Units

## VRV IV Q Series

### Specifications

#### Space Saving Type

MODEL			RQQ30TSY14(E)	RQQ32TSY14(E)	RQQ34TSY14(E)	RQQ36TSY14(E)	RQQ38TSY14(E)	RQQ40TSY14(E)	RQQ42TSY14(E)	RQQ44TSY14(E)	RQQ46TSY14(E)	RQQ48TSY14(E)
Combination units	RQQ12TY14(E)		RQQ12TY14(E)	RQQ12TY14(E)	RQQ16TY14(E)	RQQ18TY14(E)	RQQ18TY14(E)	RQQ20TY14(E)	RQQ12TY14(E)	RQQ12TY14(E)	RQQ12TY14(E)	RQQ12TY14(E)
	RQQ18TY14(E)		RQQ20TY14(E)	RQQ20TY14(E)	RQQ18TY14(E)	RQQ18TY14(E)	RQQ20TY14(E)	RQQ20TY14(E)	RQQ12TY14(E)	RQQ12TY14(E)	RQQ16TY14(E)	RQQ18TY14(E)
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz				3-phase 4-wire system, 380-415 V, 50 Hz					
Cooling capacity	Btu/h		285,000	305,000	324,000	341,000	362,000	382,000	399,000	420,000	440,000	457,000
	kW		83.5	89.5	95.0	100	106	112	117	123	129	134
Power consumption	kW		24.2	26.8	28.4	30.8	33.4	36.0	33.0	35.6	37.2	39.6
Capacity control	%		6-100		5-100				4-100			
Casing colour			Ivory white (5Y7.5/1)				Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically Sealed Scroll 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)	(4.4×1)+(4.0×1)+(4.6×1)+(5.5×1)	(4.6×1)+(5.5×1)+(4.6×1)+(5.5×1)	(5.2×1)+(5.2×1)+(4.4×1)+(4.0×1)	(5.2×1)+(5.2×1)+(4.6×1)+(5.5×1)	(5.2×1)+(3.6×1)+(3.7×1)+(4.4×1)+(4.0×1)	(5.2×1)+(4.4×1)+(4.0×1)+(4.4×1)+(4.0×1)
Airflow rate	m³/min		178+233	178+268	233+233		233+268	268+268	178+178+233	178+178+268	178+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)		(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)	
Machine weight	kg		195+285	195+320	285+285		285+320	320+320	195+195+285	195+195+320	195+285+285	
Sound level	dB(A)		64	66	65		67	68	65	67	66	
Operation range	°CDB		-5 to 49				-5 to 49					
Refrigerant	Type		R-410A				R-410A					
	Charge	kg	6.3+10.5	6.3+11.8	10.4+10.5	10.5+10.5	10.5+11.8	11.8+11.8	6.3+6.3+10.5	6.3+6.3+11.8	6.3+10.4+10.5	6.3+10.5+10.5
Piping connections	Liquid	mm	φ 19.1(Brazing)				φ 19.1(Brazing)					
	Gas	mm	φ 34.9(Brazing)				φ 41.3(Brazing)		φ 41.3(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;  
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.

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



# VRV IV W SERIES

Water Cooled System Suitable for Tall Multi-Storied Buildings

Cooling Only  
**6 HP—36 HP**  
 (16 kW) (101 kW)

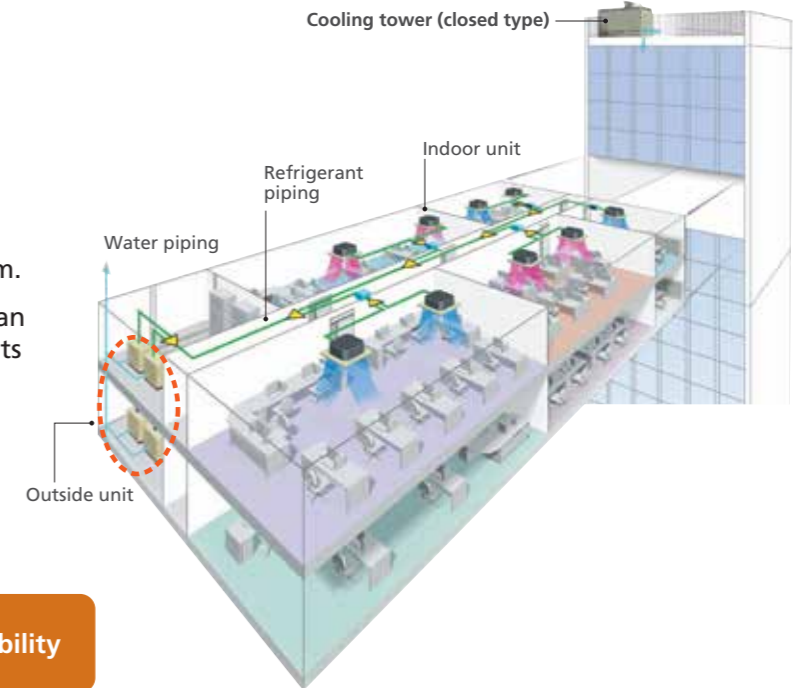


Single outside units  
**RWEYQ6-12TY14**

Double outside units  
**RWEYQ14-24TY14**

Triple outside units  
**RWEYQ26-36TY14**

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



High installation flexibility

Design flexibility

## ■ Design flexibility

### High-rise buildings

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

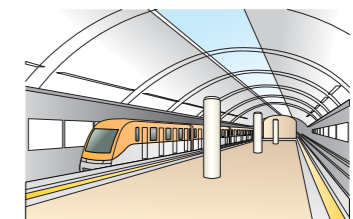
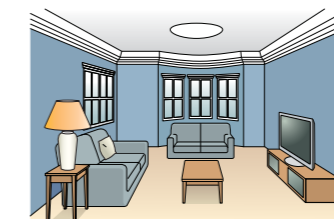
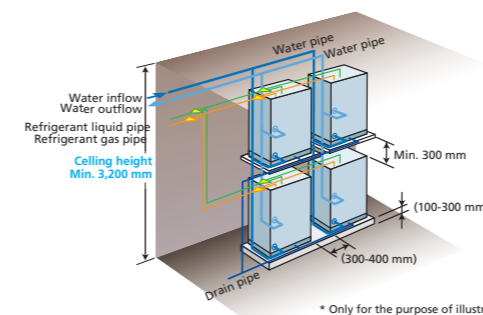
### Condominiums and detached houses

We offer an extensive lineup of small capacity outside units.

### Underground shopping malls and subway

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

No balcony required



\* Only for the purpose of illustration.

# Water Cooled VRV IV as a Retrofit Solution

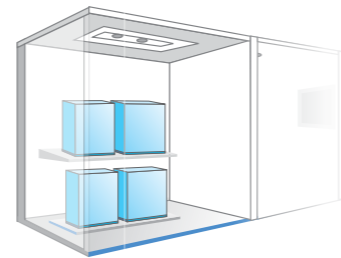
A flexible system convenient for expansion/renovation

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

Indoor installation solves the puzzle of proper placement of outdoor units

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

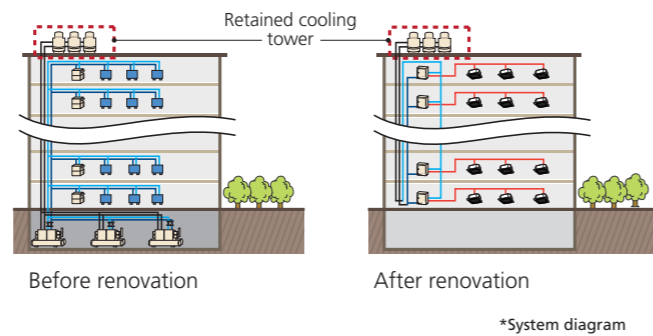
### Easy Installation



## Part of the old system can be retained

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

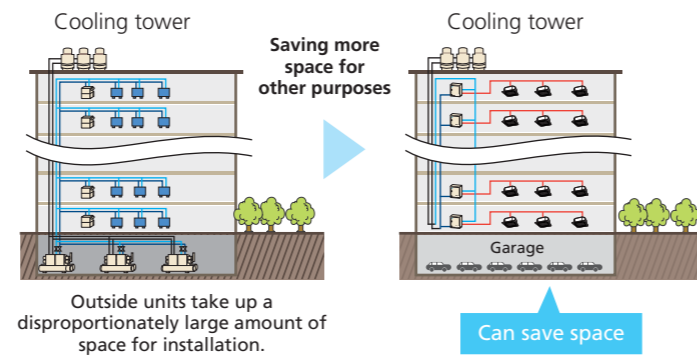
### Cost Saving



## The compact outside units facilitate the renovation process

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

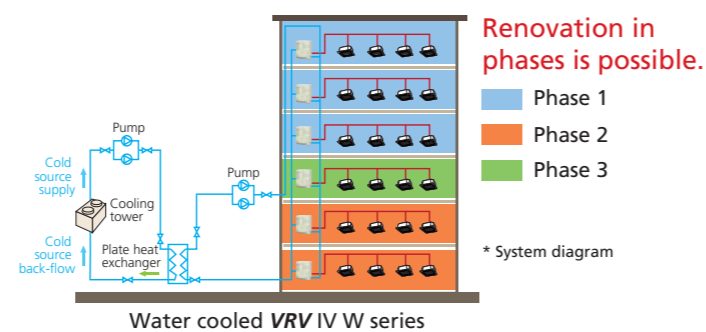
### Space Saving



## Floor by floor renovation without disturbing other tenants

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

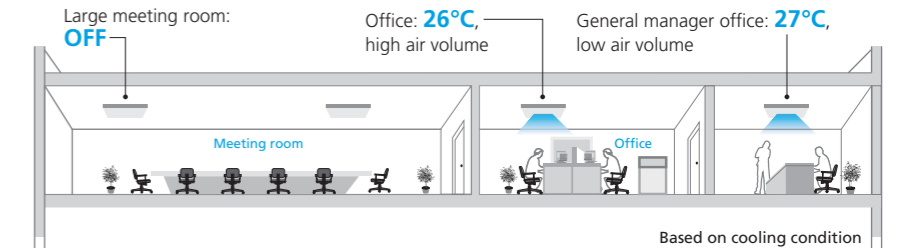
### Flexible Renovation



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

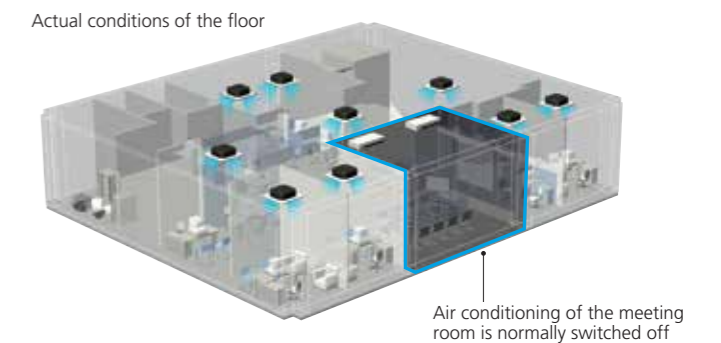
Independent control provides greater comfort and convenience.

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.

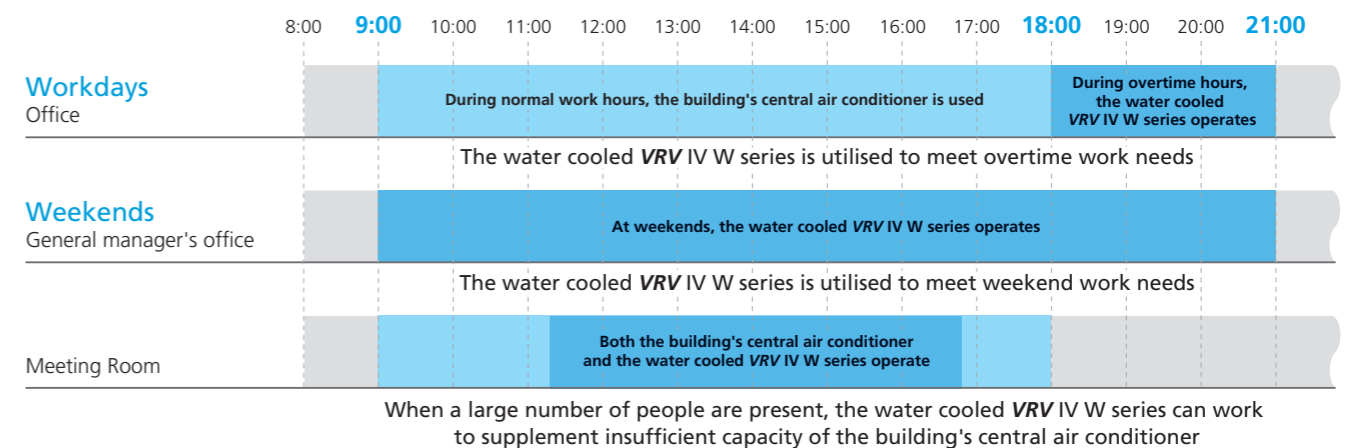


## Flexibly satisfies conditions for working overtime and times of insufficient load

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



# Easy Installation & Energy Saving

## Compact and lightweight

**VRV IV W SERIES**



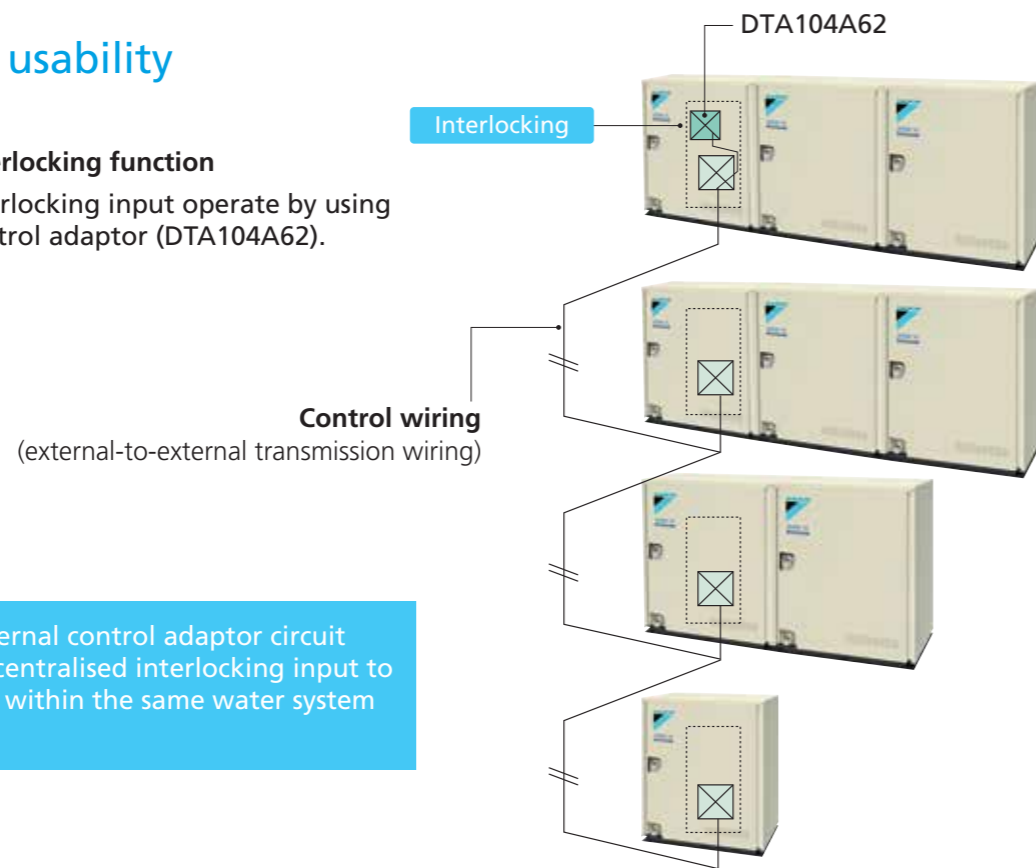
Footprint : **0.43 m<sup>2</sup>**

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

## Enhanced usability

### Centralised interlocking function

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



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

## Enhanced lineup

**VRV IV W SERIES**

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



6 HP, 8 HP, 10 HP, 12 HP

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



RWEYQ6TY14  
RWEYQ8TY14



RWEYQ10TY14  
RWEYQ12TY14  
RWEYQ14TY14  
RWEYQ16TY14  
RWEYQ18TY14  
RWEYQ20TY14  
RWEYQ22TY14  
RWEYQ24TY14

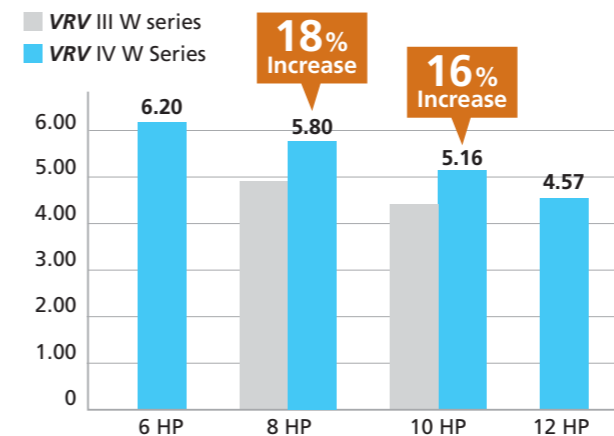


RWEYQ26TY14  
RWEYQ28TY14  
RWEYQ30TY14  
RWEYQ32TY14  
RWEYQ34TY14  
RWEYQ36TY14

## Energy saving

### Higher Energy Efficiency Ratio (EER)

Cooling Operation EER



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

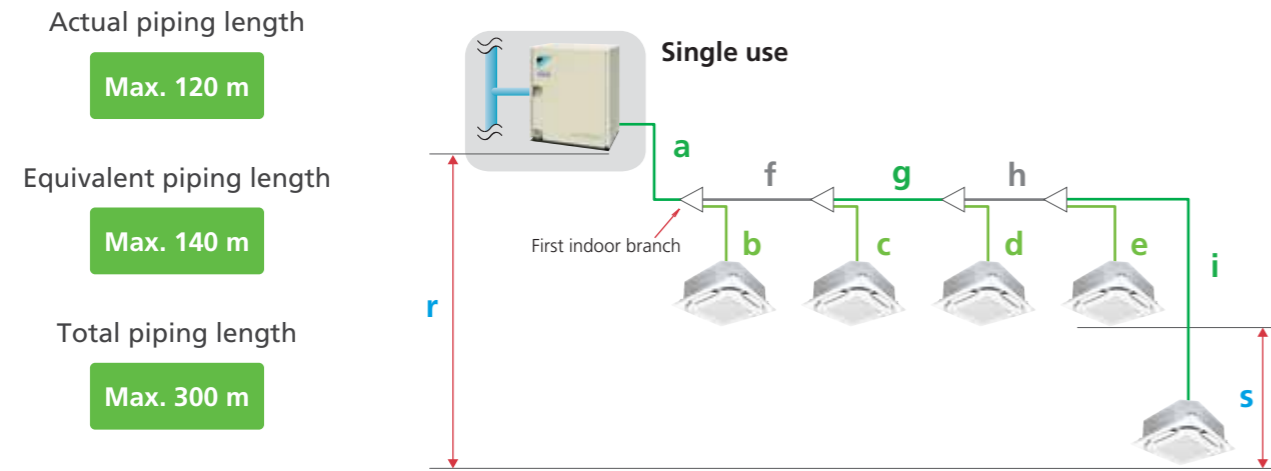
### VRT control for optimal annual efficiency

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



# Flexible System Design

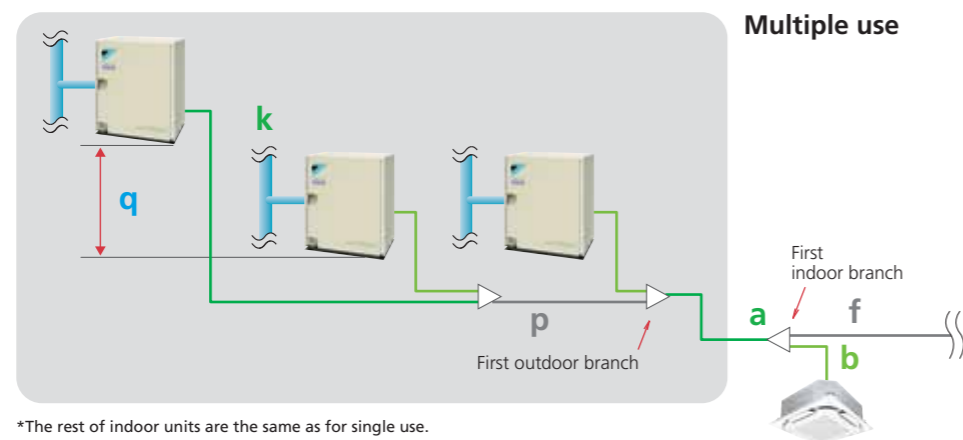
## Long piping length



\*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	—
Max. allowable height difference	Between the first outside branch and the last outside unit	10 m	k+p	13 m
	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. If the outside unit is below.	50 m 40 m	r r

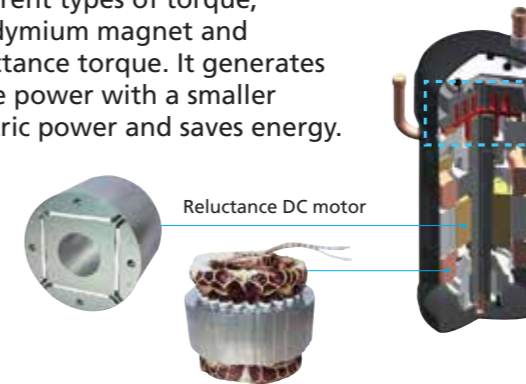
\*1 No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. The VRV IV W series is easy to extend to 90 m by lessening the conditions from conventional VRV III W models. Be sure to refer to the Engineering Data Book for details of these conditions and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



# Advanced Technologies

## 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.

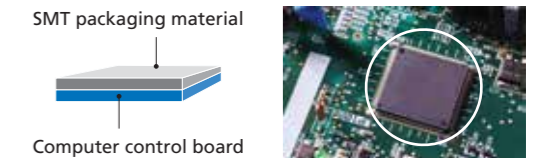


## SMT\* packaging technology

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

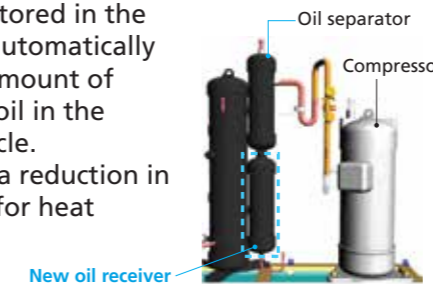
\*SMT: Surface mounted technology

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.



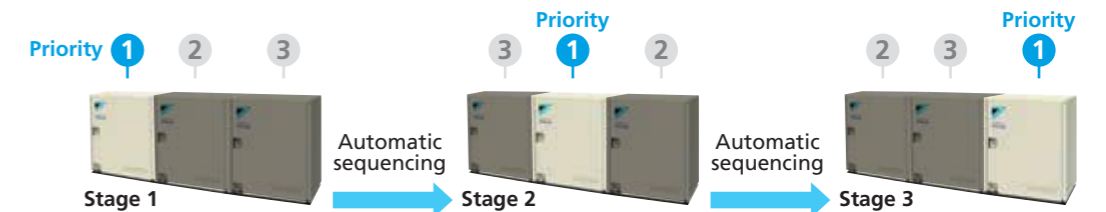
## Function of information display by luminous digital tube

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

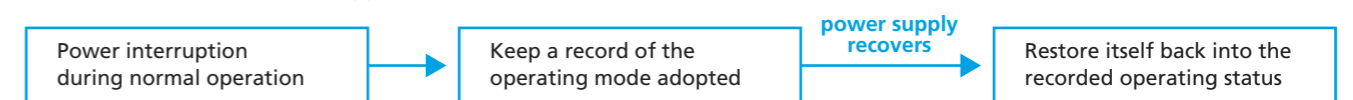


Displays system operation information directly

## Automatic sequencing operation



## Auto-restart technology



## Refrigerant pressure detection technology

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



# Outside Units

## VRV IV W Series

### Specifications

MODEL		RWEYQ6TY14	RWEYQ8TY14	RWEYQ10TY14	RWEYQ12TY14	RWEYQ14TY14	RWEYQ16TY14	RWEYQ18TY14	RWEYQ20TY14	RWEYQ22TY14	RWEYQ24TY14	
Combination units		-	-	-	-	RWEYQ6TY14	RWEYQ8TY14	RWEYQ8TY14	RWEYQ10TY14	RWEYQ10TY14	RWEYQ12TY14	
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz				3-phase 4-wire system, 380-415 V, 50 Hz						
Cooling capacity	Btu/h	54,600	76,400	95,500	114,000	131,000	153,000	172,000	191,000	210,000	229,000	
	kW	16.0	22.4	28.0	33.5	38.4	44.8	50.4	56.0	61.5	67.0	
Power consumption	kW	2.58	3.86	5.43	7.33	6.44	7.72	9.29	10.9	12.8	14.7	
Casing colour		Ivory white (5Y7.5/1)				Ivory white (5Y7.5/1)						
Dimensions (H x W x D)		1,000 x 780 x 550				(1,000 x 780 x 550) x 2						
Compressor	Type	Hermetically sealed scroll type				Hermetically sealed scroll type						
	Motor output	kW	1.9	2.8	3.7	4.7	1.9 + 2.8	2.8 x 2	2.8 + 3.7	3.7 x 2	3.7 + 4.7	4.7 x 2
Refrigerant piping connections	Liquid	φ 9.5 (Flare)				φ 12.7 (Flare)		φ 15.9 (Flare)		φ 19.1 (Flare)		
	Suction gas *1	φ 19.1 (Brazeing)				φ 22.2 (Brazeing)		φ 28.6 (Brazeing)		φ 28.6 (Brazeing)		
	High and low pressure gas	φ 19.1 <sup>2</sup> (Brazeing)				φ 22.2 <sup>2</sup> (Brazeing)		φ 28.6 <sup>2</sup> (Brazeing)		φ 28.6 <sup>2</sup> (Brazeing)		
Water piping connections	Water inlet	PT1 1/4B internal thread				(PT1 1/4B) x 2 internal thread						
	Water outlet	PT1 1/4B internal thread				(PT1 1/4B) x 2 internal thread						
	Drain outlet	PS1/2B internal thread				(PS1/2B) x 2 internal thread						
Machine weight (Operating weight)	kg	146 (148)		147 (149)		146 x 2 (148 x 2)		146 + 147 (148 + 149)		147 x 2 (149 x 2)		
Sound level	dB(A)	49	50	51	53	53		54		55	56	
Operation range (Inlet water temp.)	°C	10 to 45				10 to 45						
Capacity control	%	23-100		19-100		23-100		20-100		19-100		
Refrigerant	Type	R-410A				R-410A						
	Charge	kg	3.5		4.2		3.5 + 3.5		3.5 + 4.2		4.2 + 4.2	

MODEL		RWEYQ26TY14	RWEYQ28TY14	RWEYQ30TY14	RWEYQ32TY14	RWEYQ34TY14	RWEYQ36TY14
Combination units		RWEYQ8TY14	RWEYQ8TY14	RWEYQ10TY14	RWEYQ10TY14	RWEYQ10TY14	RWEYQ12TY14
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz			3-phase 4-wire system, 380-415 V, 50 Hz		
Cooling capacity	Btu/h	248,000	268,000	287,000	305,000	324,000	345,000
	kW	72.8	78.4	84.0	89.5	95.0	101
Power consumption	kW	13.2	14.7	16.3	18.2	20.1	22.0
Casing colour		Ivory white (5Y7.5/1)			Ivory white (5Y7.5/1)		
Dimensions (H x W x D)		(1,000 x 780 x 550) x 3			(1,000 x 780 x 550) x 3		
Compressor	Type	Hermetically sealed scroll type			Hermetically sealed scroll type		
	Motor output	kW	2.8 x 2 + 3.7	2.8 + 3.7 x 2	3.7 x 3	3.7 x 2 + 4.7	3.7 + 4.7 x 2
Refrigerant piping connections	Liquid	φ 19.1 (Flare)			φ 19.1 (Flare)		
	Suction gas *1	φ 34.9 (Brazeing)			φ 34.9 (Brazeing)		
	High and low pressure gas	φ 34.9 <sup>2</sup> (Brazeing)			φ 34.9 <sup>2</sup> (Brazeing)		
Water piping connections	Water inlet	(PT1 1/4B) x 3 internal thread			(PT1 1/4B) x 3 internal thread		
	Water outlet	(PT1 1/4B) x 3 internal thread			(PT1 1/4B) x 3 internal thread		
	Drain outlet	(PS1/2B) x 3 internal thread			(PS1/2B) x 3 internal thread		
Machine weight (Operating weight)	kg	146 x 2 + 147 (148 x 2 + 149)	146 + 147 x 2 (148 + 149 x 2)	147 x 3 (149 x 3)	147 x 3 (149 x 3)		
Sound level	dB(A)	55		56	57		58
Operation range (Inlet water temp.)	°C	10 to 45			10 to 45		
Capacity control	%	21-100	20-100	19-100	19-100		
Refrigerant	Type	R-410A			R-410A		
	Charge	kg	3.5 + 3.5 + 4.2	3.5 + 4.2 + 4.2	4.2 + 4.2 + 4.2	4.2 + 4.2 + 4.2	

- Notes:
- 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.
    - Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.
  - This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).
  - Hold ambient temperature at 0 - 40°C and humidity at 80%RH or less. Heat rejection from the casing: 0.51 kW / 6 - 8 HP / hour, 0.58 kW / 10 - 12 HP / hour.
  - Connectable to closed type cooling tower only.
    - \*1: In the case of cooling only system, suction gas pipe is not used.
    - \*2: In the case of cooling only system.
- Be sure to refer to the Engineering Data Book for facility design.

# VRV IV HEAT RECOVERY HOT WATER SYSTEM

Comfortable Air Conditioning and Energy-efficient Hot Water Heating

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

### High-COP Type

Double outdoor units  
**RWHQ12-16THY14**

Triple outdoor units  
**RWHQ18-50THY14**

### Standard Type

Single outdoor units  
**RWHQ6-16TY14**

Double outdoor units  
**RWHQ18-32TNY14**

Triple outdoor units  
**RWHQ34-60TNY14**

### Space Saving Type

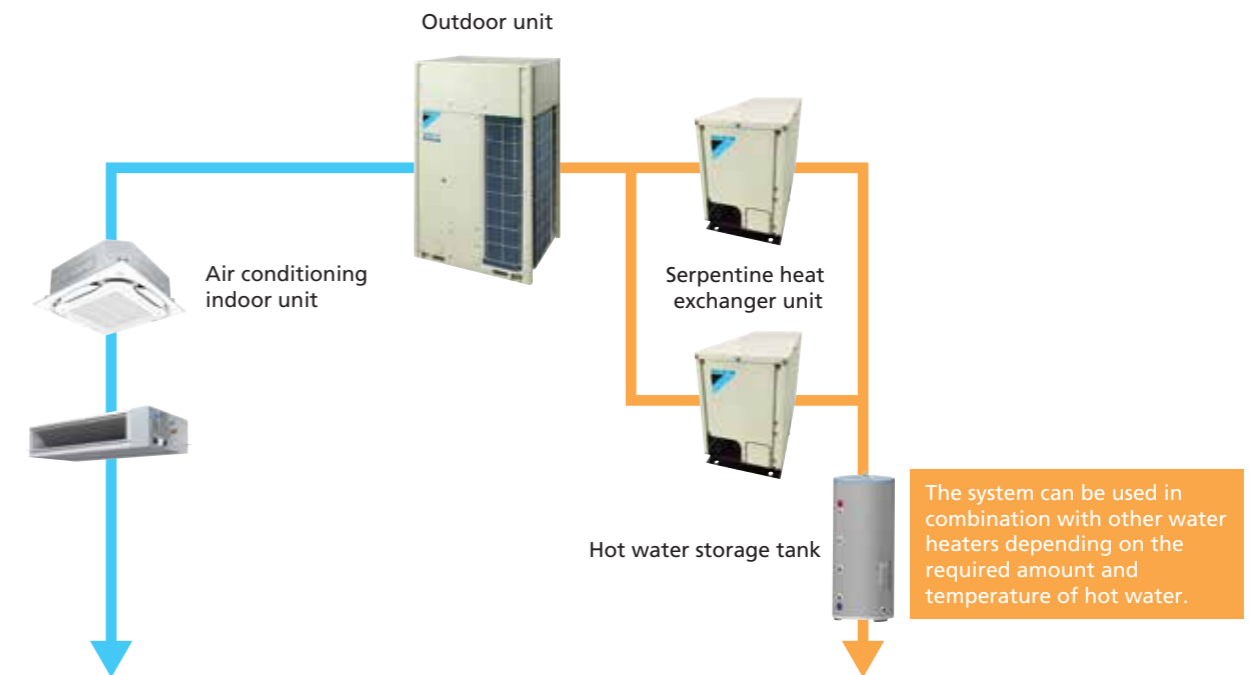
Single outdoor units  
**RWHQ18-20TY14**

Double outdoor units  
**RWHQ22-40TSY14**

Triple outdoor units  
**RWHQ42-50TSY14**



Air conditioning combined with hot water supply – Compact system



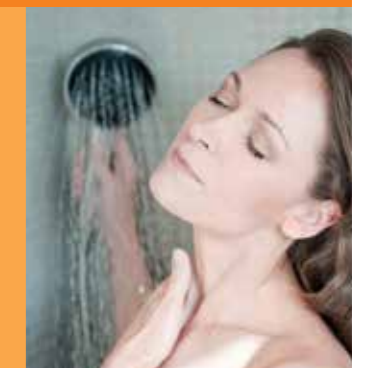
Flexible combination of VRV IV indoor units achieves comfort and aesthetic

AIR CONDITIONING



Extremely energy-efficient energy source

HOT WATER SUPPLY



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

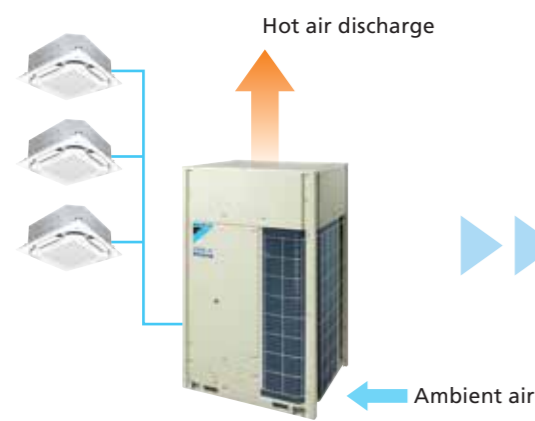
Can be used in combination with other water heaters depending on the required amount and temperature of hot water.

# Innovative and Reliable System

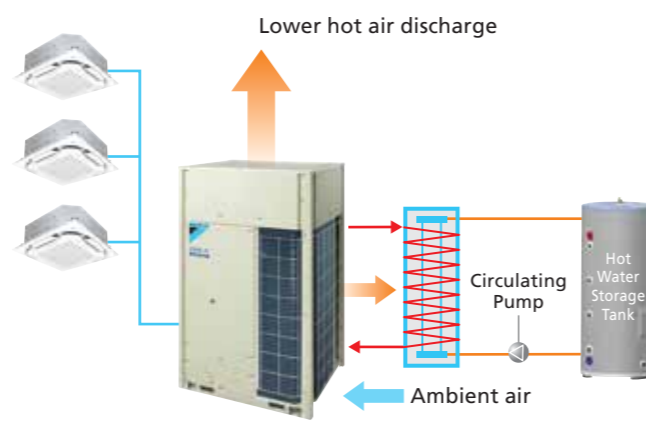
The energy-efficient system recovers waste heat as energy to heat water

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

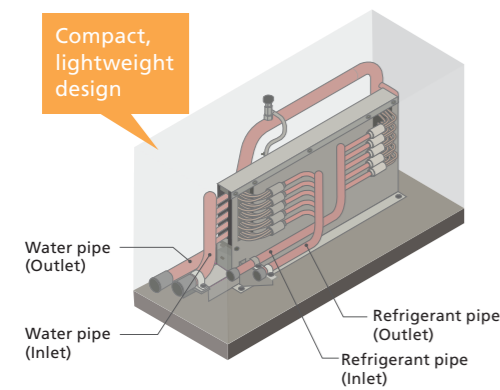
In a conventional system, waste heat from air conditioning is released into the ambience.



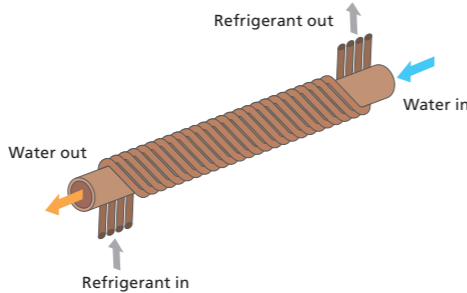
This system recovers waste heat from air conditioning to heat water.



## The serpentine heat exchanger unit recovers heat



The proprietary Serpentine Heat Exchanger achieves excellent heat exchange efficiency.



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



Refrigerant leakage does not contaminate water.

## Increased energy efficiency of the outdoor unit

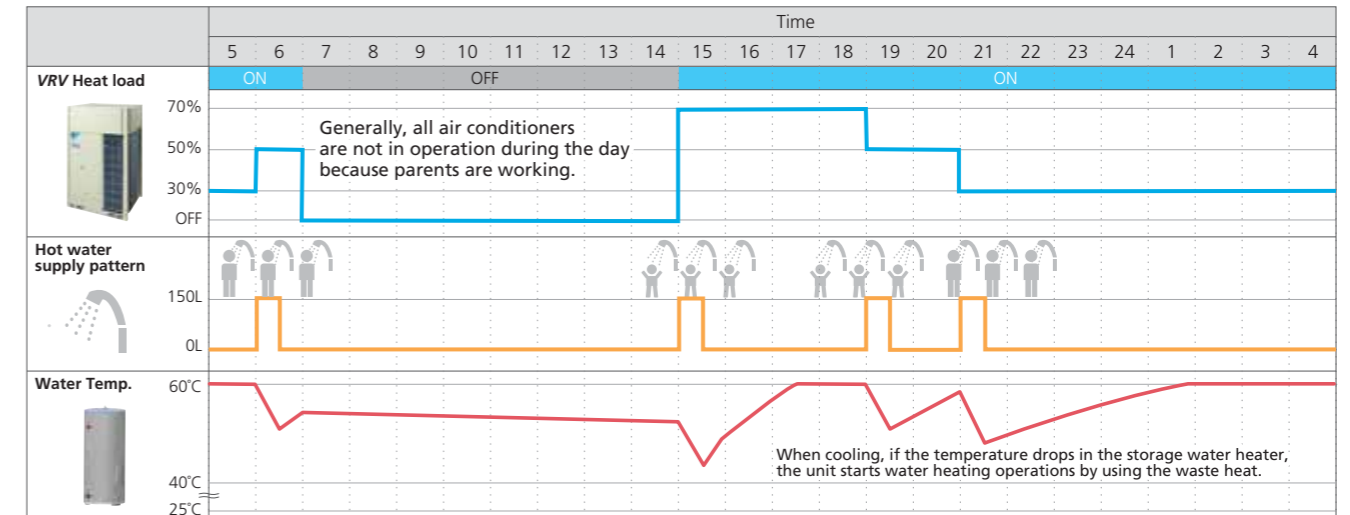
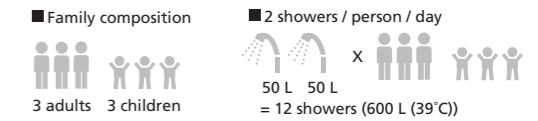
The waste heat from air conditioning is transferred to heat water. This mechanism reduces the amount of heat processed by the outdoor unit, resulting in better operation efficiency. The EER for VRV IV Heat Recovery Hot Water has increased from 4.41 to 4.50, compared with the conventional VRV IV.

## Reducing short circuits

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

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

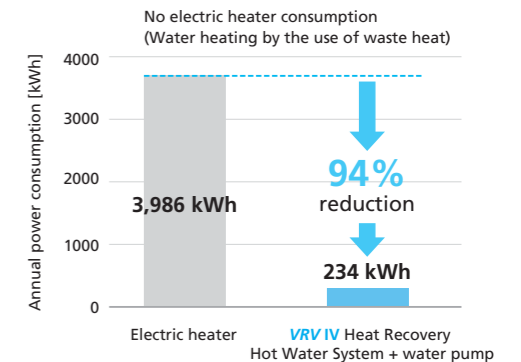
In a sample family model of 3 adults and 3 children, the waste heat generated by air conditioning is sufficient to supply hot water for everybody's showers.



Air conditioner load conditions / Operation time: 16 hours/day  
 Water-heating load  
 Tank capacity: 200 L  
 Boiling temperature: 25°C to 60°C (tap water)  
 Amount of hot water per person per time (standard): 50 L/shower (39°C) (water dispensed: 10 L/min.; shower time: 5 min./shower)  
 Amount of water required in tank to dispense 39°C hot water

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

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



## VRV IV Heat Recovery Hot Water controller

### Convertible Remote Controller

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

### Anti-Bacteria

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

### Vacation Mode

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

### Auto Restart

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

### Safety-Error Code

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






























BRCS82



# Indoor Unit Lineup

## Enhanced range of choices

 New lineup

Category	Type	Model Name	Capacity Range Capacity Index	20	25	32	40	50	63	80	100	125	140	200	250	400	500	
				0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP	
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	<b>FXFTQ-AV4</b>			●	●	●	●	●	●	●	●	●					
	Round Flow Cassette with Streamer	<b>FXFRQ-AV4</b>			●	●	●	●	●	●	●	●	●					
	Round Flow Cassette with Sensing	FXFSQ-AV4			●	●	●	●	●	●	●	●	●					
	Round Flow Cassette	FXFQ-AV4			●	●	●	●	●	●	●	●	●					
	Compact Multi Flow Cassette	<b>FXZQ-BVM4</b>			●	●	●	●	●									
	Double Flow Cassette	<b>FXCQ-BVM4</b>			●	●	●	●	●			●						
	Single Flow Cassette	FXKQ-MAVE4			●	●	●		●									
Ceiling Concealed Duct	Ceiling Mounted Cassette Duct	FXFDQ-AV4						●	●	●	●							
	Bedroom Duct	FXDBQ-AVM4						●	●	●								
		Slim Duct (Standard)	FXDQ-PDVE4 (with drain pump)		(700 mm width type)		●	●										
			FXDQ-PDVT4 (without drain pump)				●	●										
		Slim Duct (Compact)	FXDQ-NDVE4 (with drain pump)		(900/1,100 mm width type)					●	●							
	FXDQ-NDVT4 (without drain pump)								●	●								
	Slim Duct (Compact)	FXDQ-SPV14			●	●	●	●	●	●								
	Middle Static Pressure Duct	FXSQ-PAV4			●	●	●	●	●	●	●	●	●					
	Middle-High Static Pressure Duct	FXMQ-PAV4			●	●	●	●	●	●	●	●	●					
	High Static Pressure Duct	FXMQ-PVM												●	●			
Outdoor-Air Processing Unit	FXMQ-MFV7											●		●	●			
	<b>FXMQ-BFV24</b>									●		●	●	●	●			
Ceiling Suspended	FXHQ-MAV7				●			●		●								
	<b>FXHQ-BVM4</b>										●	●						
Wall Mounted	FXAQ-AVM4			●	●	●	●	●										
Floor Standing	Floor Standing	FXLQ-MAVE4			●	●	●	●	●									
	Concealed Floor Standing	FXNQ-MAVE4			●	●	●	●	●									
	Floor Standing Duct	FXVQ-NY14										●	●	●	●	●		
Clean Room Air Conditioner	FXBQ-PVE4						●	●	●									
	FXBPQ-PVE4							●	●									
Heat Reclaim Ventilator with DX-Coil	VKM-GCVE			Airflow rate 500-950 m³/h														
Heat Reclaim Ventilator	VAM-HVE			Airflow rate 150-2000 m³/h														
Air Handling Unit	AHUR			6-120 HP														



VRV IV Heat Recovery Hot Water System

# Outdoor Units

## VRV IV Heat Recovery Hot Water System

### Specifications

#### High-COP Type

MODEL		RWHQ12THY14	RWHQ14THY14	RWHQ16THY14	RWHQ18THY14	RWHQ20THY14	RWHQ22THY14	RWHQ24THY14	RWHQ26THY14	RWHQ28THY14	RWHQ30THY14	RWHQ32THY14	RWHQ34THY14	RWHQ36THY14	RWHQ38THY14	RWHQ40THY14	
Combination units		RWHQ6TY14	RWHQ6TY14	RWHQ8TY14	RWHQ6TY14	RWHQ6TY14	RWHQ6TY14	RWHQ8TY14	RWHQ8TY14	RWHQ8TY14	RWHQ8TY14	RWHQ8TY14	RWHQ8TY14	RWHQ8TY14	RWHQ12TY14	RWHQ12TY14	
		RWHQ6TY14	RWHQ8TY14	RWHQ8TY14	RWHQ6TY14	RWHQ6TY14	RWHQ8TY14	RWHQ8TY14	RWHQ10TY14	RWHQ12TY14	RWHQ12TY14	RWHQ12TY14	RWHQ14TY14	RWHQ14TY14	RWHQ14TY14	RWHQ14TY14	
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz								3-phase 4-wire system, 380-415 V, 50 Hz							
Cooling capacity	Btu/h	109,000	131,000	153,000	164,000	186,000	207,000	229,000	248,000	267,000	286,000	305,000	327,000	348,000	365,000	389,000	
	kW	32.0	38.4	44.8	48.0	54.4	60.8	67.2	72.8	78.3	83.9	89.4	95.9	102	107	114	
Power consumption	kW	7.10	8.68	10.3	10.7	12.2	13.8	15.4	17.5	19.2	21.3	23.0	24.9	26.7	28.7	30.5	
Capacity control	%	10-100				7-100				6-100				5-100			
Casing colour		Ivory white(5Y7.5/1)								Ivory white (5Y7.5/1)							
Compressor	Type	Hermetically Sealed Scroll Type								Hermetically Sealed Scroll Type							
	Motor output	(2.4x1)+(2.4x1)	(2.4x1)+(3.4x1)	(3.4x1)+(3.4x1)	(2.4x1)+(2.4x1)+(2.4x1)	(2.4x1)+(2.4x1)+(3.4x1)	(2.4x1)+(3.4x1)+(3.4x1)	(3.4x1)+(3.4x1)+(3.4x1)	(3.4x1)+(3.4x1)+(4.1x1)	(3.4x1)+(3.4x1)+(5.2x1)	(3.4x1)+(4.1x1)+(5.2x1)	(3.4x1)+(5.2x1)+(5.2x1)	(3.4x1)+(5.2x1)+(2.9x1)+(3.3x1)	(3.4x1)+(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)	(5.2x1)+(5.2x1)+(2.9x1)+(3.3x1)	(5.2x1)+(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)	
Airflow rate	m³/min	119+119	119+157	157+157	119+119+119	119+119+157	119+157+157	157+157+157	157+157+165	157+157+178	157+165+178	157+178+178	157+178+233	157+233+233	178+178+233	178+233+233	
Dimensions (HxWxD)	mm	(1,657x930x765)+(1,657x930x765)				(1,657x930x765)+(1,657x930x765)+(1,657x930x765)				(1,657x930x765)+(1,657x930x765)+(1,657x930x765)				(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)		(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)	
Machine weight	kg	185+185				185+185+185				185+185+200		185+200+200		185+200+285	185+285+285	200+200+285	200+285+285
Sound level	dB(A)	58	59		60			61	61	62		63			64		
Operation range	°CDB	15 to 49								15 to 49							
Refrigerant	Type	R-410A								R-410A							
	Charge	6.4+6.4				6.4+6.4+6.4				6.4+6.4+6.5	6.4+6.4+6.8	6.4+6.5+6.8	6.4+6.8+6.8	6.4+6.8+10.3	6.4+10.3+10.3	6.8+6.8+10.3	6.8+10.3+10.3
Piping connections (Indoor unit)	Liquid	φ 12.7(Brazing)				φ 15.9(Brazing)				φ 19.1(Brazing)							
	Gas	φ 28.6(Brazing)				φ 34.9(Brazing)				φ 34.9(Brazing)							
Piping connections (Heat exchanger unit)	Inlet pipe	φ 19.1(Brazing x 2)				φ 19.1(Brazing x 3)				φ 19.1(Brazing x 3)							
	Outlet pipe	φ 19.1(Brazing x 2)				φ 19.1(Brazing x 3)				φ 19.1(Brazing x 3)							

#### Standard Type

MODEL		RWHQ42THY14	RWHQ44THY14	RWHQ46THY14	RWHQ48THY14	RWHQ50THY14
Combination units		RWHQ14TY14	RWHQ14TY14	RWHQ14TY14	RWHQ16TY14	RWHQ16TY14
		RWHQ14TY14	RWHQ14TY14	RWHQ16TY14	RWHQ16TY14	RWHQ16TY14
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz				
Cooling capacity	Btu/h	409,000	427,000	444,000	461,000	478,000
	kW	120	125	130	135	140
Power consumption	kW	32.4	34.5	36.6	38.7	41.1
Capacity control	%	4-100	3-100			
Casing colour		Ivory white (5Y7.5/1)				
Compressor	Type	Hermetically Sealed Scroll Type				
	Motor output	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)	(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)
Airflow rate	m³/min	233+233+233				
Dimensions (HxWxD)	mm	(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)				
Machine weight	kg	285+285+285				
Sound level	dB(A)	65				66
Operation range	°CDB	15 to 49				
Refrigerant	Type	R-410A				
	Charge	10.3+10.3+10.3	10.3+10.3+10.4	10.3+10.4+10.4	10.4+10.4+10.4	10.4+10.4+10.5
Piping connections (Indoor unit)	Liquid	φ 19.1(Brazing)				
	Gas	φ 41.3(Brazing)				
Piping connections (Heat exchanger unit)	Inlet pipe	φ 19.1(Brazing x 3)				
	Outlet pipe	φ 19.1(Brazing x 3)				

MODEL		RWHQ6TY14	RWHQ8TY14	RWHQ10TY14	RWHQ12TY14	RWHQ14TY14	RWHQ16TY14
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
Power consumption	kW	3.55	5.13	7.22	8.93	10.8	12.9
Capacity control	%	20-100		16-100	15-100	11-100	10-100
Casing colour		Ivory white (5Y7.5/1)					
Compressor	Type	Hermetically Sealed Scroll Type					
	Motor output	2.4x1	3.4x1	4.1x1	5.2x1	(2.9x1)+(3.3x1)	(3.6x1)+(3.7x1)
Airflow rate	m³/min	119	157	165	178	233	
Dimensions (HxWxD)	mm	1,657x930x765					
Machine weight	kg	185		200		285	
Sound level	dB(A)	55	56	57	59	60	61
Operation range	°CDB	15 to 49					
Refrigerant	Type	R-410A					
	Charge	6.4		6.5	6.8	10.3	10.4
Piping connections (Indoor unit)	Liquid	φ 9.5(Brazing)				φ 12.7(Brazing)	
	Gas	φ 19.1(Brazing)		φ 22.2(Brazing)		φ 28.6(Brazing)	
Piping connections (Heat exchanger unit)	Inlet pipe	φ 19.1(Brazing)					
	Outlet pipe	φ 19.1(Brazing)					

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

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

# Outdoor Units

## VRV IV Heat Recovery Hot Water System

### Specifications

#### Standard Type

MODEL		RWHQ18TNY14	RWHQ20TNY14	RWHQ22TNY14	RWHQ24TNY14	RWHQ26TNY14	RWHQ28TNY14	RWHQ30TNY14	RWHQ32TNY14	RWHQ34TNY14	RWHQ36TNY14	RWHQ38TNY14	RWHQ40TNY14	RWHQ42TNY14	RWHQ44TNY14	RWHQ46TNY14
Combination units		RWHQ8TY14	RWHQ8TY14	RWHQ8TY14	RWHQ10TY14	RWHQ12TY14	RWHQ14TY14	RWHQ14TY14	RWHQ14TY14	RWHQ10TY14	RWHQ12TY14	RWHQ8TY14	RWHQ12TY14	RWHQ12TY14	RWHQ12TY14	RWHQ14TY14
		RWHQ10TY14	RWHQ12TY14	RWHQ14TY14	RWHQ14TY14	RWHQ14TY14	RWHQ14TY14	RWHQ16TY14	RWHQ18TY14	RWHQ12TY14	RWHQ12TY14	RWHQ12TY14	RWHQ16TY14	RWHQ16TY14	RWHQ16TY14	RWHQ18TY14
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz							3-phase 4-wire system, 380-415 V, 50 Hz							
Cooling capacity	Btu/h	172,000	191,000	213,000	232,000	251,000	273,000	290,000	307,000	324,000	345,000	362,000	382,000	406,000	423,000	444,000
	kW	50.4	55.9	62.4	68.0	73.5	80.0	85.0	90.0	95.0	101	106	112	119	124	130
Power consumption	kW	12.4	14.1	15.9	18.0	19.7	21.6	23.7	26.1	25.1	26.8	29.4	30.8	32.6	34.7	36.9
Capacity control	%	8-100		7-100		6-100		5-100		5-100			4-100			3-100
Casing colour		Ivory white (5Y7.5/1)							Ivory white (5Y7.5/1)							
Compressor	Type	Hermetically Sealed Scroll Type							Hermetically Sealed Scroll Type							
	Motor output kW	(3.4x1)+(4.1x1)	(3.4x1)+(5.2x1)	(3.4x1)+(2.9x1)+(3.3x1)	(4.1x1)+(2.9x1)+(3.3x1)	(5.2x1)+(2.9x1)+(3.3x1)	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)	(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)	(2.9x1)+(3.3x1)+(4.4x1)+(4.0x1)	(4.1x1)+(5.2x1)+(5.2x1)	(5.2x1)+(5.2x1)+(5.2x1)	(3.4x1)+(5.2x1)+(4.4x1)+(4.0x1)	(5.2x1)+(5.2x1)+(3.6x1)+(3.7x1)	(5.2x1)+(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)	(5.2x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(4.4x1)+(4.0x1)
Airflow rate	m <sup>3</sup> /min	157+165	157+178	157+233	165+233	178+233	233+233		233+233	165+178+178	178+178+178	157+178+233	178+178+233	178+233+233		233+233+233
Dimensions (HxWxD)	mm	(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x1,240x765)			(1,657x1,240x765)+(1,657x1,240x765)		(1,657x1,240x765)+(1,657x1,240x765)	(1,657x930x765)+(1,657x930x765)+(1,657x930x765)		(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)		(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)		(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)
Machine weight	kg	185+200		185+285	200+285		285+285		285+285	200+200+200		185+200+285	200+200+285	200+285+285		285+285+285
Sound level	dB(A)	60	61		62	63		64	64	63	64		65		66	
Operation range	°CDB	15 to 49							15 to 49							
Refrigerant	Type	R-410A							R-410A							
	Charge kg	6.4+6.5	6.4+6.8	6.4+10.3	6.5+10.3	6.8+10.3	10.3+10.3	10.3+10.4	10.3+10.5	6.5+6.8+6.8	6.8+6.8+6.8	6.4+6.8+10.5	6.8+6.8+10.4	6.8+10.3+10.4	6.8+10.4+10.4	10.3+10.3+10.5
Piping connections (Indoor unit)	Liquid mm	φ 15.9(Brazing)							φ 19.1(Brazing)							
	Gas mm	φ 28.6(Brazing)			φ 34.9(Brazing)				φ 34.9(Brazing)			φ 41.3(Brazing)				
Piping connections (Heat exchanger unit)	Inlet pipe mm	φ 19.1(Brazing x 2)							φ 19.1(Brazing x 2)							
	Outlet pipe mm	φ 19.1(Brazing x 2)							φ 19.1(Brazing x 3)							

#### Standard Type

MODEL		RWHQ48TNY14	RWHQ50TNY14	RWHQ52TNY14	RWHQ54TNY14	RWHQ56TNY14	RWHQ58TNY14	RWHQ60TNY14
Combination units		RWHQ14TY14	RWHQ14TY14	RWHQ16TY14	RWHQ18TY14	RWHQ18TY14	RWHQ18TY14	RWHQ20TY14
		RWHQ16TY14	RWHQ18TY14	RWHQ18TY14	RWHQ18TY14	RWHQ18TY14	RWHQ20TY14	RWHQ20TY14
		RWHQ18TY14	RWHQ18TY14	RWHQ18TY14	RWHQ18TY14	RWHQ20TY14	RWHQ20TY14	RWHQ20TY14
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz						
Cooling capacity	Btu/h	461,000	478,000	495,000	512,000	532,000	553,000	573,000
	kW	135	140	145	150	156	162	168
Power consumption	kW	39.0	41.4	43.5	45.9	48.5	51.1	53.7
Capacity control	%	3-100						
Casing colour		Ivory white (5Y7.5/1)						
Compressor	Type	Hermetically Sealed Scroll Type						
	Motor output kW	(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)	(2.9x1)+(3.3x1)+(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)	(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)+(5.5x1)	(4.4x1)+(4.0x1)+(4.6x1)+(5.5x1)	(4.6x1)+(5.5x1)+(4.6x1)+(5.5x1)
Airflow rate	m <sup>3</sup> /min	233+233+233			233+233+268	233+268+268	268+268+268	
Dimensions (HxWxD)	mm	(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)						
Machine weight	kg	285+285+285			285+285+320	285+320+320	320+320+320	
Sound level	dB(A)	66		67	68	69	70	
Operation range	°CDB	15 to 49						
Refrigerant	Type	R-410A						
	Charge kg	10.3+10.4+10.5	10.3+10.5+10.5	10.4+10.5+10.5	10.5+10.5+10.5	10.5+10.5+11.8	10.5+11.8+11.8	11.8+11.8+11.8
Piping connections (Indoor unit)	Liquid mm	φ 19.1(Brazing)						
	Gas mm	φ 41.3(Brazing)						
Piping connections (Heat exchanger unit)	Inlet pipe mm	φ 19.1(Brazing x 3)						
	Outlet pipe mm	φ 19.1(Brazing x 3)						

#### Space Saving Type

MODEL		RWHQ18TY14	RWHQ20TY14	RWHQ22TSY14	RWHQ24TSY14
Combination units		—	—	RWHQ10TY14	RWHQ12TY14
		—	—	RWHQ12TY14	RWHQ12TY14
		—	—	—	—
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz			
Cooling capacity	Btu/h	171,000	191,000	210,000	229,000
	kW	50.0	56.0	61.5	67.0
Power consumption	kW	15.3	17.9	16.2	17.9
Capacity control	%	10-100		8-100	
Casing colour		Ivory white (5Y7.5/1)			
Compressor	Type	Hermetically Sealed Scroll Type			
	Motor output kW	(4.4x1)+(4.0x1)	(4.6x1)+(5.5x1)	(4.1x1)+(5.2x1)	(5.2x1)+(5.2x1)
Airflow rate	m <sup>3</sup> /min	233	268	165+178	178+178
Dimensions (HxWxD)	mm	1,657x1,240x765			
Machine weight	kg	285	320	200+200	
Sound level	dB(A)	62	65	61	62
Operation range	°CDB	15 to 49			
Refrigerant	Type	R-410A			
	Charge kg	10.5	11.8	6.5+6.8	6.8+6.8
Piping connections (Indoor unit)	Liquid mm	φ 15.9(Brazing)			
	Gas mm	φ 28.6(Brazing)			φ 34.9(Brazing)
Piping connections (Heat exchanger unit)	Inlet pipe mm	φ 19.1(Brazing)		φ 19.1(Brazing x 2)	
	Outlet pipe mm	φ 19.1(Brazing)		φ 19.1(Brazing x 2)	

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

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

# Outdoor Units

## VRV IV Heat Recovery Hot Water System

### Specifications

#### Space Saving Type

MODEL		RWHQ26TSY14	RWHQ28TSY14	RWHQ30TSY14	RWHQ32TSY14	RWHQ34TSY14	RWHQ36TSY14	RWHQ38TSY14	RWHQ40TSY14	RWHQ42TSY14	RWHQ44TSY14	RWHQ46TSY14	RWHQ48TSY14	RWHQ50TSY14
Combination units		RWHQ8TY14	RWHQ12TY14	RWHQ12TY14	RWHQ12TY14	RWHQ16TY14	RWHQ18TY14	RWHQ18TY14	RWHQ20TY14	RWHQ12TY14	RWHQ12TY14	RWHQ12TY14	RWHQ12TY14	RWHQ12TY14
		RWHQ18TY14	RWHQ16TY14	RWHQ18TY14	RWHQ20TY14	RWHQ18TY14	RWHQ18TY14		RWHQ20TY14	RWHQ20TY14	RWHQ12TY14	RWHQ12TY14	RWHQ16TY14	RWHQ18TY14
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz						3-phase 4-wire system, 380-415 V, 50 Hz						
Cooling capacity	Btu/h	247,000	268,000	285,000	305,000	324,000	341,000	362,000	382,000	399,000	420,000	440,000	457,000	478,000
	kW	72.4	78.5	83.5	89.5	95.0	100	106	112	117	123	129	134	140
Power consumption	kW	20.4	21.8	24.2	26.8	28.2	30.6	33.2	35.8	33.2	35.8	37.1	39.5	42.1
Capacity control	%	7-100	6-100		5-100					4-100			3-100	
Casing colour		Ivory white (5Y7.5/1)						Ivory white (5Y7.5/1)						
Compressor	Type	Hermetically Sealed Scroll Type						Hermetically Sealed Scroll Type						
	Motor output kW	(3.4x1)+(4.4x1)+(4.0x1)	(5.2x1)+(3.6x1)+(3.7x1)	(5.2x1)+(4.4x1)+(4.0x1)	(5.2x1)+(4.6x1)+(5.5x1)	(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)	(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)		(4.4x1)+(4.0x1)+(4.6x1)+(5.5x1)	(4.6x1)+(5.5x1)+(4.6x1)+(5.5x1)	(5.2x1)+(5.2x1)+(4.4x1)+(4.0x1)	(5.2x1)+(5.2x1)+(4.6x1)+(5.5x1)	(5.2x1)+(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)	(5.2x1)+(4.4x1)+(4.0x1)+(4.4x1)+(4.0x1)
Airflow rate	m <sup>3</sup> /min	157+233	178+233		178+268	233+233		233+268	268+268	178+178+233	178+178+268	178+233+233		178+233+268
Dimensions (HxWxD)	mm	(1,657x930x765)+(1,657x1,240x765)				(1,657x1,240x765)+(1,657x1,240x765)		(1,657x1,240x765)+(1,657x1,240x765)		(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)		(1,657x930x765)+(1,657x1,240x765)+(1,657x1,240x765)		
Machine weight	kg	185+285	200+285		200+320	285+285		285+320	320+320	200+200+285	200+200+320	200+285+285		200+285+320
Sound level	dB(A)	63		64	66	65		67	68	65	67	66		67
Operation range	°CDB	15 to 49						15 to 49						
Refrigerant	Type	R-410A						R-410A						
	Charge kg	6.4+10.5	6.8+10.4	6.8+10.5	6.8+11.8	10.4+10.5	10.5+10.5	10.5+11.8	11.8+11.8	6.8+6.8+10.5	6.8+6.8+11.8	6.8+10.4+10.5	6.8+10.5+10.5	6.8+10.5+11.8
Piping connections (Indoor unit)	Liquid mm	φ 19.1(Brazing)						φ 19.1(Brazing)						
	Gas mm	φ 34.9(Brazing)				φ 41.3(Brazing)		φ 41.3(Brazing)						
Piping connections (Heat exchanger unit)	Inlet pipe mm	φ 19.1(Brazing x 2)						φ 19.1(Brazing x 2)			φ 19.1(Brazing x 3)			
	Outlet pipe mm	φ 19.1(Brazing x 2)						φ 19.1(Brazing x 2)			φ 19.1(Brazing x 3)			

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
  - Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
- During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

# Outdoor Units

## VRV IV Heat Recovery Hot Water System

### Serpentine heat exchanger unit (HWHQ30A)



Model Name ( RWHQ-TY14, HWHQ30A )	Single Heat Exchanger Unit							
	RWHQ6TY14 +HWHQ30A	RWHQ8TY14 +HWHQ30A	RWHQ10TY14 +HWHQ30A	RWHQ12TY14 +HWHQ30A	RWHQ14TY14 +HWHQ30A	RWHQ16TY14 +HWHQ30A	RWHQ18TY14 +HWHQ30A	RWHQ20TY14 +HWHQ30A
Rated inlet temperature	°C 40							
Rated water flow	L/min 10							
Range of inlet temperature	°C 20-65							
Range of water flow	L/min 5-20							
Rated Hot-water capacity *1	kW 3.2	kW 3.3	kW 3.3	kW 3.5	kW 3.7	kW 4.0	kW 4.2	kW 4.4
Machine weight	kg 27							
Diameter of Refrigerant pipe (Gas)	mm φ 19.1 (Braze)							
Diameter of Refrigerant pipe (Liquid)	mm φ 19.1 (Braze)							
Diameter of water pipe (Inlet)	mm φ 25.4 (Screw)							
Diameter of water pipe (Outlet)	mm φ 25.4 (Screw)							
Piping length (max)	m 2 (5)							
Design pressure (Water side)	MPa 0.5							
Loss of Head *2	m 0.2							
Casing colour	Ivory white (5Y7.5/1)							
Dimensions (HxWxD)	mm 446 × 306 × 765							

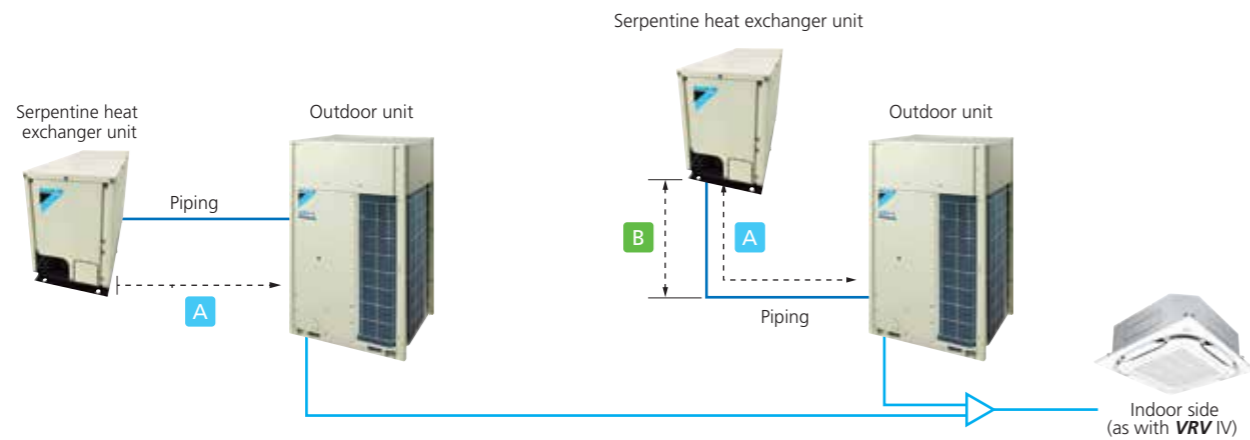
Notes: It is necessary to satisfy the water standard of Daikin for the water that is used. In the case that the water standard is not satisfied, special measures are required. Please contact your local sales office for details.  
 \*1: [ Cooling ] Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB,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



Model Name ( RWHQ-TY14, HWHQ30A )	Double Heat Exchanger Unit							
	RWHQ6TY14 +HWHQ30Ax2	RWHQ8TY14 +HWHQ30Ax2	RWHQ10TY14 +HWHQ30Ax2	RWHQ12TY14 +HWHQ30Ax2	RWHQ14TY14 +HWHQ30Ax2	RWHQ16TY14 +HWHQ30Ax2	RWHQ18TY14 +HWHQ30Ax2	RWHQ20TY14 +HWHQ30Ax2
Rated inlet temperature	°C 40							
Rated water flow	L/min 20 (10 × 2)							
Range of inlet temperature	°C 20-65							
Range of water flow	L/min 10-40 (5-20 × 2)							
Rated Hot-water capacity *1	kW 5.4	kW 5.6	kW 5.6	kW 5.9	kW 6.2	kW 6.8	kW 7.1	kW 7.4
Machine weight	kg 54 (27 × 2)							
Diameter of Refrigerant pipe (Gas)	mm φ 19.1 (Braze) × 2							
Diameter of Refrigerant pipe (Liquid)	mm φ 19.1 (Braze) × 2							
Diameter of water pipe (Inlet)	mm φ 25.4 (Screw) × 2							
Diameter of water pipe (Outlet)	mm φ 25.4 (Screw) × 2							
Piping length (max)	m 2 (5)							
Design pressure (Water side)	MPa 0.5							
Loss of Head *2	m 0.2							
Casing colour	Ivory white (5Y7.5/1)							
Dimensions (HxWxD)	mm (446 × 306 × 765) + (446 × 306 × 765)							

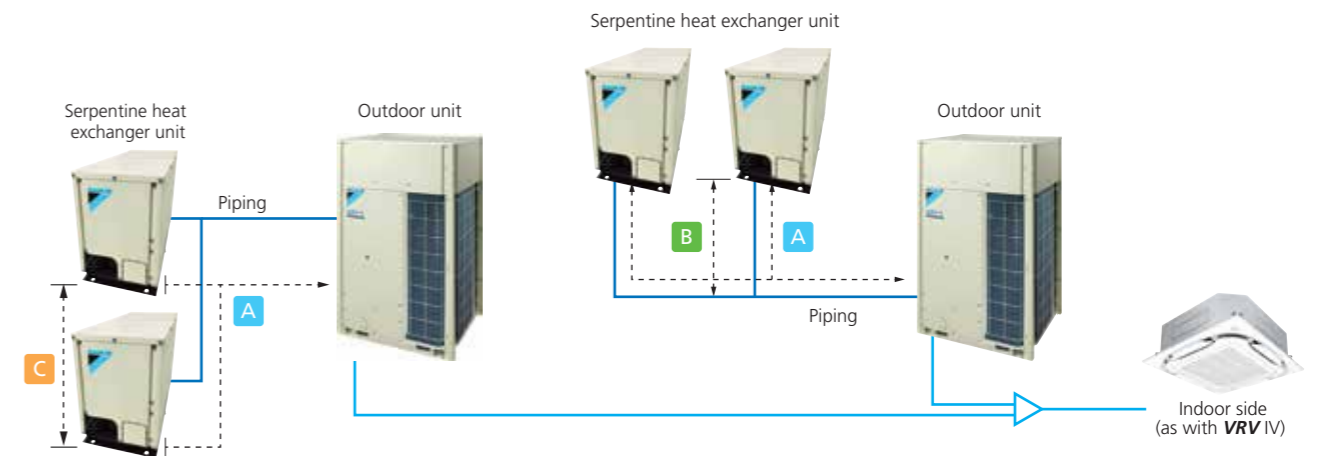
Notes: It is necessary to satisfy the water standard of Daikin for the water that is used. In the case that the water standard is not satisfied, special measures are required. Please contact your local sales office for details.  
 \*1: [ Cooling ] Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB,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

### Pipe length restriction of VRV IV Heat Recovery Hot Water System



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

### Pipe length restriction of VRV IV Heat Recovery Hot Water System













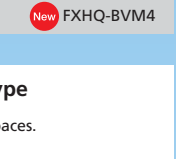













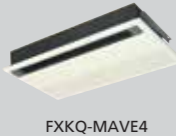



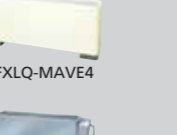
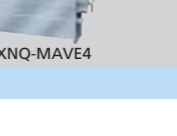


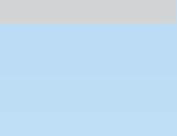

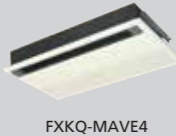







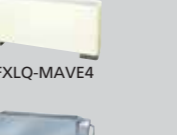
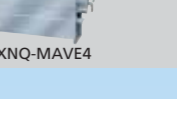






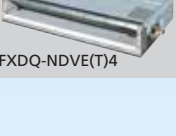






Max. allowable piping length	<b>A</b> Between outdoor unit and heat exchanger unit length	5 m
Max. allowable height difference	<b>B</b> Between outdoor unit and heat exchanger unit level	3 m
Max. allowable height difference	<b>C</b> Between heat exchanger units	3 m

# INDOOR UNIT LINEUP

Daikin offers a wide range of indoor units responding to variety of needs of our customers that require air-conditioning solutions.

## VRV indoor units

<p><b>Round Flow Cassette with Sensing and Streamer Type</b></p> <p>Comfort, energy savings by sensing functions and enhanced maximum efficiency in cleaning</p>   <p>FXFTQ-AV4</p>	<p><b>Round Flow Cassette with Streamer Type</b></p> <p>360° airflow for improved comfort and enhanced maximum efficiency in cleaning</p>   <p>FXFRQ-AV4</p>	<p><b>Round Flow Cassette with Sensing Type</b></p> <p>Comfort and energy savings by sensing functions</p>   <p>FXFSQ-AV4</p>	<p><b>Middle-High Static Pressure Duct Type</b></p> <p>Middle and high static pressure allows for flexible duct design.</p>   <p>FXMQ-PAV4</p>	<p><b>High Static Pressure Duct Type</b></p> <p>High static pressure allows for flexible duct design.</p>   <p>FXMQ-PVM</p>	<p><b>Ceiling Suspended Type</b></p> <p>Slim body with quiet and wide airflow.</p>    <p>FXHQ-MAV7 FXHQ-BVM4</p>	
<p><b>Round Flow Cassette Type</b></p> <p>360° airflow for improved comfort</p>   <p>FXFQ-AV4</p>	<p><b>Compact Multi Flow Cassette Type</b></p> <p>Quiet, compact, and designed for user comfort</p>   <p>FXZQ-BVM4</p>	<p><b>Double Flow Cassette Type</b></p> <p>Thin, lightweight, and easy to install in narrow ceiling spaces</p>   <p>FXCQ-BVM4</p>	<p><b>Outdoor-Air Processing Unit</b></p> <p>Combine fresh air treatment and air conditioning, supplied from a single system.</p>   <p>FXMQ-MFV7</p>	<p><b>Outdoor-Air Processing Unit</b></p> <p>Improve IAQ with fresh air ventilation and precise room temperature control</p>   <p>FXMQ-BFV24</p>	<p><b>Floor Standing Duct Type</b></p> <p>Large airflow type for large spaces.</p>   <p>FXVQ-NY14</p>	
<p><b>Single Flow Cassette Type</b></p> <p>Slim design for flexible installation</p>   <p>FXKQ-MAVE4</p>	<p><b>Wall Mounted Type</b></p> <p>Stylish flat panel design harmonised with your interior décor.</p>   <p>FXAQ-AVM4</p>	<p><b>Floor Standing Type / Conceal Floor Standing Type</b></p> <p>Suitable for perimeter zone air conditioning</p>    <p>FXLQ-MAVE4 FXNQ-MAVE4</p>	<p><b>Clean Room Air Conditioner</b></p> <p>Suitable for hospitals and other clean spaces</p>    <p>FXBQ-PVE4 FXBPQ-PVE4</p>			
<p><b>Single Flow Cassette Type</b></p> <p>Slim design for flexible installation</p>   <p>FXKQ-MAVE4</p>	<p><b>Ceiling Mounted Cassette Duct Type</b></p> <p>Unprecedented flexibility with Revolutionary air blow concept</p>   <p>FXFDQ-AV4</p>	<p><b>Slim Duct (Compact) Type</b></p> <p>Slim and compact design for easy and flexible installation</p>   <p>FXDQ-SPV14</p>	<p><b>Wall Mounted Type</b></p> <p>Stylish flat panel design harmonised with your interior décor.</p>   <p>FXAQ-AVM4</p>	<p><b>Floor Standing Type / Conceal Floor Standing Type</b></p> <p>Suitable for perimeter zone air conditioning</p>    <p>FXLQ-MAVE4 FXNQ-MAVE4</p>	<p><b>Air Handling Unit</b></p> <p>Integrate your air handling unit in a total solution for large size spaces such as factories and large stores.</p>   <p>AHUR</p>	
<p><b>Bedroom Duct Type</b></p> <p>Suitable for close living spaces such as hotels and condominiums</p>   <p>FXDBQ-AVM4</p>	<p><b>Slim Duct (Standard) Type</b></p> <p>Slim design, quietness and ideal for drop-ceilings</p>    <p>FXDQ-PDVE(T)4 FXDQ-NDVE(T)4</p>	<p><b>Middle Static Pressure Duct Type</b></p> <p>Middle static pressure and slim design allow flexible installations.</p>   <p>FXSQ-PAV4</p>	<p><b>Air treatment equipment</b></p>			
			<p><b>Heat Reclaim Ventilator with DX-Coil</b></p> <p>Air quality improvement by introducing fresh outdoor air in the room</p>  <p>VKM-GCVE</p>	<p><b>Heat Reclaim Ventilator</b></p> <p>Daikin VAM series ensures fresh air intake and energy savings</p>  <p>VAM-HVE</p>		

# Round Flow Cassette with Sensing and Streamer Type

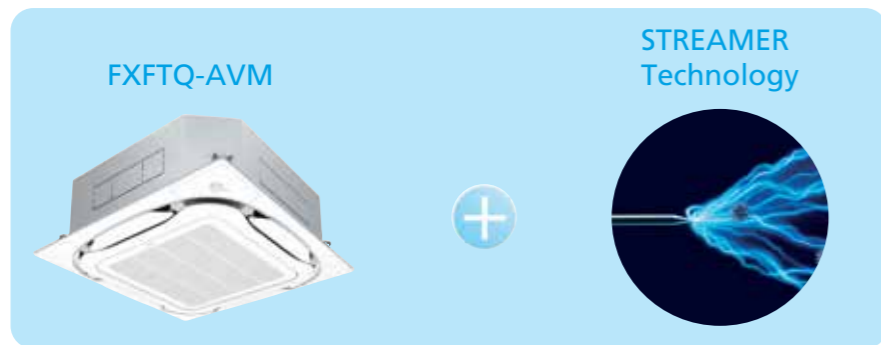
New FXFTQ-A

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



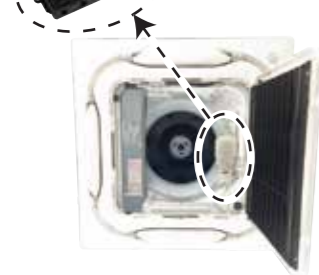
## Introducing Streamer technology to VRV Indoor unit

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



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.



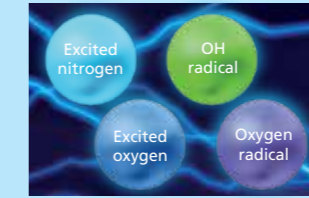
## Streamer Technology

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.

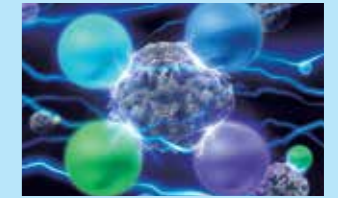
### Mechanism of decomposition by Streamer



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.

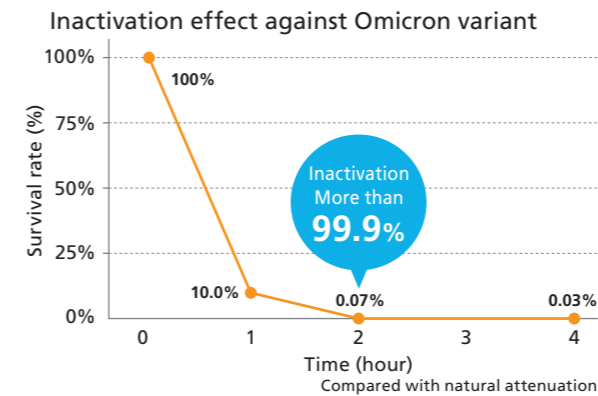


The decomposing elements provide decomposition power.

### 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.



#### Test Method

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



#### Test Organization

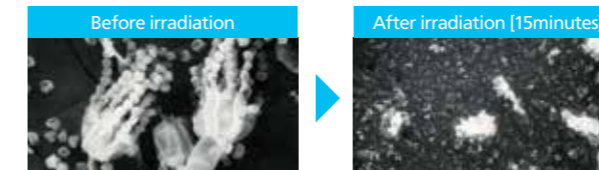
Professor Tatsuo Shioda, Department of Virus Infections, Research Institute for Microbial Diseases, Osaka University

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

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

#### Demonstration of mould

Picture of mould



#### Test Method

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

#### Test Organization

Demonstration test was performed at Wakayama Medical University.

### Why Daikin Streamer?

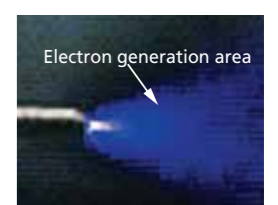
Recognized as clean technology by public bodies

Winner of the 2005 Progress Award, Institute of Electrostatics Japan  
Awarded for the development of a domestic air purifier which uses DC Streamer discharge.

105 Patents Acquired  
Patents acquired relating to Streamer technology

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

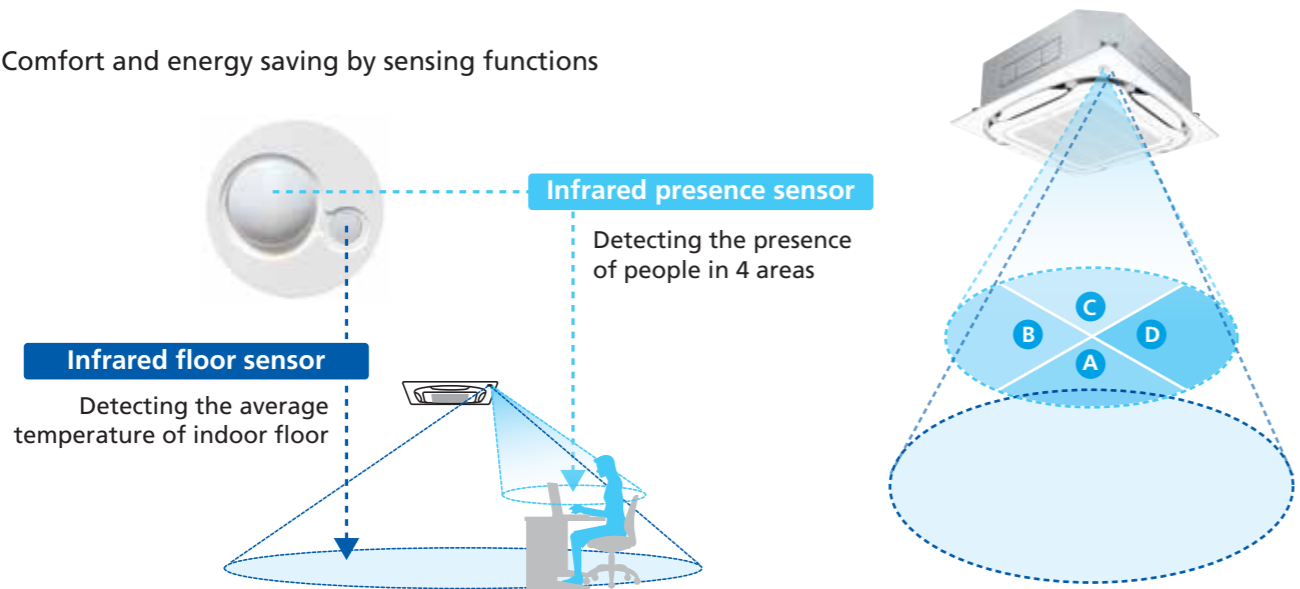
Note:  
\*Comparison of oxidation decomposition. This does not mean temperature will become high.



# Round Flow Cassette with Sensing and Streamer Type

## Daikin advanced sensing technology dual sensors

Comfort and energy saving by sensing functions

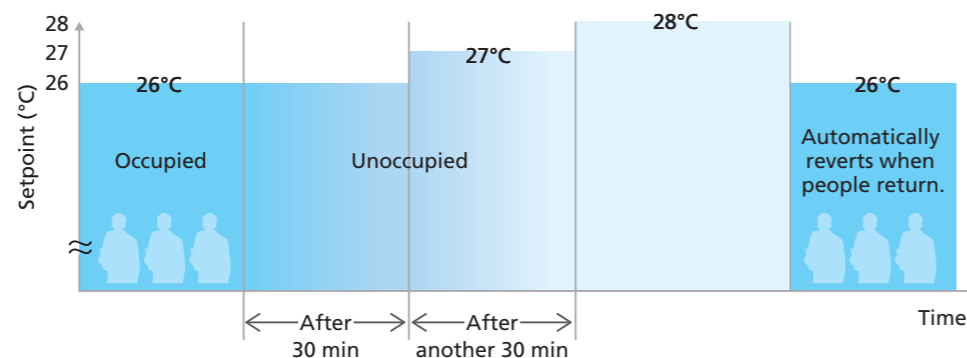


### Sensing sensor mode Energy saving

#### Sensing sensor low mode (default: OFF)

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

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



#### Sensing sensor stop mode (default: OFF)

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

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

## Individual airflow direction control

### Comfortable air conditioning for all room layouts and conditions

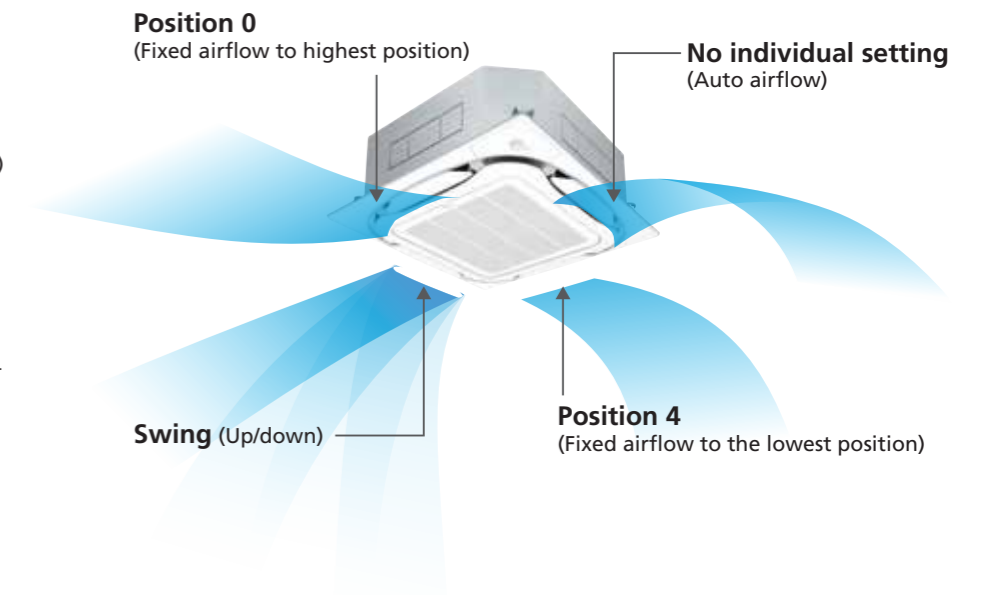
Easy setting is possible with a wired remote controller

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

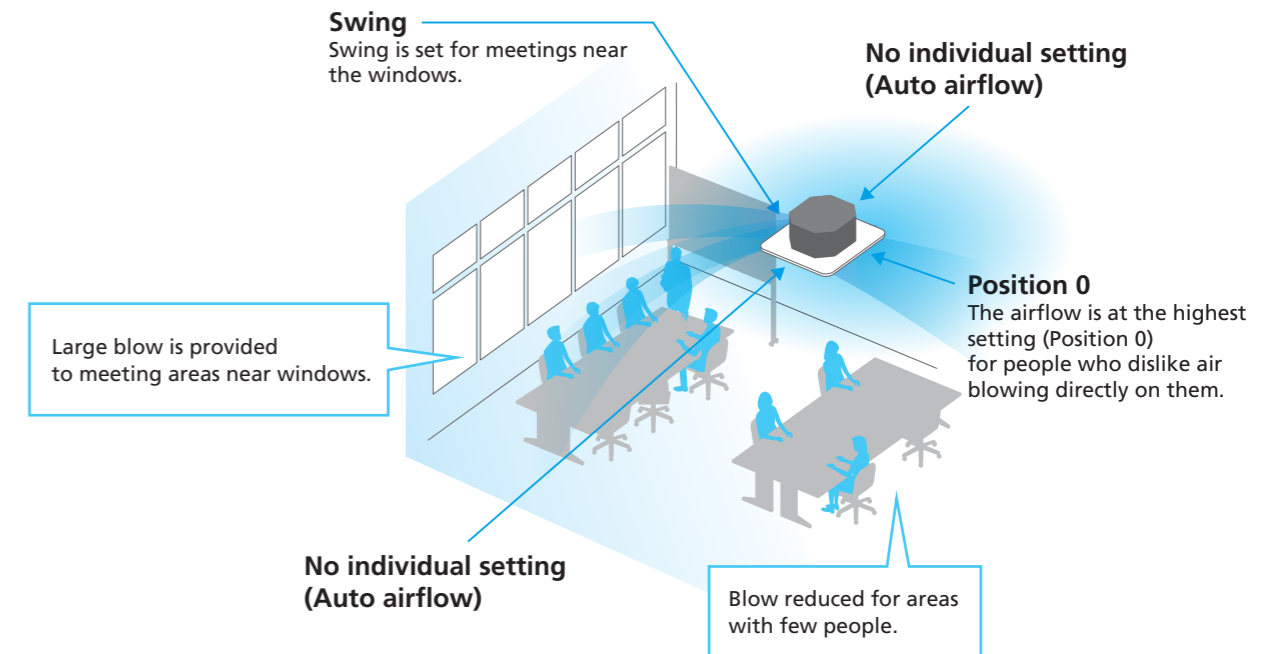
#### Individual airflow settings

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

Individual settings are possible as stated above.



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





# Round Flow Cassette with Sensing and Streamer Type

## Other functions

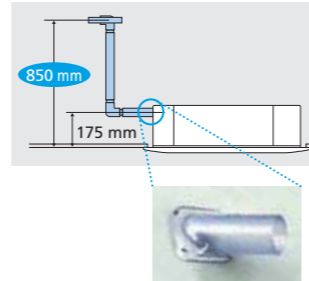
### Quick and easy installation

Installable in tight ceiling spaces

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

\* For FXFTQ25-80A models.

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



### Easy maintenance

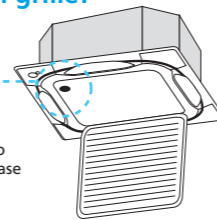
Drain pan and drain water check

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

Just open the suction grille!

Drain outlet (with rubber plug)

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



### Cleanliness

Silver ion anti-bacterial drain pan

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

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

Filter has anti-mould and antibacterial treatment



High Performance Prefilter (MERV 8) (Option)

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

BAF552A160



### Panel (Option)



Standard panel with sensing  
BYCQ125EEF (Fresh White)



Standard panel with sensing  
BYCQ125EEK (Black)

### Specifications

MODEL	FXFTQ25AV4	FXFTQ32AV4	FXFTQ40AV4	FXFTQ50AV4	FXFTQ63AV4	FXFTQ80AV4	FXFTQ100AV4	FXFTQ125AV4	FXFTQ140AV4
Power supply	1-phase, 220 V, 50 Hz								
Cooling capacity	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800
	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
Power consumption	kW	0.028	0.035	0.056	0.061	0.092	0.164	0.170	0.194
		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)	m <sup>3</sup> /min	13/12.5/11.5/11/10	17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
	cfm	459/441/406/388/353	600/477/441/424/388	812/724/671/512/388	830/741/706/565/477	865/777/724/706/530	1,183/1,077/953/830/741	1,218/1,112/1,006/900/812	1,253/1,147/1,041/935/812
Sound level (H/HM/M/ML/L)	dB(A)	30/29.5/28.5/28/27	35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35
Dimensions (HxWxD)	mm	256x840x840			298x840x840			298x840x840	
Machine weight	kg	19			22			25	
Piping connections	Liquid (Flare)	φ 6.4			φ 9.5				
	Gas (Flare)	φ 12.7			φ 15.9				
	Drain	VP25 (External Dia. 32/Internal Dia. 25)							

Notes: Specifications are based on the following conditions;

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

### Panel (Option)

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

### 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 Streamer Type

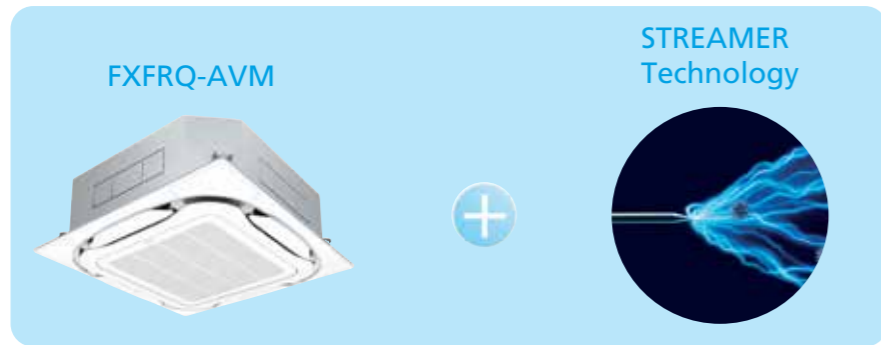
New FXFRQ-A

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



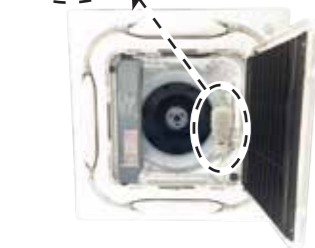
## Introducing Streamer technology to VRV Indoor unit

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



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

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.



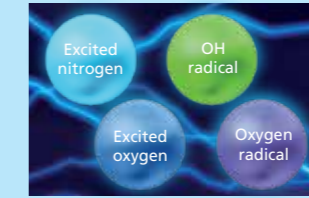
## Streamer Technology

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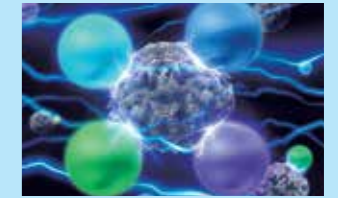
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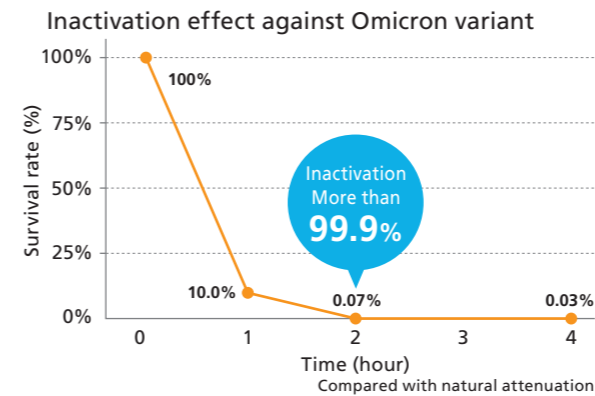


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#### Test Method

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#### Test Organization

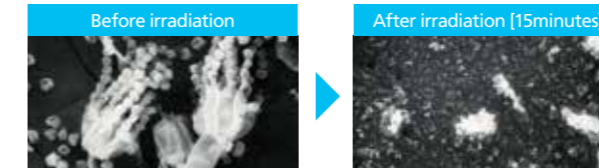
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#### Demonstration of mould

Picture of mould



#### Test Method

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

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### Why Daikin Streamer?

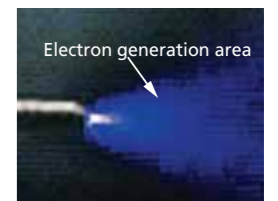
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Streamer, a type of plasma discharge, decomposes hazardous chemical substances. The decomposition power is comparable to thermal energy of about 100,000°C.\*

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



# Round Flow Cassette with Streamer Type

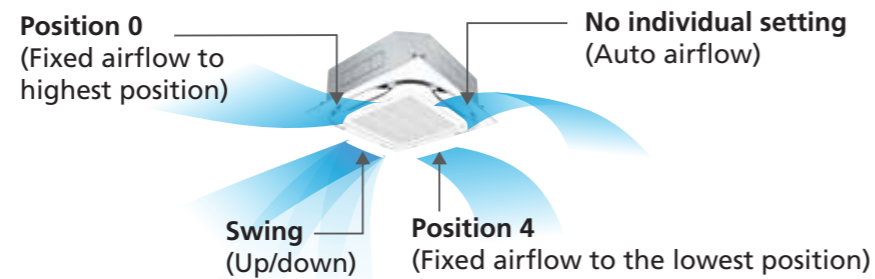
## Individual airflow direction control

### Comfortable air conditioning for all room layouts and conditions

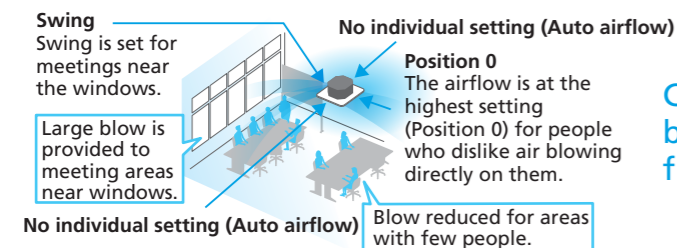
Easy setting is possible with a wired remote controller

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

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



Individual settings are possible as stated above.



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

## Other functions

### Quick and easy installation

Installable in tight ceiling spaces

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

\* For FXFRQ25-80A models.

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

### Easy maintenance

Drain pan and drain water check

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

### Cleanliness

Silver ion anti-bacterial drain pan

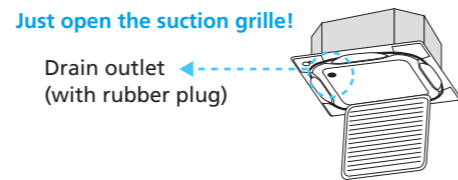
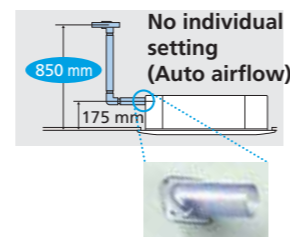
Prevents the growth of slime, bacteria, and mould that cause odours and clogging.

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

Filter has anti-mould and antibacterial treatment

High Performance Prefilter (MERV 8) (Option)

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



BAF552A160



### Decoration Panel (Option)

Standard panel



Standard panel  
BYCQ125EAF (Fresh White)



Standard panel  
BYCQ125EAK (Black)

New designer panel

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

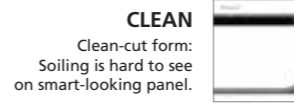


Designer panel  
BYCQ125EAPF (Fresh White)



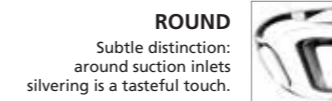
FLAT

Flatter styling:  
Suction panel grid  
texture smoothed.



CLEAN

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



ROUND

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

Close to ideal styling  
New designer panel

### Auto grille panel

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

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



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

### Specifications

MODEL	FXFRQ25AV4	FXFRQ32AV4	FXFRQ40AV4	FXFRQ50AV4	FXFRQ63AV4	FXFRQ80AV4	FXFRQ100AV4	FXFRQ125AV4	FXFRQ140AV4	
Power supply	1-phase, 220 V, 50 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
Power consumption	kW	0.029		0.036	0.040	0.063	0.096	0.158	0.178	0.203
		0.027		0.036	0.040	0.063	0.096	0.150	0.166	0.191
Casing	Galvanised steel plate									
Airflow rate (H/HM/M/L)	m <sup>3</sup> /min	13/12.5/11.5/11/10	17/13.5/13/12/11	18/17/13.5/12.5/11	21/20/16/15/13.5	22.5/21.5/21/20/15	32/29/26/23/21	33/30.5/28/25.5/21	35.5/32.5/29.5/26.5/23	
	cfm	459/441/406/388/353	600/477/459/424/388	635/600/477/441/388	741/706/565/530/477	794/759/741/706/530	1,130/1,024/918/812/741	1,165/1,077/988/900/741	1,253/1,147/1,041/935/812	
Sound level (H/HM/M/L)	dB(A)	30/29.5/28.5/28/27	35/33.5/29.5/28.5/27	35/33.5/29.5/28.5/27	36/35.5/31.5/31/28	37/36.5/36/35.5/29.5	43/40.5/37.5/35/33	44/41.5/39/36.5/33	46/43.5/40.5/38/35	
Dimensions (HxWxD)	mm	256x840x840						298x840x840		
Machine weight	kg	19			22		25		26	
Piping connections	Liquid (Flare)	φ 6.4			φ 9.5		φ 15.9			
	Gas (Flare)	φ 12.7			φ 15.9		φ 15.9			
	Drain	VP25 (External Dia. 32/Internal Dia. 25)								

Notes: Specifications are based on the following conditions;

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

### Panel (Option)

Standard panel	Model	BYCQ125EAF (Fresh White) / BYCQ125EAK (Black)	
	Dimensions(HxWxD)	mm	50x950x950
	Weight	kg	5.5
Designer panel	Model	BYCQ125EAPF (Fresh White)	
	Dimensions(HxWxD)	mm	97x950x950
	Weight	kg	6.5
Auto grille panel	Model	BYCQ125EBSF (Fresh White)	
	Dimensions(HxWxD)	mm	105x950x950
	Weight	kg	8

### Function List

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

# Round Flow Cassette with Sensing Type

FXFSQ-A

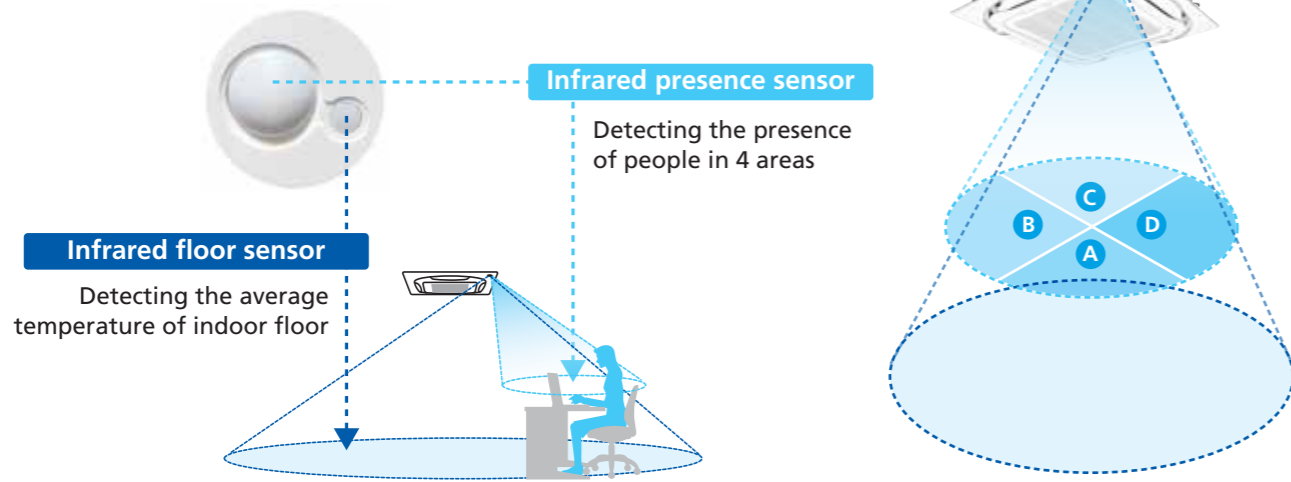
Comfort and energy saving by sensing functions



## Daikin advanced sensing technology dual sensors

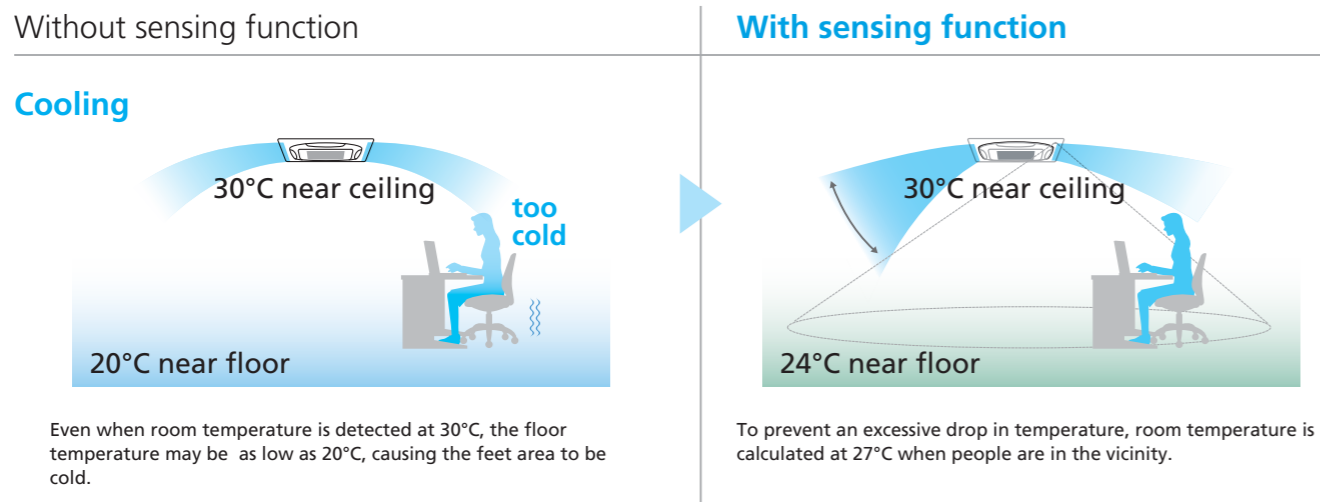
Round flow with sensing

Comfort and energy saving by sensing functions



### Comfort and energy saving preventing over cooling

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



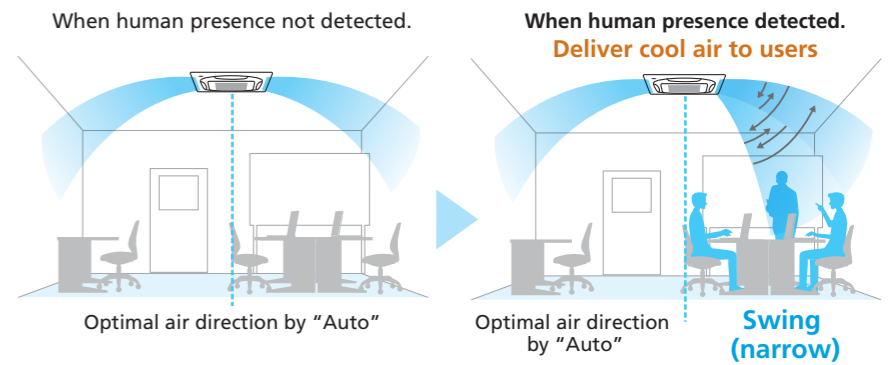
### Auto airflow function

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



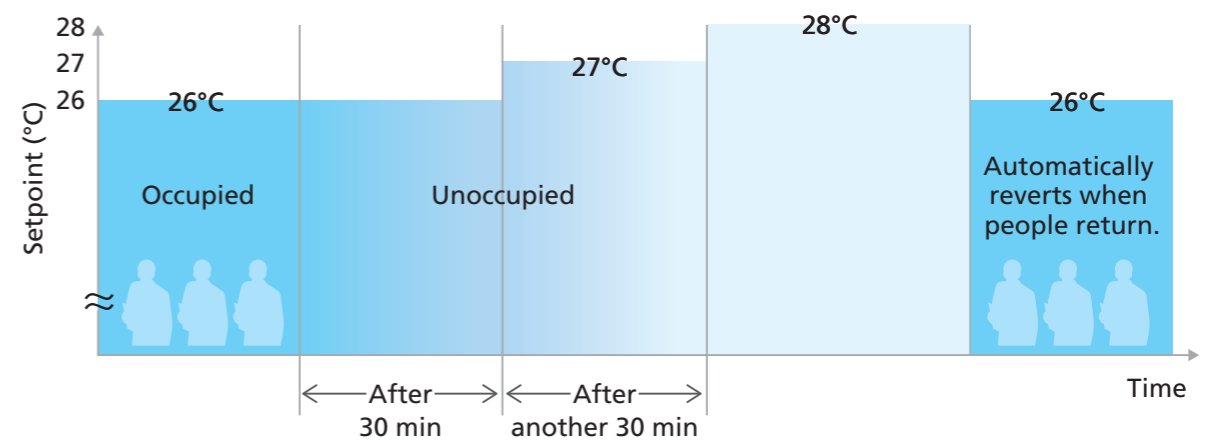
### Sensing sensor mode

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.

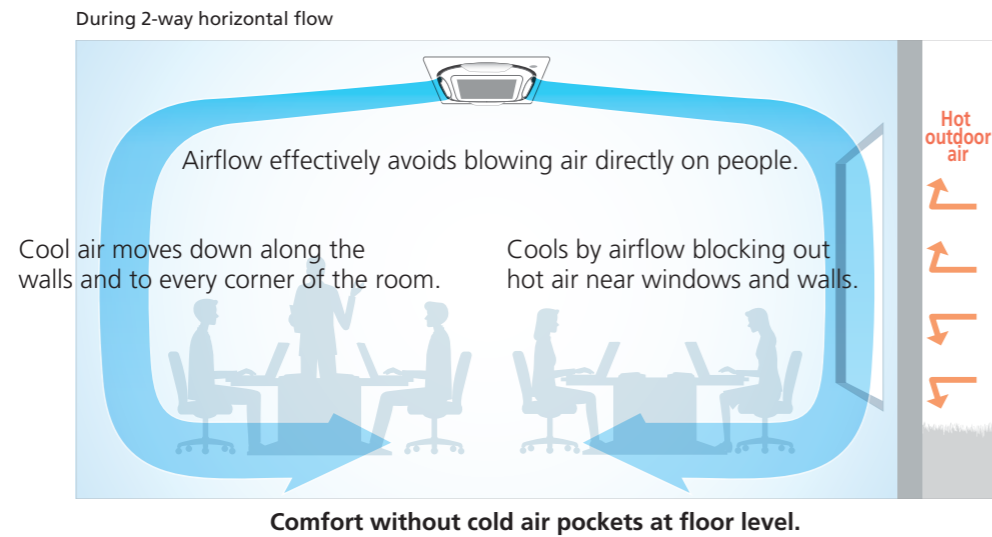
# Round Flow Cassette with Sensing Type

## Circulation airflow\*

### Configurations of circulation airflow

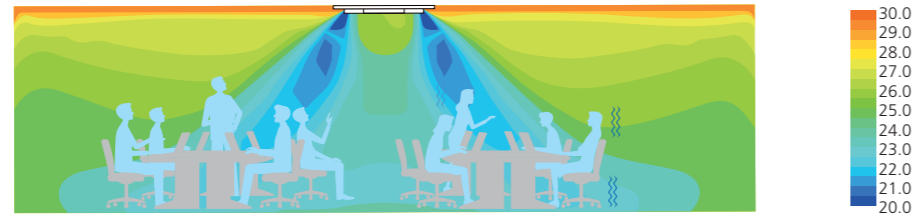
Circulation airflow cools the entire room to deliver comfort that never feels cold.

Cooling

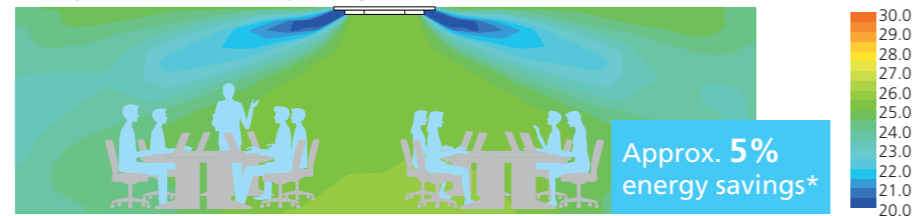


**Comparison Conditions**  
 Room size: Width 7.5m x depth 7.5m x height 2.6m  
 Indoor unit capacity: 71 class  
 Outdoor air temperature: 35°C  
 Airflow rate and air direction: high / swing

#### 4-way cassette (Swing)

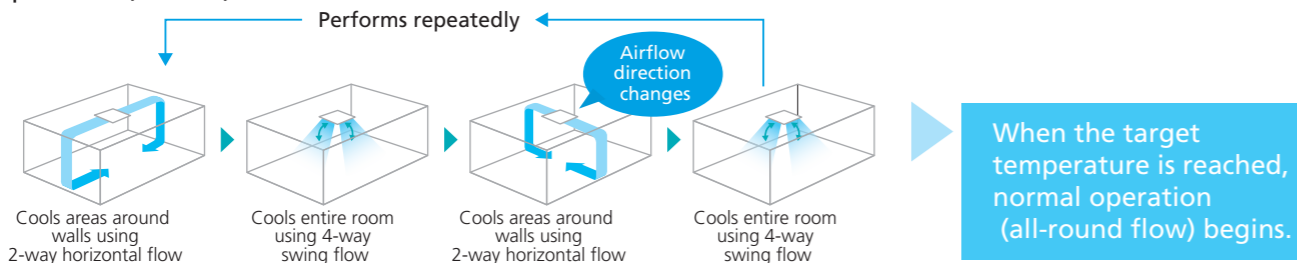


#### Circulation Airflow (2-way horizontal + 4-way swing)



\* Calculated 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)



## Individual airflow direction control

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

### Comfortable air conditioning for all room layouts and conditions

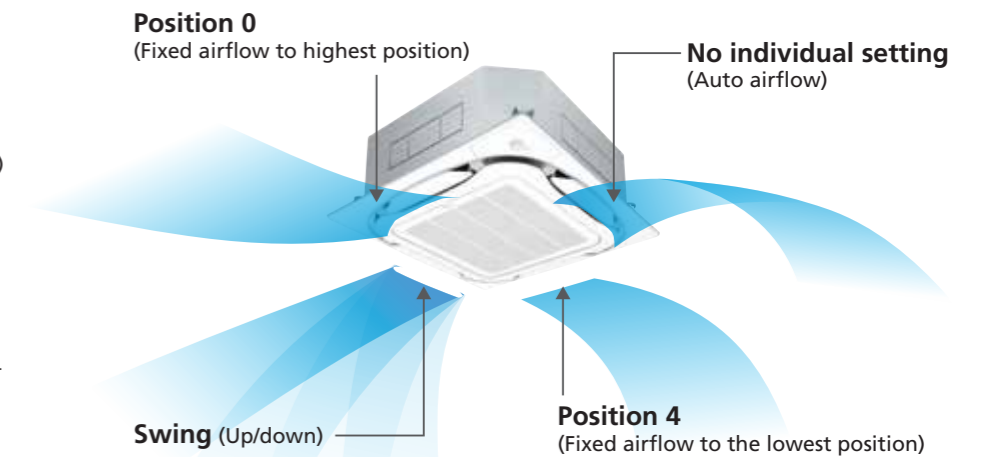
Easy setting is possible with a wired remote controller

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

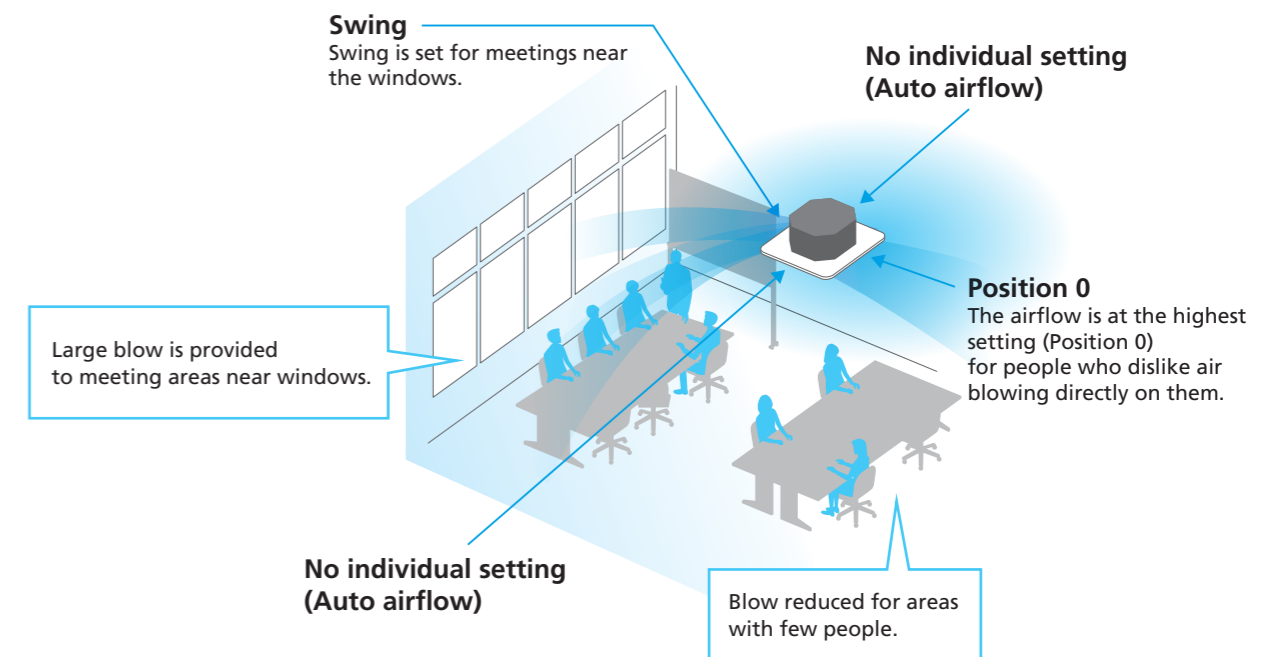
#### Individual airflow settings

- 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.

<p><b>All-round flow</b></p>  <p>(E.g., installed in middle of ceiling) 4-way flow also possible.</p>	<p><b>3-way flow</b></p>  <p>(E.g., installed near a wall)</p>	<p><b>L-shaped 2-way flow</b></p>  <p>(E.g., installed in a corner)</p>	<p><b>Opposite 2-way flow</b></p>  <p>(E.g., installed in a long room)</p>
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\* 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

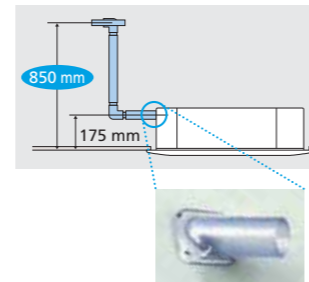
Even in spaces with high ceilings, a comfortable airflow is carried down to the floor level.

### 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

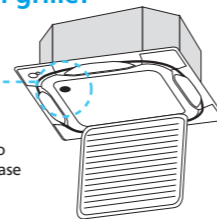
#### Drain pan and drain water check

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!

Drain outlet (with rubber plug)

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



### Cleanliness

#### Silver ion anti-bacterial drain pan

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

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

Filter has anti-mould and antibacterial treatment

#### High Performance Prefilter (MERV 8) (Option)

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



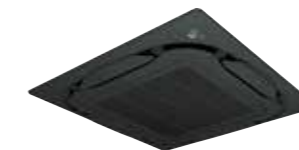
BAF552A160



### Panel (Option)



Standard panel with sensing  
BYCQ125EEF (Fresh White)



Standard panel with sensing  
BYCQ125EEK (Black)

### Specifications

MODEL		FXFSQ25AV4	FXFSQ32AV4	FXFSQ40AV4	FXFSQ50AV4	FXFSQ63AV4	FXFSQ80AV4	FXFSQ100AV4	FXFSQ125AV4	FXFSQ140AV4
Power supply		1-phase, 220-240 V, 50 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
Power consumption	kW	0.028		0.035	0.056	0.061	0.092	0.164	0.170	0.194
Casing		Galvanised steel plate								
Airflow rate (H/HM/M/ML/L)	m <sup>3</sup> /min	13/12.5/11.5/11/10		17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
	cfm	459/441/406/388/353		600/477/441/424/388	812/724/671/512/388	830/741/706/565/477	865/777/724/706/530	1,183/1,077/953/830/741	1,218/1,121/1,006/900/812	1,253/1,147/1,041/935/812
Sound level (H/HM/M/ML/L)	dB(A)	30/29.5/28.5/28/27		35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35
Dimensions (HxWxD)	mm	256x840x840						298x840x840		
Machine weight	kg	19			24	22		25	26	
Piping connections	Liquid (Flare)	φ 6.4				φ 9.5				
	Gas (Flare)	φ 12.7				φ 15.9				
	Drain	VP25 (External Dia. 32/Internal Dia. 25)								

Notes: Specifications are based on the following conditions:

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

### Panel (Option)

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

### Function List

Remote controller	Wired		Wireless
	BRC1E63	BRC1H63W(K)	BRC7M635F(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.

# Round Flow Cassette Type

FXFQ-A

360° airflow for improved comfort

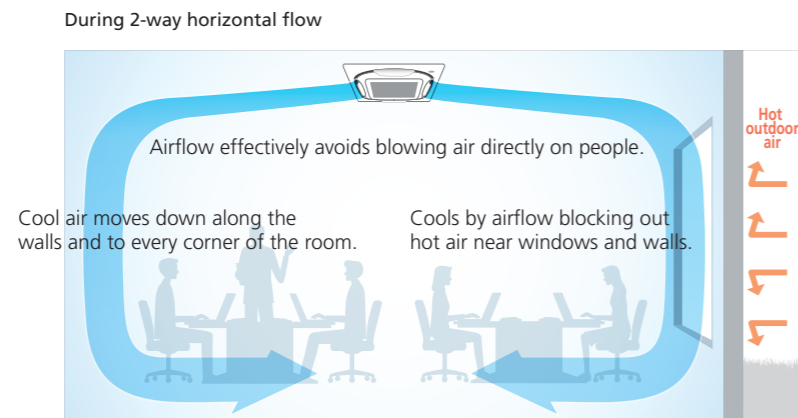


## Circulation airflow\*

### Configurations of circulation airflow

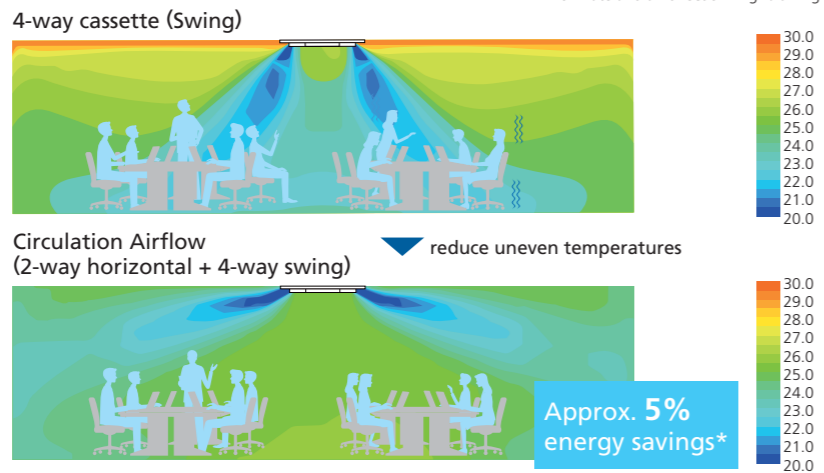
Circulation airflow cools the entire room to deliver comfort that never feels cold.

Cooling

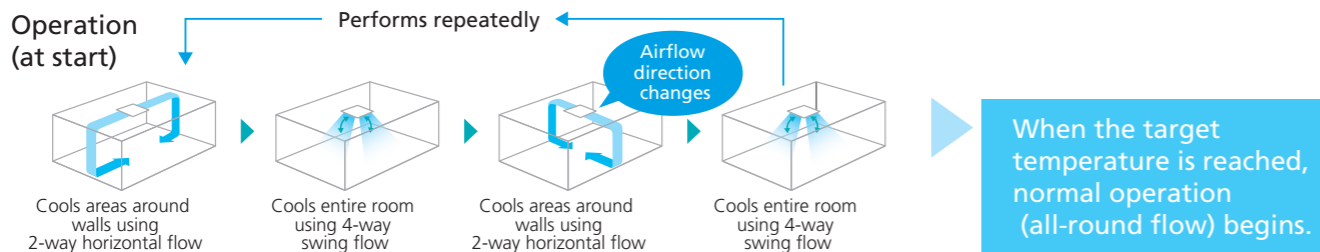


Comfort without cold air pockets at floor level.

**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



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



## Individual airflow direction control

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

### Comfortable air conditioning for all room layouts and conditions

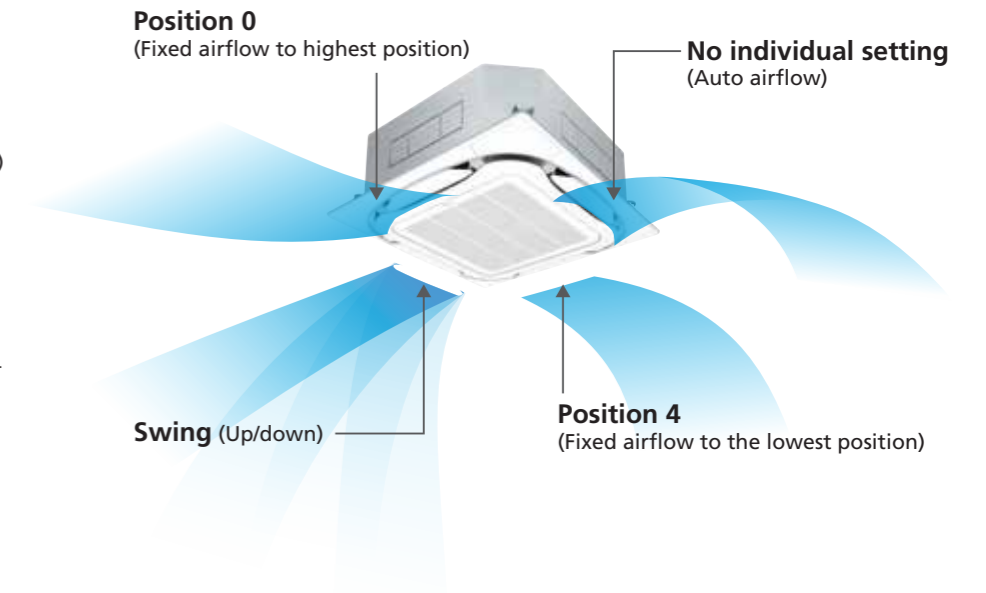
Easy setting is possible with a wired remote controller

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

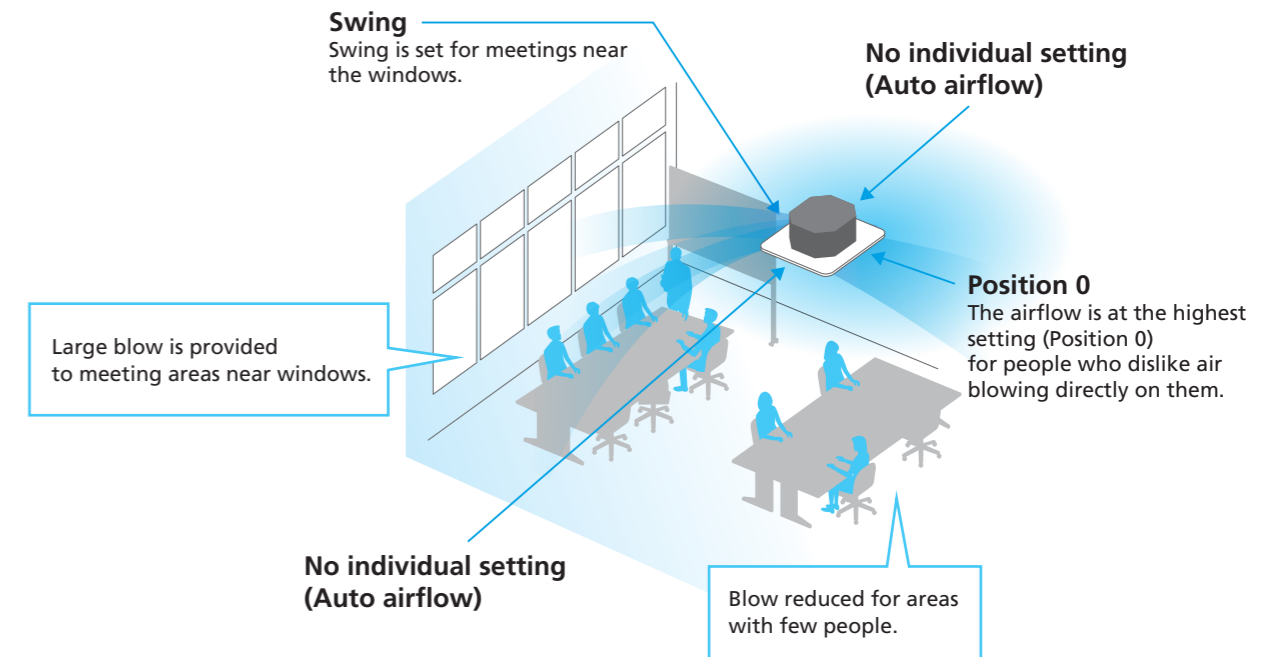
#### Individual airflow settings

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

Individual settings are possible as stated above.



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

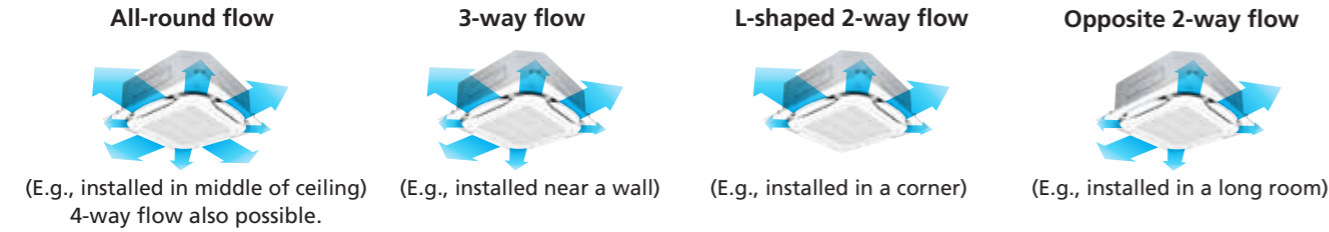


# Round Flow Cassette Type

## Other functions

### Comfort

From All-round flow to 2-way flow, various airflow patterns available.



\* Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing material (option) must be used to close each unused outlet.

### Suitable for high ceilings

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

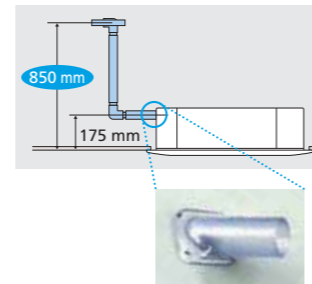
### Quick and easy installation

#### Installable in tight ceiling spaces

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

\* For FXFQ25-80A models.

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



### Easy maintenance

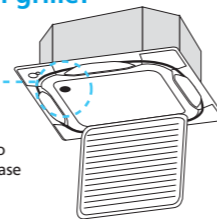
#### Drain pan and drain water check

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

Just open the suction grille!

Drain outlet (with rubber plug)

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



### Cleanliness

#### 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)

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



BAF552A160



### Decoration Panel (Option)

#### Standard panel



Standard panel  
BYCQ125EAF (Fresh White)



Standard panel  
BYCQ125EAK (Black)

#### New designer panel

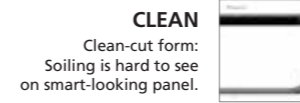
Designer choice has been given a boost with the increase in number of new types of decoration panels.



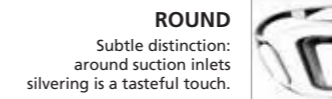
Designer panel  
BYCQ125EAPF (Fresh White)



**FLAT**  
Flatter styling:  
Suction panel grid  
texture smoothed.



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



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

Close to ideal styling  
New designer panel

### Auto grille panel

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

A dedicated remote controller for the auto grille panel is included. Operation is not possible using other remote controllers.



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

### Specifications

MODEL	FXFQ25AV4	FXFQ32AV4	FXFQ40AV4	FXFQ50AV4	FXFQ63AV4	FXFQ80AV4	FXFQ100AV4	FXFQ125AV4	FXFQ140AV4	
Power supply	1-phase, 220-240 V, 50 Hz									
Cooling capacity	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	
	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	
Power consumption	kW	0.029	0.036	0.040	0.063	0.096	0.158	0.178	0.203	
Casing	Galvanised steel plate									
Airflow rate (H/HM/M/ML)	m <sup>3</sup> /min	13/12.5/11.5/11/10	17/13.5/13/12/11	18/17/13.5/12.5/11	21/20/16/15/13.5	22.5/21.5/21/20/15	32/29/26/23/21	33/30.5/28/25/21	35.5/32.5/29.5/26.5/23	
	cfm	459/441/406/388/353	600/477/459/424/388	635/600/477/441/388	741/706/565/530/477	794/759/741/706/530	1,130/1,024/918/812/741	1,165/1,077/988/900/741	1,253/1,147/1,041/935/812	
Sound level (H/HM/M/ML)	dB(A)	30/29.5/28.5/28/27	35/29.5/29/28/27	35/33.5/29.5/28.5/27	36/35.5/31.5/31/28	37/36.5/36/35.5/29.5	43/40.5/37.5/35/33	44/41.5/39/36.5/33	46/43.5/40.5/38/35	
Dimensions (HxWxD)	mm	256x840x840						298x840x840		
Machine weight	kg	19			22		25		26	
	Liquid (Flare)	φ 6.4					φ 9.5			
Piping connections	Gas (Flare)	φ 12.7					φ 15.9			
	Drain	VP25 (External Dia. 32/Internal Dia. 25)								

Notes: Specifications are based on the following conditions;

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

### Decoration Panel (Option)

Standard panel	Model	BYCQ125EAF (Fresh White) / BYCQ125EAK (Black)	
	Dimensions(HxWxD)	mm	50x950x950
Weight	kg	5.5	
Designer panel	Model	BYCQ125EAPF (Fresh White)	
	Dimensions(HxWxD)	mm	97x950x950
Weight	kg	6.5	
Auto grille panel	Model	BYCQ125EBSF (Fresh White)	
	Dimensions(HxWxD)	mm	105x950x950
Weight	kg	8	

### Function List

Remote controller	Wired		Wireless
	BRC1E63	BRC1H63W(K)	BRC7M635F(K)
Circulation airflow	○	—	—
Individual airflow direction control	○	○	—
Switchable 5 step fan speed	○	○	○
Auto airflow rate	○	○	○
Auto swing	○	○	○
Selectable airflow pattern	○	○	○
High ceiling application	○	○	—



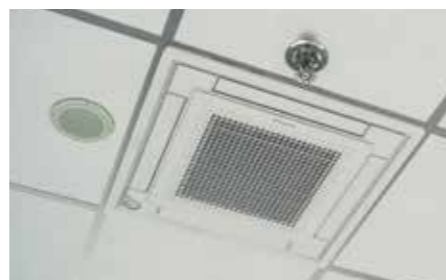
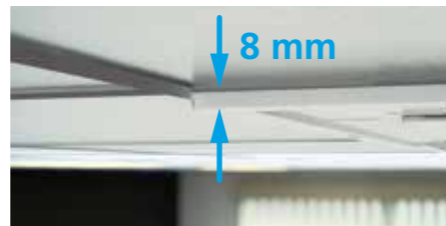
# Compact Multi Flow Cassette Type

**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 3-4

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



BAPW55A61

Remarks:

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

### Ceiling soiling prevention

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



## Specifications

MODEL		FXZQ20BVM4	FXZQ25BVM4	FXZQ32BVM4	FXZQ40BVM4	FXZQ50BVM4
Power supply		1 phase, 220-240V, 50 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
Power consumption	kW	0.043		0.045	0.059	0.092
Casing		Galvanised steel plate				
Airflow rate (H/M/L)	m <sup>3</sup> /min	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.5/12.5/10.0
	cfm	307/265/229	318/282/229	353/300/247	406/335/282	512/441/353
Sound level (H/M/L)	dB(A)	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
Sound power (H)	dB(A)	49	50	51	54	60
Dimensions (HxWxD)	mm	260x575x575 (For depth add 63 mm for electrical box)				
Machine weight	kg	15.5		16.5	18.5	
Piping connections	Liquid (Flare)	φ 6.4				
	Gas (Flare)	φ 12.7				
	Drain	VP20 (External Dia. 26/Internal Dia. 20)				

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°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.

## Panel (Option)

Panel type	Grid ceiling panel	Decoration panel
Appearance		
Model	BYFQ60CAW	BYFQ60B3W1
Colour	White (N9.5)	White (6.5Y9.5/0.5)
Dimensions (HxWxD)	mm 46x620x620	mm 55x700x700
Weight	kg 2.8	kg 2.7

# 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

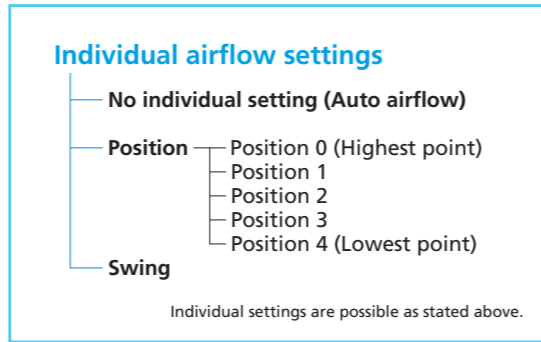
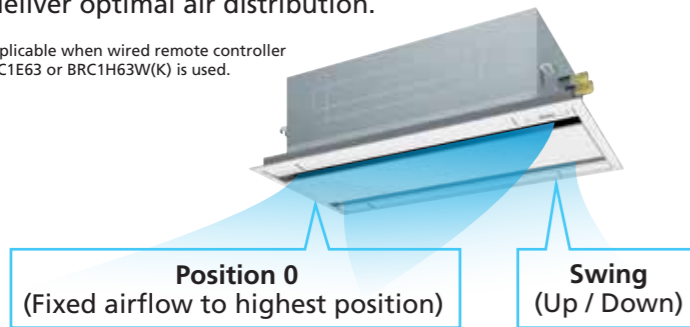


## Comfort

### 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.



### 5-step & auto airflow control

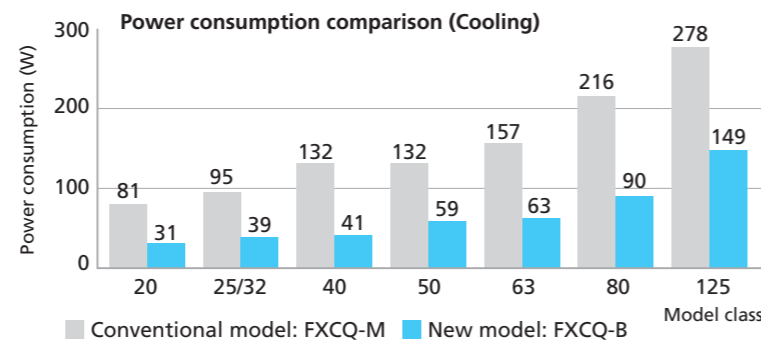
- Control of airflow rate has been improved from 3-step to 5-step. Auto airflow rate is newly available.

### Suitable for high ceilings

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

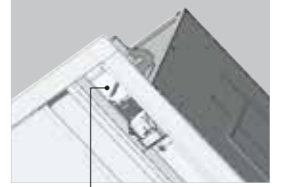
## Energy saving

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

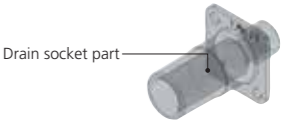


## Easy maintenance

- The flap parts are easy to clean because it is hard to condensate and get dirty.
- Check contamination in drain pan by simply removing suction grille and panel.
- Adjuster pockets mount at four corners of the unit enable to adjust the main unit without removing the panel.



Adjuster Pocket



Drain socket part

## Flexible installation

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

## Cleanliness

**New** Streamer filter clean unit (Option) See page 3-4

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	FXCQ20BVM4	FXCQ25BVM4	FXCQ32BVM4	FXCQ40BVM4	FXCQ50BVM4	FXCQ63BVM4	FXCQ80BVM4	FXCQ125BVM4	
Power supply	1-phase, 220-240V, 50 Hz								
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	47,800	
	kW	2.2	2.8	3.6	4.5	5.6	7.1	14.0	
Power consumption	kW	0.031	0.039	0.041	0.059	0.063	0.090	0.149	
Casing	Galvanised steel plate								
Airflow rate (H/HM/M/ML/L)	m <sup>3</sup> /min	10.5/9.5/9/8/7.5	11.5/10.5/9.5/8.5/8	12/11/10.5/9.5/8.5	15/14/13/11.5/10.5	16/15/14/12.5/11.5	26/24/22.5/20.5/18.5	32/29.5/27.5/25/22.5	
	cfm	37/33.5/31.8/28.2/26.5	40.6/37.1/33.5/30.0/28.2	42.4/38.8/37.1/33.5/30.0	53.0/49.4/45.9/40.6/37.1	56.5/53.0/49.4/44.1/40.6	91.8/84.7/79.4/72.4/65.3	1,130/1,041/971/883/794	
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 x W x D)	mm	305x775x620			305x990x620		305x1,445x620		
Machine weight	kg	19			22	25	33	38	
Piping connections	Liquid (Flare)	φ 6.4			φ 9.5				
	Gas (Flare)	φ 12.7			φ 15.9				
	Drain	External Dia. 32/Internal Dia. 25							
Panel (Option)	Model	BYBCQ40CF			BYBCQ63CF		BYBCQ125CF		
	Colour	Fresh white (6.5Y 9.5/0.5)							
	Dimensions (HxWxD)	55x1,070x700			55x1,285x700		55x1,740x700		
	Weight	10			11		13		

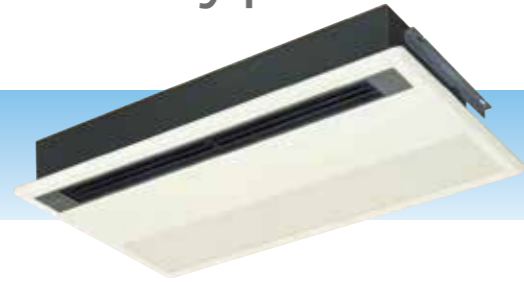
Notes: Specifications are based on the following conditions;

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

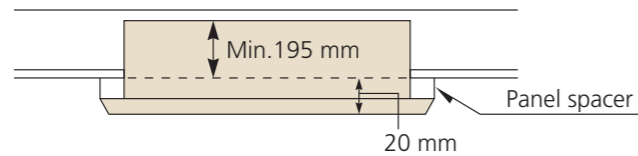
FXKQ-MA

Slim design for flexible installation



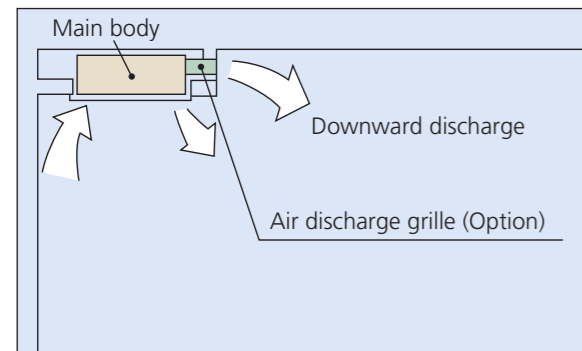
## Slim design

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

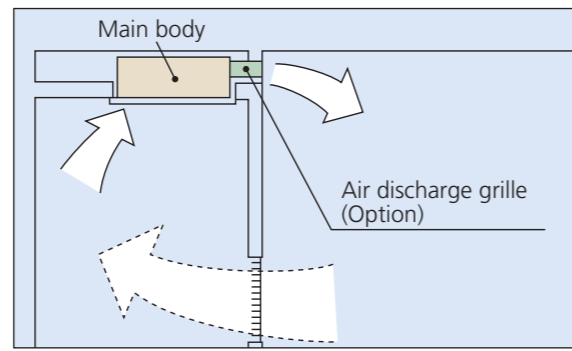


## Flexible installation

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



\*Set for front discharge using a suspended ceiling.



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

- Drain pump is equipped as standard accessory with 500 mm lift.



## Specifications

MODEL		FXKQ25MAVE4	FXKQ32MAVE4	FXKQ40MAVE4	FXKQ63MAVE4
Power supply		1-phase, 220-240 V, 50 Hz			
Cooling capacity	Btu/h	9,600	12,300	15,400	24,200
	kW	2.8	3.6	4.5	7.1
Power consumption	kW	0.066		0.076	0.105
Casing		Galvanised steel plate			
Airflow rate (H/L)	m <sup>3</sup> /min	11/9		13/10	18/15
	cfm	388/318		459/353	635/530
Sound level (H/L)	220 V	38/33		40/34	42/37
	240 V	40/35		42/36	44/39
Dimensions (HxWxD)	mm	215x1,110x710			215x1,310x710
Machine weight	kg	31			34
Piping connections	Liquid (Flare)	φ 6.4		φ 9.5	
	Gas (Flare)	φ 12.7		φ 15.9	
	Drain	VP25 (External Dia. 32/Internal Dia. 25)			
Panel (Option)	Model	BYK45FJW1			BYK71FJW1
	Colour	White (10Y9/0.5)			
	Dimensions (HxWxD)	70x1,240x800			70x1,440x800
	Weight	8.5			9.5

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.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

# Ceiling Mounted Cassette Duct Type

FXFDQ-A

Unprecedented flexibility with revolutionary air blow concept



## Design flexibility

Easier renovations for new tenants

- The airflow outlets can be easily moved and repositioned as desired. This makes the unit a perfect fit for any commercial space which requires frequent interior changes.



Cafe: Three airflow outlets are located in the customer area with one above the counter.



Office: Four airflow outlets are equally positioned throughout the office area.

Change of Application

## Creation of a sophisticated environment

- Ultra-slim profile where only the smooth flat panel is visible on the ceiling.
- Sleek finish creates a sophisticated, modern atmosphere.



## Comfort

### Elimination of temperature fluctuations

- Up to four airflow outlets can be added as desired, reducing the temperature fluctuations.

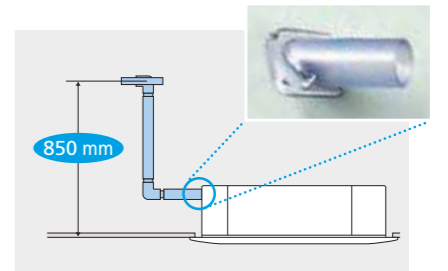
### 5-step & auto airflow control

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



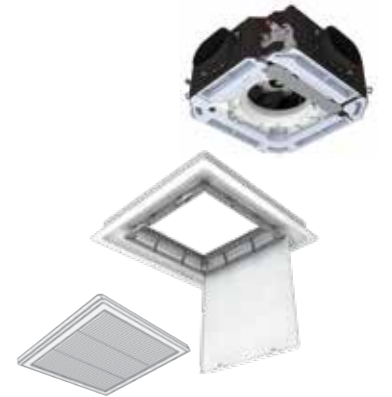
## Easy design & installation

- Save design cost by using flexible ducts, that require simpler calculations and installation.
- Airflow outlets can quickly be connected to the new indoor unit.
  - \* The required flexible ducts and diffusers should be obtained locally.
- Drain pump is equipped as standard accessory with 850 mm lift.



## Easy maintenance

- Maintenance staff can access the air filter and heat exchanger immediately by removing the flat panel. This streamlines servicing and cuts the time needed.



## 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.



## Specifications

Model name	FXFDQ63AV4	FXFDQ80AV4	FXFDQ100AV4	FXFDQ125AV4
Power supply	1-phase, 220 V, 50 Hz			
Cooling capacity	Btu/h	24,200	30,700	38,200
	kW	7.1	9.0	11.2
Power consumption*1	kW	0.063	0.096	0.158
Casing	Galvanised steel plate			
Airflow rate (H/HM/M/ML/L)*1	m <sup>3</sup> /min	21/20/16/15/13.5	22.5/21.5/21/20/15	32/29/26/23/21
	cfm	741/706/565/530/477	794/759/741/706/530	1,130/1,024/918/812/741
External static pressure	Pa	20 to 40 (Rated 30)*2		
Sound level (H/HM/M/ML/L)*1	dB (A)	40/38.5/37/35.5/34	43/41.5/40/38.5/37	46.5/45/43.5/42/40.5
Dimensions (HxWxD)	mm	298x840x840		
Machine weight	kg	26		
Piping connections	Liquid (Flare)	φ9.5		
	Gas (Flare)	φ15.9		
	Drain	VP25 (External dia. 34/Internal dia. 25)		
Panel (Option)	Model	BYCDQ125APF		
	Colour	White (N9.5)		
	Dimensions (HxWxD)	mm 110x950x950		
	Weight	kg 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.  
 • 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 conditions of rated external static pressure (30 Pa).  
 \*2. External static pressure is changeable to set by the remote controller. (Factory setting is 30 Pa.)

# Bedroom Duct Type

FXDBQ-A

Suitable for close living spaces such as hotels and condominiums



## Installation flexibility

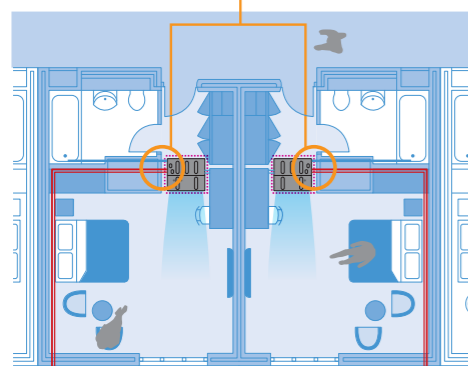
### Only 700 mm width

- Installation is possible even in narrow entrance ways at hotels and condominiums.



### Mirror piping

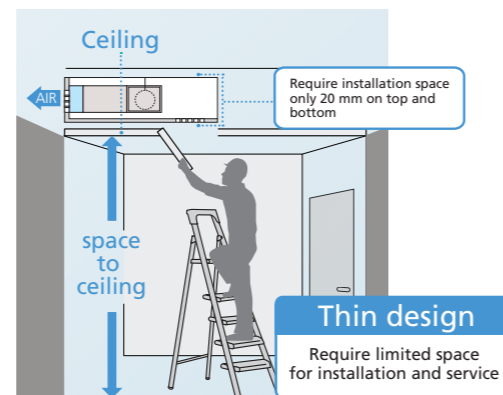
- Allows pipe installation from either side of indoor unit, simplified design process and installation.



## Easy maintenance

### 1-stop service space

- Requires minimum spaces for installation and maintenance can be done from only one inspection access.



### Easier and faster cleaning

- In conventional model, the parts need to be removed one by one in order. However in new model, the integrated fan motor can be removed and reinstalled in one time.



### Easy access to control box from bottom side

- All wiring is simplified to control box, so maintenance can be done from bottom side.



## Energy efficiency & comfort

- Control of airflow rate can be selected from 5-step and Auto to provide comfortable airflow.
- Quiet operation 27 dB(A) in L tap for the FXDBQ40/63



## Specifications

MODEL	FXDBQ40AVM4	FXDBQ50AVM4	FXDBQ63AVM4	FXDBQ80AVM4	
Power supply	1-phase, 220-240 V, 50 Hz				
Cooling capacity	Btu/h	15,400	19,100	24,200	30,700
	kW	4.5	5.6	7.1	9.0
Power consumption*1	kW	0.062	0.080	0.090	0.120
Casing	Galvanized steel plate				
Airflow rate (H/HM/M/ML/L)	m <sup>3</sup> /min	13.3/12/10.5/10/8.5	14.8/13/11.5/10.5/9	22/19/18/16/14.5	25/22/20/18/16
	cfm	470/424/371/353/300	522/459/406/371/318	777/671/635/565/512	883/777/706/635/565
External static pressure	Pa	15-50 (15)*2			
Sound level (H/HM/M/ML/L)*1	dB(A)	35/33/31/29/27	37/36/33/31/28	35/33/31/29/27	37/35/34/32/30
Dimensions (HxWxD)	mm	245x700x800		245x1,000x800	
Machine weight	kg	26		36	
Piping connections	Liquid (Flare)	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.  
 • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.  
 \*1: Power consumption values are based on conditions of rated external static pressure.  
 \*2: External static pressure is changeable to set by the remote controller. These values indicate the lowest and highest possible static pressures. The rated static pressure is 15 Pa.

# Slim Duct (Standard) Type

FXDQ-PD / ND

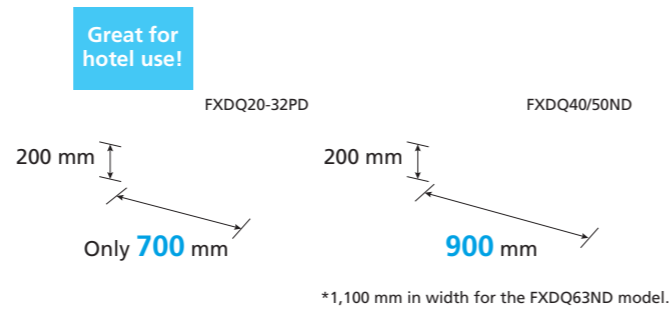
Slim design, quietness and ideal for drop-ceilings

## Comfort

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

## Installation flexibility

- Only 200 mm in height, this model can be installed in rooms with as little as 240 mm in height for the ceiling space between the drop-ceiling and ceiling slab.
- FXDQ-PD and FXDQ-ND models are available in two types to suit different installation conditions.



FXDQ-PD/NDVE4: with a drain pump (750 mm lift) as a standard accessory  
 FXDQ-PD/NDVT4: without a drain pump

## Specifications

MODEL	with drain pump	FXDQ20PDVE4	FXDQ25PDVE4	FXDQ32PDVE4	FXDQ40NDVE4	FXDQ50NDVE4	FXDQ63NDVE4	
	without drain pump	FXDQ20PDVT4	FXDQ25PDVT4	FXDQ32PDVT4	FXDQ40NDVT4	FXDQ50NDVT4	FXDQ63NDVT4	
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	
Power consumption (FXDQ-PD/NDVE4) *1	kW	0.086		0.089	0.160	0.165	0.181	
Power consumption (FXDQ-PD/NDVT4) *1	kW	0.067		0.070	0.147	0.152	0.168	
Casing	Galvanised steel plate							
Airflow rate (HH/H/L)	m <sup>3</sup> /min	8.0/7.2/6.4		10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0		
	cfm	282/254/226		371/335/300	441/388/353	583/512/459		
External static pressure	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	
Dimensions (HxWxD)	mm	200x700x620		200x900x620		200x1,100x620		
Machine weight	kg	23		27	28	31		
Piping connections	Liquid (Flare)	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.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- \*1: Values are based on the following conditions: FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: external static pressure of 15 Pa.
- \*2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ-PD models and 15 Pa for FXDQ-ND models.)
- \*3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

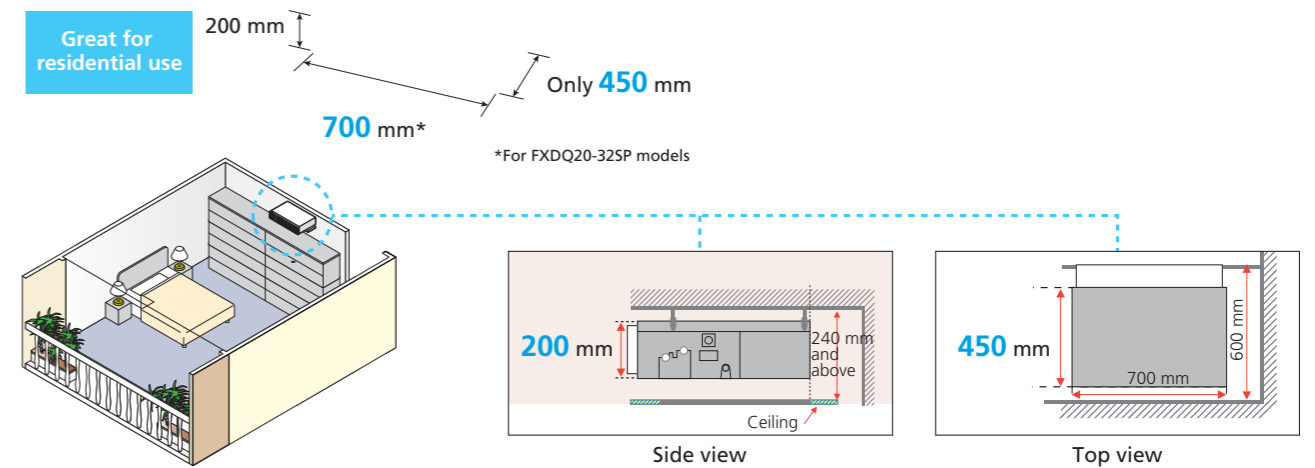
# Slim Duct (Compact) Type

FXDQ-SP

Slim and compact design for easy and flexible installation

## Installation flexibility

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



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

## Specifications

MODEL	FXDQ20SPV14	FXDQ25SPV14	FXDQ32SPV14	FXDQ40SPV14	FXDQ50SPV14	FXDQ63SPV14	
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
Power consumption *1	kW	0.072	0.075	0.078	0.180		0.196
Casing	Galvanised steel plate						
Airflow rate (HH/H/L)	m <sup>3</sup> /min	8.7/7.6/6.5	9.0/8.0/7.0	10.0/9.0/8.0	15.0/13.0/10.5		20.0/16.0/12.5
	cfm	307/268/229	318/282/247	353/318/282	530/459/371		706/565/441
External static pressure	Pa	30-10 *2			50-20 *2		40-20 *2
Sound level (HH/H/L) *1 *3	dB(A)	33/31/29		34/32/30	35/33/31		37/35/33
Dimensions (HxWxD)	mm	200x700x450			200x900x450		200x1,100x450
Machine weight	kg	17			20		23
Piping connections	Liquid (Flare)	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 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.

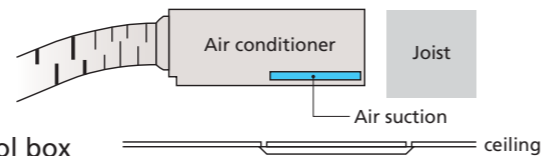


### Standard DC drain pump

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

### Bottom suction possible

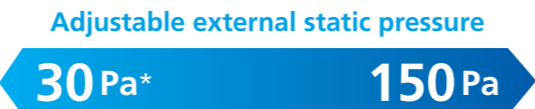
- Bottom suction is possible which facilitates installation and maintenance. Wiring connections and maintenance of control box can be done from under the unit with an optional shield plate for side plate.



## 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.

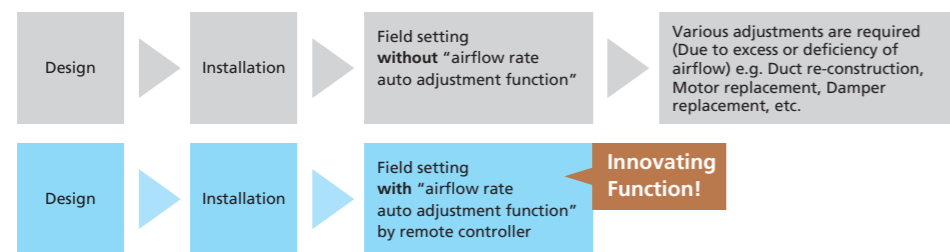


\* 30 Pa-150 Pa for FXSQ20-40PAV4  
50 Pa-150 Pa for FXSQ50-125PAV4  
50 Pa-140 Pa for FXSQ140PAV4

## Easy installation

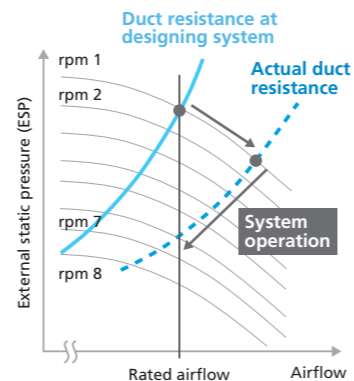
### "Airflow rate auto adjustment function" at field setting (local setting by remote controller)

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



<Mechanism>

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



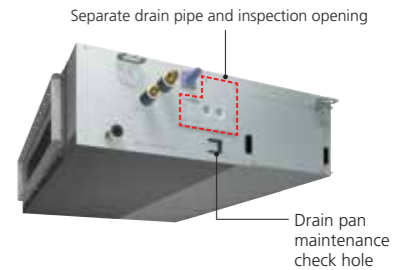
Notes: "Airflow rate auto adjustment function" can be adjusted within ±10% of rated airflow. (Refer to Engineering Data Book for details)  
"Airflow rate auto adjustment function" should be used at field setting only.

## 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	FXSQ20PAV4	FXSQ25PAV4	FXSQ32PAV4	FXSQ40PAV4	FXSQ50PAV4	
Power supply	1-phase, 220-240 V, 50 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
Power consumption	kW	0.058*1		0.066*1	0.101*1	0.075*1
Casing	Galvanised steel plate					
Airflow rate (H/M/L)	m <sup>3</sup> /min	9/7.5/6.5		9.5/8/7	15/12.5/10.5	17/14.5/11.5
	cfm	318/265/230		335/282/247	530/441/371	600/512/406
External static pressure	Pa	30-150 (50) *2				50-150 (50) *2
Sound level (H/M/L)	dB(A)	33/30/28		34/32/30	36/33/30	34/32/29
Dimensions (HxWxD)	mm	245x550x800			245x700x800	245x1,000x800
Machine weight	kg	25		27	35	
Piping connections	Liquid (Flare)	φ 6.4				
	Gas (Flare)	φ 12.7				
	Drain	VP25 (External Dia. 32/Internal Dia. 25)				

MODEL	FXSQ63PAV4	FXSQ80PAV4	FXSQ100PAV4	FXSQ125PAV4	FXSQ140PAV4	
Power supply	1-phase, 220-240 V, 50 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
Power consumption	kW	0.106*1	0.126*1	0.151*1	0.206*1	0.222*1
Casing	Galvanised steel plate					
Airflow rate (H/M/L)	m <sup>3</sup> /min	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26	39/33.5/28
	cfm	741/618/512	812/688/565	1,130/953/794	1,306/1,112/918	1,377/1,183/988
External static pressure	Pa	50-150 (50) *2				50-140 (50) *2
Sound level (H/M/L)	dB(A)	36/32/29	37.5/34/30	39/35/32	42/38.5/35	43/40/36
Dimensions (HxWxD)	mm	245x1,000x800		245x1,400x800	245x1,550x800	
Machine weight	kg	35	37	46	47	52
Piping connections	Liquid (Flare)	φ 9.5				
	Gas (Flare)	φ 15.9				
	Drain	VP25 (External Dia. 32/Internal Dia. 25)				

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

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

\*2: External static pressure can be modified using a remote controller that offers thirteen (FXSQ20-40PA), eleven (FXSQ50-125PA) or ten (FXSQ140PA) levels of control. These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa.

# Middle-High Static Pressure Duct Type

## FXMQ-PA

Middle and high static pressure allows for flexible duct design



## Design flexibility

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

Adjustable external static pressure

30 Pa\* 200 Pa

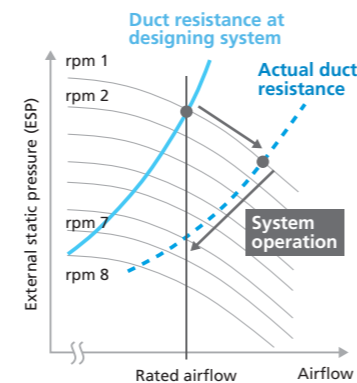
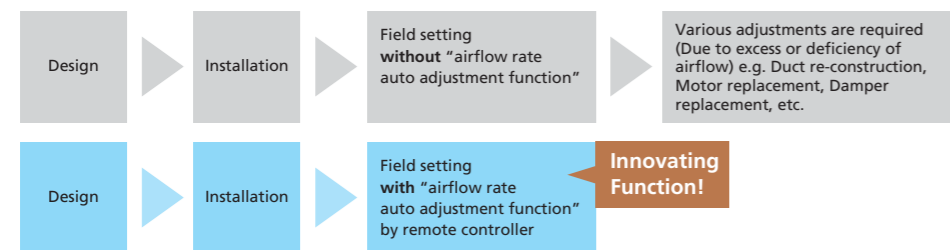
\*30 Pa – 100 Pa for FXMQ20PA-32PA  
 \*30 Pa – 160 Pa for FXMQ40PA  
 \*50 Pa – 200 Pa for FXMQ50PA-125PA  
 \*50 Pa – 140 Pa for FXMQ140PA



## Easy installation

“Airflow rate auto adjustment function” at field setting (local setting by remote controller)

\*This function is not available with FXMQ140PAV4.  
 \*This function can only be set via wired remote controller.



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

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

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

## Comfort

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

## Energy saving

- DC fan motor is used to realise energy-saving operation.

## Easy maintenance

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

Separate drain pipe and inspection opening



Drain pan maintenance check hole

## Cleanliness

Silver ion anti-bacterial drain pan

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

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



Filter has anti-mould and antibacterial treatment

## Specifications

MODEL	FXMQ20PAV4	FXMQ25PAV4	FXMQ32PAV4	FXMQ40PAV4	FXMQ50PAV4
Power supply	1-phase, 220-240 V, 50 Hz				
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400
	kW	2.2	2.8	3.6	4.5
Power consumption	0.056 *1		0.060 *1	0.151 *1	0.128 *1
Casing	Galvanised steel plate				
Airflow rate (HH/H/L)	m <sup>3</sup> /min	9/7.5/6.5	9.5/8/7	16/13/11	18/16.5/15
	cfm	318/265/230	335/282/247	565/459/388	635/582/530
External static pressure	30-100 (50) *2			30-160 (100) *2	50-200 (100) *2
Sound level (HH/H/L)	33/31/29		34/32/30	39/37/35	41/39/37
Dimensions (HxWxD)	300x550x700			300x700x700	300x1,000x700
Machine weight	25		27	35	
Piping connections	Liquid (Flare)	φ 6.4			
	Gas (Flare)	φ 12.7			
	Drain	VP25 (External Dia. 32/Internal Dia. 25)			

MODEL	FXMQ63PAV4	FXMQ80PAV4	FXMQ100PAV4	FXMQ125PAV4	FXMQ140PAV4
Power supply	1-phase, 220-240 V, 50 Hz				
Cooling capacity	Btu/h	24,200	30,700	38,200	47,800
	kW	7.1	9.0	11.2	14.0
Power consumption	0.138 *1		0.185 *1	0.215 *1	0.405 *1
Casing	Galvanised steel plate				
Airflow rate (HH/H/L)	m <sup>3</sup> /min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28
	cfm	688/618/565	883/794/706	1,130/953/812	1,377/1,165/988
External static pressure	50-200 (100) *2				
Sound level (HH/H/L)	42/40/38		43/41/39	44/42/40	46/45/43
Dimensions (HxWxD)	300x1,000x700			300x1,400x700	
Machine weight	35		45	46	
Piping connections	Liquid (Flare)	φ 9.5			
	Gas (Flare)	φ 15.9			
	Drain	VP25 (External Dia. 32/Internal Dia. 25)			

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- \*1: Power consumption values are based on conditions of rated external static pressure.
- \*2: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32PA), thirteen (FXMQ40PA), fourteen (FXMQ50-125PA) or ten (FXMQ140PA) levels of control. These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa for FXMQ20-32PA and 100 Pa for FXMQ40-140PA.



# High Static Pressure Duct Type

FXMQ-P

High static pressure allows for flexible duct design.



## Design flexibility

### Adjustable external static pressure

- Using a DC fan motor, the external static pressure can be controlled within a range of 50 Pa to 250 Pa.



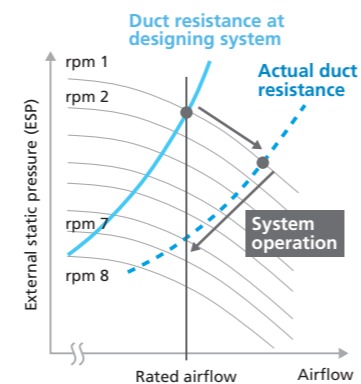
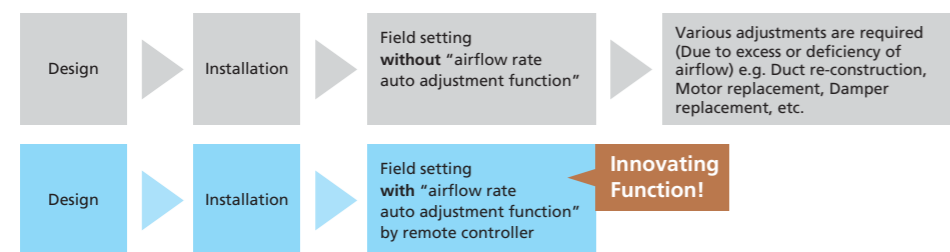
Adjustable external static pressure

50 Pa 250 Pa

## Easy installation

### "Airflow rate auto adjustment function" at field setting (local setting by remote controller)

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

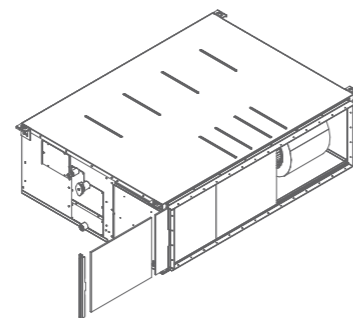


- <Mechanism>
- During field setting, power input of DC fan is detected.
  - External static pressure is estimated from power input of DC fan because PCB of FXMQ-P has table of external static pressure vs. power input of DC fan.
  - Actual duct resistance is calculated according to 1 and 2.
  - Fan speed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

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

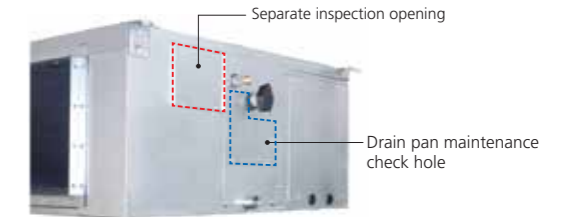
### Built-in pre-filter slot

- To cater for easy installation of filter at site, a filter rail is available at the return flange.

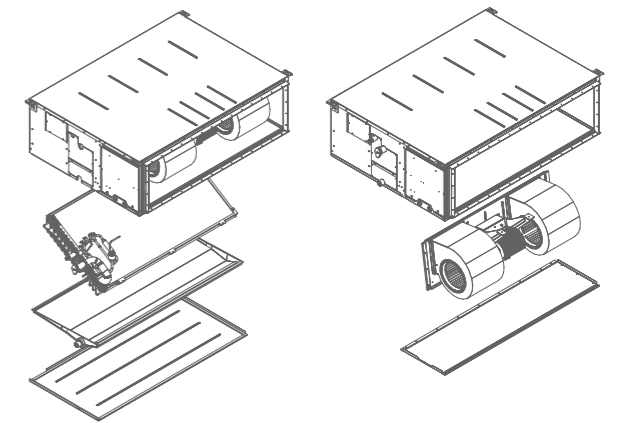


## Easy maintenance

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



- Heat exchanger, drain pan and fan deck can be easily accessed and removed from bottom for maintenance.



## Specifications

MODEL		FXMQ200PVM	FXMQ250PVM
Power supply		1-phase, 220-240 V, 50 Hz	
Cooling capacity	Btu/h	76,400	95,500
	kW	22.4	28.0
Power consumption	kW	0.55 *1	0.67 *1
Casing		Galvanised steel plate	
Airflow rate (HH/H/L)	m <sup>3</sup> /min	74/61/50	84/71/58
	cfm	2,612/2,153/1,765	2,965/2,506/2,047
External static pressure	Pa	50-250 (150) *2	50-250 (150) *2
Sound level (HH/H/L)	dB(A)	42/38/35	44/40/37
Dimensions (H x W x D)		470x1,490x1,100	
Machine weight		95	
Piping connections	Liquid (Flare)	φ 9.5	
	Gas (Flange)	φ 19.1	
	Drain	BSP1"	

- Notes: Specifications are based on the following conditions;
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
  - Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
  - Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- \*1: Power consumption values are based on conditions of rated external static pressure.  
\*2: External static pressure can be modified using a remote controller that offers fifteen levels of control. These values indicate the lowest and highest possible static pressures. The standard static pressure is 150 Pa.

# Ceiling Suspended Type

**New** FXHQ-MA / B

FXHQ32 / 63 / 100MA

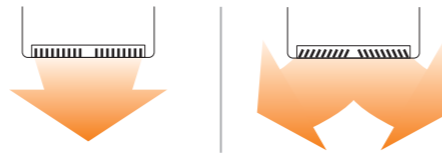
**New** FXHQ125 / 140B

Slim body with quiet and wide airflow



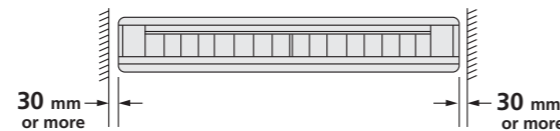
## Comfort

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

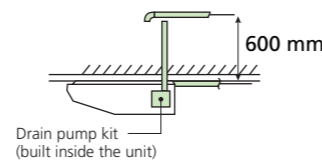


## Installation flexibility

- Flexible installation  
The unit fits more snugly into tight spaces.
- Drain pump kit (option) can be easily incorporated.  
Drain pipe connection can be done inside the unit.  
Refrigerant and drain pipe outlets are at the same opening.
- All wiring and internal servicing can be done from under the unit.

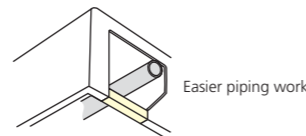


\*Water used in the test-run can be drained from the air discharge opening rather than from the side as was formerly the case.



## New 125 / 140 models provide greater capacity for large spaces

- The technology of the DC fan motor, wide sirocco fan, and large heat exchanger combine for greater airflow and quiet operation.
- Sophisticated design: Flap neatly closes when not in use.
- Suitable for high ceilings: maximum 4.3 m
- Control of the airflow rate can be selected from 3-step control.
- Drain pump kit (option) includes a silver ion antibacterial agent that assists in preventing the growth of slime, bacteria, and mould that cause smells and clogging.
- The rear side removable frame allows ease of access for piping work.



## Cleanliness

**New** Streamer filter clean unit (Option) for new 125 / 140 models See page 3-4

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.



BAPW55A61



## Specifications

MODEL	FXHQ32MAV7	FXHQ63MAV7	FXHQ100MAV7	FXHQ125BVM4	FXHQ140BVM4	
Power supply	1-phase, 220-240 V, 50 Hz					
Cooling capacity	Btu/h	12,300	24,200	38,200	48,000	52,900
	kW	3.6	7.1	11.2	14.1	15.5
Power consumption	kW	0.111	0.115	0.135	0.168	0.181
Casing	White (10Y9/0.5)			Sheet Metal / White		
Airflow rate (H/M/L)	m <sup>3</sup> /min	12/-/10	17.5/-/14	25/-/19.5	34/26/20	36/27/20
	cfm	424/-/353	618/-/494	883/-/688	1,200/918/706	1,271/953/706
Sound level (H/M/L)	dB(A)	36/-/31	39/-/34	45/-/37	46/41/37	48/42/37
Dimensions (H x W x D)	mm	195x960x680	195x1,160x680	195x1,400x680	235x1,590x690	
Machine weight	kg	24	28	33	41	
Piping connections	Liquid (Flare)	φ 6.4	φ 9.5			
	Gas (Flange)	φ 12.7	φ 15.9			
	Drain	VP20 (External Dia. 26/Internal Dia. 20)				

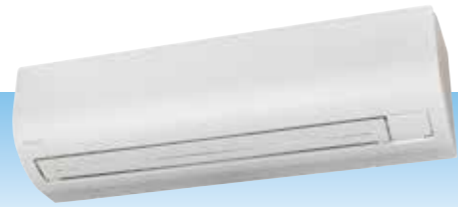
Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- 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)\*
- An ideal solution for a wide range of commercial spaces, including individual office spaces.

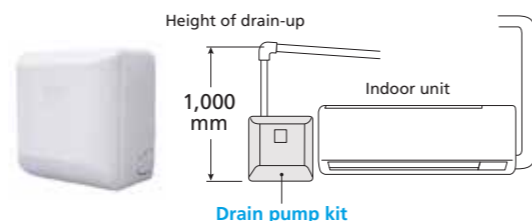
\*Sound level for FXAQ20-32A

## 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.



## Specifications

MODEL		FXAQ20AVM4	FXAQ25AVM4	FXAQ32AVM4	FXAQ40AVM4	FXAQ50AVM4	FXAQ63AVM4
Power supply		1-phase, 220 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
Power consumption	kW	0.040	0.040	0.040	0.050	0.060	0.100
Casing		Resin / White N9.5					
Airflow rate (H/L)	m <sup>3</sup> /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
	cfm	321/247	332/247	346/247	431/342	530/424	671/494
Sound level (H/L)	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
Dimensions (H x W x D)	mm	290x795x266			290x1,050x269		
Machine weight	kg	12			15		
Piping connections	Liquid (Flare)	φ 6.4					φ 9.5
	Gas (Flange)	φ 12.7					φ 15.9
	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.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

# Floor Standing Type

## FXLQ-MA

Suitable for perimeter zone air conditioning



- Floor Standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.
- The adoption of a fibre-less discharge grille featuring an original design to prevent condensation also helps prevent staining and makes cleaning easier.
- A long-life filter (maintenance free up to one year\*) is equipped as standard accessory.  
\*8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m<sup>3</sup>

### Specifications

MODEL		FXLQ20MAVE4	FXLQ25MAVE4	FXLQ32MAVE4	FXLQ40MAVE4	FXLQ50MAVE4	FXLQ63MAVE4
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
Power consumption	kW	0.049		0.090		0.110	
Casing		Ivory white (5Y7.5/1)					
Airflow rate (H/L)	m <sup>3</sup> /min	7/6		8/6	11/8.5	14/11	16/12
	cfm	247/212		282/212	388/300	494/388	565/424
Sound level (H/L)	220 V	35/32			38/33	39/34	40/35
	240 V	37/34			40/35	41/36	42/37
Dimensions (H x W x D)	mm	600x1,000x222		600x1,140x222		600x1,420x222	
Machine weight	kg	25		30		36	
Piping connections	Liquid (Flare)	φ 6.4				φ 9.5	
	Gas (Flare)	φ 12.7				φ 15.9	
	Drain	210.D.					

Notes: Specifications are based on the following conditions;

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

# Concealed Floor Standing Type

## FXNQ-MA

Designed to be concealed in the perimeter skirting-wall



- The unit is concealed in skirting-wall of perimeter, that enables to create high class interior design.
- The connecting port faces downward, greatly facilitating on-site piping work.
- A long-life filter (maintenance free up to one year\*) is equipped as standard accessory.  
\*8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m<sup>3</sup>

### Specifications

MODEL		FXNQ20MAVE4	FXNQ25MAVE4	FXNQ32MAVE4	FXNQ40MAVE4	FXNQ50MAVE4	FXNQ63MAVE4
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
Power consumption	kW	0.049		0.090		0.110	
Casing		Galvanised steel plate					
Airflow rate (H/L)	m <sup>3</sup> /min	7/6		8/6	11/8.5	14/11	16/12
	cfm	247/212		282/212	388/300	494/388	565/424
Sound level (H/L)	220 V	35/32			38/33	39/34	40/35
	240 V	37/34			40/35	41/36	42/37
Dimensions (H x W x D)	mm	610x930x220		610x1,070x220		610x1,350x220	
Machine weight	kg	19.0		23.0		27.0	
Piping connections	Liquid (Flare)	φ 6.4				φ 9.5	
	Gas (Flare)	φ 12.7				φ 15.9	
	Drain	210.D.					

Notes: Specifications are based on the following conditions;

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

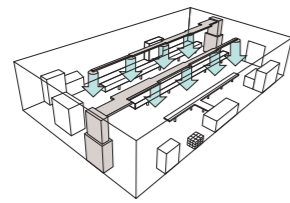
# Floor Standing Duct Type

FXVQ-N

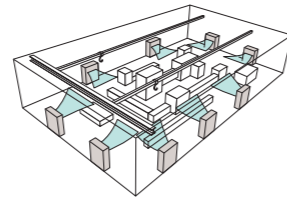
Large airflow type for large spaces



- Full-scale duct connection airflow allows for air conditioning evenly in spacious areas.



Duct connection airflow type



Direct airflow type

- Adding the plenum chamber (option) allows for simple operation with direct airflow.

\*Note that the operation sound increases by approximately 5dB(A).

- The belt drive system allows for use of air discharge outlets in various shapes as well as long ducts.

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

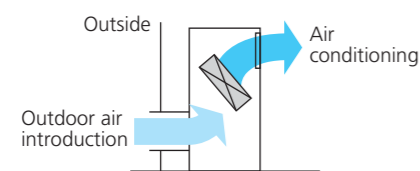
\*8 hr/day, 26 day/month. For dust concentration of 0.15 mg/m<sup>3</sup>

- A wide range of optional accessories are available such as high-efficiency filters.

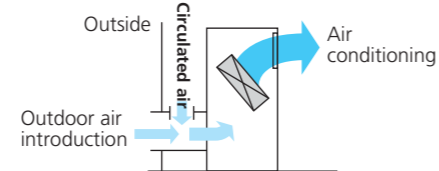
- Outdoor air intake mode is useable as an outdoor-air processing air conditioner.

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

All-fresh (using outdoor air only) system



Return + Outdoor air mixed system



\* Air introduced from the outside and circulated air must be mixed in the air conditioner primary side before introduction into the air conditioner.



## Specifications

MODEL		FXVQ125NY14	FXVQ200NY14	FXVQ250NY14	FXVQ400NY14	FXVQ500NY14
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz				
Cooling capacity	Btu/h	47,800	76,400	95,500	154,000	191,000
	kW	14.0	22.4	28.0	45.0	56.0
Power consumption	kW	0.53	1.33	1.61	3.97	2.62
Casing colour		Ivory white (5Y7.5/1)				
Dimensions (H x W x D)	mm	1,670x750x510	1,670x950x510	1,670x1,170x510	1,900x1,170x720	1,900x1,470x720
Machine weight	kg	118	144	169	236	281
Sound level *1	dB(A)	52	56	60	65	62
Piping connections	Liquid	mm	φ 9.5 (Brazing)		φ 12.7 (Brazing)	φ 15.9 (Brazing)
	Gas	mm	φ 15.9 (Brazing)	φ 19.1 (Brazing)	φ 22.2 (Brazing)	φ 28.6 (Brazing)
	Drain	mm	Rp1 (PS 1B internal thread)			
Air filter	Type	Long-life filter (anti-mould resin net)				
Fan	Motor output	kW	0.75	1.5		3.7
	Airflow rate	m <sup>3</sup> /min	43	69	86	134
		cfm	1,518	2,436	3,036	4,730
	External static pressure *2	Pa	152	217	281	420
Drive system		Belt drive system				

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- \*1: Sound level : measured when the air discharge outlet duct (2 m) is attached (anechoic chamber conversion value). It increases by approximately 5 dB(A) when the plenum chamber is installed to deliver direct airflow.
- \*2: The value is the external static pressure with standard pulley.

# Clean Room Air Conditioner

FXB(P)Q-P

Suitable for hospitals and other clean spaces



■ Easily provides the high cleanliness environment required by various industries

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

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

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

Instances of installation by type (for a hospital)

Type	Ceiling intake type (high speed contracted flow/high ceiling model)	Floor-level intake type (gentle wind distribution/high cleanliness class model)
Features	Construction work is simple and a ceiling installation is possible. Dust filtering and air-conditioning can be started immediately.	Easy to increase the cleanliness and air-conditioning effect. A low flow speed prevents drying of the affected part and the experience of drafts.
Cleanliness class*1	100,000 to 10,000	10,000
Wind speed	1.0 m/s or higher	Approximately 0.5 m/s
Blow method	<p>Integrated outlet unit model</p> <ul style="list-style-type: none"> <li>Concentrated air conditioning centered directly under the unit</li> <li>Easy installation</li> </ul> <p>Applications: Surgery prep rooms, recovery rooms, nurse stations, etc.</p>	<p>Floor-level intake type (sourced locally)</p> <ul style="list-style-type: none"> <li>Total air conditioning with an emphasis on cleanliness</li> </ul> <p>Applications: Operating theatres, delivery rooms, etc.</p>
	<p>Separate outlet unit model</p> <ul style="list-style-type: none"> <li>Somewhat concentrated air conditioning centered directly under the outlet</li> <li>Can provide air conditioning in rooms with irregular shapes</li> </ul> <p>Applications: CCU*2, sterile rooms, etc.</p>	<p>Floor-level intake type (sourced locally)</p> <ul style="list-style-type: none"> <li>Total air conditioning with an emphasis on cleanliness</li> <li>Maintenance possible from a different room</li> </ul> <p>Applications: Premature nurseries, newborn nurseries, ICU*3, etc.</p>

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

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

The floor-level intake system has a low flow speed of approximately 0.5 m/s.

■ Filtration

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

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

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

■ Antibacterial

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

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

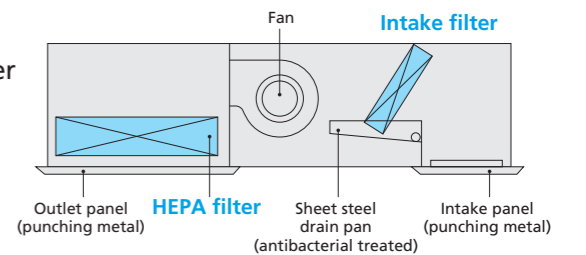
This enhances the antibacterial properties of the duct.

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

Antibacterial fiber used in the intake filter

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

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



Specifications

Type	Integrated outlet unit model				Separate outlet unit model
	Indoor unit	FXBQ40PVE4	FXBQ50PVE4	FXBQ63PVE4	
MODEL	Outlet unit	Integrated with the indoor unit			BAFH82A63
Power supply		1-phase, 220-240 V, 50 Hz			
Cooling capacity	Btu/h	15,400	19,100		24,200
	kW	4.5	5.6		7.1
Power consumption	kW	0.31			0.45
Intake filter efficiency *1		70% by gravimetric method			
Outlet HEPA filter efficiency *2		99.97% by DOP method *5			
Indoor unit weight	kg	140 *3		185 *3	120 *6
Casing		Galvanised steel plate			
Airflow rate (H/L)	m <sup>3</sup> /min	19.5/17.5			26/22.5
	cfm	688/618			918/794
Sound level (H/L) *4	dB(A)	44/42			
Dimensions (HxWxD)	mm	492x1,788x1,000		492x1,788x1,300	492x1,078x1,300
Outlet unit weight	kg	65 *3			
Piping connections	Liquid (Flare)	φ 6.4			φ 9.5
	Gas (Flare)	φ 12.7			φ 15.9
	Drain	PT1B			
Filter(Optional)	HEPA filter	BAFH82A50		BAFH82A63	
Panel (Option)	Ceiling intake type	BYB82A50C		BYB82A63C	BYB82A63CP
	Floor-level intake type	BYB82A50W		BYB82A63W	BYB82A63WP

Notes: Specifications are based on the following conditions:  
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.  
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 \*1: An intake air filter is only attached to the ceiling intake type.  
 \*2: HEPA filter sold separately. The dust collection efficiency of HEPA filter is 99.97%. However, air may slightly leak around the filter when installing.  
 \*3: Weight including HEPA filter and panel.  
 \*4: Anechoic chamber conversion value under JIS B 8616 test conditions. Value usually increases slightly in practice due to surrounding conditions.  
 \*5: The clean room air conditioner does not support DOP testing (leak test) based on GMP standards (Standards for Manufacturing Control and Quality Control for Medical Devices) due to slight leakage at time of product installation.  
 \*6: Weight including panel.  
 \*In the case of an installation in an operating theatre etc. where an air conditioner malfunction may have serious consequences, please build in redundancy with two or more outdoor units.



Because the ceiling intake type provides concentrated air conditioning that blows directly under the outlet. Accordingly, please be aware of the following.

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

Use the floor-level intake type in the following kind of locations.

- Locations in which heating of the lower part or the entire room is important.
- Locations necessitating a particularly high cleanliness factor and in which there are many people.

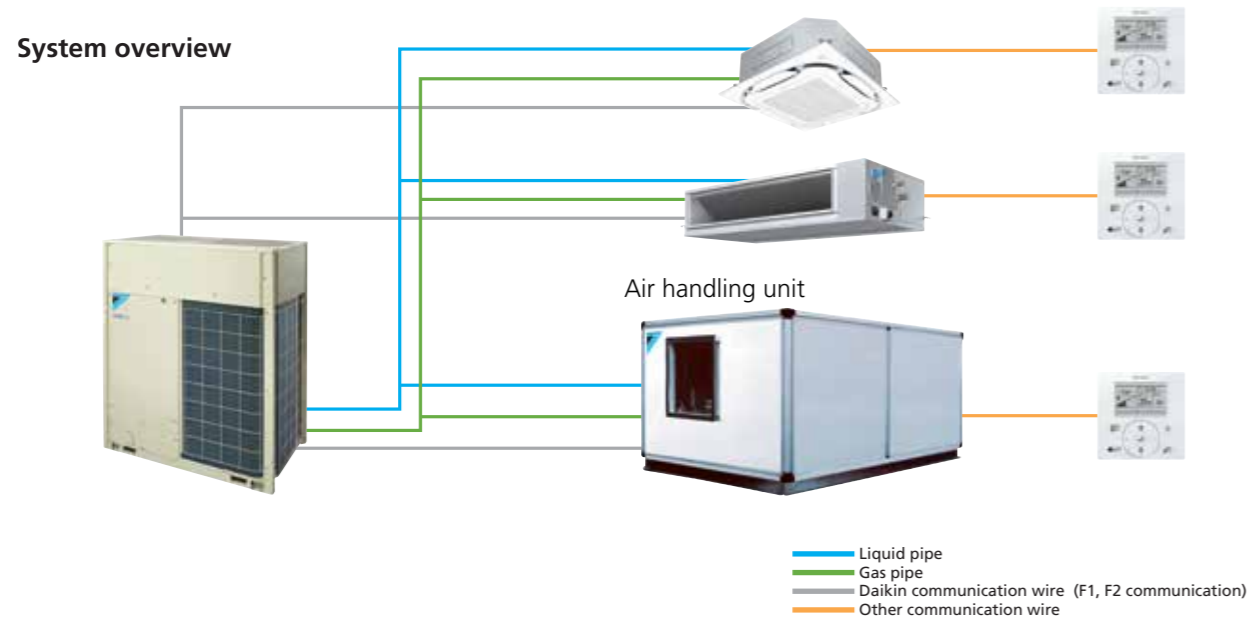
# Air Handling Unit

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

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



AHUR  
Capacity range : 6 – 120 HP



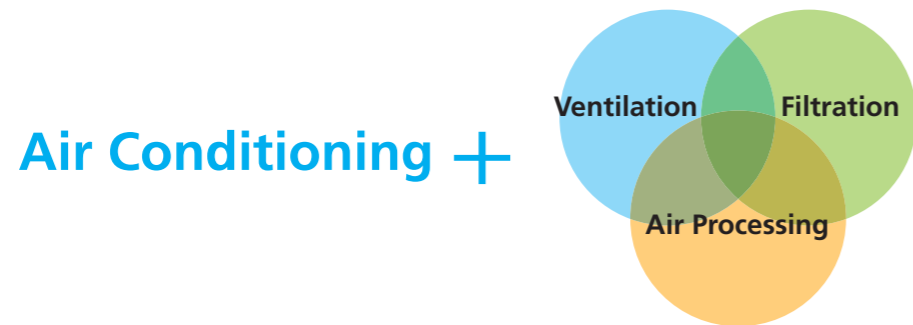
Daikin air handling units can be connected to **VRV** systems. This combination can be built to order as a system. Outdoor air series is also possible. Please contact your local sales office for details.



# Air Treatment Equipment

Daikin's air treatment systems creating a higher IAQ

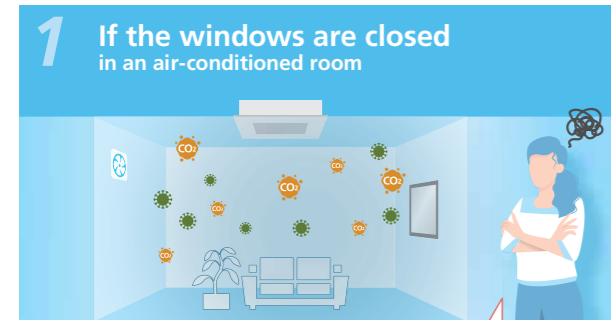
Components of indoor air quality



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

## Our Solutions for Indoor Air Quality Problems

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



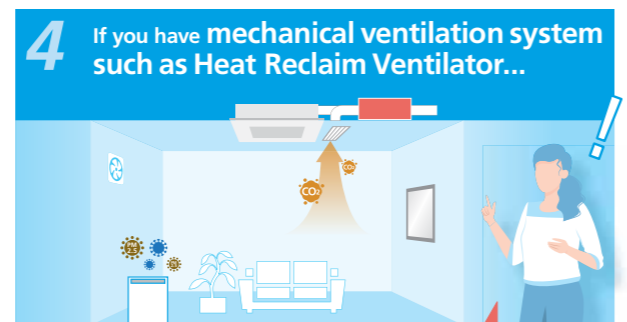
Virus and CO<sub>2</sub> will accumulate in the room.



PM2.5 and humidity will come in, and it will become hot.



Air conditioning regulates heat and humidity, and air purifier can remove PM2.5, but CO<sub>2</sub> remains high. It is hard to concentrate.



Finally, the CO<sub>2</sub> has been removed, and a comfortable space has been achieved!

Ventilation equipment can be selected according to suit purpose and circumstances

	Outdoor Air Processing Unit		Heat Reclaim Ventilator	
	FXMQ-MF series	FXMQ-BF 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	Available
PM2.5 Filter (Option)	—	—	Available	Available
MERV8/14 Filter (Option)	—	Available	—	—
Airflow Rate	1,080 - 2,100 m <sup>3</sup> /h	690 - 2,160 m <sup>3</sup> /h	500 - 950 m <sup>3</sup> /h	150 - 2,000 m <sup>3</sup> /h

\*1. Optional filter is necessary. Refer to option list for details.

\*2. Refers to bringing outdoor air to near indoor temperature and delivering to a room.

## Ventilation class

Class 1 Ventilation	Class 2 Ventilation	Class 3 Ventilation
Installing a Heat Reclaim Ventilator enables mechanical ventilation to control both air supply and air exhaust while ensuring continuous room comfort through the supply of temperature-controlled air.	Mechanical ventilation is used for air supply, and natural ventilation is used for air exhaust. This prevents dirty outdoor air from entering and maintains a clean environment even for large spaces.	Natural ventilation is used for air supply, and mechanical ventilation is used for air exhaust. Odours and steam generated indoors are eliminated before spreading to other areas.



# Air Treatment Equipment

## Outdoor-Air Processing Unit (Discharge Air Temperature Control Type)

### FXMQ-MF Series

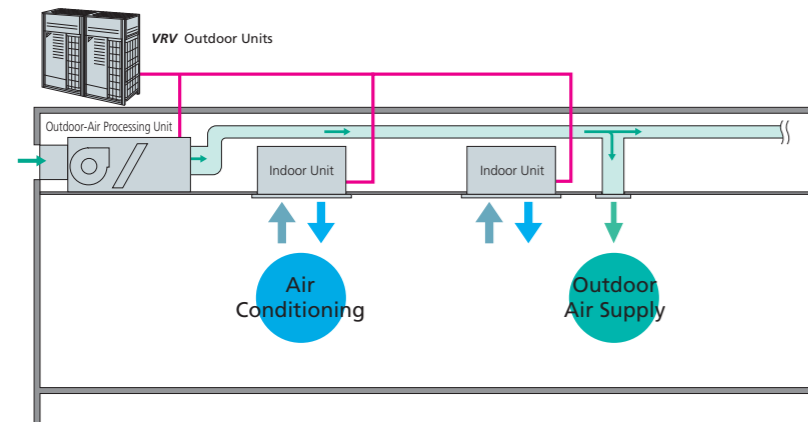
Combine fresh air treatment and air conditioning, supplied from a single system.



Fresh air treatment and air conditioning can be achieved with a single system. VRF indoor units for air conditioning and an outdoor-air processing unit can be connected to the same refrigerant line.

#### Lineup

Model Name	FXMQ125MFV7	FXMQ200MFV7	FXMQ250MFV7
Capacity index	125	200	250
Airflow rate	1,080 m <sup>3</sup> /h	1,680 m <sup>3</sup> /h	2,100 m <sup>3</sup> /h

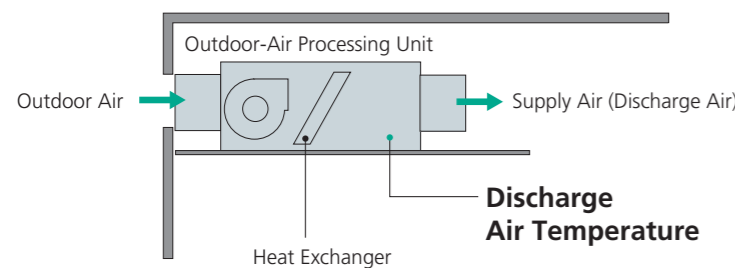


#### Connection Conditions

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

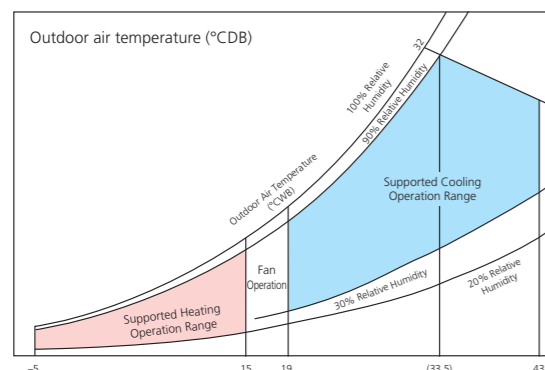
### Outdoor-air processing / Discharge air temperature control

The unit supplies outdoor fresh air controlling discharge air temperature from the unit.



- \* The default setting of the discharge air temperature is 18°C for cooling operation, and 25°C for heating operation.
- \* While in unit protection mode and depending on outdoor air conditions, discharge air temperature may not be at the set temperature.
- \* The fan stops in defrosting, oil returning and hot start operations due to mechanical protection control.

### Operation range



Applicable to outdoor air temperature range from -5 to 43°C. In cooling operation, 19 to 43°C is adoptable.

- Notes:
1. The operation range shown in the graph is under the following conditions. Equivalent piping length: 7.5 m, Height difference: 0 m.
  2. The system will not operate in fan mode when the outdoor air temperature is 5°C or below.

#### Precautions for use of FXMQ-MF series

1. This unit is intended for the treatment of outdoor air only. Not to be used for maintaining indoor air temperature. Be sure that the discharge airflow will not blow on people directly.
2. Group control of the product and standard indoor units is not supported. A separate remote controller should be connected to individual unit.
3. If the unit is utilised to operate 24 hours a day, maintenance (part replacement, etc.) must be performed periodically.
4. Temperature setting and Power Proportional Distribution (PPD) are not possible even if the intelligent Touch Controller or the intelligent Touch Manager is installed.
5. The remote controller wired to the outdoor-air processing unit must not be set as the master remote controller. Otherwise, when set to "Auto," the operation mode will switch according to the outdoor air conditions, regardless of the indoor temperature.

### Specifications

Type MODEL	Ceiling Mounted Duct Type				
	FXMQ125MFV7	FXMQ200MFV7	FXMQ250MFV7		
Power supply	1-phase 220-240 V, 50 Hz				
Cooling capacity *1	Btu/h	47,800	76,400	95,500	
	kW	14.0	22.4	28.0	
Power consumption	kW	0.359	0.548	0.638	
Casing	Galvanised steel plate				
Dimensions (H × W × D)	mm	470 × 744 × 1,100	470 × 1,380 × 1,100		
Fan	Motor output	kW	0.380		
	Airflow rate	m <sup>3</sup> /min	18	28	35
		cfm	635	988	1,236
External static pressure	220 V/240 V	Pa	185/225	225/275	205/255
Air filter	*2				
Refrigerant piping	Liquid	mm	φ9.5 (Flare)		
	Gas	mm	φ15.9 (Flare)	φ19.1 (Brazing)	φ22.2 (Brazing)
	Drain	mm	PS1B female thread		
Machine weight	kg	86	123		
Sound level *3	220 V/240 V	dB(A)	42/43	47/48	
Connectable outdoor units *4			6 HP and above	8 HP and above	10 HP and above
Operation range (Fan mode operation between 15 and 19°C)			19 to 43°C		
Range of the discharge temperature *5			13 to 25°C		

- Notes:
- \*1. Specifications are based on the following conditions:
    - Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
    - Equivalent reference piping length: 7.5 m (0 m horizontal)
  - \*2. An intake filter is not supplied, so be sure to install the optional long-life filter or high-efficiency filter.
  - \*3. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. These values are normally somewhat higher during actual operation as a result of ambient conditions.
  - \*4. It is possible to connect to the outdoor unit if the total capacity of the indoor units is 50% to 100% of the capacity index of the outdoor unit.
  - \*5. Local setting mode is not displayed on the remote controller.
    - This equipment cannot be incorporated into the remote group control of the VRF system.

### Options

	MODEL	FXMQ125MFV7	FXMQ200MFV7	FXMQ250MFV7
Operation/control	Operation remote controller	BRC1H63W(K) / BRC1E63 / BRC2E61		
	Central remote controller	DCS302CA61		
	Unified ON/OFF controller	DCS301BA61		
	Schedule timer	DST301BA61		
	Wiring adaptor for electrical appendices (2)	KRP4AA51		
Filters	Long-life replacement filter	KAF371N140	KAF371N280	
	High-efficiency filter	Colourimetric method 65%	KAF372M140	
		Colourimetric method 90%	KAF373M140	
	Filter chamber *	KDJ3705L140	KDJ3705L280	
Streamer duct chamber	BDEZ500A140VE	BDEZ500A510VE		
Drain pump kit	KDU30L250VE			
Adaptor for wiring	KRP1B61			

- Notes:
- \* Filter chamber has a suction-type flange. (Main unit does not.)
  - Dimensions and weight of the equipment may vary depending on the options used.
  - Some options may not be usable due to the equipment installation conditions, so please confirm prior to ordering.
  - Some options may not be used in combination.
  - Operating sound may increase somewhat depending on the options used.

# Air Treatment Equipment

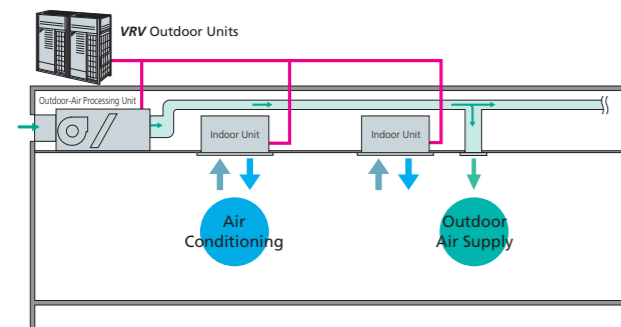
## Outdoor-Air Processing Unit (Room Temperature Control Type)

### New FXMQ-BF 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	FXMQ80BFV24	FXMQ140BFV24	FXMQ200BFV24	FXMQ250BFV24
Capacity index	80	140	200	250
Airflow rate	690 m³/h	1,230 m³/h	1,740 m³/h	2,160 m³/h

Type of connected indoor units	Connction ratio	FXMQ-BF connection ratio
FXMQ-BF only	50%-130%	
Mixed combination (FXMQ-BF and standard VRV indoor units)	120%-130%	≤10%
	110%-120%	≤20%
	100%-110%	≤30%
	50%-100%	≤40%

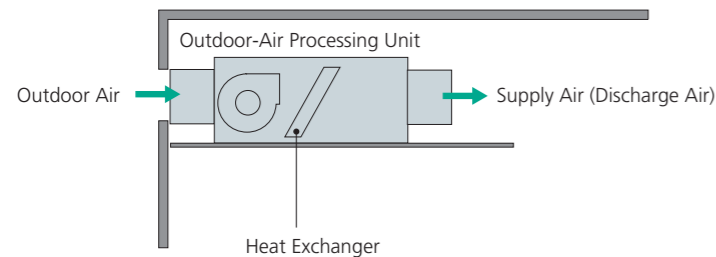
$$\text{Connection ratio} = \frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$$

#### 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 BRC501A-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.

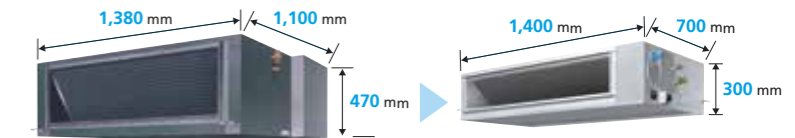
#### 3-step airflow control

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

#### Slim & compact design

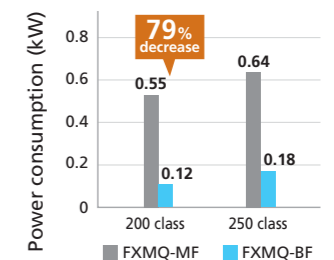
Only 300 mm in height and 700 mm in depth, the new casing comes with smaller footprint and with 59% reduction\* in unit size.

\* 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 FXMQ200BF requires 79% less power consumption making it the perfect choice for small commercial applications.



#### VRT control

With the VRT\* control feature, higher efficiency can be achieved.

\* Default setting is VRT off and field setting is required.



#### New small capacity model

The new 9 kW capacity model is the perfect fit for smaller business such as small/medium-sized shops and convenience stores.

#### Adjustable external static pressure

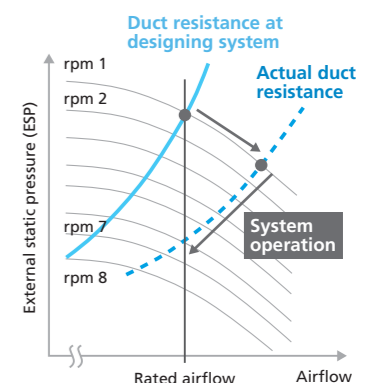
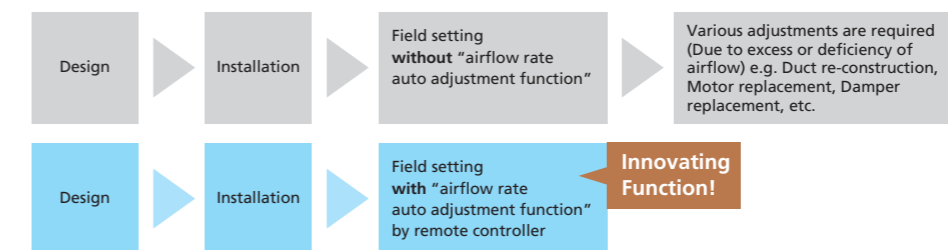
Using a DC fan motor, the external static pressure can be controlled within a range of 50 Pa to 200 Pa.

#### Adjustable external static pressure

50 Pa to 200 Pa

#### "Airflow rate auto adjustment function" at field setting (local setting by remote controller)

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



<Mechanism>

1. During field setting, power input of DC fan is detected.
2. External static pressure is estimated from power input of DC fan because PCB of FXMQ-BF 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.

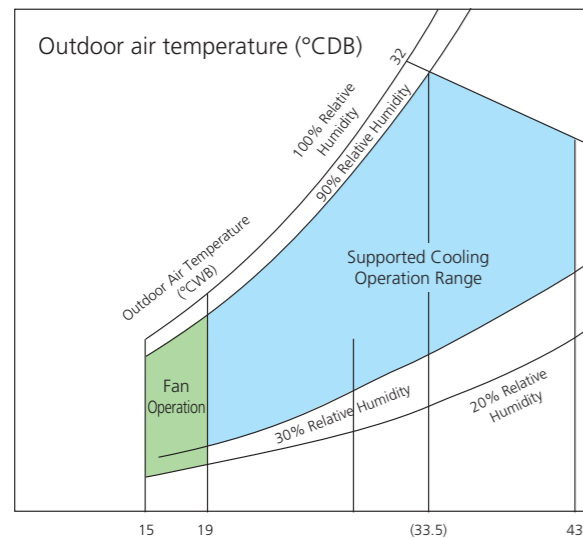
Notes: "Airflow rate auto adjustment function" can be adjusted within ±10% of rated airflow. (Refer to Engineering Data Book for details)  
"Airflow rate auto adjustment function" should be used at field setting only.

# 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\*. This enables reliable operation even under wider temperature conditions.



Extended operation range:  
Cooling: 15°CDB to 43°CDB

\* Thermo-off (fan) operation starts automatically when cooling 19°CDB or less. Operation range can be extended to 15°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		FXMQ80BFV24	FXMQ140BFV24	FXMQ200BFV24	FXMQ250BFV24
Power supply		1 phase, 220 V, 50 Hz			
Cooling capacity *1	Btu/h	30,700	54,600	76,400	95,500
	kW	9.0	16.0	22.4	28.0
Power consumption		kW			
		0.080	0.100	0.115	0.180
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			
	Airflow rate (H/M/L)	m³/min			
		11.5/8.6/5.8	20.5/15.4/10.3	29.0/21.8/14.5	36.0/27.0/18.0
		cfm			
		406/304/205	724/544/364	1,024/770/512	1,271/953/635
External static pressure		Pa			
		Rated 100 (200-50)			
Air filter		*2			
Refrigerant piping	Liquid	φ9.5 (Flare)			
	Gas	φ15.9 (Flare)		φ19.1 (Brazing)	
	Drain	φ22.2 (Brazing)			
		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		°CDB			
		15 to 43			

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.
  - 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 by field setting. When fresh air intake mode is enabled, operation range cannot be extended. (limit at 19 to 43°C)

### Options

Model		FXMQ80BFV24	FXMQ140BFV24	FXMQ200BFV24	FXMQ250BFV24
Operation/control	Wired remote controller	BRC1H63W(K) / BRC1E63 / BRC2E61			
	Wireless remote controller	BRC4C66			
	Remote sensor (for indoor temperature)	BRC501A-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	
Streamer duct chamber		BDEZ500A140VE	BDEZ500A140VE BDEZ500A510VE	BDEZ500A510VE	
Service panel		KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
Air discharge adaptor		KDAJ25K56A	KDAJ25K71A	KDAJ25K140A	
Adaptor for wiring (operation status output)		★ BRP11B62			
Wiring adaptor for electrical appendices (1)		★ KRP2A61			
Wiring adaptor for electrical appendices (2)		★ KRP4AA51			
Installation box for adaptor PCB ☆ *1		★ KRP4A96 *2,3			
External control adaptor for outdoor unit		★ DTA104A61			
Adaptor for multi tenant (24V type)		★ DTA114A61			
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.
- \*4. Remote sensor is necessary when using wireless remote controller.

# Air Treatment Equipment

## Heat Reclaim Ventilator with DX-coil

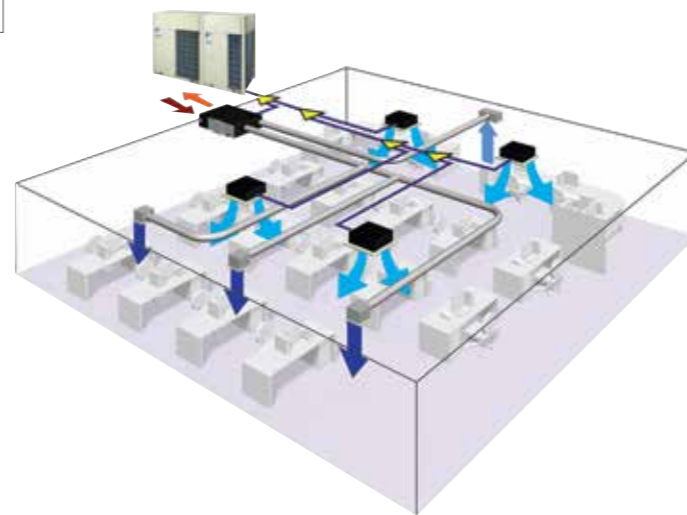
### VKM-GC Series

Air quality improvement by introducing fresh outdoor air in the room



#### Lineup

Model	VKM50GCVE	VKM80GCVE	VKM100GCVE
Capacity Index	31.25	50	62.5
Airflow rate	500 m <sup>3</sup> /h	750 m <sup>3</sup> /h	950 m <sup>3</sup> /h



#### ■ IAQ improvement by fresh air

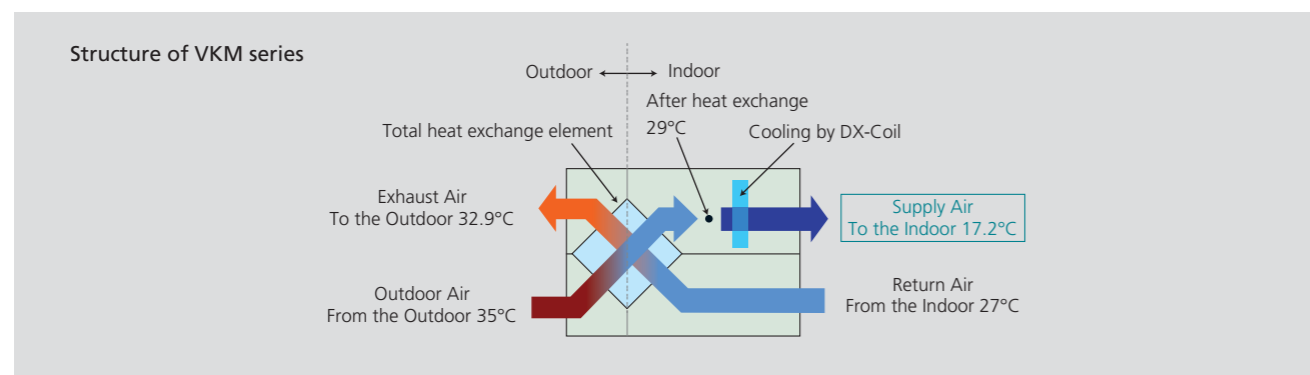
Maintains comfortable indoor air quality (IAQ) by adding fresh outdoor air having nearly the same temperature and humidity conditions as the indoor air.

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

#### ■ Heat reclaim ventilator + Heat exchanger → Comfortable air supply

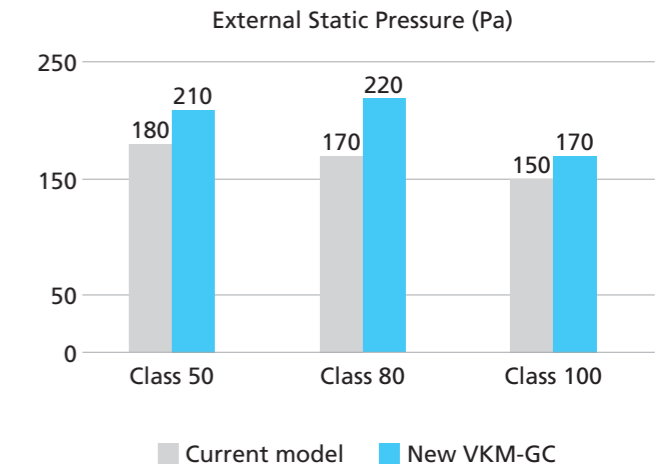
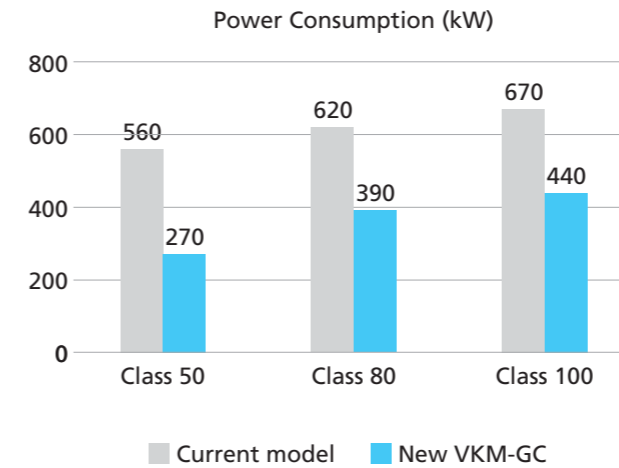
Equipped with a heat reclaim ventilator and a heat exchanger, the new VKM series minimizes room temperature fluctuations.

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



#### ■ 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)



#### ■ CO<sub>2</sub> sensor control (Option)

When CO<sub>2</sub> sensor is installed, it detects the concentration of CO<sub>2</sub> in the indoor air and the ventilation rate is controlled appropriately, reducing the air conditioning load due to ventilation.

#### ■ PM<sub>2.5</sub> filter (Option)

Removes PM<sub>2.5</sub> particulate matter present in the outdoor air, as well as sulfur oxides and nitrogen oxides, providing clean fresh air to the indoor ambient.

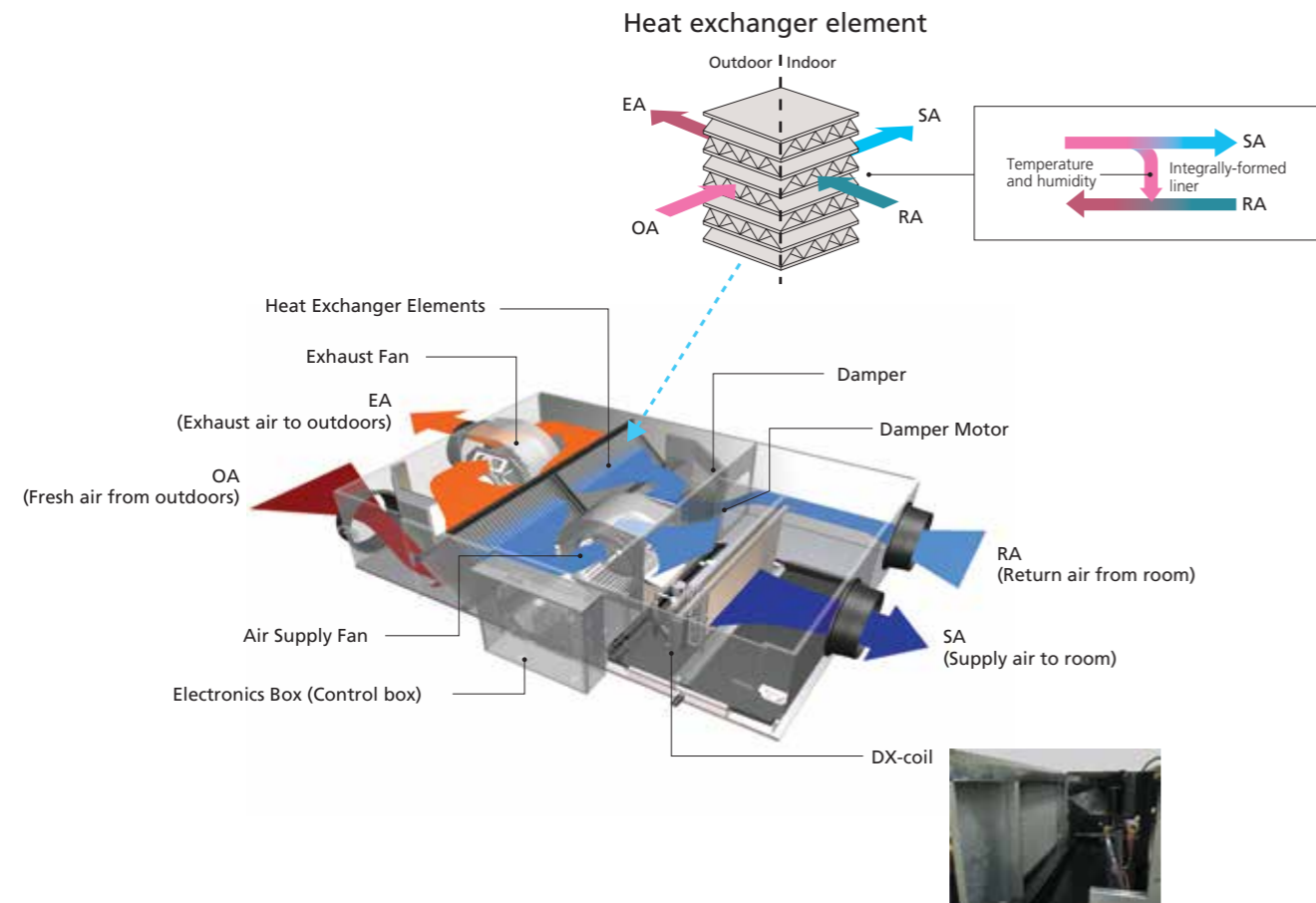
- PM<sub>2.5</sub> filter: Removes 99% or more of 2.5 μm particulate matter.
- Activated Carbon filter: Removes sulfur oxides and nitrogen oxides

#### ■ Other characteristics

- Nighttime free cooling operation
- Stainless drain pan
- High-efficiency filter (Option)

# Air Treatment Equipment

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

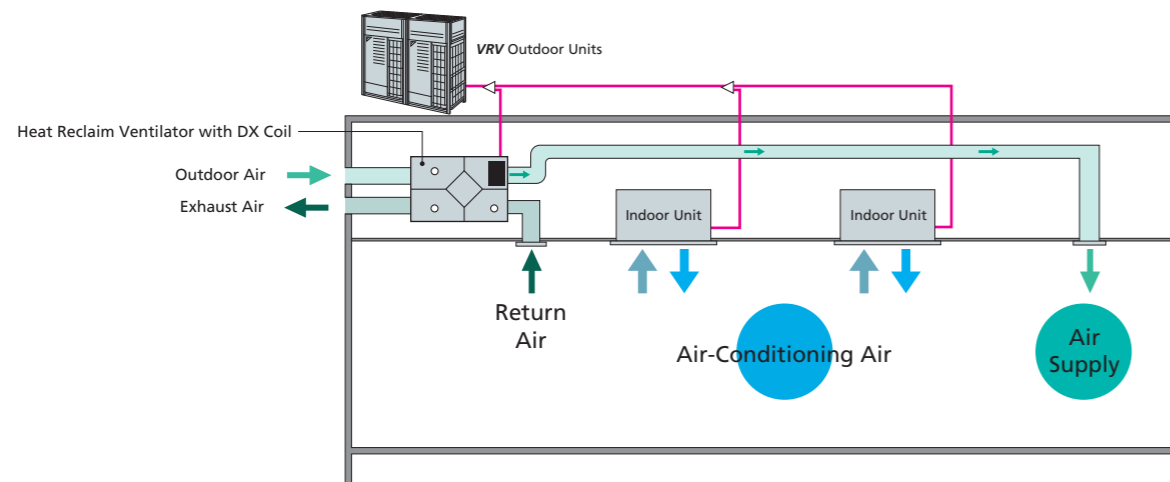


## Specifications

MODEL			VKM50GCVE	VKM80GCVE	VKM100GCVE
Refrigerant			R-410A		
Power Supply			1-phase, 220-240 V, 50 Hz		
Airflow Rate & External Static Pressure (Ultra-high / High / Low) (Note 4)	Airflow	m³/h	500/500/440	750/750/640	950/950/820
	Static pressure	Pa	210/170/140	220/180/125	170/120/90
Power Consumption (Ultra-high / High / Low)	Heat exchange mode	W	270/230/170	390/335/220	440/370/260
	Bypass mode	W	305/260/200	390/335/220	440/370/260
Fan Type			Sirocco Fan		
Motor Output			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		
Dimensions (Height×Width×Depth)			mm		
Piping Connection	Liquid	mm	φ 6.4 (Flare)		
	Gas	mm	φ 12.7 (Flare)		
	Drain		PT3/4 External Thread		
Machine Weight			kg	92	113
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.

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.

## Options

Item	Type	VKM50GCVE	VKM80GCVE	VKM100GCVE
Controlling device	Remote controller *1	BRC1H63W(K) / BRC1E63		
	PCB Adaptor	KRP2A61		
	Wiring adaptor for electrical appendices For heater control kit	BRP4A50A		
Additional function	Silencer	—	KDDM24B100	
	Nominal pipe diameter	mm	φ 250	
	High efficiency filter		KAF242J80M	KAF242J100M
Air filter for replacement		KAF241G80M	KAF241G100M	
Flexible duct	1 m	K-FDS201E	K-FDS251E	
	2 m	K-FDS202D	K-FDS252E	
CO <sub>2</sub> Sensor		BRYC24B50M	BRYC24B100M	
PM2.5 filtration unit *2		BAF249A500	BAF429A20A	
PM2.5 with activated carbon filtration unit *2		BAF249A500C	BAF429A20AC	
Streamer duct chamber		BDEZ500A60VE BDEZ500A140VE	BDEZ500A140VE	

\*1. Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When operating interlocked with other air conditioners, use the remote controllers of the air conditioners.

\*2. Refer to pages 186 - 188 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 m<sup>3</sup>/h



BRC1H63W BRC1H63K

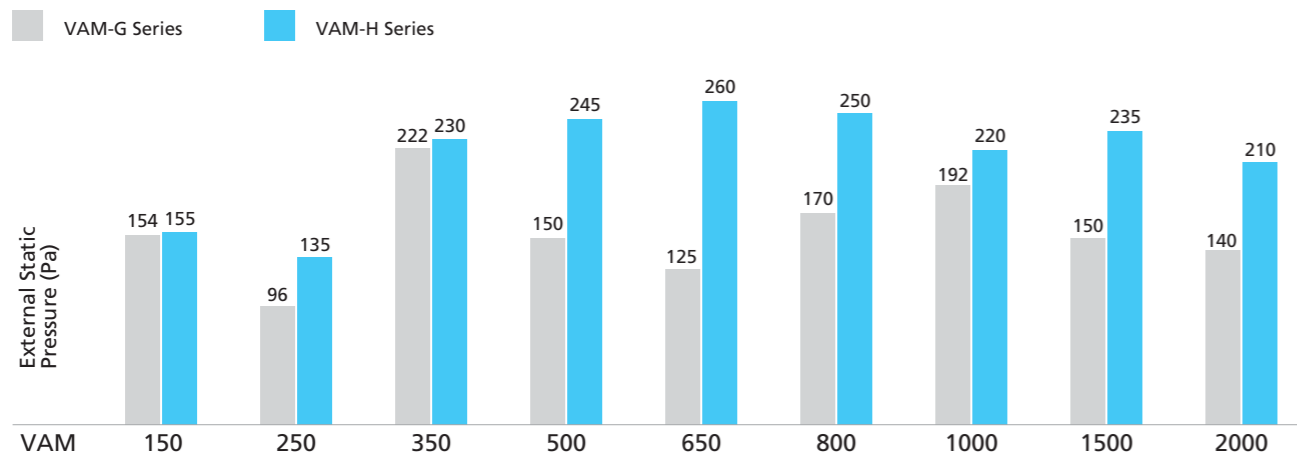
### New features

#### 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.

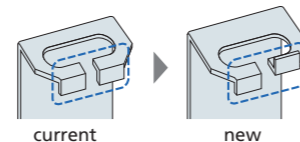
#### Comparison of external static pressure



#### 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.

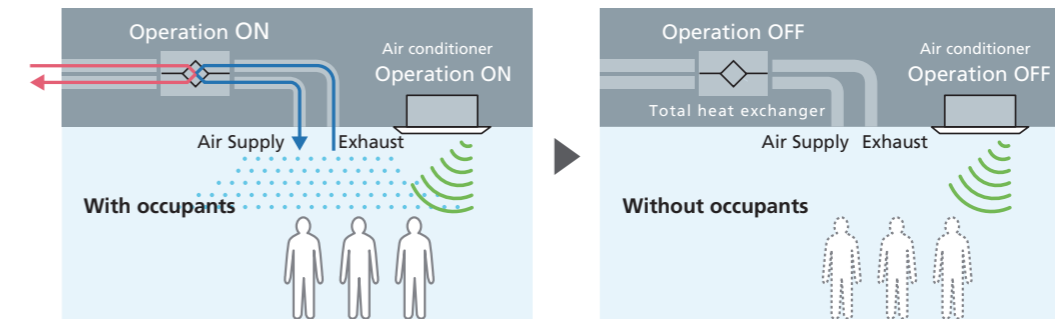


### Energy saving

#### 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.

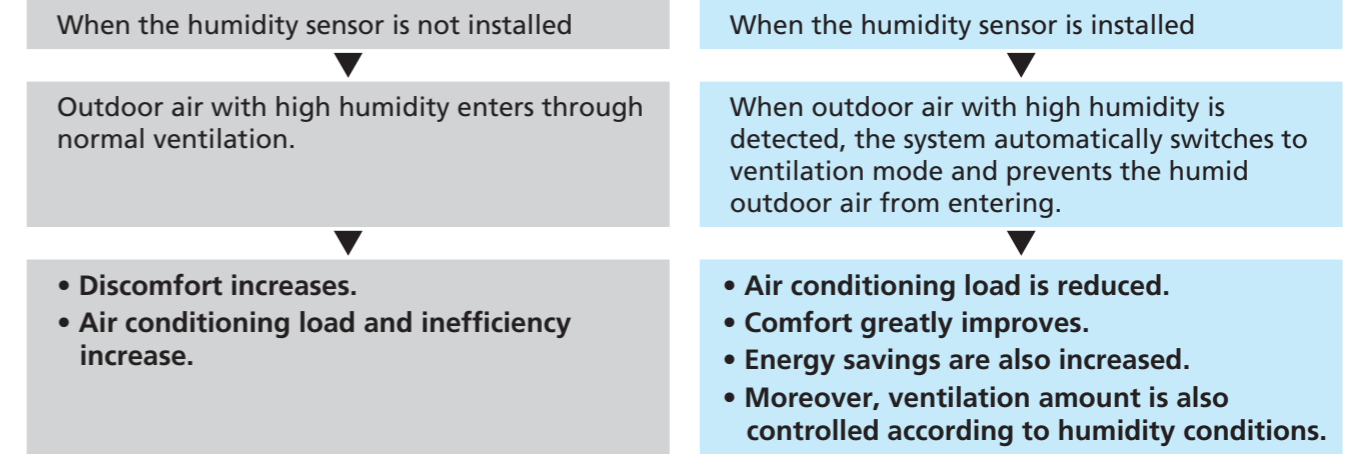


- \* During group controlling of air conditioner, no occupancy stop mode cannot be used.
- \* During 24-hours ventilation mode is turned on, the normal operation mode is changed to 24-hours ventilation mode.
- \* Once the absence is detected and stopped, the operation will not be performed automatically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

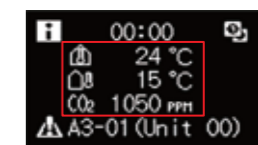


#### Stylish remote controller

##### 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.

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.

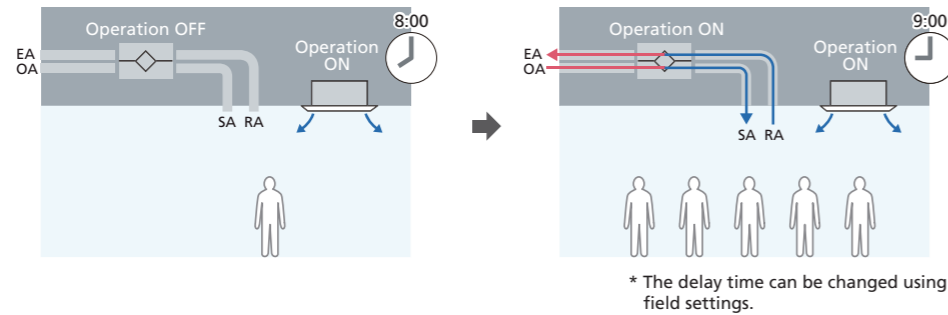
The system can be interlocked with Daikin air conditioners to provide energy saving ventilation solution for various situation.



### Pre-cool, Pre-heat control

#### Intentional delay of the start-up time

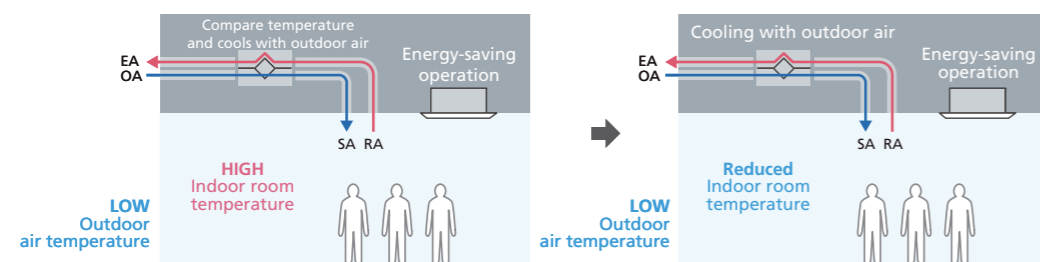
When the air conditioner is started up, the ventilation start-up is delayed to reduce load caused by the outside air. This reduces power consumption of air conditioners.



### Auto-ventilation mode changeover switching

#### Automatically determine the appropriate ventilation for each situation

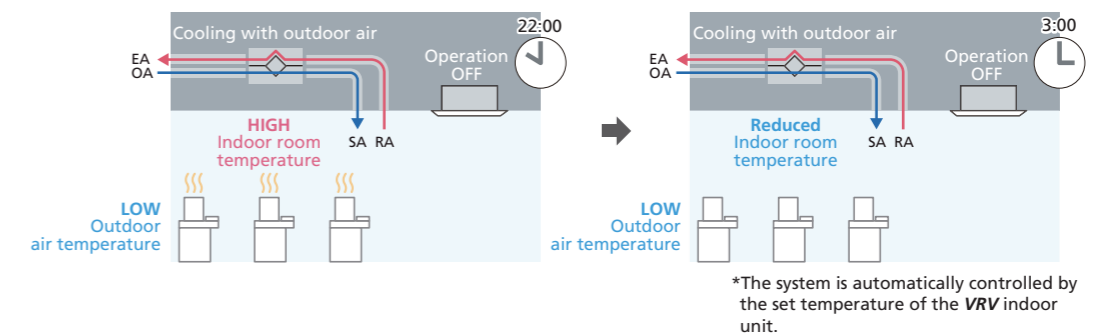
Indoor temperature and the outdoor temperature are detected, and the system automatically switches to the ventilation mode which has higher energy-saving effect.



### 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.



### CO<sub>2</sub> sensor control (Option)

When CO<sub>2</sub> sensor is installed, it detects the concentration of CO<sub>2</sub> 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)

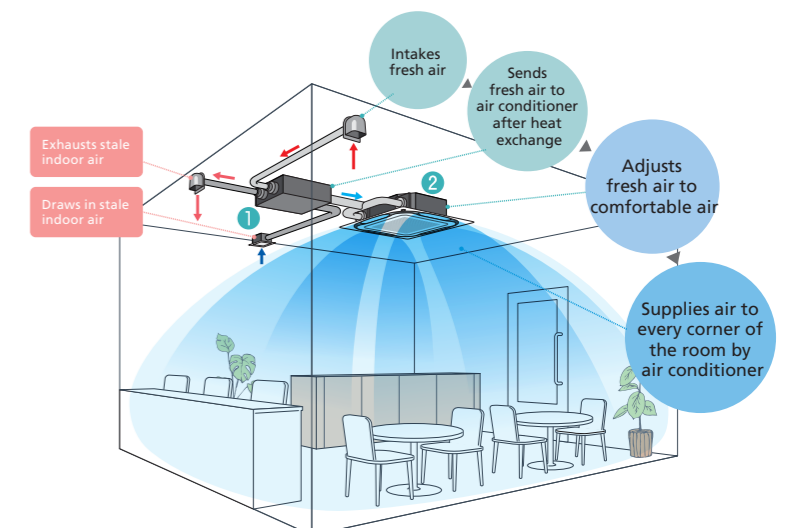
Removes PM2.5 particulate matter present in the outdoor air, as well as sulfur oxides and nitrogen oxides, providing clean fresh air to the indoor ambient.

- 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, 50 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												
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												
Power Consumption (50/60 Hz)	Heat exchange mode	Ultra-High	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	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	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	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 x W x D)			mm			278 x 551 x 810			306 x 800 x 879			338 x 832 x 973			387 x 1,012 x 1,110			785 x 1,012 x 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	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	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 x 2		0.060 x 2		0.100 x 2		0.170 x 2		0.190 x 4											
Effective ventilation rate			Ultra-High		%		90																
Connection duct diameter			Indoor side		mm		φ100		φ150		φ200		φ250		φ250 x 4								
			Outdoor side		mm		□ (680 x 290) x 2																
Unit ambient condition			-15°C to 50°CDB, 80%RH or less																				

- Notes:
- Airflow rate can be changed over to Low mode or High mode.
  - Temperature Exchange Efficiency is the mean value between cooling and heating.
  - 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.
  - 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 <sub>2</sub> sensor, ventilation volume can be changed	●	●	●
Fresh up indication	Indicates that fresh up operation is being carried out	●	—	—
CO <sub>2</sub> indication	Indicates value of CO <sub>2</sub> 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 <sub>2</sub> data	Share the CO <sub>2</sub> data to submit from main unit with in the group	○	—	—

○ : New functions / ● : Installed functions

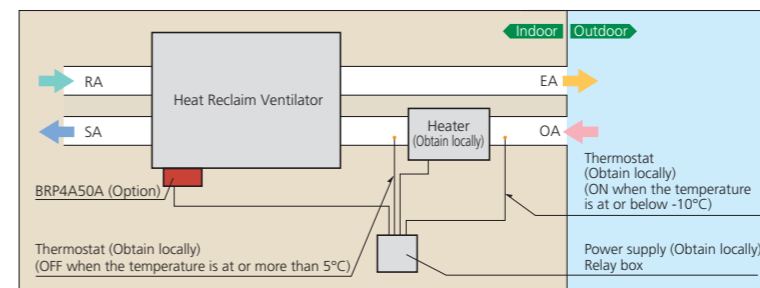
### Options

Item	MODEL	VAM150HVE	VAM250HVE	VAM350HVE	VAM500HVE	VAM650HVE	VAM800HVE	VAM1000HVE	VAM1500HVE	VAM2000HVE
Additional function	Silencer	—								
	Nominal pipe   mm	—			φ200			φ250		
	High efficiency filter	KAF242J25M		KAF242J50M	KAF242J65M		KAF242K100M		KAF242K100M x 2	
Flexible duct (1m)	Air filter for replacement	KAF241L25M		KAF241L35M	KAF241L65M		KAF241L100M		KAF241L100M x 2	
	Flexible duct (2m)	K-FDS101E		K-FDS151E	K-FDS201E		K-FDS251E		K-FDS251E	
CO <sub>2</sub> sensor*2		BRYC24A25M		BRYC24A35M	BRYC24A65M		BRYC24A100M		BRYC24A100M	
Humidity sensor		BRYH241A100 (for RA) / BRYH242A100 (for OA)								
PM2.5 filtration unit*3		BAF249A150	BAF249A300	BAF249A350	BAF249A500		BAF429A20A		BAF429A20A	
PM2.5 with activated carbon filtration unit*3		BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C		BAF429A20AC		BAF429A20AC	
Streamer duct chamber		BDEZ500A60VE			BDEZ500A60VE		BDEZ500A140VE		BDEZ500A510VE	
Wired remote controller		BRC1H63W (White) / BRC1H63K (Black) / BRC1E63 / BRC2E61								
Controlling device	Centralised central remote controller	DCS303A51*1								
	Central remote controller	DCS302CA61								
	Unified ON/OFF controller	DCS301BA61								
	Schedule timer	DST301BA61								
	Wiring adaptor for electrical appendices	KRP2A62								
PCB Adaptor	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 185 for details. \*3. Refer to pages 186 - 188 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.

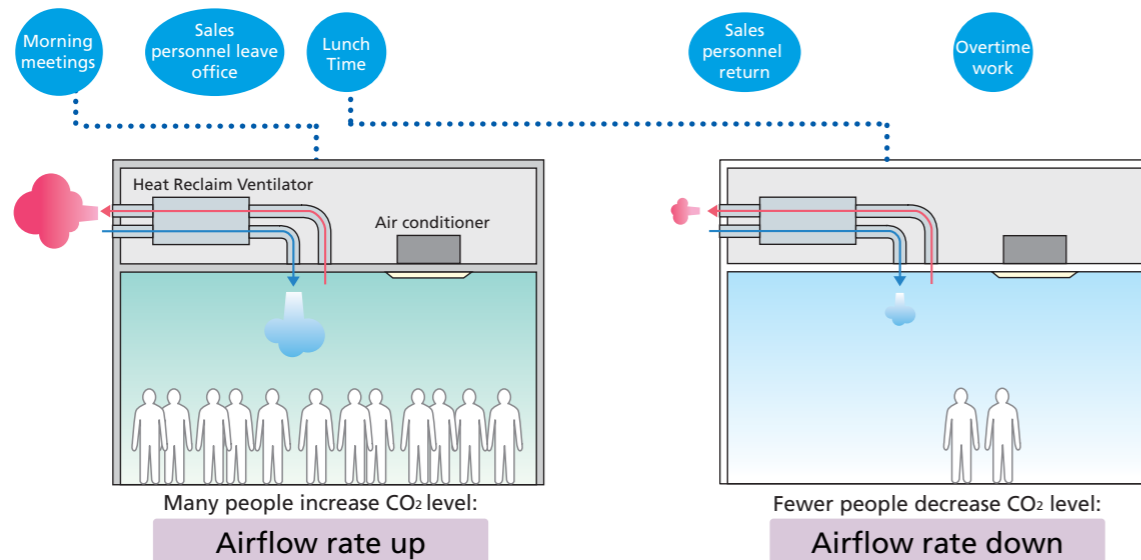
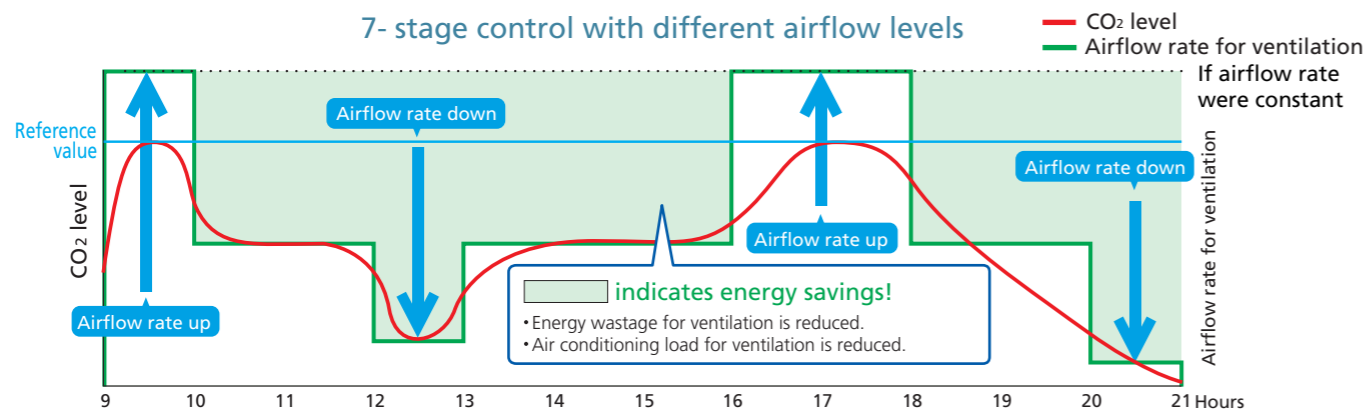


# Air Treatment Equipment

## Airflow rate control with CO<sub>2</sub> sensor (Option) for VAM / VKM series

The CO<sub>2</sub> sensor controls airflow rate so that it best matches the changes of CO<sub>2</sub> level in the room. This prevents energy losses from over-ventilation while maintaining indoor air quality with optional CO<sub>2</sub> sensor.

● Example of CO<sub>2</sub> sensor operation in an office room:



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

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

### Double-layered efficient filtration

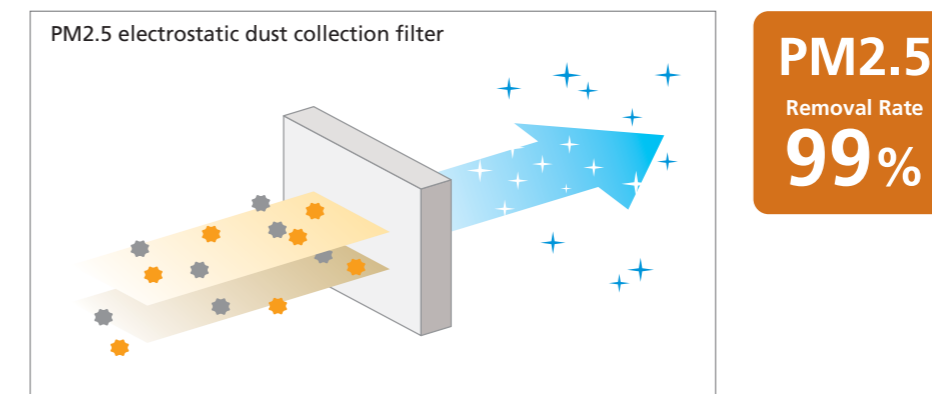
PM2.5 filters are double-layered.

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



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

This filter removes 99% or more of 2.5 μm particulate matter.



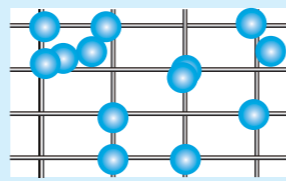
\*Test results by the Heating, Ventilation and Air Conditioning Lab at Tongji University  
Test environment: temperature 25-26°CDB, humidity 58-60%RH

# Air Treatment Equipment


## Electrostatic dust collection filter: more efficient and longer lasting effect

The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently, including those smaller than the grid mesh. The filter is difficult to be blocked by particles and has good ventilation and long life span.

**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.

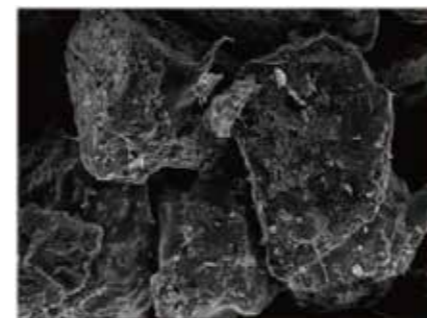
Long-lasting highly efficient dust collection capacity

## 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.



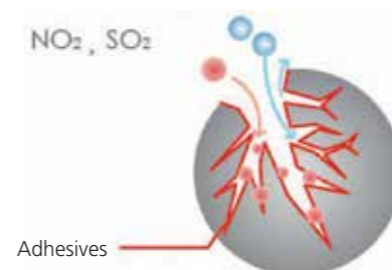
Notes: Surface area of active carbon: 700 m<sup>2</sup>/g  
Given a newspaper page of 40.6 cm wide by 54.6 cm long, each gram of active carbon has a surface area of 3,000 newspaper pages.

### Intelligent Identification, Super-effective Adhesion

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

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

Unidentified Gases



## Specifications

### PM2.5 filtration unit

MODEL		BAF249A150	BAF249A300	BAF249A350	BAF249A500	BAF429A20A
Dimensions (H x W x D)	mm	220x603x366	220x603x366	300x623x366	300x623x366	470x971x370
Connection Duct Diameter	mm	φ 100	φ 150	φ 150	φ 200	580x348
Airflow Rate	m <sup>3</sup> /h	150	250	350	500	2,100
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42
	Filter Lifetime <sup>*1</sup>		1 year			
	Filtration Efficiency <sup>*2</sup>		99% or higher			
	Filter Material No. <sup>*3</sup>		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 x W x D)	mm	220x603x366	220x603x366	300x623x366	300x623x366	470x971x370
Connection Duct Diameter	mm	φ 100	φ 150	φ 150	φ 200	580x348
Airflow Rate	m <sup>3</sup> /h	150	250	350	500	2,100
Total Initial Pressure Drop for PM2.5 with Activated Carbon Filtration Unit		Pa	37	35	36	51
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42
	Filter Lifetime <sup>*1</sup>		1 year			
	Filtration Efficiency <sup>*2</sup>		99% or higher			
	Filter Material No. <sup>*3</sup>		BAF244A300		BAF244A500	BAF424A20A
Activated Carbon Filter	Initial Pressure Drop	Pa	3	5	9	less than 10
	Filter Lifetime		1 year			
Filter Material No. <sup>3</sup>			BAF244A300C		BAF244A500C	BAF424A20AC

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.

# 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)

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



BRC1E63

A series of user friendly functions that can be individually selected

### Energy saving

#### Setpoint range set

- Avoids excessive cooling 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 FXF(S)Q series.

- Backlight LCD of new wireless remote controller



Pressing the backlight button helps operating in dark rooms.

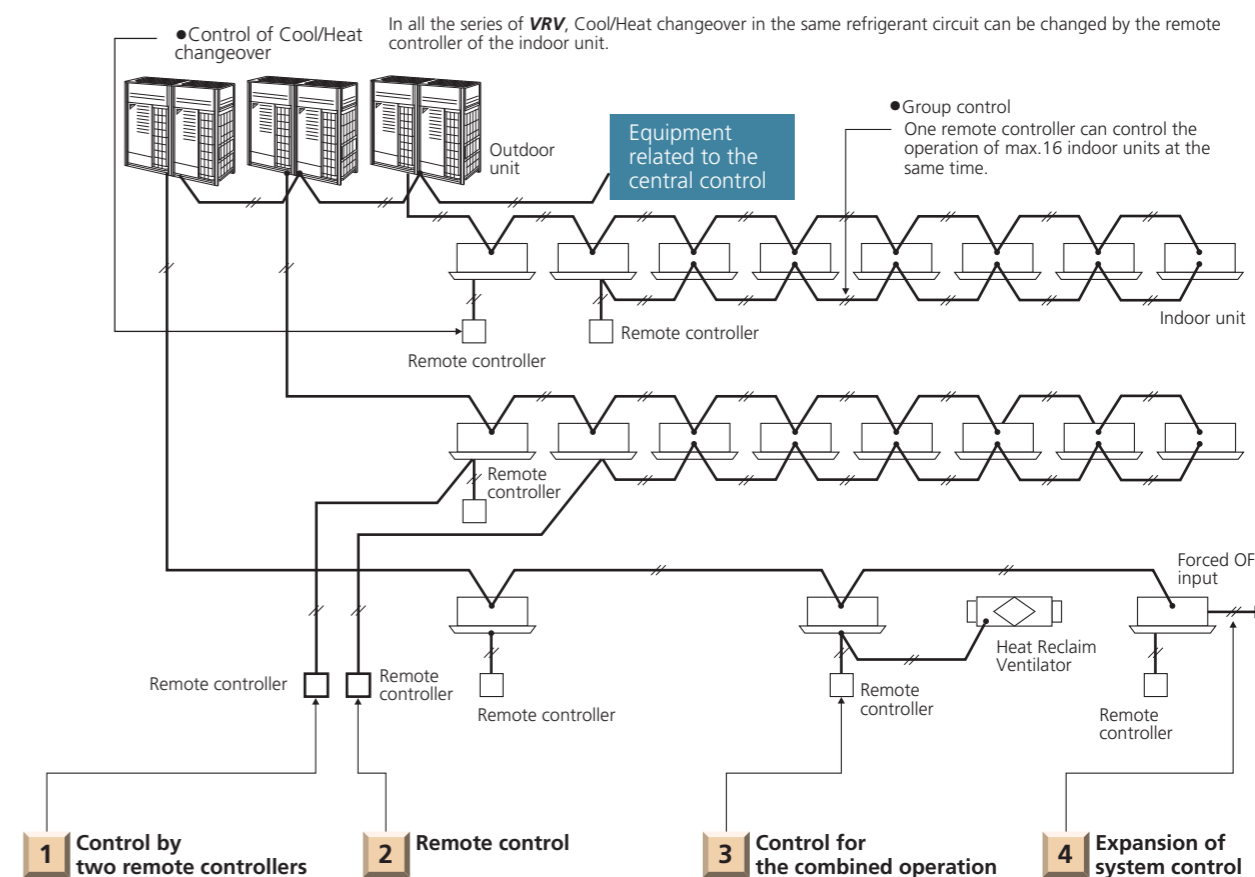
- A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.

\* Wireless remote controller and signal receiver unit are sold as a set

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

MODEL	FXFTQ	FXFRQ	FXFSQ	FXFQ	FXZQ	FXCQ	FXKQ	FXDFQ	FXDBQ	FXDQ	FXSQ	FXMQ	FXHQ	FXAQ	FXL(N)Q	FXVQ	FXB(P)Q
Stylish remote controller (BRC1H63W / BRC1H63K)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Navigation remote controller (BRC1E63)			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Simplified remote controller (BRC2E61)				●	●	●	●	●	●	●	●	●	●	●	●	●	●
Wireless remote controller* (Installed type signal receiver unit)			●	●	●	●							●	●			
Wireless remote controller* (Separate type signal receiver unit)							●	●	●	●	●	●			●		●

### 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.

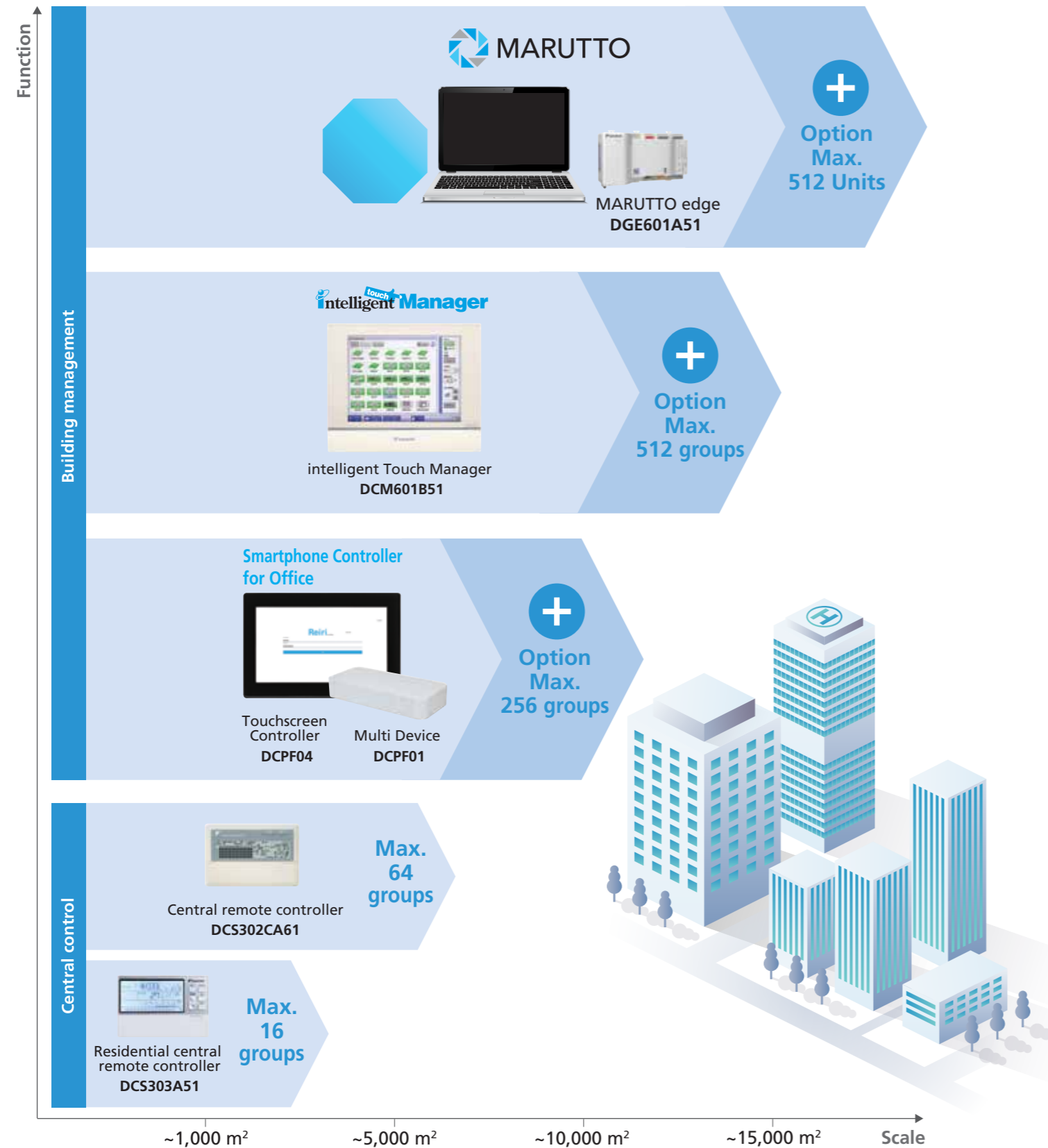
**2 Remote control**  
The wiring of remote controller can be extended to max. 500 m and it is possible to install the remote controllers for different indoor units in one place.

**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.

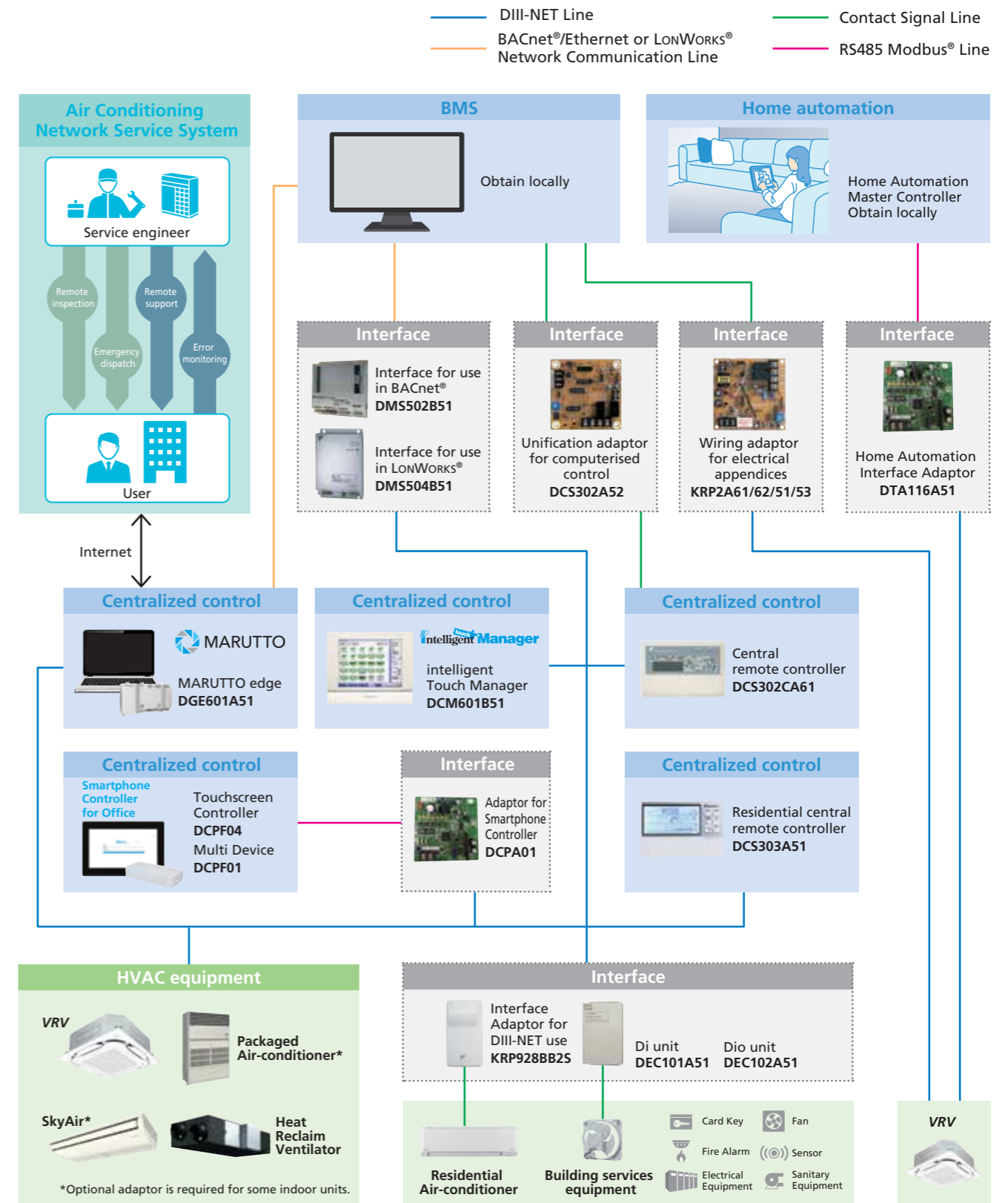
**4 Expansion of system control**  
The system can be expanded to add several controllers, such as BMS, Forced OFF input and etc.

# Control Systems

## Centralized control lineup



## Integrated system overview



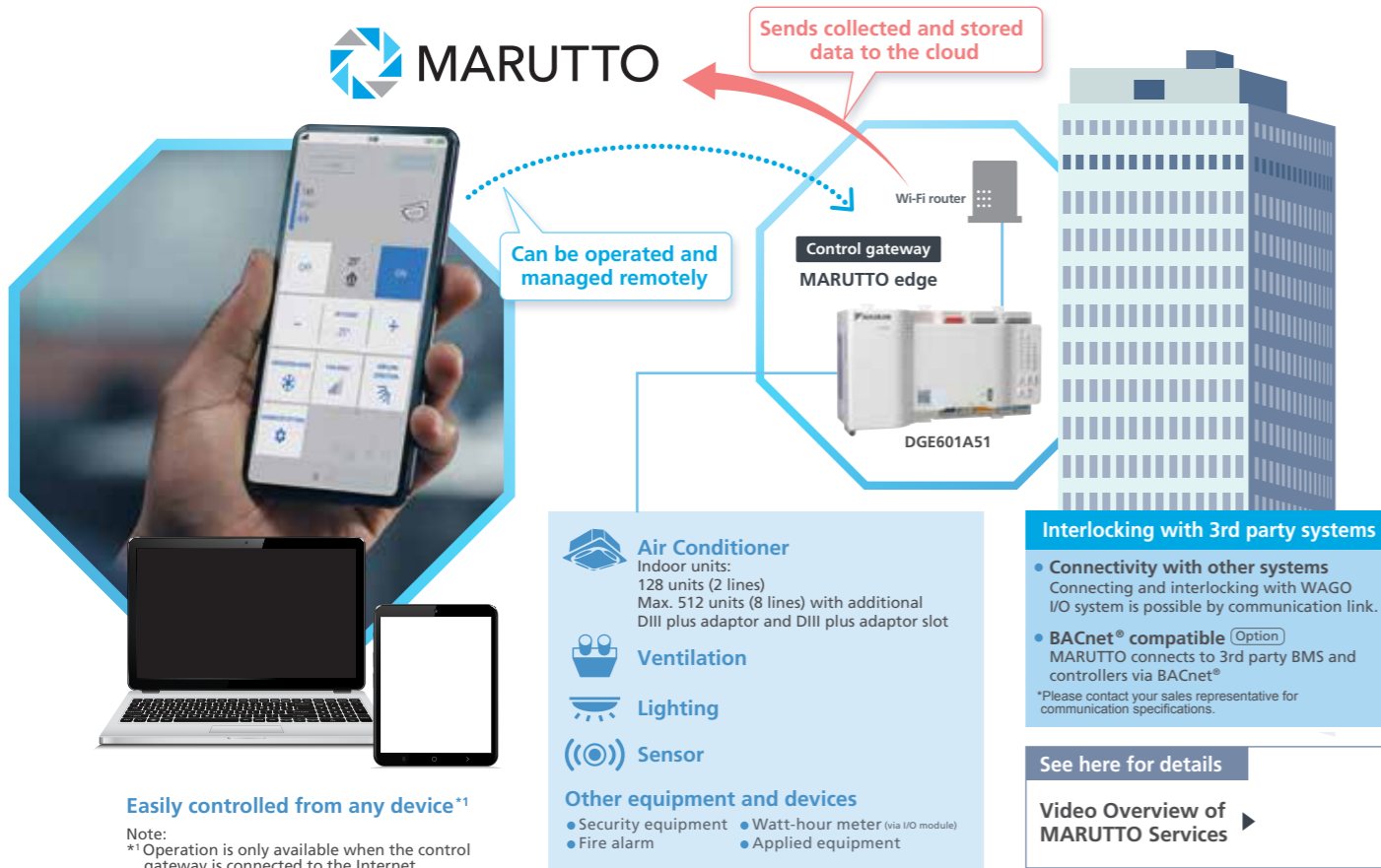
Caution: Limitation may apply to some models and functions. Please contact your local sales office for details. Consultation is necessary before employing this control system. Please contact your local sales office before making a purchase.

Note: BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries. Modbus® is a registered trademark of Schneider Electric S.A.

# Control Systems

## New Cloud-based HVAC management service

MARUTTO is an all-in-one, cloud-based management service that offers real-time control and monitoring, advanced analytics, and customized support to address HVAC lifecycle concerns.



Easily controlled from any device\*\*

Note:  
\*\* Operation is only available when the control gateway is connected to the Internet.

### Remote monitoring and control

- Multi-Device Support
- Multi-Site Management
- Layout View
- Map View

### Optimize energy usage

- Energy Visualization  
See page 194
- Demand Control (Option)  
See page 194
- Operation Data Output Function
- PPD Function (Option)
- Energy-Saving Simulation

### Centralized control

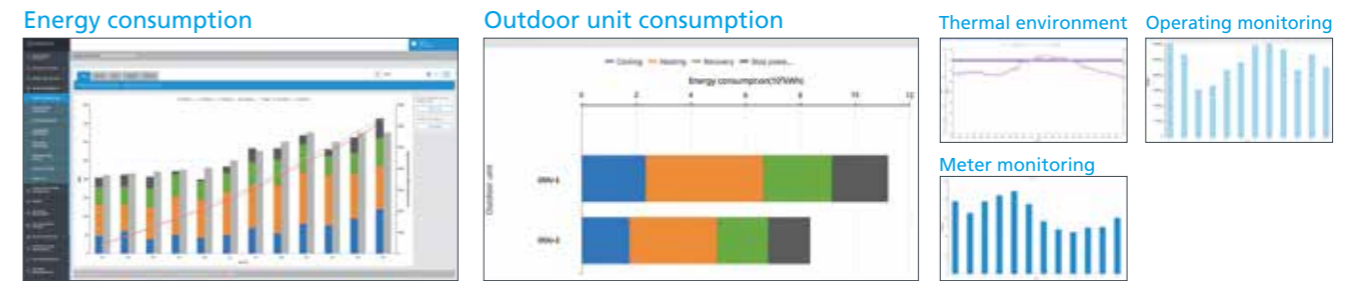
- Interlocking Control of Devices
- User Administration Function
- Schedule Control

### Peace of mind service maintenance

- Error Notification Email
- Social Media Support (Option)
- Remote Emergency Operation (Option)

## Energy Visualization

Provides graphs of energy consumption to uncover inefficient operation

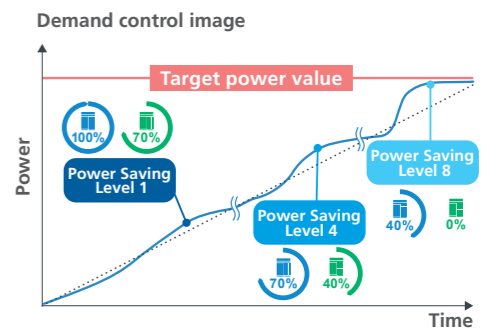


## Demand Control (Option)

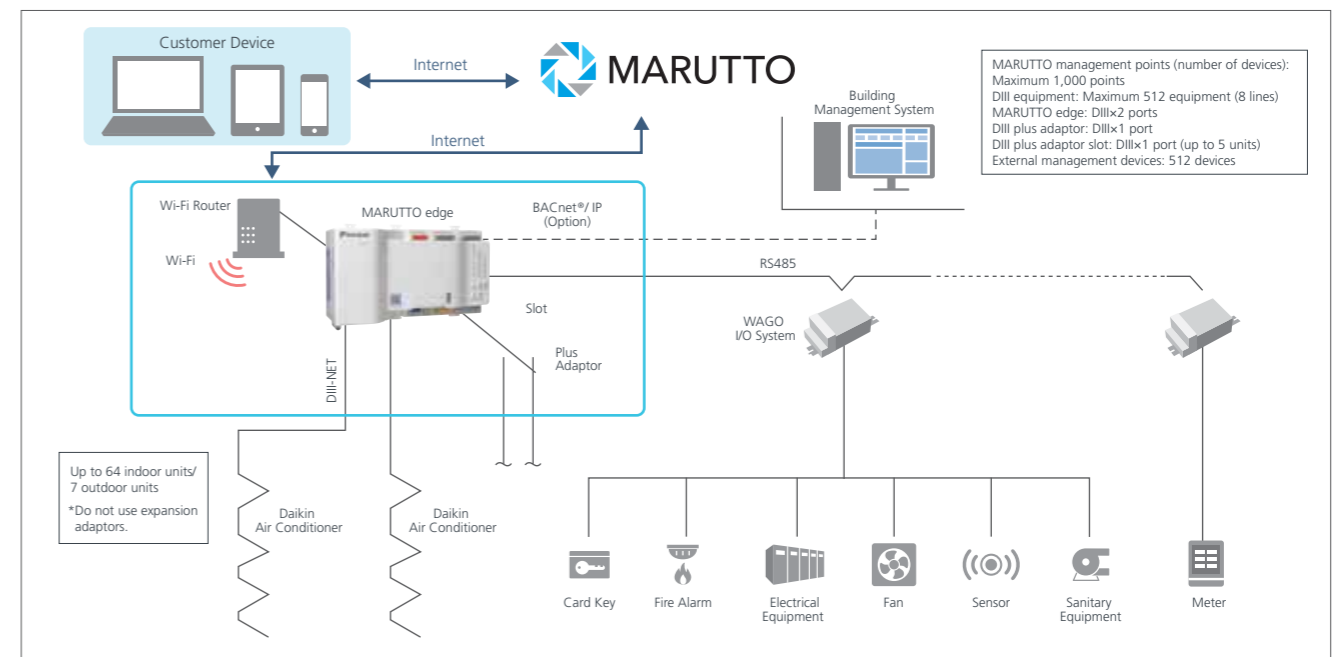
Reliably cuts power peaks without sacrificing comfort

As the power saving level increases, the power consumption reduction effect also increases.

- Control power consumption with three measures
- Thermo-Off of indoor unit
  - Set temperature shift of indoor unit
  - Outdoor unit capacity limit



## MARUTTO System Overview



## MARUTTO (standard specifications)

Common Name	Control gateway	Plus adaptor (sold separately)	Slot (sold separately)
Item Name	MARUTTO edge	DIII plus adaptor	DIII plus adaptor slot
Model Name	DGE601A51	DGE601A52	DGE601A53
Power Supply	AC100-240V 50/60Hz	AC100-240V 50/60Hz	Power supply from DIII plus adaptor
Power Consumption	23W	23W	—
Usage Environment	-10 to 50°C 85% or less	-10 to 50°C 85% or less	-10 to 50°C 85% or less
External Dimensions (Width x Height x Depth)	230 x 146 x 81.2 (mm)	97.2 x 146 x 81.2 (mm)	25.2 x 146 x 64.2 (mm)
Weight	0.97kg	0.69kg	0.13kg

\* Refer to the MARUTTO individual catalogue for details.

# Control Systems

## Advanced control systems for VRV systems



**Intelligent Touch Manager**

DCM601B51

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

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

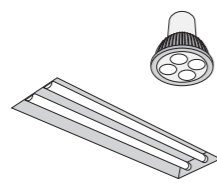
#### Individual air-conditioning control

The flexible control achieved by the VRV system precisely meets different air conditioning needs in each room (e.g. offices, conference rooms, hotel rooms).



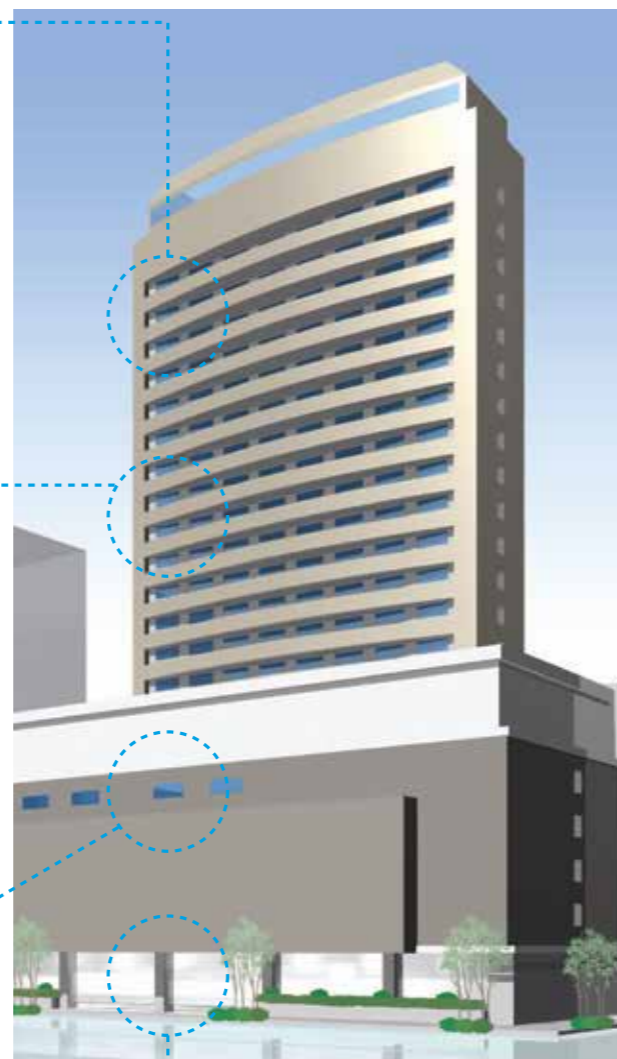
#### Lighting control **DALI-compatible**

DALI-compatible LED lighting systems can be controlled and monitored. Lighting control is enhanced through an interlock function with air conditioners and other functions.



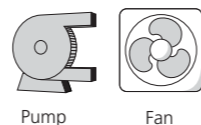
#### Air-conditioning control for large spaces

Air handling units can also be controlled. Large spaces, such as entrance halls and shopping malls, can be easily controlled to ensure comfort.



#### Building equipment control

Various types of equipment other than air conditioners, including ventilators, fans, and pumps, can also be controlled.



### For energy saving & comfort

*intelligent Touch Manager* maximises the advantages of VRV features

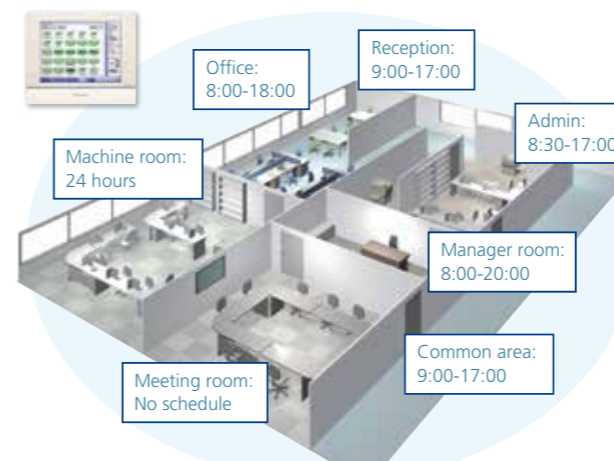
*intelligent Touch Manager* is an advanced multi-zone controller that provides the most cost-effective way to control and monitor the Daikin VRV system.

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

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

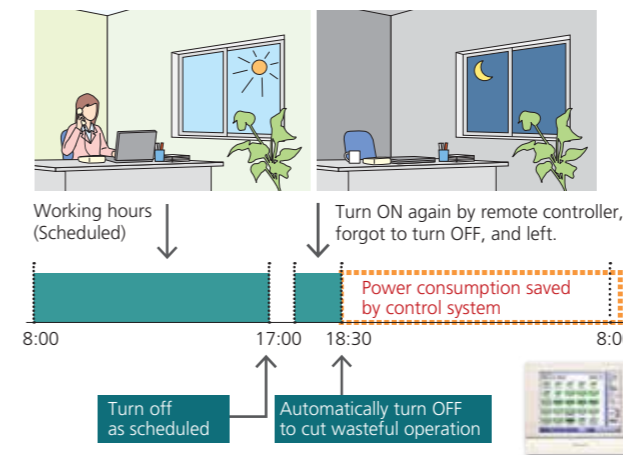
It can manage a total of 650 management points consisting of up to 512 Daikin indoor unit groups (up to 1024 indoor units) along with building equipment control / monitoring with Digital Inputs / Output (Di/Dio), Analog Inputs / Output (Ai/Ao) and Pulse input (Pi) optional devices.

Schedule the operation time for each application.



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

Turn the unit OFF if a user didn't.

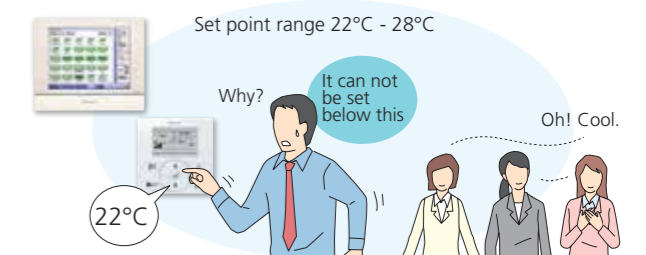


Define the setpoint range that users can change.

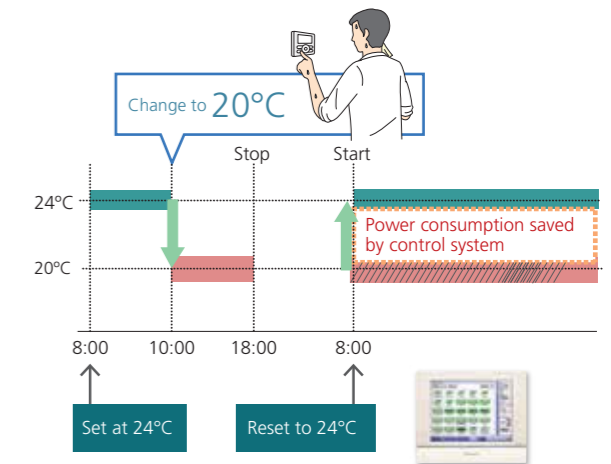
With Remote controller



With Control System



Reset setpoint regularly.



External contact demand control function

This function automatically controls outdoor and indoor unit capacity based on contact signals sent from demand controller (field supply) etc. to save power consumption during peak hours.

- You may set 3 levels that can be switched by ON/OFF signal of 3 contacts
- Control settings are pre-set for each level
- Outdoor unit: I-demand function for peak power limit
- Indoor unit: Set temperature shift, Forced thermostat OFF



## Lighting control (Option)

In addition to switching lights on and off, advanced lighting control, such as illuminance adjustment, can be achieved

Connection to DALI-compatible lighting control system

**DALI-compatible**

Please contact your local sales office for details.

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

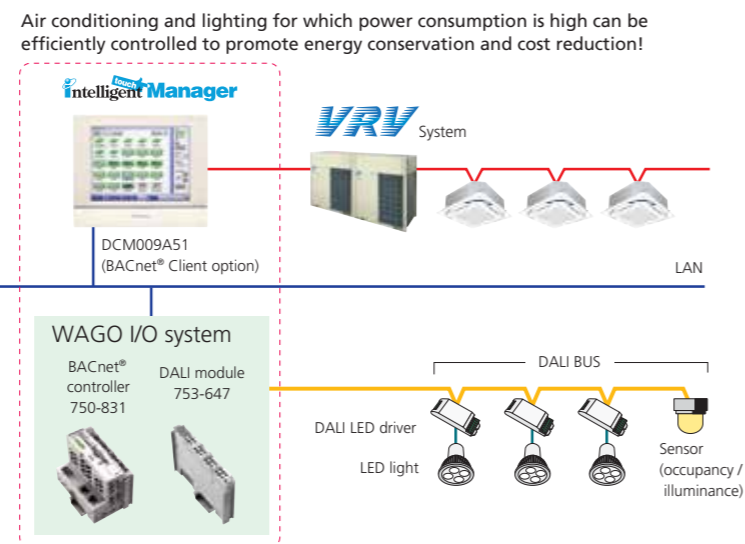
### Lighting control achieved by the *intelligent Touch Manager*

#### [Operation]

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

#### [Monitoring]

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



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

### Overview of control

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

## Easy maintenance and energy saving by lighting control

### Case 1

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

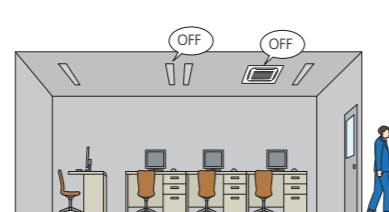
- Failing to switch off lights is prevented.



- Optimal illuminance reduces energy.

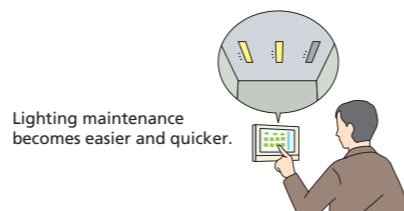
### Case 2

Occupancy sensors are used to eliminate both wasteful lighting and air conditioning. When a room is unoccupied, the air conditioning stops and the lighting is switched off.



### Case 3

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



Lighting maintenance becomes easier and quicker.

The layout screen enables quick identification of specific locations.

## Tenant management

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

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

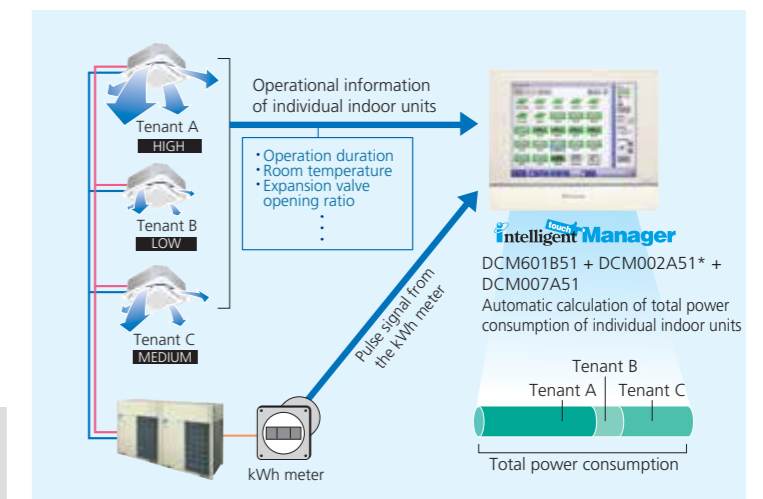
The energy consumption is proportionally calculated for each indoor unit. The data can be used for energy management and calculation of air conditioning usage fees for respective tenants.

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

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

#### It is easy to output PPD data.

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



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

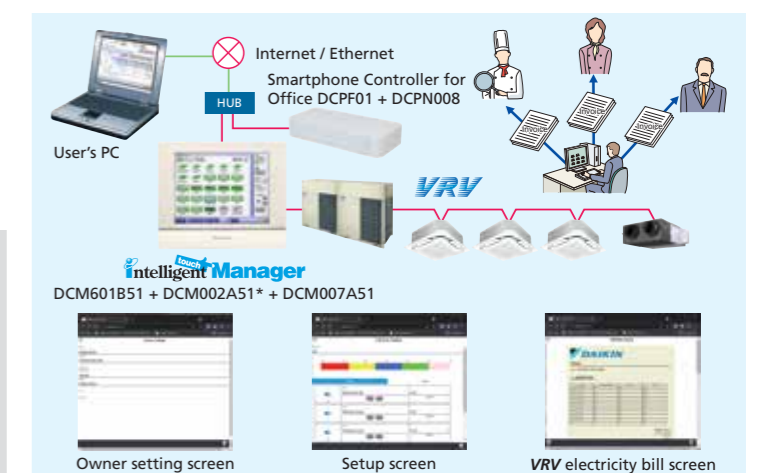
### Air conditioning bills can be issued by one click (PPD\* Option)

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

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

#### Main functions

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



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

### Effective service functions offered to tenants

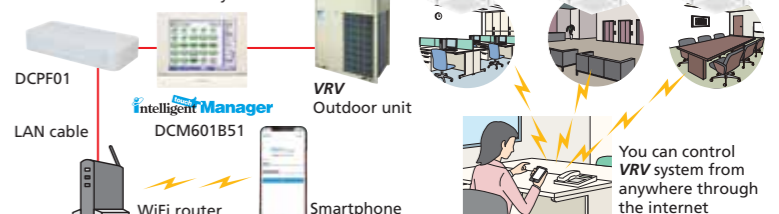
Smartphone will be a remote controller of VRV system (Option)

Users can operate and check the status of VRV system from their smartphones via the internet.

It is not necessary to move where a remote controller is located with this feature. VRV system in other rooms can be operated, and their status can be checked. It is also possible to check if air conditioners in other rooms remain switched on etc., helping achieve energy saving.

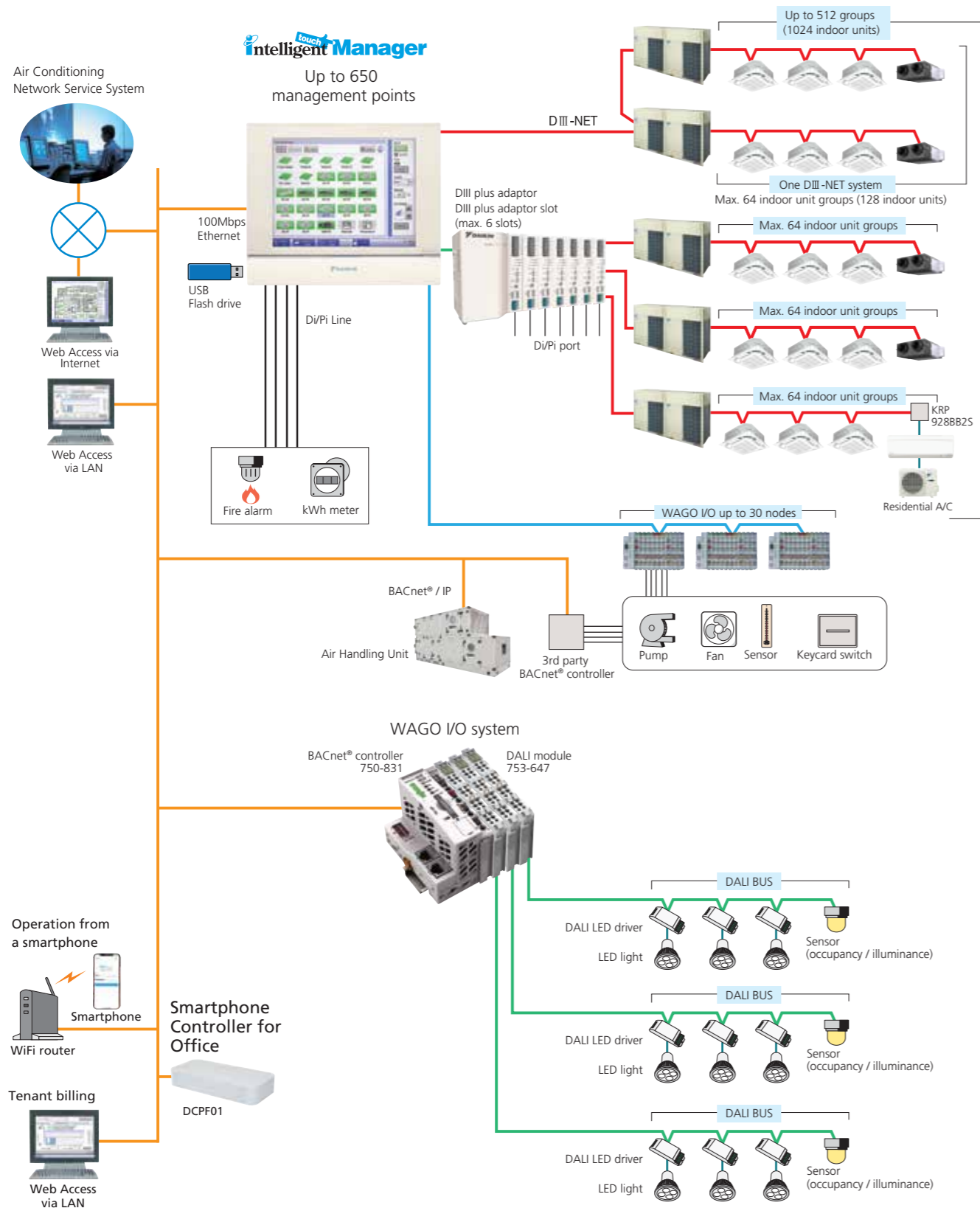
#### For buildings VRV Smartphone Remote Controller

Up to 1024 indoor units can be controlled. Just add Smartphone Controller for Office DCPDF01 to this system





## intelligent Touch Manager system overview



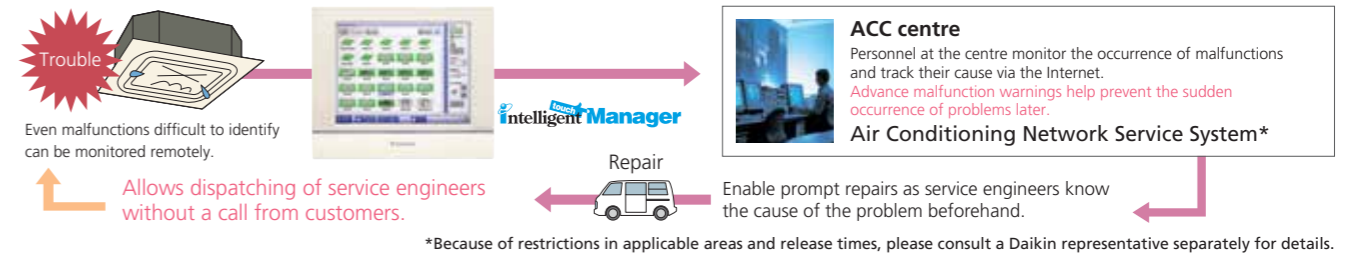
### Air conditioning network service system

#### Preventive maintenance

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

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

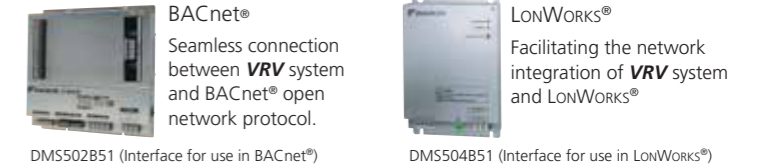
The *intelligent Touch Manager* connects seamlessly to Daikin's 24-hour Air Conditioning Network Service System.



### Daikin offers a variety of control systems

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

Compatible with BACnet® and LonWorks®, the two leading open network communication protocols, Daikin offers interfaces that provide a seamless connection between **VRV** system and your BMS.

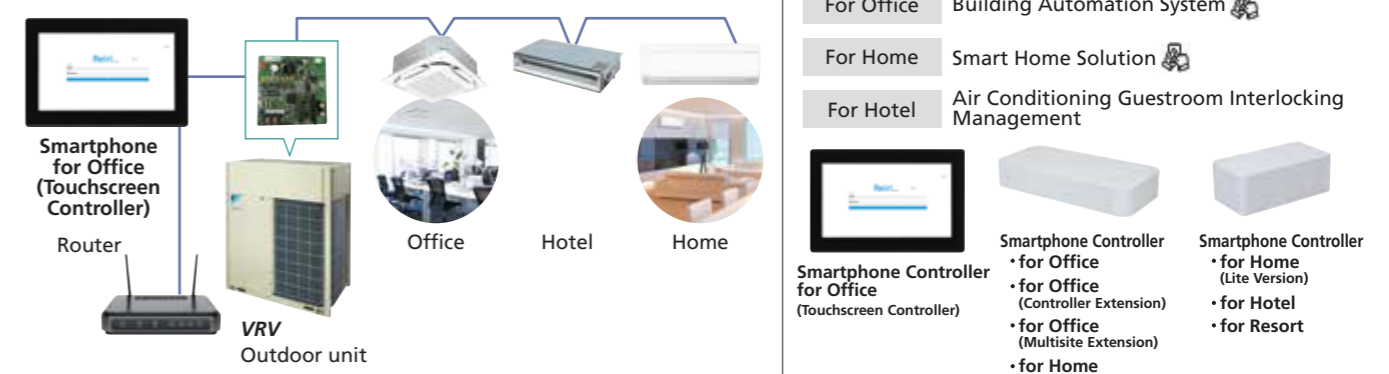


Dedicated interfaces make Daikin air conditioners freely compatible with open networks

Notes: 1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).  
2. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.

### Specialised solution for office, home and hotel with Smartphone Controller Series

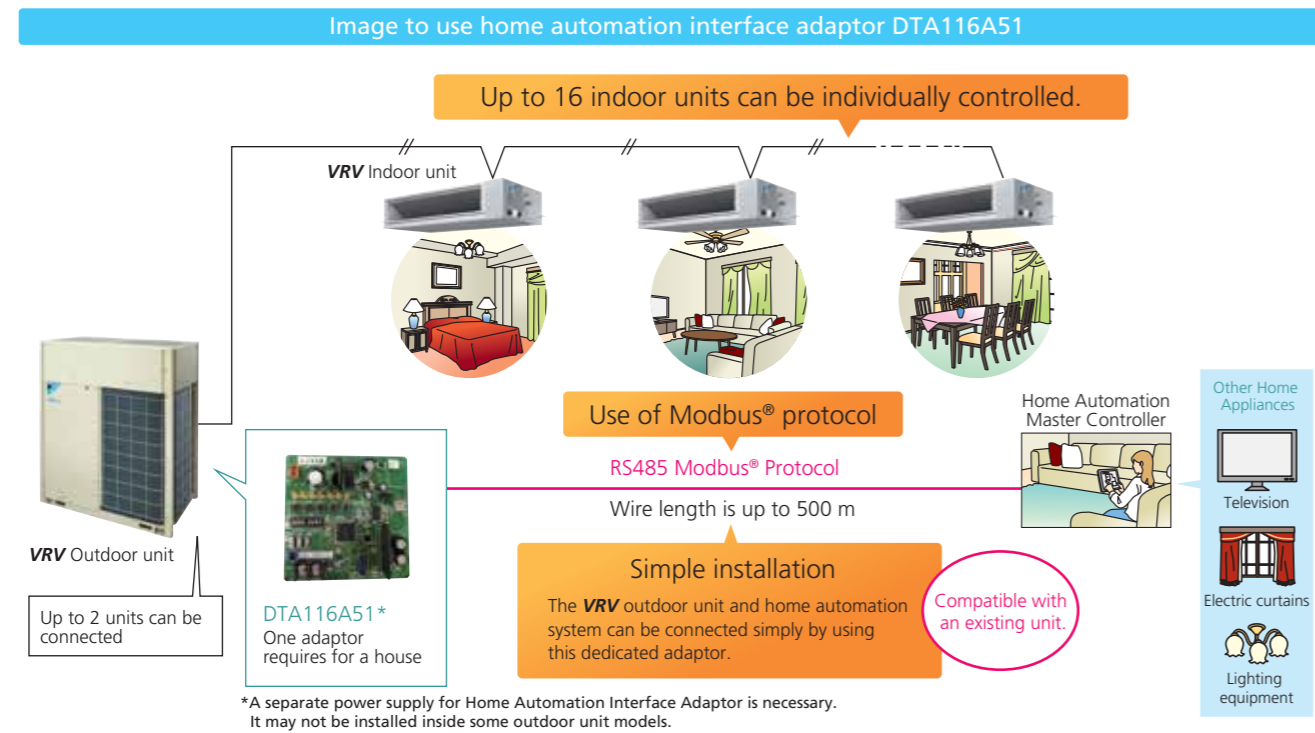
Catering to different applications, ranging from 10 indoor units to 2048 indoor units



# Control Systems

## Home automation interface adaptor

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



### 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.

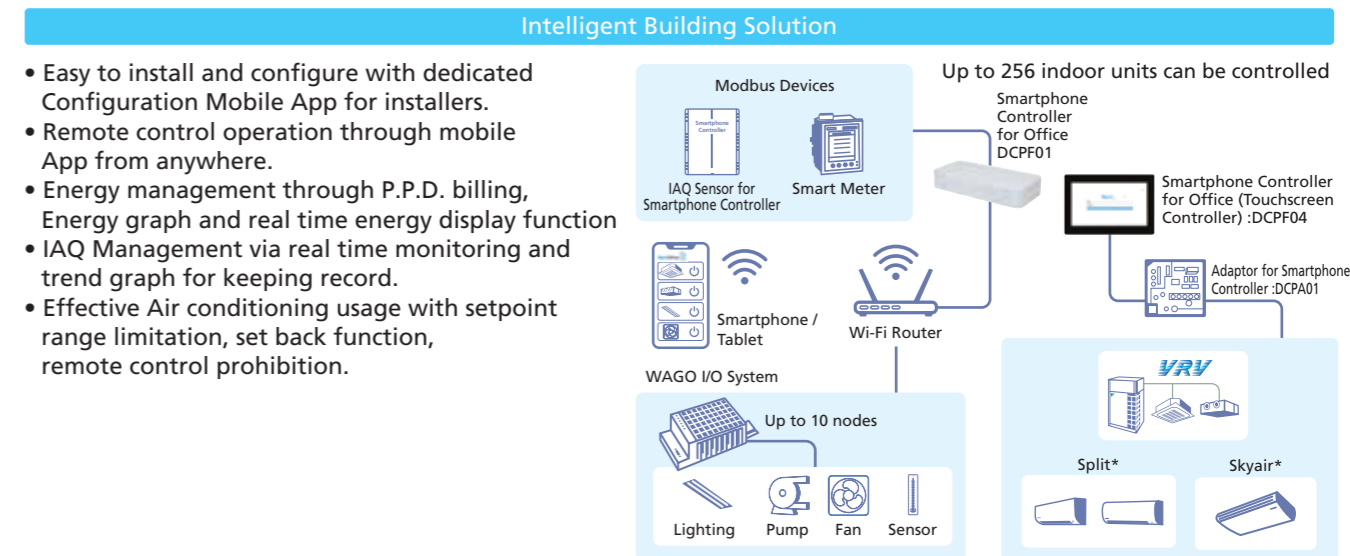
\* Modbus® is a registered trademark of Schneider Electric S.A.

## Complete control system for VRV systems



### Office Air Conditioning Solution (Smartphone Controller for Office :DCPF01 / Smartphone Controller for Office (Touchscreen Controller) :DCPF04)

A simple office buildings air conditioning solution with a secured, cloud enabled platform, allowing greater ease of control and control while being energy-efficient. The flagship model DCPF04 offers the smart control system with a dedicated touch panel.



- Easy to install and configure with dedicated Configuration Mobile App for installers.
- Remote control operation through mobile App from anywhere.
- Energy management through P.P.D. billing, Energy graph and real time energy display function
- IAQ Management via real time monitoring and trend graph for keeping record.
- Effective Air conditioning usage with setpoint range limitation, set back function, remote control prohibition.

### Specifications

Category	Function	Description
Monitoring & Control	Status monitoring	On/Off, setpoint, operation mode, fan step, flap, error, error code, Room temperature
	Manual Operation	On/off, setpoint, operation mode, fan step, flap, scene control <sup>1</sup>
	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 <sup>1</sup>	Number of changeover groups: 100
	Off timer	Off timer duration can set from 5min to 120min with every 5min interval
	Setback <sup>1</sup>	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.
Data Management	Interlock <sup>1</sup>	Interlock operation depending on equipment status
	History, Report <sup>1</sup>	Operation data (latest information and operation report) and error report on daily/monthly basis.
	Trend graph <sup>1</sup> , energy graph <sup>1</sup> Real time energy display <sup>1,2</sup>	Chart on environmental changes and energy (and other meter) values. Daily/ Monthly real time energy consumption status on screen.
P.P.D Billing <sup>1,2</sup>	Generate Bill with Power Proportional Distribution data retrieved from the system.	
System Setting	Language, Password setting, Account setting, Notification, Email Notification	

<sup>1</sup> Optional software for Smartphone Controller for Office, DCPF01

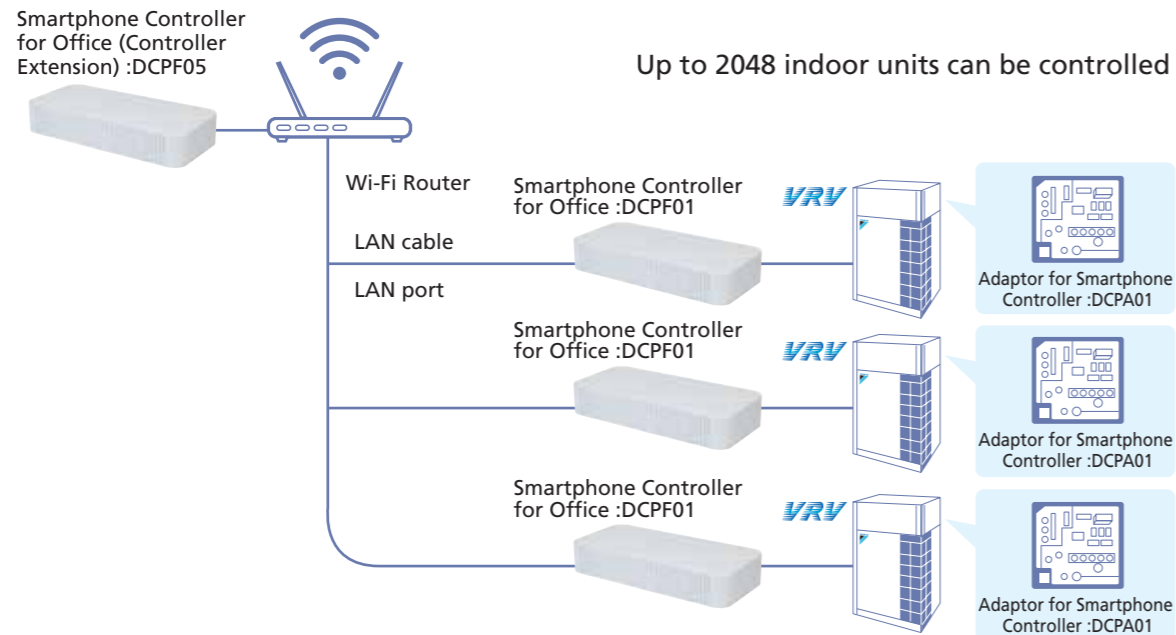
<sup>2</sup> Optional software for Smartphone Controller for Office (Touchscreen Controller), DCPF04

# Control Systems

## Office Expanded Solution (Smartphone Controller for Office (Controller Extension) :DCPF05)

A dedicated control solution for large scale office buildings through centralised control of multiple Smartphone Controller for Office controller on a single secured and cloud-enabled platform.

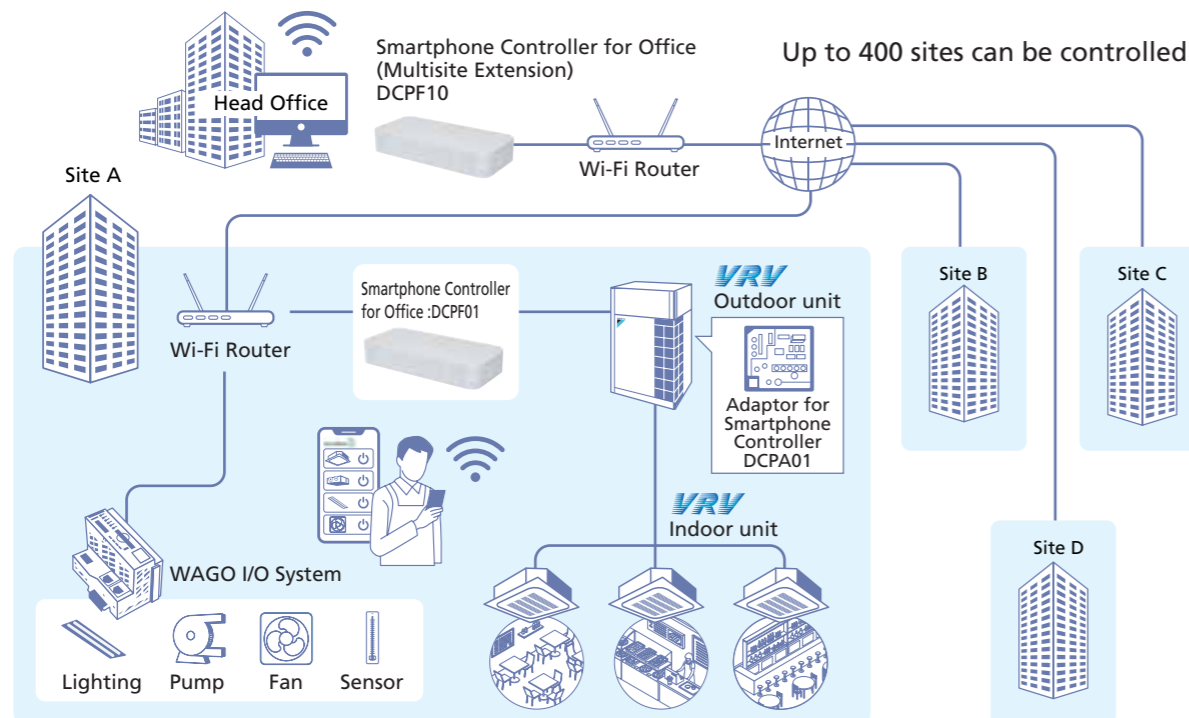
Note: P.P.D. & Tenant Billing Management and Real-Time Energy Monitoring (R.E.M.) are offered as optional software.



## Multi Site Management Solution (Smartphone Controller 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.



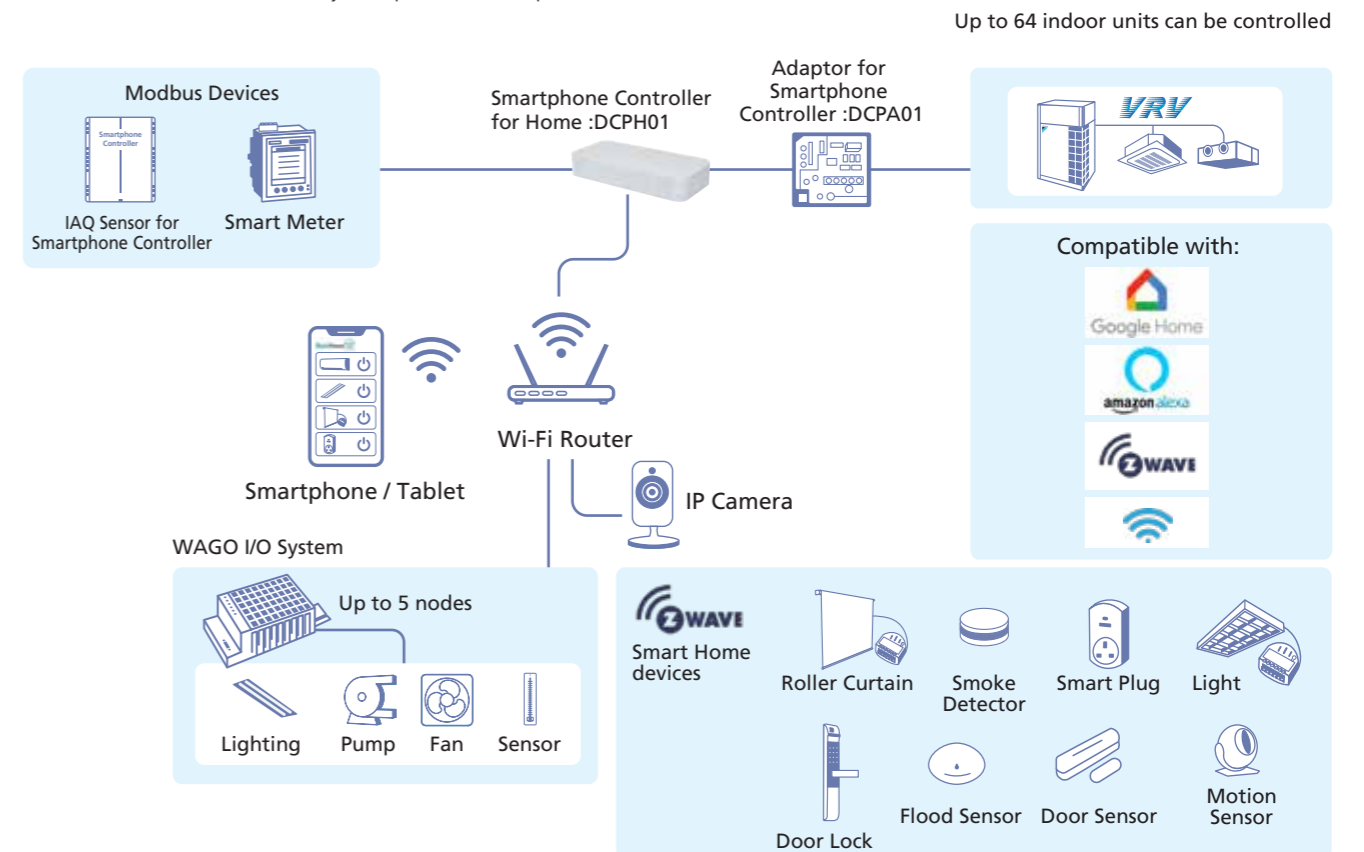
## Smart Home Solution (Smartphone Controller for Home :DCPH01)

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

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

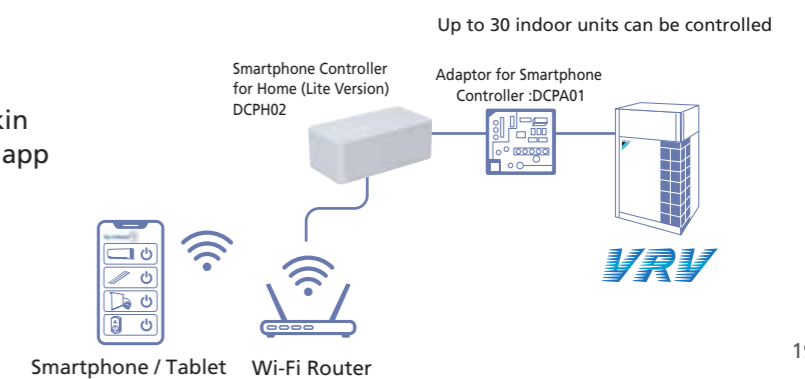


Notes: 1. Google Home and the Google Home logo are trademarks of Google LLC.  
2. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.  
3. Z-Wave® is a registered trademark of Sigma Designs and its subsidiaries in the United States and other countries.

## VRV Smart Centralised Control Solution (Smartphone Controller 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.



# Control Systems

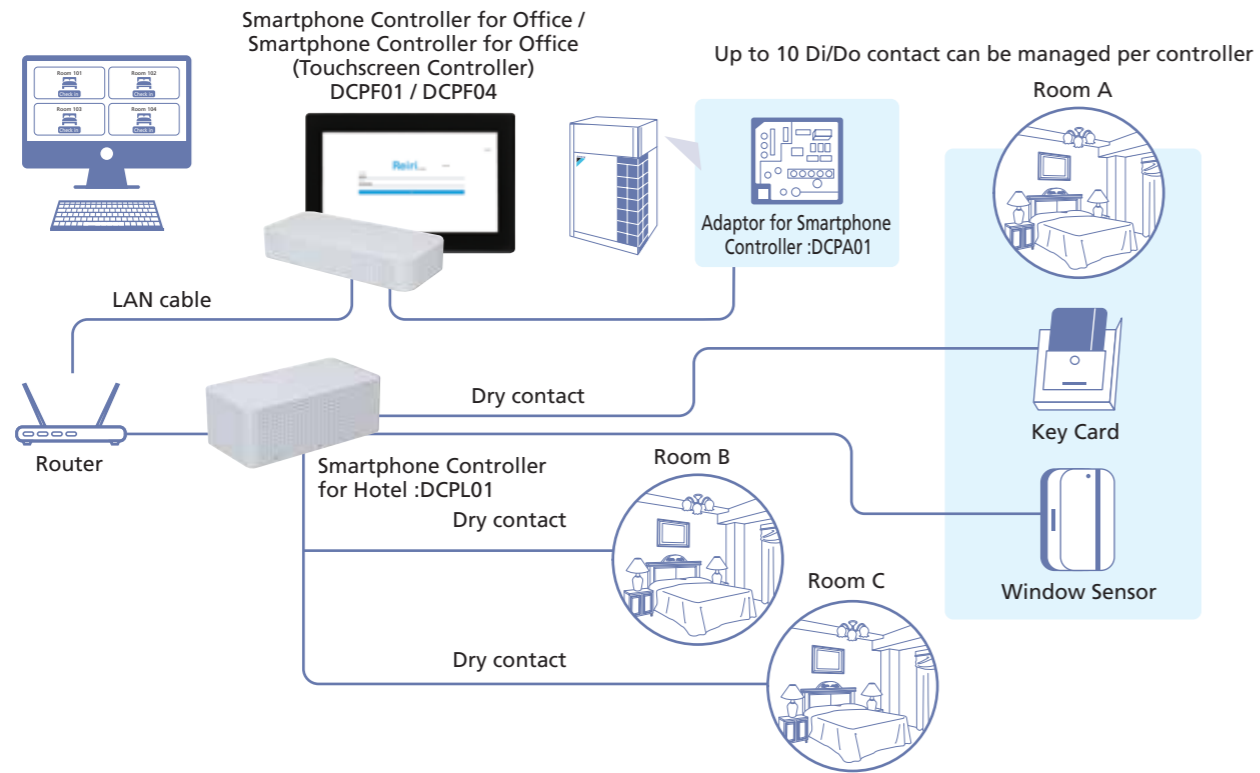
## Hotel Air Conditioning Solution (Smartphone Controller for Hotel :DCPL01)

The smart hotel air conditioning solution for effective air conditioning operation that maximize guest comfort and minimize energy consumption in a hotel

### Air Conditioning Guestroom Interlocking Management

- Automatic air conditioning control based on check in/out signal, key card signal and window open/close signal
- Guest comfort

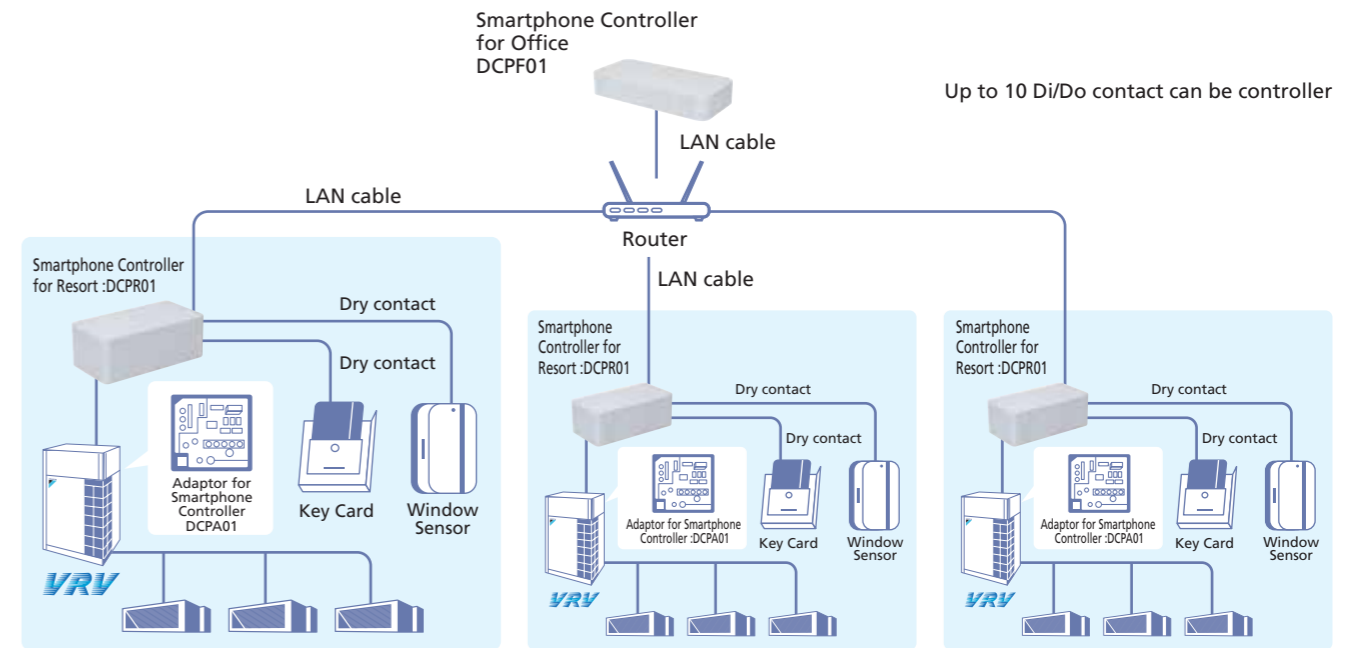
Note: The Smartphone Controller for Hotel controller has to be used with Smartphone Controller for Office / Smartphone Controller for Office (Touchscreen Controller) / Smartphone Controller for Office (Controller Extension) controller as building controller.



## Villa Air Conditioning Solution (Smartphone Controller for Resort :DCPR01)

Designed to enhance the comfort and convenience for each villa according to use by guests

- Automatic air conditioning control based on check in/out signal, key card signal and window open/close signal
- Guest comfort



# Streamer Duct Chamber

**New** BDEZ-A Series

Utilising Streamer technology to ducted indoor unit



Display panel

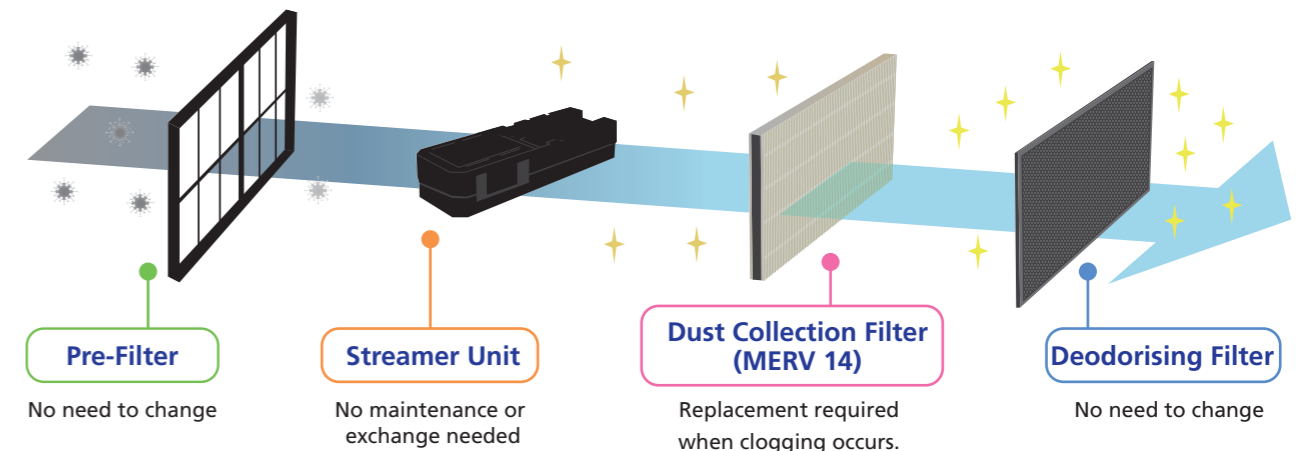
Lineup

Model	BDEZ500A60VE	BDEZ500A140VE	BDEZ500A510VE
Airflow range (CMH)	80-600	500-1400	1200-5100



Presentation Movie

## Filters Mechanism



## Streamer Duct Chamber Internal Structure

Dust collection filter (MERV 14) catches bacteria and viruses and prevents them from entering the room.

### Dust Collection Filter (MERV 14)

Particulate matter as small as 2.5 µm (micrometers) can be breathed deep into the lungs. Rest assured that your air remains clean as the filter is able to remove particulate matter as small as PM2.5 with Dust Collection Filter (MERV 14) ratings in accordance to ASHRAE 52.2 Standards.

Product: Streamer Duct Chamber (Line-Up 1,2,3)  
 Testing Organization: Goldensea  
 Test Number: GS-GL-0817-2021-01/02, GS-GL-0818-2021-01  
 Test Method: Filter performance test based on ASHRAE 52.2-2017  
 Test result: The filter meets MERV 14 rating.

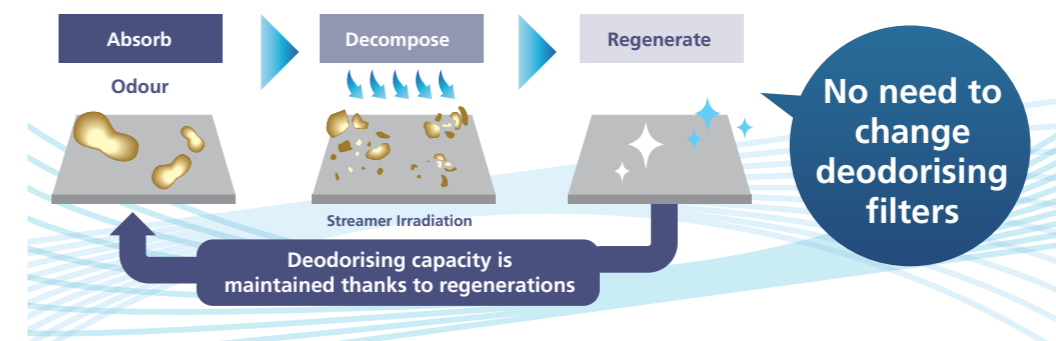
Standard 52.2 Minimum Efficiency Reporting Value	Composite Average Particle Size Efficiency, % in Size Range, µm		
	Range 1 (0.3-1.0)	Range 2 (1.0-3.0)	Range 3 (3.0-10.0)
14	75%	90%	95%

### Dust Collection Filter (MERV 14) Replacement Period

Air Quality Condition	Dust concentration (µg/m <sup>3</sup> )		Replacement period
	PM2.5	PM10	
Case 1	18.5	28.5	12 months
Case 2	35	65	6 months

Replace with a new filter when clogging occurs. The left table shows the approximate replacement time when daily operation is 9 hours and annual operation are 240 days. It shows the calculation result for two air conditions. Adjust the replacement timing in consideration of the air environment in the area where the product is actually installed and the time and day it is operated.

## Deodorising Filter

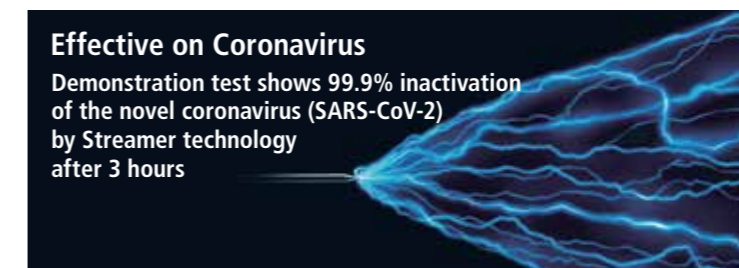


## Streamer Technology



Streamer technology decomposes harmful substances caught by the filter. See page 3-4

Streamer technology is a unique Daikin technology that decomposes viruses, bacteria, allergens such as pollen, hazardous chemical substances such as formaldehyde, and odours with strong decomposing power.



DAIKIN Streamer Research Institute

# Streamer Duct Chamber

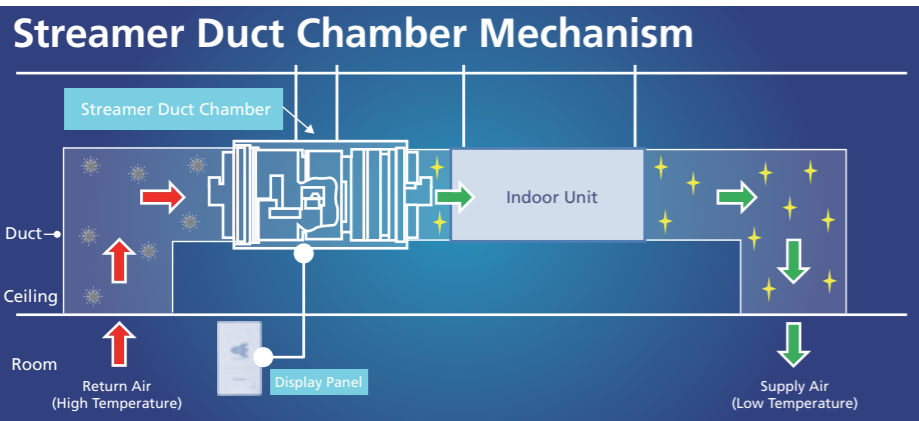


## Connectable Air Conditioning

Multiple combination of ducted unit



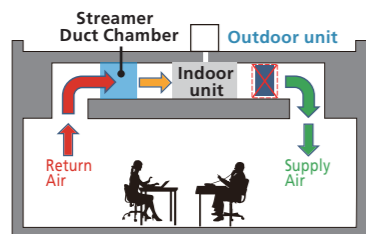
\* Any ducted type indoor units except FXDSQ/FXDQ models are connectable. Refer to option list of indoor unit for details of connected models.



## Installation Conditions

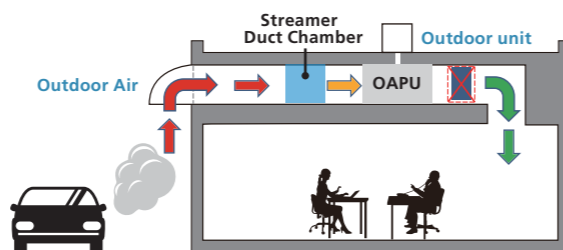
### Duct Type Indoor Unit

Streamer Duct Chamber must be installed before the air conditioner unit to avoid condensation issue due to cold air draft.



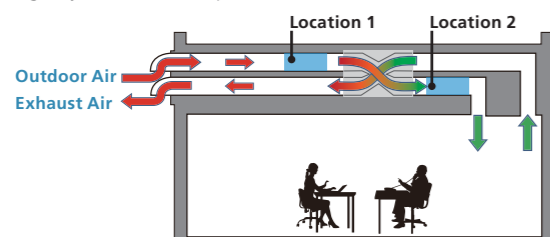
### Outdoor-Air Processing Unit

Streamer Duct Chamber must be installed before the air conditioner unit to avoid condensation issue due to cold air draft. Besides, it can avoid the outdoor-air processing unit from getting dirty with the outdoor polluted air.






### Heat Reclaim Ventilator

Streamer Duct Chamber can be installed in either Location 1 or Location 2. However, Location 1 is highly recommended in order to avoid VAM from getting dirty with the outdoor polluted air.



## Specifications


MODEL	  		
	BDEZ500A60VE	BDEZ500A140VE	BDEZ500A510VE
Power supply	1 phase, 220-240 V, 50 Hz		
Casing dimensions	H (mm)	269	318
	W (mm)	419	1419
	D (mm)	418	653
Operating temperature	-10 to 50		
Operating humidity	Max. 80%RH		
Airflow rate	CMH	80 - 600	1200 - 5100
Initial pressure drop	Pa	5 - 59	16 - 156
Dust collection filter (MERV 14) lifespan	Months (based on median CMH)	12	12
Weight	kg	13	38
Power consumption	W	6.0	11.0
Sound pressure level	No increase in Sound Pressure Level as overall system		
Filters quantity	Pre-filter	1	4
	Dust collection filter (MERV14)	1	4
	Deodorising filter	1	4
Replacement filter dust collection filter (MERV 14)		BAFH500A60 (1pc)	BAFH500A140 (2pcs)
Dimensions HxWxD	mm	221 x 392 x 50 (referring to 1pc only)	
Working method	DP sensor		

# Precision Piping Method

## A smarter way to connect refrigerant piping for VRV installations

Using TIGHTFIT (Daikin Gas Tight Joint) ensures safety, easy connection work and quick installation. In addition, heavy equipment, such as gas cylinders used for brazing, becomes unnecessary.

**TIGHTFIT**



**TIGHTFIT**  
(Daikin Gas Tight Joint)

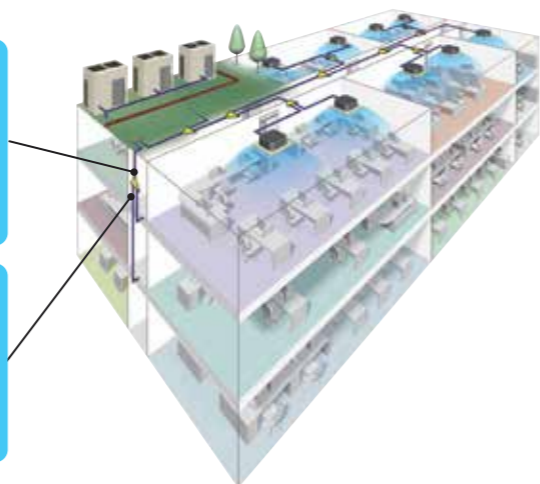
- ✓ Easy installation by tightening with a wrench
- ✓ Metal seal to eliminate gas leaks
- ✓ Function to prevent insufficient nut tightening

**Non-Brazed REFNET Joint**



**Non-Brazed REFNET Joint** New


- ✓ Non-Brazed connection
- ✓ Directly connects to Tightfit
- ✓ Insulation material conforms to British Standard fire protection



## Easy piping connection for residential installations

When installing a small-size VRV in a residential home, we suggest using a header pack to reduce construction and simplify installation. This also eliminates the need for heavy tools.


**HEADER PACK**




**HEADER PACK (Packaged Refnet Headers)**

- ✓ Time Saver using Quick Flare Nut Connection
- ✓ Compact design with low height
- ✓ Connects up to 4 and 6 indoor units


**Soft copper pipe**




**Indoor unit**



**Outdoor unit**



**TIGHTFIT**




There are also cases where Tightfit is used.

## Innovative problem solving for VRV refrigerant piping installation


**Shorter installation time**

Easy piping work significantly shortens installation time. This makes installation possible for projects with short deadlines while reducing labor costs.



**Safety for Fire**

Because no brazing is involved, installation is safe with no danger of fire. This makes it ideal for installation in renewal projects.



**Easy work**

- Torque for tightening nut is lower than the torque of the flare nut.
- Work can be safely performed even in high locations.
- Two wrenches are used to tighten pipe connection. (No special tools required.)

Torque for tightening flare nut

75Nm

Torque for Tightfit tightening

19Nm


**LOW TORQUE**

75%

<φ15.9 copper pipe>

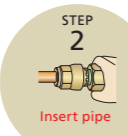
**Installation completed in 4 steps**

STEP 1



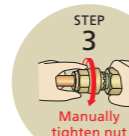
Mark insertion standard line

STEP 2



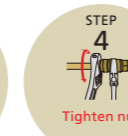
Insert pipe

STEP 3




Manually tighten nut

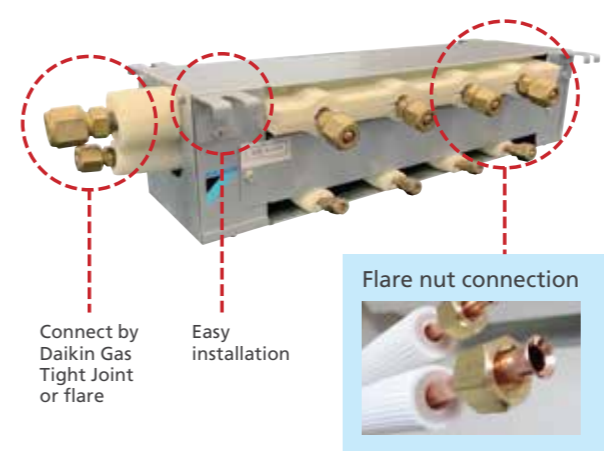
STEP 4



Tighten nut




**HEADER PACK**



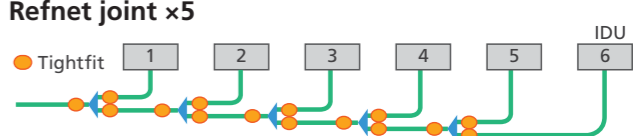
Connect by Daikin Gas Tight Joint or flare

Easy installation

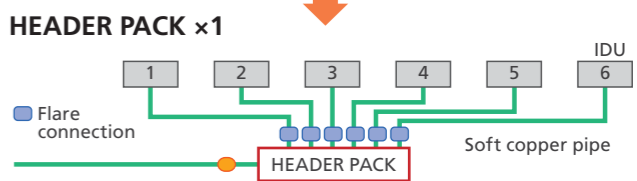
**Flare nut connection**



**Refnet joint x5**



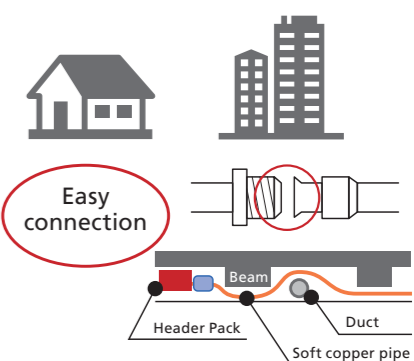
**HEADER PACK x1**



**Benefits of Header Pack**

- Ideal for small-size properties and condominiums
- Fewer piping connections
- Flare connection makes it easy to connect
- Easy installation with substantial use of soft copper pipes (Good workability in high places and narrow spaces.)

**Easy connection**



# Precision Piping Method

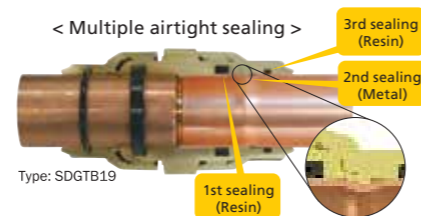
## TIGHTFIT (Daikin Gas Tight Joint)

### Quality assurance

Conforms to ISO14903

Tightness test: P=4.3MPa;  
Test medium: 100% Helium, T=22°C  
Max leakage: 7.5 x 10<sup>-7</sup> Pa·m<sup>3</sup> /s or less.  
Vacuum test: 6.5kPa in absolute

Easy to fit, tight connection



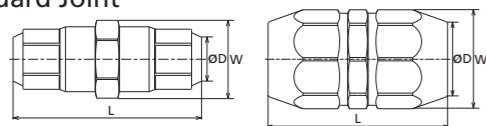
Type: SDGTB19

### TIGHTFIT full lineup

Standard Joint		Asymmetry Joint		90° Bend Joint		Test Plug	
Size	Model name	Size	Model name	Size	Model name	Size	Model name
ø6.35	SDGTB06	ø9.52-6.35	SDGTB0906	-	-	ø6.35	SDGTKB06
ø9.52	SDGTB09	ø12.70-9.52	SDGTB1209	-	-	ø9.52	SDGTKB09
ø12.70	SDGTB12	ø15.88-12.70	SDGTB1512	-	-	ø12.70	SDGTKB12
ø15.88	SDGTB15	ø19.05-15.88	SDGTB1915	-	-	ø15.88	SDGTKB15
ø19.05	SDGTB19	ø22.22-19.05	SDGTB2219	-	-	ø19.05	SDGTKB19
ø22.22	SDGTB22	ø25.40-22.22	SDGTB2522	ø22.22	SDGTLB22	ø22.22	SDGTKB22
ø28.58	SDGTB28	ø28.58-25.40	SDGTB2825	ø28.58	SDGTLB28	ø28.58	SDGTKB28
ø34.92	BDGTA34	ø34.92-28.58	SDGTB3428	-	-	-	-
ø41.28	BDGTA41	-	-	-	-	-	-

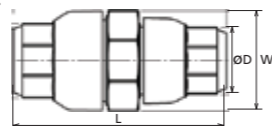
### Dimension & weight

#### Standard Joint



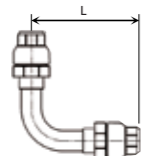
Size	L (mm)	W (mm)	Weight (g)
ø6.35	50.4	15.0	43.0
ø9.52	55.0	19.9	79.0
ø12.70	59.0	23.5	113.0
ø15.88	74.0	30.0	210.0
ø19.05	76.8	34.6	273.0
ø22.22	83.4	40.2	292.0
ø28.58	88.0	46.7	515.0
ø34.92	101.5	51.1	686.0
ø41.28	103.5	58.3	881.0

#### Asymmetry Joint



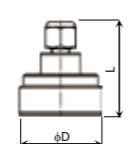
Size	L (mm)	W (mm)	Weight (g)
ø9.52-6.35	52.7	19.9	67.0
ø12.70-9.52	57.5	23.5	101.0
ø15.88-12.70	65.0	30.0	164.0
ø19.05-15.88	76.8	34.6	244.0
ø22.22-19.05	81.5	40.2	358.0
ø25.40-22.22	85.8	43.5	444.0
ø28.58-25.40	88.1	46.7	505.0
ø34.92-28.58	101.5	51.1	645.0

#### 90° Bend Joint



Size	L (mm)	Weight (g)
ø22.22	120.0	655.7
ø28.58	145.0	968.4

#### Test Plug



Size	L (mm)	W (mm)	Weight (g)
ø6.35	43.0	15.0	53.0
ø9.52	44.0	20.0	67.6
ø12.70	46.0	23.0	73.4
ø15.88	50.0	30.0	96.6
ø19.05	52.0	34.0	111.7
ø22.22	54.0	40.0	135.6
ø28.58	54.0	46.0	146.0

## New Non-Brazed REFNET Joint

Direct connection to TIGHTFIT

This kit is designed as a refrigerant branch kit for connecting the main and branch pipes of VRV indoor units without brazing.

### Lineup



※ Insulation included

Case 1: If the pipe of the REFNET joint has the same size as the field pipe, cut it at the same size and connect it to the field pipe with the standard type of Daikin Gas Tight Joint.

Case 2: If the pipe of the REFNET joint has not the same size as the field pipe, use the Asymmetry joint (Reducer).

Indoor unit total capacity index	Model name	
	2 pipes	3 pipes
X < 290	BHRG26A33T	BHRG25A33T
290 ≤ X < 640	BHRG26A72T	BHRG25A72T
640 ≤ X	BHRG26A73T	BHRG25A73T

## HEADER PACK (Packaged Refnet Headers)

Simple & Quick Installation

### HEADER PACK Lineup

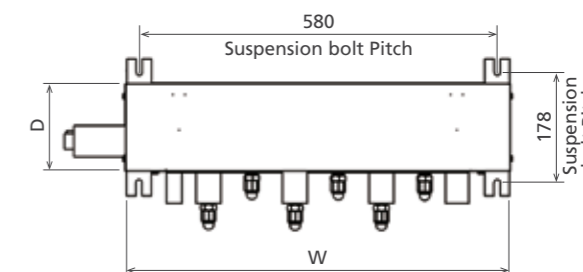
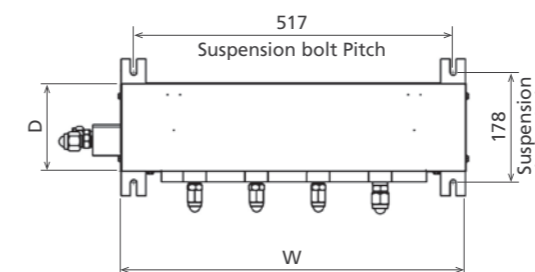
Model name	Outdoor unit side	Indoor unit side (Flare)		Indoor unit total capacity index	Dimension (mm)			
	Liquid / Gas (mm)	Port	Liquid / Gas (mm)		H	D	W	
BHF6RHP6Z	9.5 / 15.9 (Flare)	4	Large x1 Small x3	φ9.5 / φ15.9 φ6.4 / φ12.7	≤ 150	135	143	559
BHF6ARHP6Z	9.5 / 15.9 (Flare)	6	Large x2 Small x4	φ9.5 / φ15.9 φ6.4 / φ12.7	≤ 150	135	143	623
BHF8RHP6Z	9.5 / 19.1 (Daikin Gas Tight Joint)	6	Large x3 Small x3	φ9.5 / φ15.9 φ6.4 / φ12.7	≤ 200	135	143	623
BHF10RHP6Z	9.5 / 22.2 (Daikin Gas Tight Joint)	6	Large x3 Small x3	φ9.5 / φ15.9 φ6.4 / φ12.7	< 290	135	143	623
BHF16RHP6Z	12.7 / 28.6 (Daikin Gas Tight Joint)	6	Large x3 Small x3	φ9.5 / φ15.9 φ6.4 / φ12.7	< 420	135	143	623



BHF6RHP6Z



BHF6ARHP6Z, BHF8/10/16RHP6Z

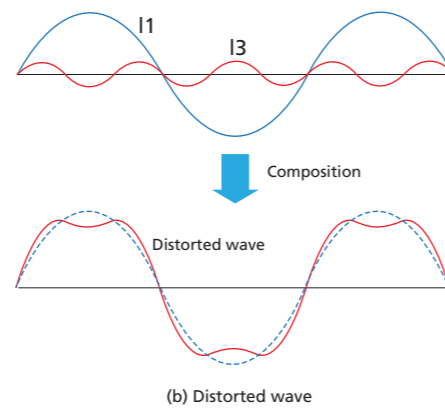
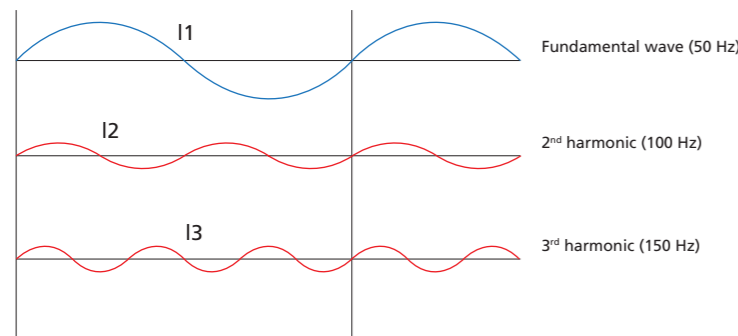




# Active Filter Unit

## BACF22E5 (Option) For VRV X (MAX) / A (MAX) series

In an electric power system, a harmonic is a voltage or current that is distorted and deviate from sinusoidal waveforms. The distorted waveforms occur from the composition of a frequency that is an integer multiple of the fundamental frequency of the power supply. Harmonics generated by power semiconductor devices can travel through wires and may have negative effects such as equipment malfunctions and damage, vibrations, strange noises, etc.

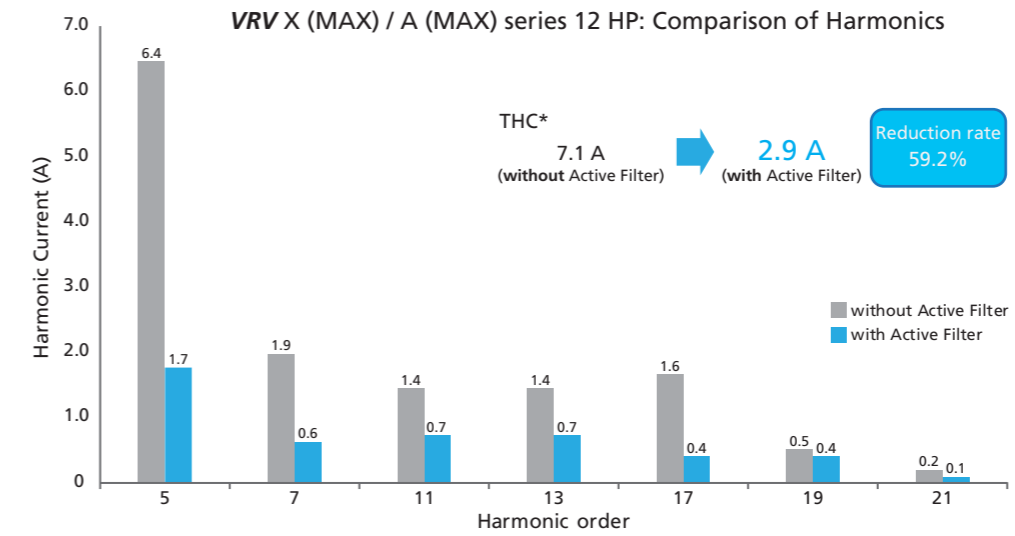


### Specifications

MODEL	BACF22E5	
Power supply	3 φ, 380 – 415 V, 50 Hz	
Rated compensation capacity	4.6 kVA	
Installation environment	Outdoors	
System	Cooling	Forced air cooling (built-in fan)
	Inverter	Voltage type
Operation	Load current: Starting 5.5 A or more, stopping 4.0 A or less	
Error display	Displayed on the display board when an error occurs	
Operation characteristics	Harmonic compensation target order: 2 <sup>nd</sup> to 23 <sup>rd</sup> However, the residual rate changes depending on the power supply impedance.	
Dimensions (HxWxD)	723 x 334 x 249 mm	
Weight	22 kg	

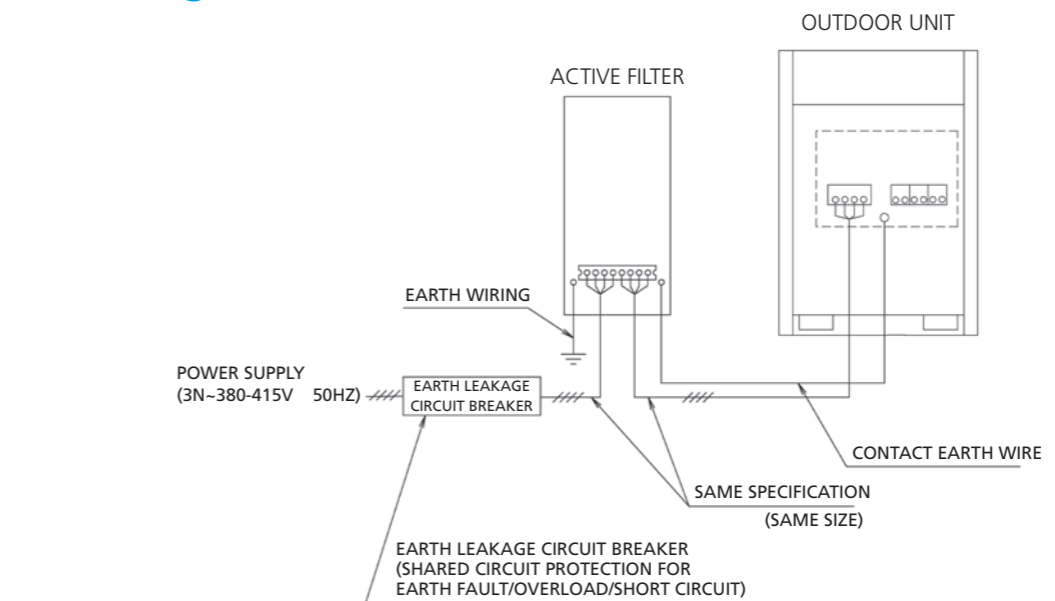
### Advantages of Active Filter

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



\*Total Harmonic Current (THC) is the accumulated currents of the orders 2 to 23 that contribute to the distortion of the current waveform. This value is particularly useful in determining the required characteristics for installation of modern active harmonic filters.

### Field Wiring



\* Refer to the Engineering Data Book for details.

# Option List

## Outdoor units



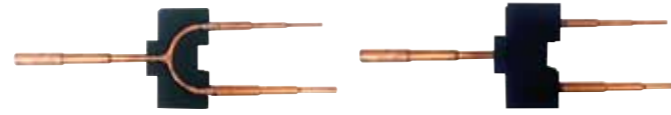
No.	Item		Type	RXUQ6A(W) RXUQ8A(W) RXUQ10A(W)	RXUQ12A(W) RXUQ14A(W) RXUQ16A(W) RXUQ18A(W) RXUQ20A(W)	RXUQ12AM(W) RXUQ14AM(W) RXUQ16AM(W) RXUQ18AM(W) RXUQ20AM(W)	RXUQ18AM(W) RXUQ20AM(W)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T			
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T				
2	Outdoor unit multi connection piping kit		—	BHFP22P100			
3	Active filter unit		BACF22E5				

No.	Item		Type	RXUQ24AM(W) RXUQ26AM(W) RXUQ28AM(W) RXUQ30AM(W) RXUQ32AM(W)	RXUQ34AM(W) RXUQ36AM(W) RXUQ38AM(W) RXUQ40AM(W)	RXUQ42AM(W) RXUQ44AM(W) RXUQ46AM(W) RXUQ48AM(W) RXUQ50AM(W)	RXUQ52AM(W) RXUQ54AM(W) RXUQ56AM(W) RXUQ58AM(W) RXUQ60AM(W)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T				
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP				
3	Outdoor unit multi connection piping kit		BHFP22P100	—			BHFP22P151
4	Active filter unit		BACF22E5				

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



Non-Brazed REFNET Joint for TIGHTFIT  
(BHRG26A33/72/73T)



### Option PCB

No.	Item		Type	RXUQ6A(W) RXUQ8A(W)	RXUQ10A(W) RXUQ12A(W) RXUQ14A(W) RXUQ16A(W) RXUQ18A(W) RXUQ20A(W)	RXUQ12AM(W) RXUQ14AM(W) RXUQ16AM(W) RXUQ18AM(W) RXUQ20AM(W)	RXUQ18AM(W) RXUQ20AM(W)
1	DIII-NET expander adaptor ★		DTA109A51				
2	External control adaptor ★		DTA104A61				
3	Home Automation Interface Adaptor ★		DTA116A51				
4	Option plate for control adaptor		—	BKS26A*1	—	—	BKS26A*1

No.	Item		Type	RXUQ22AM(W) RXUQ24AM(W) RXUQ26AM(W) RXUQ28AM(W) RXUQ30AM(W)	RXUQ32AM(W) RXUQ34AM(W) RXUQ36AM(W) RXUQ38AM(W) RXUQ40AM(W)	RXUQ42AM(W) RXUQ44AM(W) RXUQ46AM(W) RXUQ48AM(W) RXUQ50AM(W)	RXUQ52AM(W) RXUQ54AM(W) RXUQ56AM(W) RXUQ58AM(W) RXUQ60AM(W)
1	DIII-NET expander adaptor ★		DTA109A51				
2	External control adaptor ★		DTA104A61				
3	Home Automation Interface Adaptor ★		DTA116A51				
4	Option plate for control adaptor		BKS26A*1				

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



No.	Item		Type	RXQ6A(W) RXQ8A(W) RXQ10A(W)	RXQ12A(W) RXQ14A(W) RXQ16A(W)	RXQ18A(W) RXQ20A(W)	RXQ18AM(W) RXQ20AM(W) RXQ22AM(W)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T			
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T				
2	Outdoor unit multi connection piping kit		—				BHFP22P100
3	Active filter unit		BACF22E5				

No.	Item		Type	RXQ24AM(W) RXQ26AM(W) RXQ28AM(W) RXQ30AM(W) RXQ32AM(W)	RXQ34AM(W) RXQ36AM(W) RXQ38AM(W) RXQ40AM(W)	RXQ42AM(W) RXQ44AM(W) RXQ46AM(W) RXQ48AM(W) RXQ50AM(W)	RXQ52AM(W) RXQ54AM(W) RXQ56AM(W) RXQ58AM(W) RXQ60AM(W)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T				
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP				
3	Outdoor unit multi connection piping kit		BHFP22P100			BHFP22P151	
4	Active filter unit		BACF22E5				

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



Non-Brazed REFNET Joint for TIGHTFIT  
(BHRG26A33/72/73T)



### Option PCB

No.	Item		Type	RXQ6A(W) RXQ8A(W) RXQ10A(W) RXQ12A(W)	RXQ14A(W) RXQ16A(W) RXQ18A(W) RXQ20A(W)	RXQ18AM(W) RXQ20AM(W) RXQ22AM(W) RXQ24AM(W)	RXQ26AM(W) RXQ28AM(W) RXQ30AM(W)
1	DIII-NET expander adaptor ★		DTA109A51				
2	External control adaptor ★		DTA104A61				
3	Home Automation Interface Adaptor ★		DTA116A51				
4	Option plate for control adaptor		—	BKS26A*1	—	—	BKS26A*1

No.	Item		Type	RXQ32AM(W) RXQ34AM(W) RXQ36AM(W) RXQ38AM(W)	RXQ40AM(W) RXQ42AM(W) RXQ44AM(W) RXQ46AM(W)	RXQ48AM(W) RXQ50AM(W) RXQ52AM(W) RXQ54AM(W)	RXQ56AM(W) RXQ58AM(W) RXQ60AM(W)
1	DIII-NET expander adaptor ★		DTA109A51				
2	External control adaptor ★		DTA104A61				
3	Home Automation Interface Adaptor ★		DTA116A51				
4	Option plate for control adaptor		BKS26A*1				

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

# Option List

## Outdoor units

### VRV S High Seasonal Efficiency SERIES

No.	Item	Type	RSUQ4A	RSUQ5A	RSUQ6A	RSUQ7A	RSUQ8A	RSUQ9A
1	Header pack		BHF6RHP6Z, BHF6ARHP6Z, BHF8RHP6Z, BHF10RHP6Z					
2	REFNET header		KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)					
3	REFNET joint		KHRP26A22T			KHRP26A22T, KHRP26A33T		
4	Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T					
5	Drain plug		BKP082A41			—		
6	Air direction adjustment grille		KPW082A41					

### Option PCB

No.	Item	Type	RSUQ4A	RSUQ5A	RSUQ6A	RSUQ7A	RSUQ8A	RSUQ9A
1	DIII-NET expander adaptor ★		DTA109A51					
2	External control adaptor ★		DTA104A61					
3	Home Automation Interface Adaptor ★		DTA116A51					
4	Option plate for control adaptor		BKS26B*1			BKS26C*1		

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

### VRV IV S SERIES

No.	Item	Type	RXMQ4A	RXMQ5B	RXMQ6B
1	Header pack		BHF6RHP6Z, BHF6ARHP6Z, BHF8RHP6Z		
2	REFNET header		KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)		
3	REFNET joint		KHRP26A22T		
4	Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T		
5	Central drain plug		KKPJ5H280		
6	Fixture for preventing overturning		KKT5B112		

### VRV IV Q SERIES Standard Type

No.	Item	Type	RQQ6T(E) RQQ8T(E) RQQ10T(E)	RQQ12T(E) RQQ14T(E) RQQ16T(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	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T	

No.	Item	Type	RQQ18TN(E) RQQ20TN(E) RQQ22TN(E)	RQQ24TN(E) RQQ26TN(E) RQQ28TN(E)	RQQ30TN(E) RQQ32TN(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch), KHRP26M72H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch)	
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T		
2	Pipe size reducer	—	KHRP26M73TP, KHRP26M73HP		
3	Outdoor unit multi connection piping kit		BHFP22P100		

No.	Item	Type	RQQ34TN(E) RQQ36TN(E)	RQQ38TN(E) RQQ40TN(E)	RQQ42TN(E) RQQ44TN(E)	RQQ46TN(E) RQQ48TN(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Pipe size reducer	KHRP26M73TP, KHRP26M73HP				
3	Outdoor unit multi connection piping kit	BHFP22P151				

### VRV IV Q SERIES Space Saving Type

No.	Item	Type	RQQ18T(E) RQQ20T(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max.4 branch) (Max.8 branch) (Max.8 branch)
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T

No.	Item	Type	RQQ30TS(E) RQQ32TS(E) RQQ34TS(E)	RQQ36TS(E) RQQ38TS(E) RQQ40TS(E)	RQQ42TS(E) RQQ44TS(E)	RQQ46TS(E) RQQ48TS(E)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
		Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Pipe size reducer	KHRP26M73TP, KHRP26M73HP				
3	Outdoor unit connection piping kit	BHFP22P100		BHFP22P151		

# Option List

## Outdoor units

### VRV IV W SERIES

No.	Item		Type	RWEYQ6T RWEYQ8T RWEYQ10T RWEYQ12T	RWEYQ14T RWEYQ16T RWEYQ18T RWEYQ20T RWEYQ22T RWEYQ24T	RWEYQ26T RWEYQ28T RWEYQ30T RWEYQ32T RWEYQ34T RWEYQ36T
1	Distributive piping	REFNET header		KHRP25M33H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP25M73H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch)
		REFNET joint		KHRP25A22T, KHRP25A33T, KHRP26A22T, KHRP26A33T	KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP26A22T, KHRP26A33T, KHRP26A72T	KHRP25A22T, KHRP25A33T, KHRP25A72T, KHRP25A73T, KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T
		Non-Brazed REFNET Joint for TIGHTFIT		BHRG25A33T, BHRG25A72T, BHRG25A73T BHRG26A33T, BHRG26A72T, BHRG26A73T		
2	Outside unit multi connection piping kit			—	BHFP22MA56	BHFP22MA84
3	External control adaptor			DTA104A62		
4	Strainer kit			BWU26A15, BWU26A20		

### VRV IV HEAT RECOVERY HOT WATER SYSTEM High-COP Type

No.	Item		Type	RWHQ12TH RWHQ14TH RWHQ16TH
1	Distributive piping	REFNET header		KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)
		REFNET joint		KHRP26A22T, KHRP26A33T, KHRP26A72T
		Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T
2	Outdoor unit multi connection piping kit			BHFP22P100
3	Hot water controller box			BRCM82
4	Hot water remote controller			BRC582

No.	Item		Type	RWHQ18TH RWHQ20TH RWHQ22TH	RWHQ24TH RWHQ26TH RWHQ28TH	RWHQ30TH RWHQ32TH RWHQ34TH
1	Distributive piping	REFNET header		KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)	
		REFNET joint		KHRP26A22T, KHRP26A33T, KHRP26A72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
		Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T		
2	Pipe size reducer			—	KHRP26M73TP, KHRP26M73HP	
3	Outdoor unit multi connection piping kit			BHFP22P151		
4	Hot water controller box			BRCM82		
5	Hot water remote controller			BRC582		

No.	Item		Type	RWHQ36TH RWHQ38TH	RWHQ40TH RWHQ42TH	RWHQ44TH RWHQ46TH	RWHQ48TH RWHQ50TH
1	Distributive piping	REFNET header		KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint		KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
		Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Pipe size reducer			KHRP26M73TP, KHRP26M73HP			
3	Outdoor unit multi connection piping kit			BHFP22P151			
4	Hot water controller box			BRCM82			
5	Hot water remote controller			BRC582			

### VRV IV HEAT RECOVERY HOT WATER SYSTEM Standard Type

No.	Item		Type	RWHQ6T RWHQ8T RWHQ10T	RWHQ12T RWHQ14T RWHQ16T
1	Distributive piping	REFNET header		KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)
		REFNET joint		KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T
		Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T	
2	Hot water controller box			BRCM82	
3	Hot water remote controller			BRC582	

No.	Item		Type	RWHQ18TN RWHQ20TN RWHQ22TN	RWHQ24TN RWHQ26TN RWHQ28TN	RWHQ30TN RWHQ32TN
1	Distributive piping	REFNET header		KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H, KHRP26M73H (Max. 8 branch) (Max. 8 branch)	
		REFNET joint		KHRP26A22T, KHRP26A33T, KHRP26A72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
		Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T		
2	Pipe size reducer			—	KHRP26M73TP, KHRP26M73HP	
3	Outdoor unit multi connection piping kit			BHFP22P100		
4	Hot water controller box			BRCM82		
5	Hot water remote controller			BRC582		

No.	Item		Type	RWHQ34TN RWHQ36TN RWHQ38TN RWHQ40TN	RWHQ42TN RWHQ44TN RWHQ46TN RWHQ48TN	RWHQ50TN RWHQ52TN RWHQ54TN RWHQ56TN	RWHQ58TN RWHQ60TN
1	Distributive piping	REFNET header		KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)			
		REFNET joint		KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
		Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Pipe size reducer			KHRP26M73TP, KHRP26M73HP			
3	Outdoor unit multi connection piping kit			BHFP22P151			
4	Hot water controller box			BRCM82			
5	Hot water remote controller			BRC582			

### VRV IV HEAT RECOVERY HOT WATER SYSTEM Space Saving Type

No.	Item		Type	RWHQ18T RWHQ20T
1	Distributive piping	REFNET header		KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)
		REFNET joint		KHRP26A22T, KHRP26A33T, KHRP26A72T
		Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T
2	Hot water controller box			BRCM82
3	Hot water remote controller			BRC582

No.	Item		Type	RWHQ22TS	RWHQ24TS RWHQ26TS RWHQ28TS	RWHQ30TS RWHQ32TS RWHQ34TS	RWHQ36TS RWHQ38TS RWHQ40TS
1	Distributive piping	REFNET header		KHRP26M22H, KHRP26M33H, (Max. 4 branch) (Max. 8 branch) KHRP26M72H (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)		
		REFNET joint		KHRP26A22T, KHRP26A33T, KHRP26A72T	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T		
		Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T			
2	Pipe size reducer			—	KHRP26M73TP, KHRP26M73HP		
3	Outdoor unit multi connection piping kit			BHFP22P100			
4	Hot water controller box			BRCM82			
5	Hot water remote controller			BRC582			

No.	Item		Type	RWHQ42TS RWHQ44TS RWHQ46TS	RWHQ48TS RWHQ50TS
1	Distributive piping	REFNET header		KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch) (Max. 8 branch)	
		REFNET joint		KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T	
		Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T	
2	Pipe size reducer			KHRP26M73TP, KHRP26M73HP	
3	Outdoor unit multi connection piping kit			BHFP22P151	
4	Hot water controller box			BRCM82	
5	Hot water remote controller			BRC582	

# Option List

## VRV indoor units

### Round Flow Cassette with Sensing and Streamer Type



No.	Item		Type	FXFTQ25A	FXFTQ50A	FXFTQ100A
				FXFTQ32A	FXFTQ63A	FXFTQ125A
				FXFTQ40A	FXFTQ80A	FXFTQ140A
1	Decoration panel	Standard panel with sensing	Fresh white	BYCQ125EEF		
			Black	BYCQ125EEK		
		Standard panel	Fresh white	BYCQ125EAF *		
			Black	BYCQ125EAK *		
			Designer panel <sup>1</sup>	BYCQ125EAPF *		
Auto grille panel <sup>2,3</sup>	Fresh white	BYCQ125EBSF *				
2	Panel spacer			KDB55J160F		
3	Fresh air intake kit	Chamber type <sup>4,5</sup>	Without T-duct joint	KDDP55C160 (Components: KDDP55C160-1, KDDP55C160-2) <sup>7</sup>		
			With T-duct joint	KDDP55C160K (Components: KDDP55C160-1, KDDP55C160K2) <sup>7</sup>		
		Direct installation type <sup>6</sup>	KDDP55X160A			
4	High performance prefilter (MERV 8) <sup>8</sup>			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 <sup>9</sup>			KDTP55K80B	KDTP55K160B	

### Round Flow Cassette with Streamer Type



No.	Item		Type	FXFRQ25A	FXFRQ50A	FXFRQ100A
				FXFRQ32A	FXFRQ63A	FXFRQ125A
				FXFRQ40A	FXFRQ80A	FXFRQ140A
1	Decoration panel	Standard panel	Fresh white	BYCQ125EAF *		
			Black	BYCQ125EAK *		
		Designer panel <sup>1</sup>	Fresh white	BYCQ125EAPF *		
			Auto grille panel <sup>2,3</sup>	Fresh white	BYCQ125EBSF *	
2	Panel spacer			KDB55J160F		
3	Fresh air intake kit	Chamber type <sup>4,5</sup>	Without T-duct joint	KDDP55C160 (Components: KDDP55C160-1, KDDP55C160-2) <sup>7</sup>		
			With T-duct joint	KDDP55C160K (Components: KDDP55C160-1, KDDP55C160K2) <sup>7</sup>		
		Direct installation type <sup>6</sup>	KDDP55X160A			
4	High performance prefilter (MERV 8) <sup>8</sup>			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 <sup>9</sup>			KDTP55K80B	KDTP55K160B	

- Notes: 1. When installing designer panel, body height (ceiling required dimension) is 42 mm higher than standard panel. Designer panel cannot operate 2 and 3 way flow.  
 2. A dedicated wireless remote controller for the auto grille panel is included for lowering and raising the suction grille.  
 3. When installing auto grille panel, body height (ceiling required dimension) is 55 mm higher than standard panel.  
 4. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.  
 5. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.  
 6. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.  
 7. Please order using the names of both components instead of set name.  
 8. This option cannot be installed to designer panel and auto grille panel.  
 9. Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.  
 \*These panels do not contain the sensing function.

### Round Flow Cassette with Sensing Type



No.	Item		Type	FXFSQ25A	FXFSQ50A	FXFSQ100A
				FXFSQ32A	FXFSQ63A	FXFSQ125A
				FXFSQ40A	FXFSQ80A	FXFSQ140A
1	Decoration panel	Standard panel with sensing	Fresh white	BYCQ125EEF		
			Black	BYCQ125EEK		
		Standard panel	Fresh white	BYCQ125EAF *		
			Black	BYCQ125EAK *		
			Designer panel <sup>1</sup>	BYCQ125EAPF *		
Auto grille panel <sup>2,3</sup>	Fresh white	BYCQ125EBSF *				
2	Sealing material of air discharge outlet <sup>4</sup>		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 <sup>5,6</sup>	Without T-duct joint	KDDP55C160 (Components: KDDP55C160-1, KDDP55C160-2) <sup>8</sup>		
			With T-duct joint	KDDP55C160K (Components: KDDP55C160-1, KDDP55C160K2) <sup>8</sup>		
		Direct installation type <sup>7</sup>	KDDP55X160A			
5	High-efficiency filter unit <sup>9</sup> (Including filter chamber)		(Colorimetric method 65%)	KAF556D80	KAF556D160	
			(Colorimetric method 90%)	KAF557D80	KAF557D160	
6	Replacement high-efficiency filter <sup>9,10</sup>		(Colorimetric method 65%)	KAF552D80	KAF552D160	
			(Colorimetric method 90%)	KAF553D80	KAF553D160	
7	Filter chamber			KDDP55C160		
8	High performance prefilter (MERV 8) <sup>9</sup>			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) <sup>9</sup>			KAF555D160		
12	Replacement ultra long-life filter <sup>9,10</sup>			KAF550D160		
13	Branch duct chamber <sup>4</sup>			KDJP55C80	KDJP55C160	
14	Insulation kit for high humidity <sup>9,11</sup>			KDTP55K80B	KDTP55K160B	

### Round Flow Cassette Type



No.	Item		Type	FXFQ25A	FXFQ50A	FXFQ100A
				FXFQ32A	FXFQ63A	FXFQ125A
				FXFQ40A	FXFQ80A	FXFQ140A
1	Decoration panel	Standard panel	Fresh white	BYCQ125EAF *		
			Black	BYCQ125EAK *		
		Designer panel <sup>1</sup>	Fresh white	BYCQ125EAPF *		
			Auto grille panel <sup>2,3</sup>	Fresh white	BYCQ125EBSF *	
2	Sealing material of air discharge outlet <sup>4</sup>		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 <sup>5,6</sup>	Without T-duct joint	KDDP55C160 (Components: KDDP55C160-1, KDDP55C160-2) <sup>8</sup>		
			With T-duct joint	KDDP55C160K (Components: KDDP55C160-1, KDDP55C160K2) <sup>8</sup>		
		Direct installation type <sup>7</sup>	KDDP55X160A			
5	High-efficiency filter unit <sup>9</sup> (Including filter chamber)		(Colorimetric method 65%)	KAF556D80	KAF556D160	
			(Colorimetric method 90%)	KAF557D80	KAF557D160	
6	Replacement high-efficiency filter <sup>9,10</sup>		(Colorimetric method 65%)	KAF552D80	KAF552D160	
			(Colorimetric method 90%)	KAF553D80	KAF553D160	
7	Filter chamber			KDDP55C160		
8	High performance prefilter (MERV 8) <sup>9</sup>			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) <sup>9</sup>			KAF555D160		
12	Replacement ultra long-life filter <sup>9,10</sup>			KAF550D160		
13	Branch duct chamber <sup>4</sup>			KDJP55C80	KDJP55C160	
14	Insulation kit for high humidity <sup>9,11</sup>			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

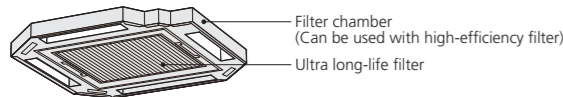
## VRV indoor units

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

Options required for specific operating environments

### Ultra long-life filter unit

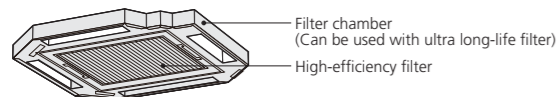
Even in dusty environments where the air conditioning is constantly operating, the ultra long-life filter only has to be cleaned once a year.



**Dusty area: annual filter change**  
 \*For dust concentration of 0.3 mg/m<sup>3</sup> (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<sup>3</sup>  
 4 years (Approx. 10,000 hr): About 8 hr/day x 25 day/month x 12 month/years x 4 years

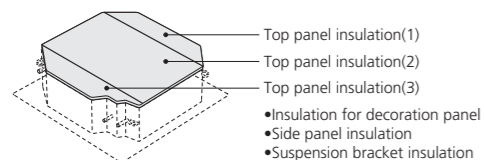
### High-efficiency filter unit

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



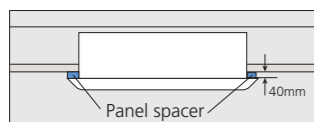
### Insulation kit for high humidity

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

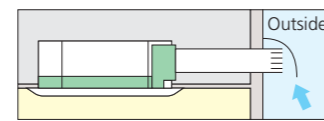
By using this option, 2-way, 3-way, or 4-way flow can be selected.

### Branch duct chamber

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

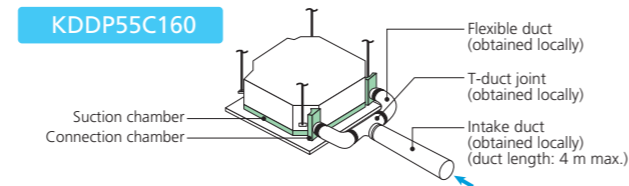
### Fresh air intake kit<sup>1,2</sup>

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.

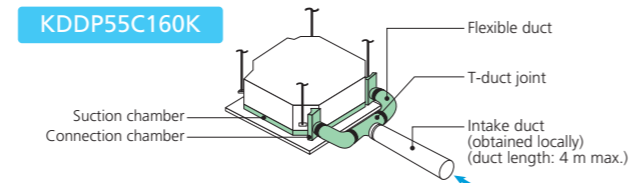


The units can be installed in the following different ways:

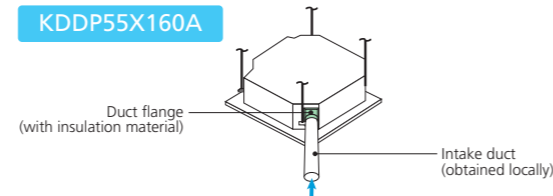
#### Chamber type (without T-duct joint)<sup>3,4,5</sup>



#### Chamber type (with T-duct joint)<sup>3,4,5</sup>



#### Direct installation type<sup>6</sup>



- Use of options will increase operating sound.
- Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be obtained locally.
- When a local-obtained fan is used, an interlock with air conditioner is necessary. Optional PCB (BRP11B62) is required for interlocking.
- When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
- 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.
- 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 <sup>3</sup> / min	13.0	22.9	37.0
Initial Pressure Drop*2	Pa	18.1	35.8	81.4
Weight	g	520		
Lifetime *3	6 months (1,250 hours)			
Reuse	Non-reusable			

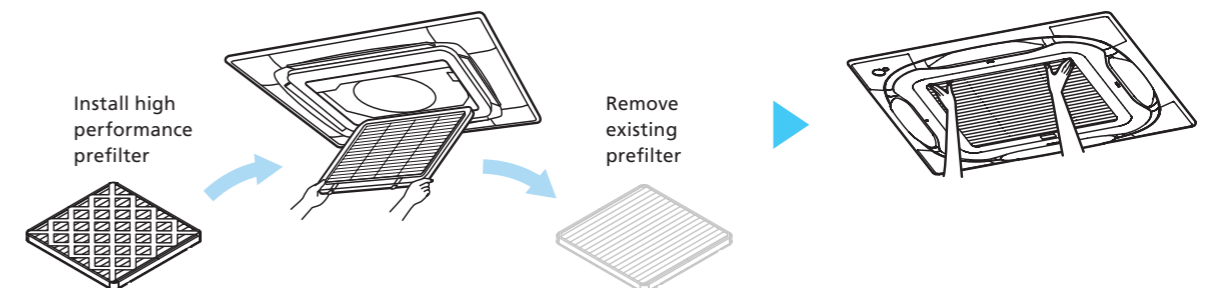
Note 1. It is necessary to set a high ceiling mode on site to prevent a decrease in air volume when installing the filter. The setting number differs according to each model. Please refer to the installation manual.

\*2. This result is based on the test of the filter only. The results may be different in the actual use environment where the filter is installed in the indoor unit.

\*3. Filter lifetime may vary depending on the condition of the operating environment. Certain instances such as high traffic areas, pets or smokers in a residence, or other situations may require more frequent changes.

## Easy Replacement

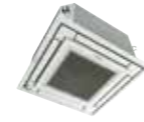
The existing prefilter can be replaced easily\*. Since it's a chamberless filter, the installer will remove the existing prefilter and replace it with the high performance prefilter.



\* The filter should be fixed to the air conditioner with attached components, so consult your dealer when installing or replacing the filter.

# Option List

## VRV indoor units



### Compact Multi Flow Cassette Type

No.	Item	Type	FXZQ20B	FXZQ25B	FXZQ32B	FXZQ40B	FXZQ50B
1-1	Grid ceiling panel				BYFQ60CAW		
1-2	Sensor kit for grid ceiling panel				BRYQ60AAW		
2-1	Decoration panel *1				BYFQ60B3W1		
2-2	Relay wire harness adaptor for decoration panel *1				BER01A1		
2-3	Sealing material of air discharge outlet for decoration panel				KDBH44BA60		
3	Replacement long life filter				KAF441C60		
4	Fresh air intake kit				KDDQ44XA60		
5	Streamer filter clean unit *2				BAPWS55A61		

Notes: \*1. Option relay wire harness adaptor (BER01A1) is necessary when installing decoration panel (BYFQ60B3W1).  
\*2. Available only when stylish remote controller (BRC1H63W/K) is connected.



### Double Flow Cassette Type

No.	Item	Type	FXCQ20B	FXCQ25B	FXCQ32B	FXCQ40B	FXCQ50B	FXCQ63B	FXCQ80B	FXCQ125B
1	Decoration panel			BYBCQ40CF			BYBCQ63CF		BYBCQ125CF	
2	High efficiency filter *1	65 %		KAF532C50			KAF532C80		KAF532C160	
		90 %		KAF533C50			KAF533C80		KAF533C160	
3	Filter chamber for bottom suction			KDDFP53B50			KDDFP53B80		KDDFP53B160	
4	Long life replacement filter			KAF531C50			KAF531C80		KAF531C160	
5	Streamer filter clean unit *2								BAPWS55A61	

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	FXKQ25MA	FXKQ32MA	FXKQ40MA	FXKQ63MA
1	Panel related	Decoration panel		BYK45FJW1		BYK71FJW1
2	Air inlet and air discharge outlet related	Long life replacement filter		KAFJ521F56		KAFJ521F80



### Ceiling Mounted Cassette Duct Type

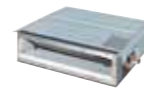
No.	Item	Type	FXFDQ63A	FXFDQ80A	FXFDQ100A	FXFDQ125A
1	Decoration panel *1				BYCDQ125APF	
2	Panel spacer				KDB55J160F	
3	Replacement long-life filter				KAF5511D160	
4	Cover plate of air discharge outlet *2				BKCP55A160	

Notes: \*1. When installing decoration panel, body height (ceiling required dimension) is 41 cm.  
\*2. Use this option to close the air outlet holes for the side that do not want to use.



### Bedroom Duct Type

No.	Item	Type	FXDBQ40A	FXDBQ50A	FXDBQ63A	FXDBQ80A
1	Streamer duct chamber			BDEZ500A140VE		BDEZ500A510VE



### Slim Duct (Standard) Type

No.	Item	Type	FXDQ20PD	FXDQ25PD	FXDQ32PD	FXDQ40ND	FXDQ50ND	FXDQ63ND
1	Insulation kit for high humidity			KDT25N32			KDT25N50	KDT25N63



### Slim Duct (Compact) Type

No.	Item	Type	FXSQ20SP	FXSQ25SP	FXSQ32SP	FXSQ40SP	FXSQ50SP	FXSQ63SP
1	Streamer duct chamber				BDEZ500A140VE			BDEZ500A510VE



### Middle Static Pressure Duct Type

No.	Item	Type	FXSQ20PA FXSQ25PA FXSQ32PA	FXSQ40PA	FXSQ50PA	FXSQ63PA FXSQ80PA	FXSQ100PA FXSQ125PA	FXSQ140PA
1	High efficiency filter *1	65%	KAF632C36	KAF632C56		KAF632C80	KAF632C160	KAF632B160B
		90%	KAF633C36	KAF633C56		KAF633C80	KAF633C160	KAF633B160B
2	Filter chamber (for rear suction) *1		KDDFP63B36	KDDFP63B56		KDDFP63B80	KDDFP63B160	KDDFP63B160B
3	Long-life filter *1		KAF631C36	KAF631C56		KAF631C80	KAF631C160	KAF631B160B
4	Streamer duct chamber		BDEZ500A60VE BDEZ500A140VE	BDEZ500A140VE		BDEZ500A140VE BDEZ500A510VE	BDEZ500A510VE	
5	Service panel (Fresh white)		KTBJ25K36F	KTBJ25K56F		KTBJ25K80F	KTBJ25K160F	
6	Air discharge adaptor		KDAP25A36A	KDAP25A56A		KDAP25A71A	KDAP25A140A	KDAP25A160A *2
7	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-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	Streamer duct chamber		BDEZ500A60VE BDEZ500A140VE	BDEZ500A140VE		BDEZ500A510VE	
6	Service panel (Fresh white)		KTBJ25K36F	KTBJ25K56F		KTBJ25K80F	KTBJ25K160F
7	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A		KDAJ25K71A	KDAJ25K140A



### High Static Pressure Duct Type

No.	Item	Type	FXMQ200P	FXMQ250P
1	8mm pre-filter			BAFL501A250
2	30mm long life replacement filter			BAFL502A250
3	High efficiency filter	65%		BAFM503A250
		90%		BAFH504A250
4	Filter chamber (long life filter, high efficiency filter)			BDD500A250
5	Streamer duct chamber			BDEZ500A510VE
6	Drain pump kit			BDU510A250VM
7	Insulation kit for high humidity			BDT520A250



### Ceiling Suspended Type

No.	Item	Type	FXHQ32MA	FXHQ63MA	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

# Option List

## VRV indoor units

### Floor Standing Type



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

### Concealed Floor Standing Type



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

### Floor Standing Duct Type



No.	Item	Type	FXVQ125N	FXVQ200N	FXVQ250N	FXVQ400N	FXVQ500N
1	Replacement long life filter		KAF261M140	KAF261M224	KAF261M280	KAF261N450	KAF261N560
2	Ultra long-life filter					KAFS9A400	KAFS9A560
3	Front suction base flange		KD-9A140	KD-9A200	KD-9A280	KD-9A400	KD-9A560
4	Front suction filter chamber for high efficiency filter	Suction grille	KDGF-9A140	KDGF-9A200	KDGF-9A280	KDGF-9A400	KDGF-9A560
5		Replacement long-life filter *1,2,3	KAF-91B140	KAF-91B200	KAF-91B280	KAF-91B400	KAF-91B560
6		Replacement high efficiency filter 65% *1,3	KAF-92B140	KAF-92B200	KAF-92B280	KAF-92B400	KAF-92B560
7		90% *2,3	KAF-93B140	KAF-93B200	KAF-93B280	KAF-93B400	KAF-93B560
8		Filter chamber *1,2	KDDF-9A140	KDDF-9A200	KDDF-9A280	KDDF-9A400	KDDF-9A560
9	Plenum chamber *4		KPCJ140A	KPC5J	KPC8J	KPCJ400A	KPC15JA
10	Pulley for plenum chamber *4		KPP8JA	KPP9JA	KPP10JA		
11	Fresh air intake kit			KD106D10		KDFJ906A560	
12	Rear suction kit		KDFJ905B140	KDFJ905B200	KDFJ905B280	KDFJ905B400	KDFJ905B560
13	Discharge grille for plenum side			KD101A10		KD101A20	
14	Wood base		KKWJ9A140	KWF1G5P	KWF1G8P	KKWJ9A400	KWF1G15
15	Vibration isolating frame		K-ABSG1406A	K-ABSG1407A	K-ABSG1408A	K-ABSG1409A	K-ABSG1410A

Notes: \*1. When ordering a filter chamber for high efficiency filter (65%), please order with all the respective parts.  
 \*2. When ordering a filter chamber for high efficiency filter (90%), please order with all the respective parts.  
 \*3. When replacing with a new filter, please order the replacement filters with the corresponding filter model name.  
 \*4. Use the plenum chamber and pulley for plenum chamber in combination.

### Clean Room Air Conditioner



No.	Item	Type	FXBQ40P	FXBQ50P	FXBQ63P	FXBPQ63P
1	Outlet unit					BAF82A63
2	Filter	HEPA filter	BAFH82A50		BAFH82A63	
3	Panel	Ceiling intake type	BYB82A50C		BYB82A63C	BYB82A63CP
4		Floor-level intake type	BYB82A50W		BYB82A63W	BYB82A63WP
5	Outside air intake duct flange				KDFJ82A80	

## Precision Piping Method

### HEADER PACK

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

### TIGHTFIT

No.	Item	Type	Standard Joint	Asymmetry Joint	90° Bend Joint	Test Plug
1	TIGHTFIT		SDGTB06, SDGTB09, SDGTB12, SDGTB15, SDGTB19, SDGTB22, SDGTB28, BDGTA34, BDGTA41	SDGTB0906, SDGTB1209, SDGTB1512, SDGTB1915, SDGTB2219, SDGTB2522, SDGTB2825, SDGTB3428	SDGTLB22, SDGTLB28	SDGTRB06, SDGTRB09, SDGTRB12, SDGTRB15, SDGTRB19, SDGTRB22, SDGTRB28

### Non-Brazed REFNET Joint for TIGHTFIT

No.	Item	Type	2 pipes	3 pipes
1	Non-Brazed REFNET Joint for TIGHTFIT		BHRG26A33T, BHRG26A72T, BHRG26A73T	BHRG25A33T, BHRG25A72T, BHRG25A73

## Control systems

### Operation control system optional accessories



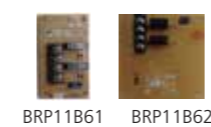
#### For VRV indoor unit use

No.	Item	Type	FXFTO-A FXFRQ-A	FXFSQ-A	FXFQ-A	FXZQ-B	FXCQ-B	FXKQ-A	FXKQ-MA	FXFDQ-A	FXDBQ-A	FXDQ-PD FXDQ-ND
1	Stylish remote controller *5		BRC1H63W (White) / BRC1H63K (Black)									BRC1H63W (White) / BRC1H63K (Black)
2	Navigation remote controller *5		BRC1E63									BRC1E63
3	Simplified remote controller		BRC2E61									BRC2E61
4	Wireless remote controller	C/O		BRC7M635F (Fresh White) BRC7M635K (Black)	BRC7M531W (for grid ceiling panel) BRC7E531W (for decoration panel)	BRC7M66	BRC4M151P16 BRC4M151W16	BRC4C63		BRC4C66		
		Receiver						BRC63AV				
5-1	Adaptor for wiring (operation status output)				★BRP11B62					★BRP11B62		★BRP11B61
5-2	Adaptor for wiring						★KRP1C14A		KRP1B61			
6-1	Wiring adaptor for electrical appendices (1)				★KRP2A62		★KRP2A51		KRP2A61		★KRP2A61	★KRP2A53
6-2	Wiring adaptor for electrical appendices (2)				★KRP4AA53		★KRP4AA51		KRP4AA51	★KRP4AA53	★KRP4AA51	★KRP4AA54
7	Remote sensor (for indoor temperature)		BRC501A-5			BRC501A-6			BRC501A-1	BRC501A-5	BRC501A-6	BRC501A-1
8	Installation box for adaptor PCB ☆		KRP1H98A *2,3			KRP1BB101 *4		KRP1C96 *2,3		KRP1H98A *2,3	KRP4A98 *2,3	KRP1BB101 *4
9	External control adaptor for outdoor unit				★DTA104A62		★DTA104A61		DTA104A61	★DTA104A62	★DTA104A61	★DTA104A53
10	Multi tenant unit for Indoor (24 V free type)				★BRP114A61					★BRP114A61		
11	Digital input adaptor			★BRP7A52		★BRP7A53		★BRP7A51		BRP7A51		★BRP7A51 *9
												★BRP7A54

No.	Item	Type	FXDQ-SP	FXSQ-PA	FXMQ-PA	FXMQ-P	FXHQ-MA	FXHQ-B	FXAQ-A	FXLO-MA FXNQ-MA	FXVQ-N *7	FXBQ-P FXBPQ-P
1	Stylish remote controller *5		BRC1H63W (White) / BRC1H63K (Black)									
2	Navigation remote controller *5		BRC1E63									BRC1E63
3	Simplified remote controller		BRC2E61									BRC2E61
4	Wireless remote controller						BRC7EA66	BRC7M56	BRC7M676	BRC4C64		BRC4C64
5-1	Adaptor for wiring (operation status output)			★BRP11B62			★BRP11B61	BRP11B61-1		BRP11B62		BRP11B62
5-2	Adaptor for wiring					KRP1C13A					KRP1C67	
6-1	Wiring adaptor for electrical appendices (1)			★KRP2A61		KRP2A61	★KRP2A62		★KRP2A61	KRP2A61	KRP2A62 *8	KRP2A61
6-2	Wiring adaptor for electrical appendices (2)			★KRP4AA51		KRP4AA51	★KRP4AA52		★KRP4AA51	KRP4AA51		KRP4AA51
7	Remote sensor (for indoor temperature)	BRC501A-1		BRC501A-4		BRC501A-6	BRC501A-1		BRC501A-6			BRC501A-1
8	Installation box for adaptor PCB ☆			KRP4A98 *2,3		KRP4A97 *2,3		KRP1CA93 *3	KRP1D93A *3	KRP4B93 *2,3		
9	External control adaptor for outdoor unit			★DTA104A61		DTA104A61		★DTA104A62		★DTA104A61	DTA104A61	DTA104A62 *8
10	Multi tenant unit for Indoor (24 V free type)					★BRP114A61				★BRP114A61		
11	Digital input adaptor			★BRP7A54		★BRP7A51			★BRP7A52	★BRP7A51	BRP7A51	
12	External control adaptor for cooling / heating										KRP6A1 *8	
13	Remote controller with key										KRCB37-1	

Notes: 1. Installation box ☆ is necessary for each adaptor marked ★.  
 2. Up to 2 adaptors can be fixed for each installation box.  
 3. Only one installation box can be installed for each indoor unit.  
 4. Up to 2 installation boxes can be installed for each indoor unit.  
 5. Some functions can be set only via the stylish or navigation remote controller. They cannot be set via other remote controllers. Please refer to each indoor unit and remote controller page for function details.  
 6. Since the control panel is equipped as standard, use the option of BRC1E63 for 2 remote control system.

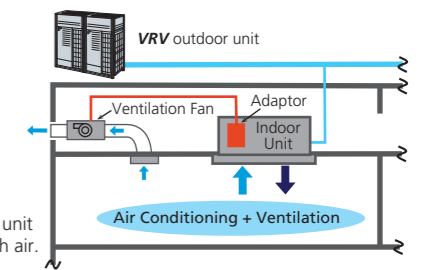
7. When using BRC1H63W(K), BRC1E63 or BRC2E61, be sure to remove the control panel and since BRC1H63W(K), BRC1E63 and BRC2E61 cannot be stored inside the indoor unit, please place it separately.  
 8. Remove the group control adaptor which is a standard equipment before mounting KRP2A62, KRP6A1 and DTA104A62. KRP2A62, KRP6A1 and DTA104A62 cannot be mounted to the same indoor unit at the same time.  
 9. Only possible in combination with BRC1H63W(K).



### Adaptor for wiring (operation status output)

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

Example:  
 Interlocking operation of the indoor unit and ventilation fan that takes in fresh air.





# Option List

## Control systems

### System configuration

No.	Item	Model No.	Function
1	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 <b>VRV</b> System to the high-speed DIII-NET communication system adopted for the <b>VRV</b> 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	
6-1	External control adaptor	DTA104A61	• Demand control of individual or multiple systems. • Low noise option for individual or multiple systems.
6-2	Mounting plate	BKS26A	• When installing DTA109A51, DTA104A61 into outdoor units of 10 HP ( <b>VRV X</b> ) / 14 HP ( <b>VRV A</b> ) or larger.
7-1	Multi tenant unit for Indoor (24 V free type)	BRP114A61 *4, 5	• Use in multi tenant buildings where one tenant shuts off the breaker of the indoor unit. • Max. length from outdoor unit to last indoor unit per 1 outdoor adaptor is 200 m. • 8 indoor units can be connected per 1 outdoor adaptor.
7-2	Multi tenant unit for Outdoor (24 V free type)	BRP114A62 *4	
7-3	Multi tenant unit Booster (24 V free type)	BRP114A63 *4	• Use when extending transmission length with the multi tenant option. • Can add Max. 3 booster units to 1 system. • Total transmission length is Max. 800 m. • Total connectable indoor units is Max. 32 units.

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. Because the maximum transmission length varies according to actual installation conditions and diameter of wiring used, please confirm by a dedicated simulator.  
\*5. Installation box is necessary for adaptor BRP114A61. Please refer to option list for each indoor unit.

## Building management system

No.	Item	Model No.	Function		
1	Basic	Hardware	MARUTTO edge	• An all-in-one, cloud-based HAVC management service that offers real-time control. Up to 128 indoor units can be connected to MARUTTO edge. • To use MARUTTO, both MARUTTO edge and basic package agreement are necessary. The basic package is a monthly subscription.	
		Software	Basic package		DGE801SUB
	Option	Hardware	DIII plus adaptor	DGE601A52	• Additional 64 indoor units can be connected to DIII plus adaptor or slot. DIII plus adaptor and Max. 5 DIII plus adaptor slots can be connected to MARUTTO edge.
			DIII plus adaptor slot	DGE601A53	
		Software	Demand control *1	DGE803SUB	• Air conditioning power consumption is gradually suppressed to prevent it from exceeding the set target power value.
			PPD function *1	DGE802SUB	• Electric power and gas consumption amounts are automatically allocated to each indoor unit according to operating conditions.
			Social media support *1	DGE805SUB	• User friendly facilities management with instant error notification and remote operation.
			Remote emergency operation *1	DGE804SUB	• When air conditioners break down, customers can remotely enter the emergency operation settings themselves.
			BACnet® client *2	DGE901LCS	• Management of 3rd party equipment is possible via the BACnet® /IP protocol to enable remote monitoring and control.
BACnet® server *2	DGE902LCS	• The server functions as a BACnet® interface for BMS integration to enable the BMS integrator to monitor and control air conditioning.			
2	Basic	Hardware	intelligent Touch Manager	• Air-conditioning management system that can be controlled by touch screen.	
		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.
			DIII plus adaptor slot	DGE601A53	
	Option	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.
			iTM energy navigator	DCM008A51	• Building energy consumption is visualised. Wasted air-conditioning energy can be found out.
			BACnet® client	DCM009A51	• BACnet® equipment can be managed by intelligent Touch Manager.
		Hardware	HTTP Interface	DCM007A51	• Interface for intelligent Touch Manager by HTTP

Notes: \*1. This option is a monthly subscription. The purchase of a service agreement is necessary.  
\*2. This software is a one-time payment.

## Building management system

No.	Item	Model No.	Function					
3	intelligent Touch Controller	Basic	Hardware	intelligent Touch Controller	DCS601C51	• Air-Conditioning management system that can be controlled by a compact all-in-one unit.		
3-1		Option	Hardware	DIII-NET plus adaptor	DCS601A52	• Additional 64 groups (10 outdoor units) is possible.		
3-2			Software	Web software	DCS004A51	• <b>VRV</b> system that is connected to intelligent Touch Controller can be operated from the user's PC via a web page.		
3-3	Electrical box with earth terminal (4 blocks)		KJB411A	• Wall embedded switch box.				
4-1	Smartphone/ Tablet control	Basic	Hardware	Smartphone Controller for Office	DCPF01	• <b>VRV</b> smart controller (website or mobile app via smart phone or tablet) for small to medium scale building		
4-2				Smartphone Controller for Office (Touchscreen Controller)	DCPF04	• <b>VRV</b> smart controller with touch panel (website or mobile app via smartphone or tablet) for small to medium scale building		
4-3				Smartphone Controller for Office (Controller Extension)	DCPF05	• <b>VRV</b> smart controller for large scale building		
4-4				Smartphone Controller for Office (Multisite Extension)	DCPF10	• Control all <b>VRV</b> units via Smartphone Controller for Office on multisite		
4-5				Smartphone Controller for Home	DCPH01	• <b>VRV</b> smart home automation and smart control solution		
4-6				Smartphone Controller for Home (Lite Version)	DCPH02	• <b>VRV</b> smart centralised controller		
4-7				Smartphone Controller for Hotel	DCPL01	• Multiple hotel room air conditioner interlocking with occupancy signal, window open/close signal and check in/out signal		
4-8				Smartphone Controller for Resort	DCPR01	• Individual villa air conditioner interlocking with occupancy signal, window open/close signal and check in/out signal		
4-9				Option	Software (Commercial)	Adaptor for Smartphone Controller	DCPA01	• Interface adaptor for Smartphone Controller
4-10						DCPA01B	• Interface adaptor for Smartphone Controller with installation box	
4-11		IAQ Sensor DC for Smartphone Controller	DCPE02S			• IAQ Sensor for Smartphone Controller (24V AC/DC)		
4-12		Commercial Automatic Control	DCPN001			• Set back, Scene, Interlock Automatic Changeover functions for individual controller		
4-13		Commercial Data Analytics	DCPN002			• Operation Report, Error Report; Trend Graph, Energy Graph functions for individual controller		
4-14		PPD & Tenant Billing Management	DCPN003	• Power Proportional Distribution and billing function for individual controller				
4-15		Realtime Energy Monitoring (REM)	DCPN004	• Real Time Energy Display function for individual controller				
4-16	Multisite Branch Expansion	DCPN005	• To expand the multisite control limit by 1 site					
4-17	iTM Tenant Billing Management	DCPN008	• Billing function for iTM Power Proportional Distribution data					
4-18	Option	Software (Residential)	Residential Automatic Control	DCPN006	• Setback, Setpoint Range, Remote Control Prohibition, Automatic Changeover functions for individual controller			
4-19			Residential System Report	DCPN007	• Operation Report, Error Report functions for individual controller			
5-1	Di unit		DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.				
5-2	Dio unit		DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input/output.				
6	Communication interface	Interface for use in BACnet® *3		DMS502B51	• Interface unit to allow communications between <b>VRV</b> and BMS. Operation and monitoring of air-conditioning systems through BACnet® communication.			
6-1		Optional DIII board		DAM411B51	• Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.			
6-2		Optional Di board		DAM412B51	• Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.			
7		Interface for use in LONWORKS® *4		DMS504B51	• Interface unit to allow communications between <b>VRV</b> and BMS. Operation and monitoring of air-conditioning systems through LonWorks® communication.			
8		Home Automation Interface Adaptor		DTA116A51	• Use of the Modbus® protocol enables the connection of the <b>VRV</b> system with a variety of home automation systems from other manufacturers. *6			
8-1		Mounting plate		BKS26A	• When installing DTA116A51 into outdoor units of 10 HP ( <b>VRV X</b> ) / 14 HP ( <b>VRV A</b> ) or larger.			
9		Contact/ analogue signal	Unification adaptor for computerised control	★DCS302A52	• Interface between the central monitoring board and central control units.			

Notes: \*3. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).  
\*4. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.  
\*5. Installation box for ★ adaptor must be obtained locally.  
\*6. Modbus® is a registered trademark of Schneider Electric S.A.

# Engineering Supports

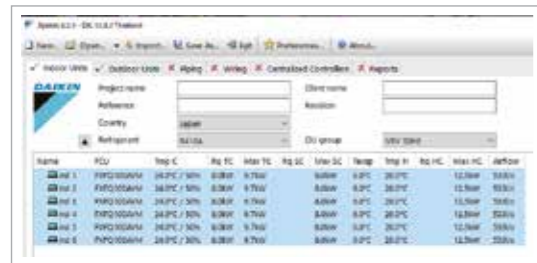
## Design assistance and sales proposal

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



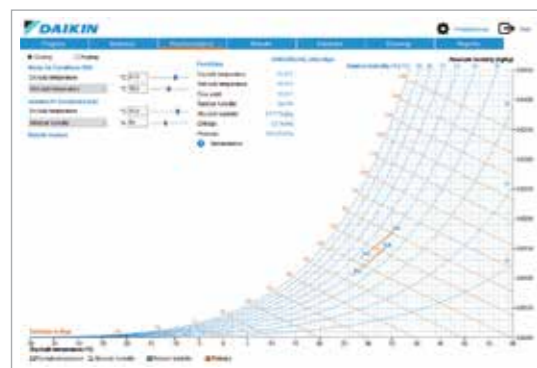
### Model Selection

- Piping design including Tightfit, fire-free connector
- 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, including the selection of fire-free fitting (TightFit). 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)

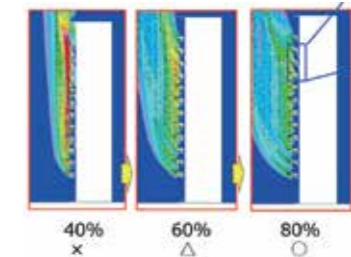
### IEQ simulation



#### Indoor air environment analysis software

Simulates temperature and humidity, CO<sub>2</sub>, 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

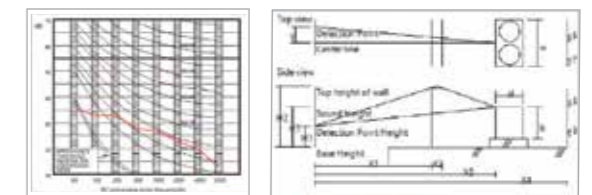


#### Outdoor airflow analysis software

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.

## DACCS-NIS (Outdoor unit sound calculation)

Depending on the installation conditions of the equipment, it simulates the operating sound of the outdoor unit that can be heard at any position, which is useful for appropriate soundproofing measures on site.



## DS-HL2 (Heat load calculation)

DS-HL2 uses ASHRAE's Radiant Time Series calculation method to compute the design heating and cooling load for a structure, over a 24-hour period. It can also evaluate the load of 12 monthly (only 24 hours per month for 12 months) or a full year (24 hours per day for 365 days).



## QSP (Energy simulation support)

A simple sales proposal software that can be relatively compared to the annual energy efficiency of each system. Based on meteorological data of cities around the world, it is possible to calculate the annual electricity bills of RA, Skyair, and VRV, and promote effectively the energy saving of VRV.



## VRV plug in for IES



VRV plug-in compatible with IES energy simulation software

