



**Warning**



- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

**Notice**



- About harmonics, since this product is equipped with an inverter, harmonics will be generated. If local laws require the suppression of harmonics on the building, please take harmonic suppression measures on the electrical equipment side. Please contact your local sales company for details.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

**Cautions on product corrosion**

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

**Dealer**

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DAIKIN VRV General Catalogue



PCTVID2007



Cooling Only 50 Hz



**R-410A**

**Cooling Only 50 Hz**

# Exceeding Boundaries with Innovative Energy Savings

First launched in Japan in 1982, the Daikin **VRV** system has been embraced by world markets for over 35 years. Daikin proudly introduces the advanced **VRV** system. By combining the technologies of **VRV**, **VRT** and **VAV**, we have attained both energy savings and comfortable air conditioning.

**VRV + VRT + VAV**



**VRV**  
X series / A series  
movie

**VRV**



## Energy savings & comfort

- Uniting **VRV**, **VRT** and **VAV** technologies
- Quiet operation

## Design flexibility & easy installation

- Automatic refrigerant charge function
- Varied lineup of models

## High reliability

- Refrigerant cooled PCB
- Double backup operation
- Heavy anti-corrosion model

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

# New Products Information

## VRV S High Seasonal Efficiency SERIES

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The ideal air conditioning system for residential houses, small offices and shops

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

Energy savings & comfort

High performance & reliability

Design flexibility of installation

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

- ✓ 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



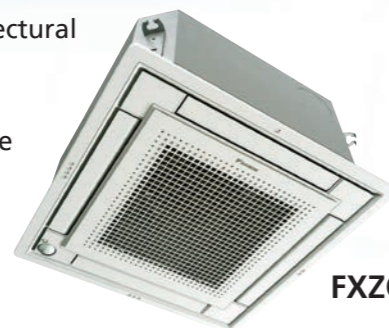
RSUQ-A

## Compact Multi Flow Cassette

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Quiet, compact, designed for user comfort

- ✓ Compact & Elegant Design
- ✓ Fully-flat integration in standard architectural ceiling tiles
- ✓ Efficiency & Comfort
- ✓ Two optional intelligent sensors improve energy efficiency and comfort.



FXZQ-A

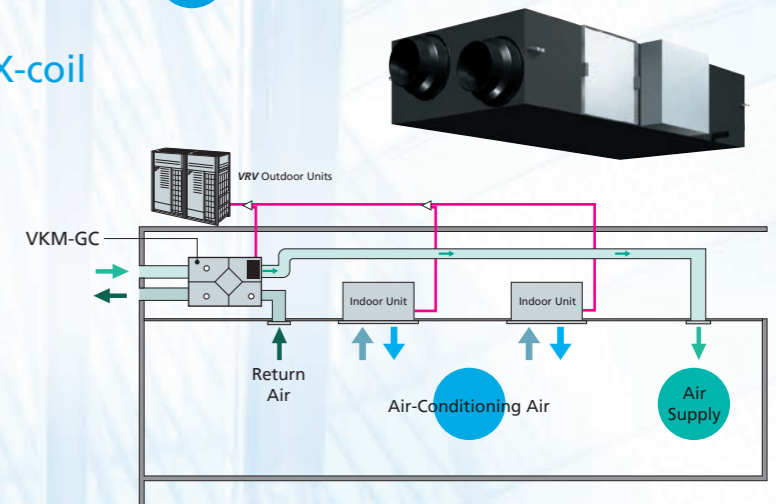


## Air Treatment Equipment

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### Heat Reclaim Ventilator with DX-coil VKM-GC Series

- ✓ Indoor Air Quality (IAQ) improvement by adding fresh outdoor air
- ✓ Heat reclaim ventilator + Heat exchanger → Comfortable air supply
- ✓ Air conditioning and outdoor air processing can be accomplished using a single system.



## Stylish Remote Controller

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A complete redesigned controller focused to enhance user experience



BRC1H61W (White)



BRC1H61K (Black)



reddot design award



- ✓ Two attractive colors to match any interior
- ✓ Compact, measures only 85 x 85 mm
- ✓ Easy setting via Bluetooth App with smartphone (for Installer/Facility manager)
- ✓ Improved setback function to keep hotel room comfortable

## Precision Piping Method

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A revolution in piping works for VRV system!

- ✓ Non-brazing work
- ✓ Save installation time without special skills



Header Pack (Packaged Refnet Headers)



BHF-RHP6Z

Save time using quick flare nut connection

Daikin Gas Tight Joint (Fire free connection for piping)



BDGTA

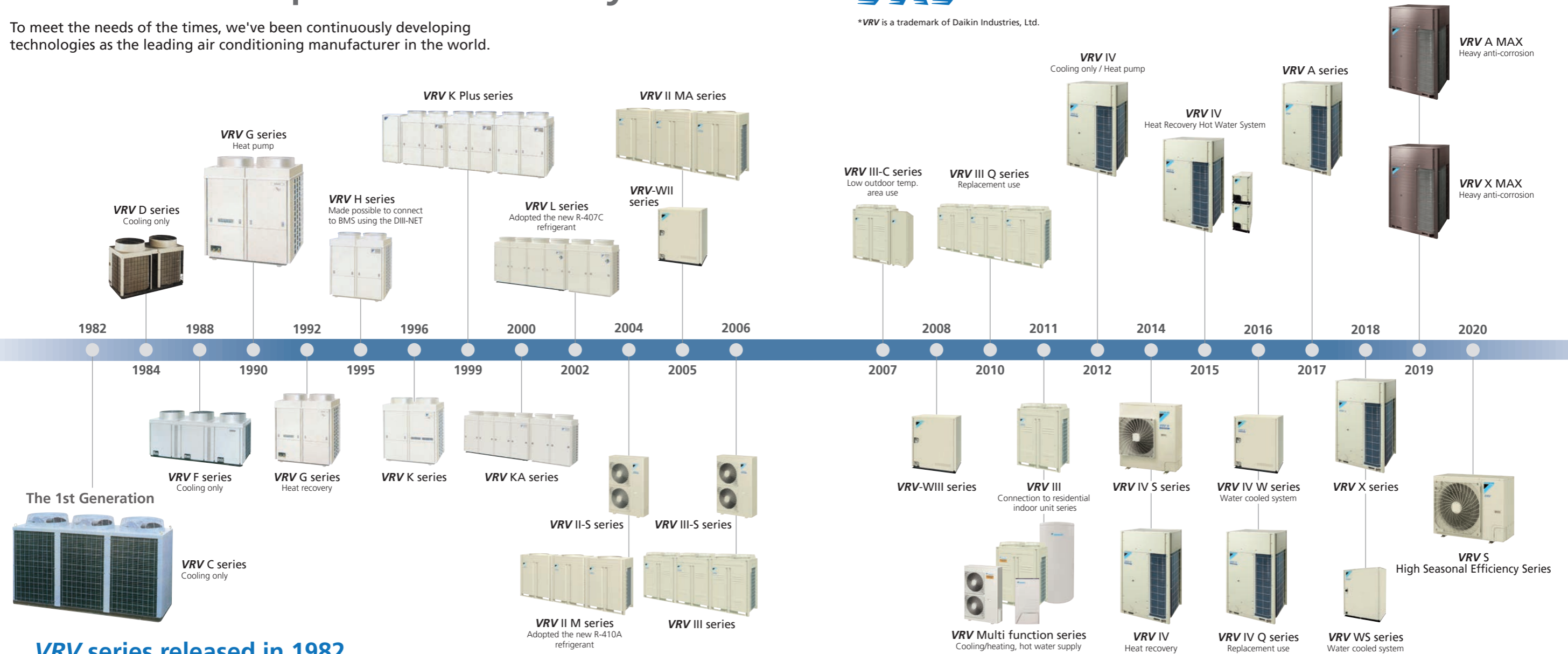
Hot work permit is not necessary

# 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



# VRV User Benefits

## For property OWNERS

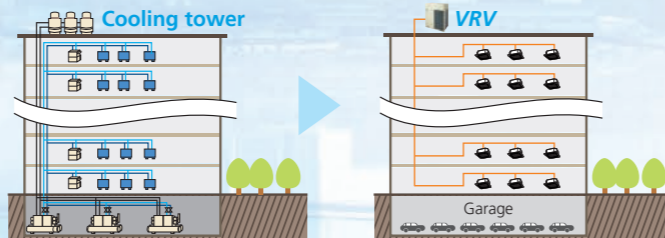
### Energy saving & comfortable environment

- VRT Smart greatly reduces the energy by optimising the capacity according to heat load, especially during low-load operation.
- Comfortable indoor environment is maintained at the time.



### Efficient space utilisation

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

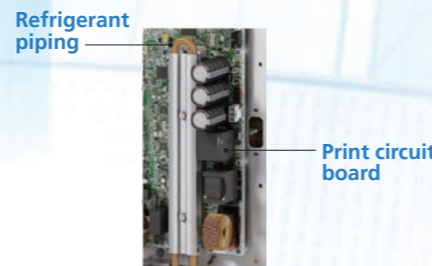


### High reliability

- **Refrigerant cooled PCB**  
Daikin's unique refrigerant cooling helps maintain high cooling capacity even during high outdoor temperatures.
- **Double backup operation**  
Unit backup & Compressor backup ensure continuous operation.



- **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.



## For USERS

### Comfortable environment

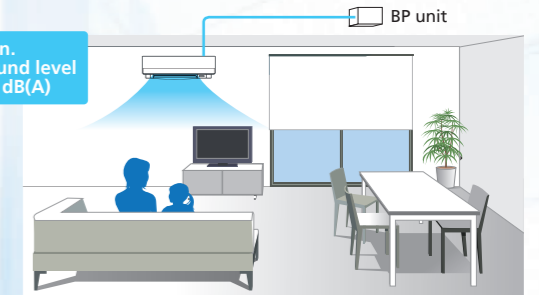
- VRT Smart operation maintains the indoor temperature and ensures a comfortable environment.

### Residential indoor units

- Residential indoor units can be connected and it is possible to realise quiet operation.
- By remotely installing an BP unit, the noise of refrigerant passing through the piping can be reduced.



Min. sound level 19 dB(A)



## For CONSULTANT and DESIGN OFFICES

### Varied lineup of models

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

### Long piping provides more flexible system design

- Maximum equivalent piping length between indoor and outdoor unit is 190 m.
- Maximum height difference is 90 m.

### Compatible with engineering software

- Daikin provide the software, the simulation results, and drawing materials to support the building information modeling (BIM) currently entering the mainstream in construction industries.

CADXpress



### Energy efficient

- Achieves your green building solution by Daikin's innovative energy-saving technology.



## For INSTALLERS

### Automatic refrigerant charge function

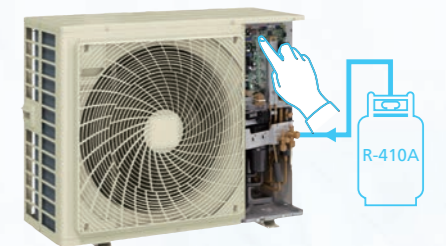
- Automates the charging of proper refrigerant amount to contribute to optimised operation efficiency, higher quality and easier installation.

### 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.



# 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.



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

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



**RQQ-T**  
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							●	●										●	●	●	●	●	●



**RXQ-A**  
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																			●	●	●	●	●	●	●	●	●	●



**RWEYQ-T**  
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	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

New



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

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## VRV S High 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	●	●	●	●	●	●



**RWXQ-A**  
1-phase, 220-240 V/220 V, 50/60Hz

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## VRV WS SERIES

**Water cooled system suitable for residential houses**

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

Lineup

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/220-230 V, 50/60 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	●	●	●



**RWHQ-T / HWHQ30A**  
3-phase 4-wire system,  
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							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

# Wide Range Indoor Unit Lineup Create Comfortable Airflow

## VRV indoor units

 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	FXFSQ-AV4		●	●	●	●	●	●	●	●	●	●					
	Round Flow Cassette	FXFQ-AV4		●	●	●	●	●	●	●	●	●	●					
	Compact Multi Flow Cassette	<b>New</b> FXZQ-AVM4		●	●	●	●	●										
	Double Flow Cassette	FXCQ-AVM4		●	●	●	●	●	●	●	●	●	●					
	Corner Cassette	FXKQ-MAVE4		●	●	●	●	●	●	●	●	●	●					
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE4 (with drain pump)		●	●	●	●	●	●	●	●	●	●					
		FXDQ-PDVT4 (without drain pump)		●	●	●	●	●	●	●	●	●	●	●				
		FXDQ-NDVE4 (with drain pump)					●	●	●	●	●	●	●	●				
		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										●	●	●	●			
	Ceiling Suspended	Ceiling Suspended	FXHQ-MAV7				●			●		●						
FXHQ-AVM4												●	●					
Wall Mounted	FXAQ-AVM4		●	●	●	●	●	●	●	●	●	●	●					
Floor Standing	Floor Standing	FXLQ-MAVE4		●	●	●	●	●	●	●	●	●	●					
	Concealed Floor Standing	FXNQ-MAVE4		●	●	●	●	●	●	●	●	●	●					
	Floor Standing Duct	FXVQ-NY14										●	●	●	●	●	●	
Clean Room Air Conditioner	Clean Room Air Conditioner	FXBQ-PVE4					●	●	●									
		FXBPQ-PVE4								●								
Heat Reclaim Ventilator with DX-Coil	<b>New</b> VKM-GCVE		Airflow rate 500-950 m³/h															
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h															
Air Handling Unit	AHUR			6-120 HP														

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

## Residential indoor units with connection to BP units

Type	Model Name	Rated Capacity (kW) Capacity Index	25	35	50	60	71
			2.5	3.5	5.0	6.0	7.1
Slim Ceiling Concealed Duct	FDKS-EVMB4		●	●			
	FDKS-CVMB4		●	●	●	●	
Wall Mounted	FTKJ-NVM4W		●	●	●		
	FTKJ-NVM4S		●	●	●		
	FTKS-DVM4		●	●			
	FTKS-FVM4				●	●	●

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



# 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

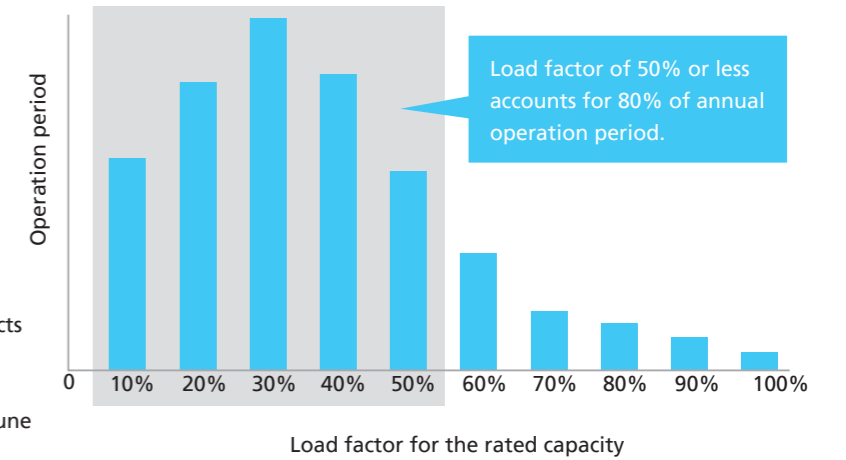
Daikin's VRV X series raised the standard of energy efficiency.

The key to innovative energy savings

Increased efficiency during low-load operation.

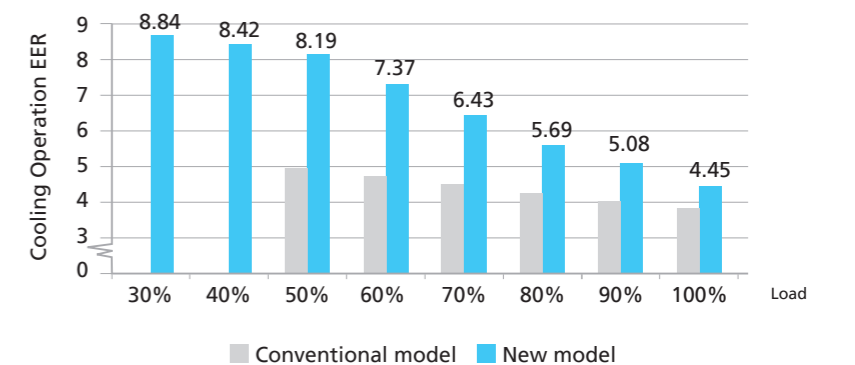
\* Data source

- 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

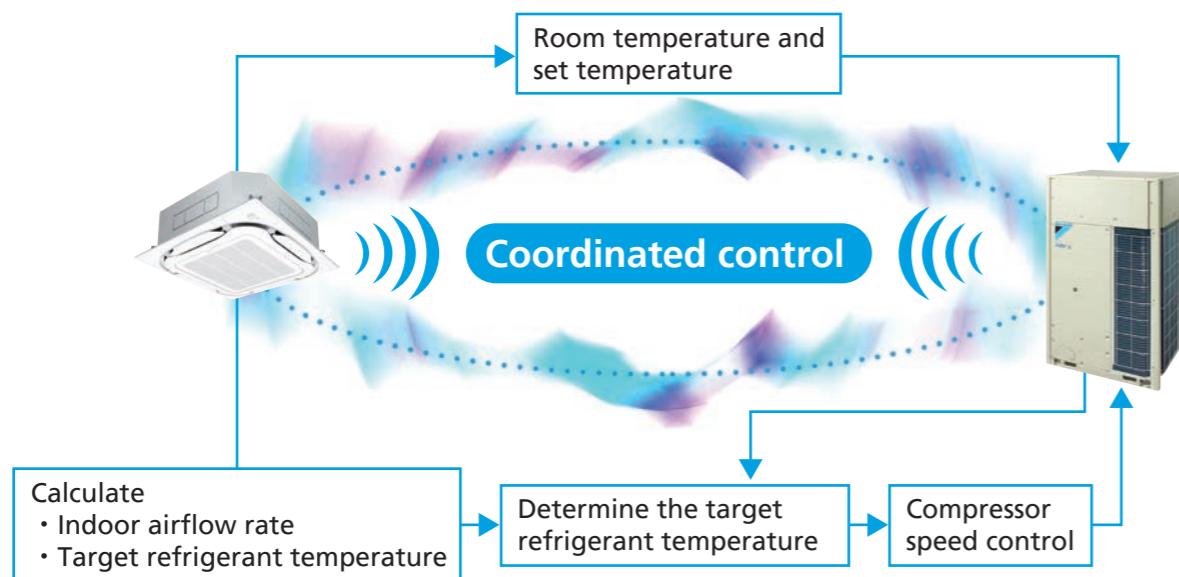
Fully Automatic Energy-saving Refrigerant Control



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

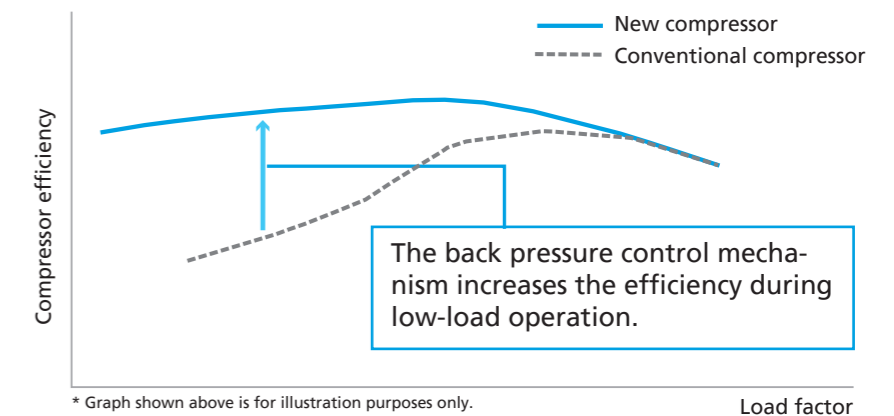
### Hardware technology New Scroll Compressor



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.

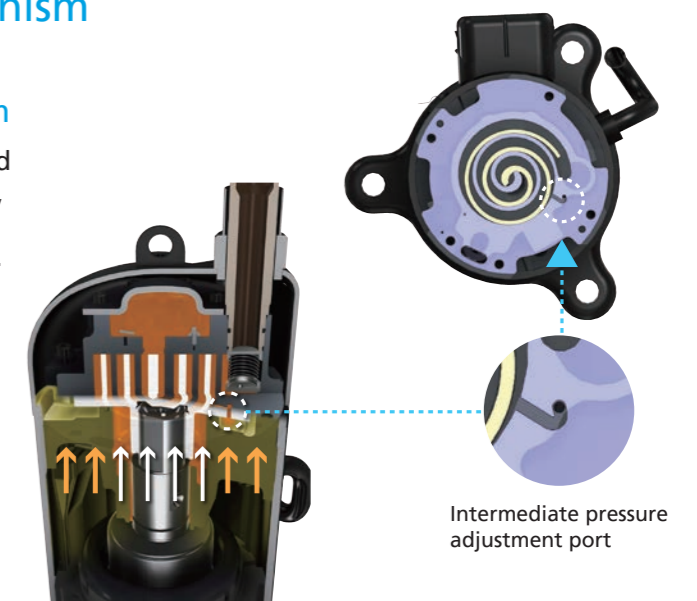


\* Graph shown above is for illustration purposes only.

### 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

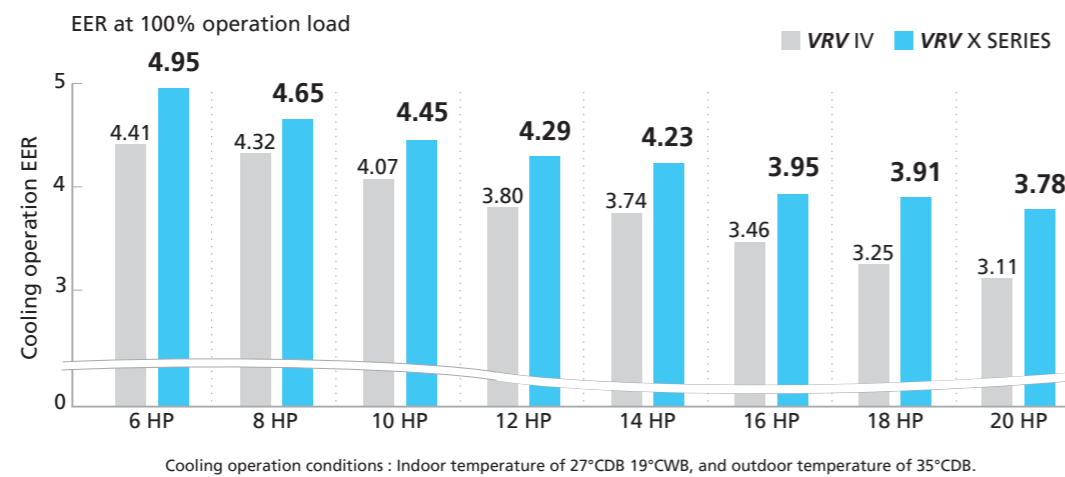
## Advanced oil temperature control

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

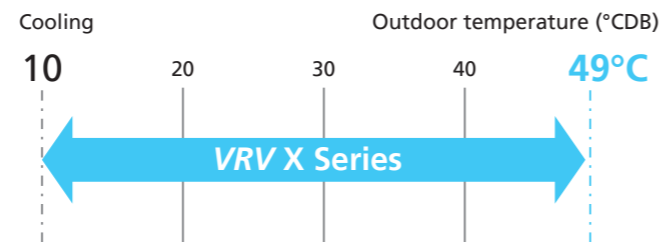
**65.4%**  
Reduction

## Higher efficiency is provided during rated operation



## Extended operation range up to 49°C

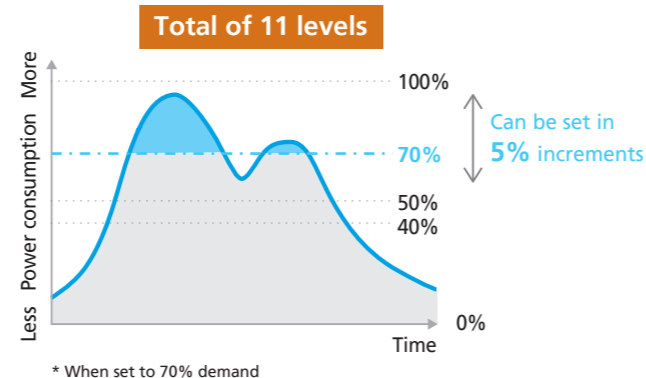
Note: When outdoor temperature falls below 10°C, the thermostat shuts OFF, the outdoor unit stops, and operation switches from cooling to fan operation.



## I-demand function

Peak power cut-off 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**.

## Automatic refrigerant charge function

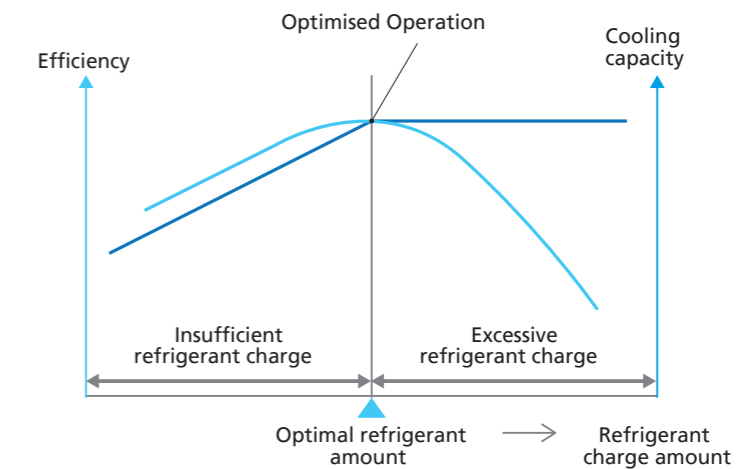
Contribute to optimised operation efficiency, higher quality and easier installation.

### Optimised operation efficiency

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



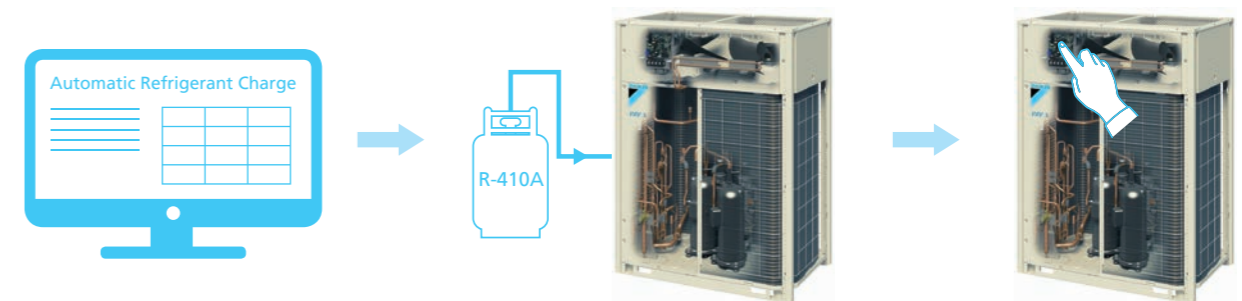
Automatic Refrigerant Charge Function movie



### 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

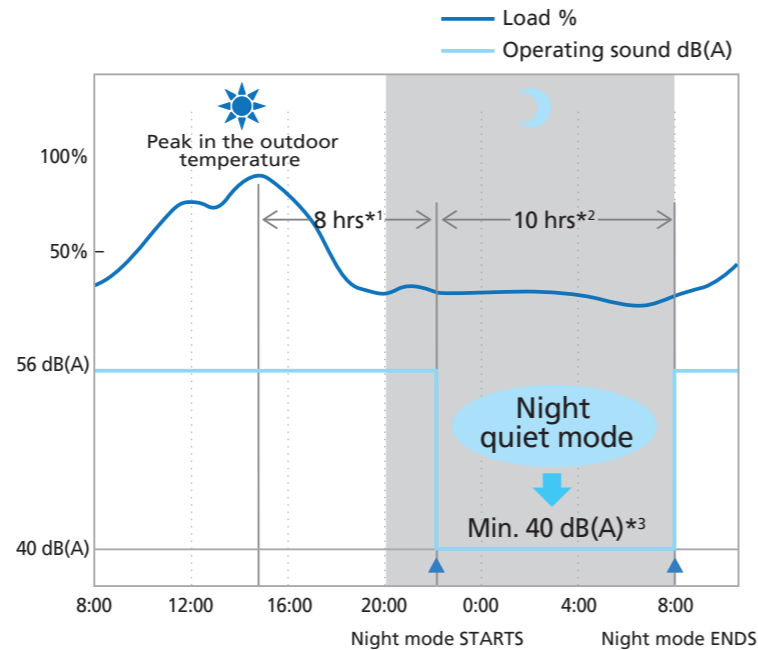
\* There are conditions in the range of ambient temperature in which the automatic refrigerant charge can be used. Refer to the installation manual for details.  
\* The refrigerant amount that can be automatically charged may differ from the additional refrigerant amount that is provided from calculations, 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.

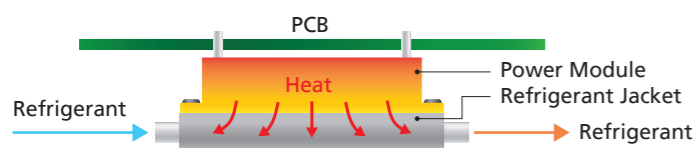


\*1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.  
\*2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.  
\*3. In case of 10 HP outdoor unit.

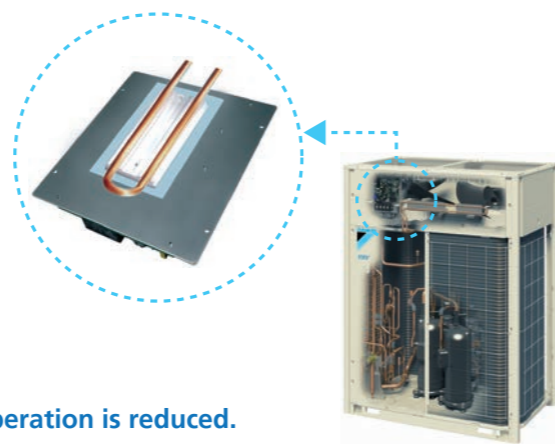
Notes: • This function is available in setting at site.  
• The operating sound in quiet operation mode is the actual value measured by our company.  
• The relationship of outdoor temperature (load) and time shown above is just an example.

## 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.



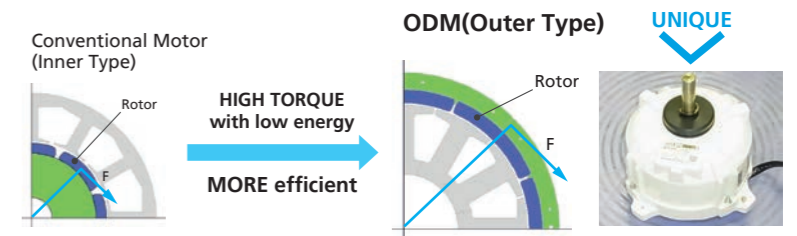
Control board failure ratio at stable operation is reduced.

This enables

- Suitability for high ambient temperatures
- Miniaturization of electronic components

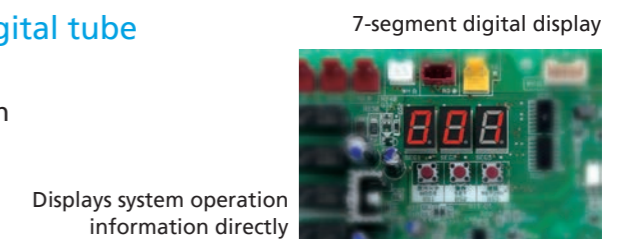
### Outer rotor DC motor (ODM)

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



### Function of information display by luminous digital tube

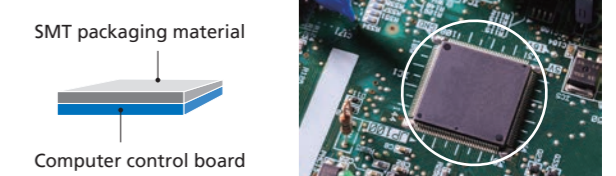
VRV X series utilises a bright 7-segment digital display to convey operational status and facilitate simple installation and after-sales service.



### SMT\* packaging technology

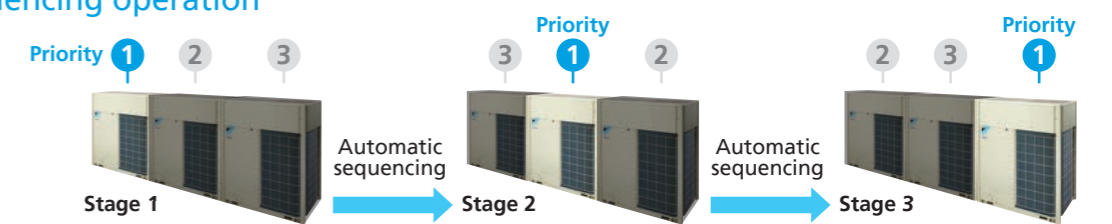
- Improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.

Computer control board surface adopting SMT packaging technology

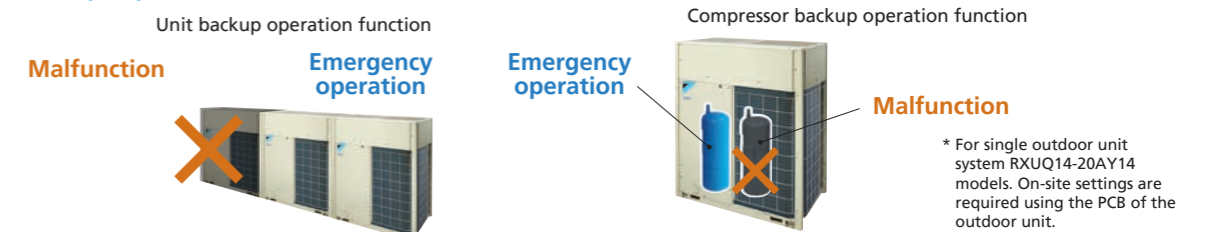


\*SMT: Surface mounted technology

### Automatic sequencing operation

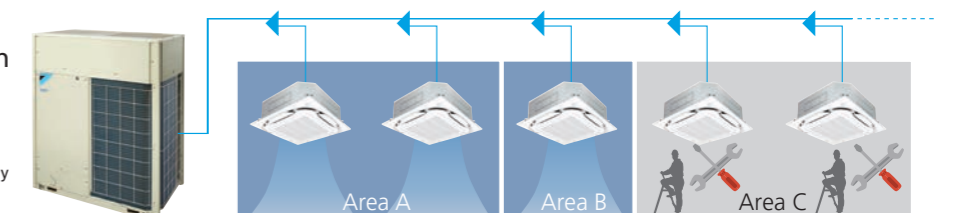


### Double backup operation functions



### Ease of maintenance

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



\* Field setting is required. This feature does not apply to residential indoor unit connection. For more information, please contact Daikin sales office.

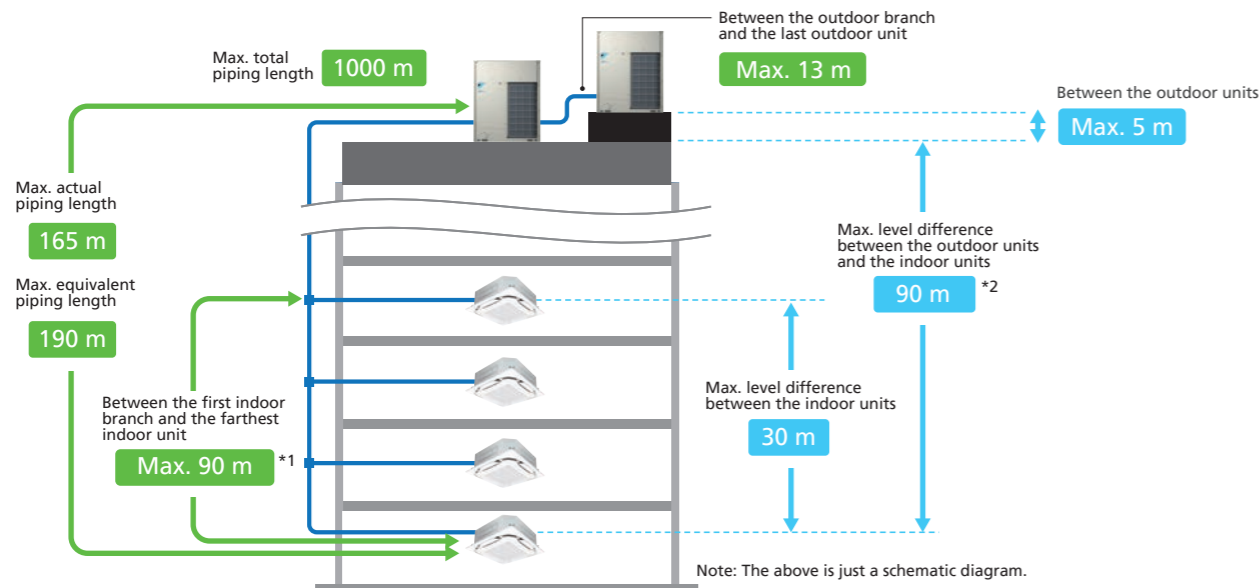
# Flexible System Design

## More options for installation location

### Long piping length

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

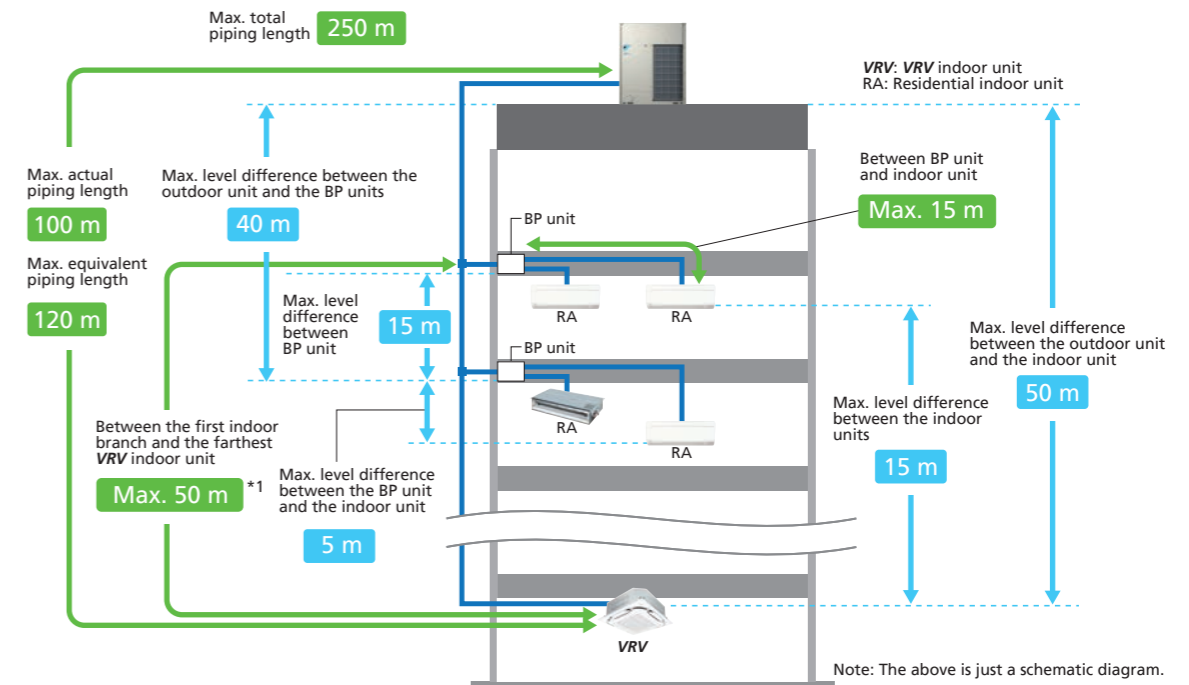
#### Installation for VRV indoor units only



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
Maximum allowable level difference	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)
	Between the outdoor units (Multiple use)	5 m
	Between the indoor units	30 m
	Between the outdoor units and the indoor units	90 m *2

\*1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. The VRV X series is easy to extend to 90 m by lessening the conditions from conventional VRV IV models. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.  
 \*2. When level differences are 50 m or more, the diameter of the main liquid piping size must be increased. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

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



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

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

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

\*When a mixed combination of VRV and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 50% to 130%. Refer to page 25 for outdoor unit combination details.

### Connection ratio

Connection capacity at maximum is 200%.



#### Conditions of VRV indoor unit connection capacity

Applicable VRV indoor units		Other VRV indoor unit models*1
Single outdoor units	<b>200%</b>	
Double outdoor units		
Triple outdoor units		

\*1 For the FXF(S)Q25 and FXVQ models, maximum connection ratio is 130% for the entire range of outdoor units.  
 Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.  
 \*Refer to page 25 for outdoor unit combination details.

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

# Anti-corrosion Technology

## Heavy anti-corrosion model

**VRV X MAX**

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

Built for Seaside

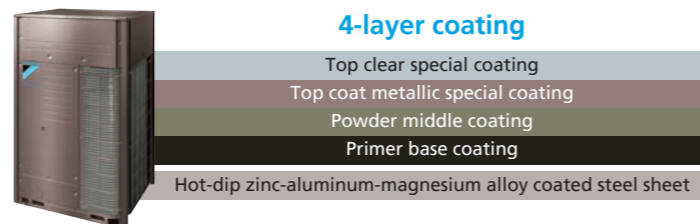


### Maximize anti-corrosion and performance

#### Outer casing

##### Multi coating for extreme durability

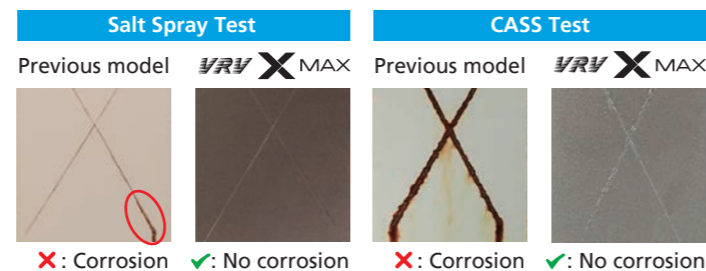
The hot-dip Zinc-Aluminum-Magnesium alloy coated sheet is optimised for even greater durability with an additional four-layer coating combination.



##### 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.

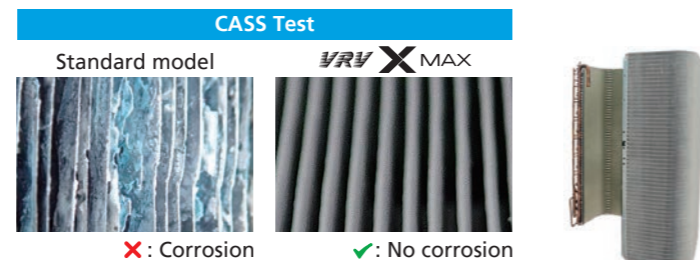
\* The cross cut was made in order to simulate a severe case of coating damage and corrosion (not from regular usage).



#### 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.

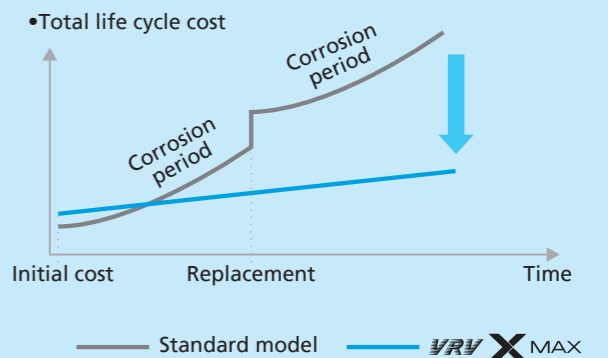
### Maximize lifespan

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.

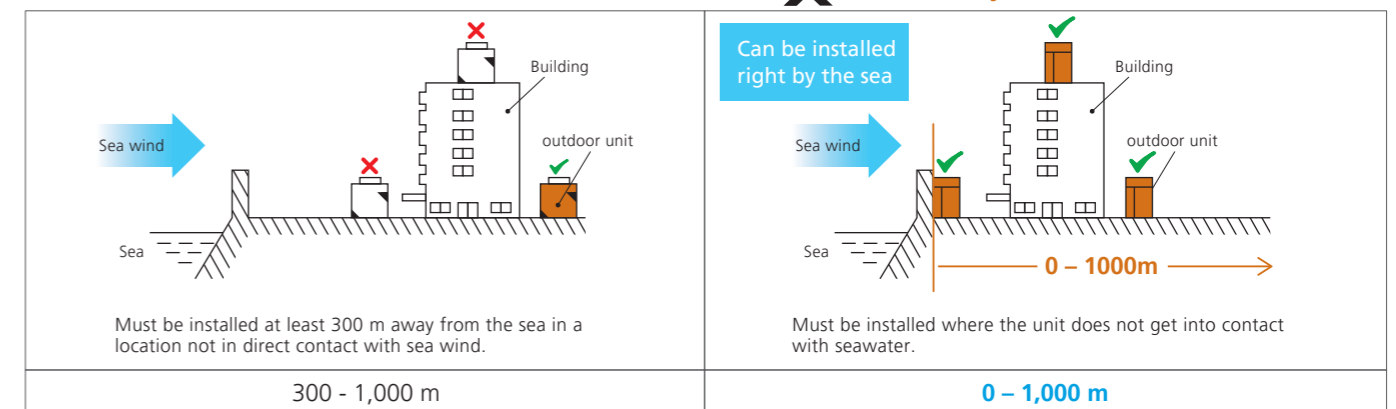


VRV X MAX

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 Unit Lineup

## VRV X Series

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

### Lineup

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

## Outdoor unit combinations

### For connection of VRV indoor units only

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
6	16.0	150	RXUQ6A	RXUQ6A	–	75 to 195 (300)	9 (15)
8	22.4	200	RXUQ8A	RXUQ8A	–	100 to 260 (400)	13 (20)
10	28.0	250	RXUQ10A	RXUQ10A	–	125 to 325 (500)	16 (25)
12	33.5	300	RXUQ12A	RXUQ12A	–	150 to 390 (600)	19 (30)
14	40.0	350	RXUQ14A	RXUQ14A	–	175 to 455 (700)	22 (35)
16	45.0	400	RXUQ16A	RXUQ16A	–	200 to 520 (800)	26 (40)
18	50.0	450	RXUQ18A	RXUQ18A	–	225 to 585 (900)	29 (45)
20	56.0	500	RXUQ20A	RXUQ20A	–	250 to 650 (1,000)	32 (50)
12	32.0	300	RXUQ12AM	RXUQ6A + RXUQ6A	BHFP22P100	150 to 390 (480)	19 (24)
14	38.4	350	RXUQ14AM	RXUQ6A + RXUQ8A		175 to 455 (560)	22 (28)
16	44.8	400	RXUQ16AM	RXUQ8A + RXUQ8A		200 to 520 (640)	26 (32)
18	50.4	450	RXUQ18AM	RXUQ8A + RXUQ10A		225 to 585 (720)	29 (36)
20	55.9	500	RXUQ20AM	RXUQ8A + RXUQ12A		250 to 650 (800)	32 (40)
18	48.0	450	RXUQ18AM1	RXUQ6A × 3	BHFP22P151	225 to 585 (585)	29 (29)
20	54.4	500	RXUQ20AM1	RXUQ6A × 2 + RXUQ8A		250 to 650 (650)	32 (32)
22	61.5	550	RXUQ22AM	RXUQ10A + RXUQ12A	BHFP22P100	275 to 715 (880)	35 (44)
24	67.0	600	RXUQ24AM	RXUQ12A × 2		300 to 780 (960)	39 (48)
26	73.5	650	RXUQ26AM	RXUQ12A + RXUQ14A		325 to 845 (1,040)	42 (52)
28	78.5	700	RXUQ28AM	RXUQ12A + RXUQ16A		350 to 910 (1,120)	45 (56)
30	83.5	750	RXUQ30AM	RXUQ12A + RXUQ18A		375 to 975 (1,200)	48 (60)
32	89.5	800	RXUQ32AM	RXUQ12A + RXUQ20A		400 to 1,040 (1,280)	52 (64)
34	96.0	850	RXUQ34AM	RXUQ14A + RXUQ20A		425 to 1,105 (1,360)	55 (64)
36	101	900	RXUQ36AM	RXUQ16A + RXUQ20A		450 to 1,170 (1,440)	58 (64)
38	106	950	RXUQ38AM	RXUQ18A + RXUQ20A		475 to 1,235 (1,520)	61 (64)
40	112	1,000	RXUQ40AM	RXUQ20A × 2		500 to 1,300 (1,600)	64 (64)
42	117	1,050	RXUQ42AM	RXUQ12A × 2 + RXUQ18A	BHFP22P151	525 to 1,365 (1,365)	64 (64)
44	123	1,100	RXUQ44AM	RXUQ12A × 2 + RXUQ20A		550 to 1,430 (1,430)	
46	130	1,150	RXUQ46AM	RXUQ12A + RXUQ14A + RXUQ20A		575 to 1,495 (1,495)	
48	135	1,200	RXUQ48AM	RXUQ12A + RXUQ16A + RXUQ20A		600 to 1,560 (1,560)	
50	140	1,250	RXUQ50AM	RXUQ12A + RXUQ18A + RXUQ20A		625 to 1,625 (1,625)	
52	146	1,300	RXUQ52AM	RXUQ12A + RXUQ20A × 2		650 to 1,690 (1,690)	
54	152	1,350	RXUQ54AM	RXUQ14A + RXUQ20A × 2		675 to 1,755 (1,755)	
56	157	1,400	RXUQ56AM	RXUQ16A + RXUQ20A × 2		700 to 1,820 (1,820)	
58	162	1,450	RXUQ58AM	RXUQ18A + RXUQ20A × 2		725 to 1,885 (1,885)	
60	168	1,500	RXUQ60AM	RXUQ20A × 3		750 to 1,950 (1,950)	

Notes: \*1. For multiple connection, the outdoor unit multi connection piping kit (separately sold) is required.  
 \*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 21 for notes on connection capacity of indoor units.

### For mixed combination of VRV and residential indoor units

Model name*1	kW	HP	Capacity index	Total capacity index of connectable indoor units*2			Maximum number of connectable indoor units
				Combination (%)*2			
				50%	100%	130%	
RXUQ6AY14(W)	16.0	6	150	75	150	195	9
RXUQ8AY14(W)	22.4	8	200	100	200	260	13
RXUQ10AY14(W)	28.0	10	250	125	250	325	16
RXUQ12AY14(W)	33.5	12	300	150	300	390	19
RXUQ14AY14(W)	40.0	14	350	175	350	455	22
RXUQ16AY14(W)	45.0	16	400	200	400	520	26
RXUQ18AY14(W)	50.0	18	450	225	450	585	29
RXUQ20AY14(W)	56.0	20	500	250	500	650	32

Notes: \*1. Only single outdoor unit (RXUQ6-20AY14(W)) can be connected.  
 \*2. Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor unit.

# Indoor Unit Lineup

## Enhanced range of choices

### VRV 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	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		
				20	25	31.25	40	50	62.5	80	100	125	140	200	250	400	500		
Ceiling Mounted Cassette	Round Flow Cassette with Sensing	FXFSQ-AV4 <span style="color: blue;">■</span> VRT smart			●	●	●	●	●	●	●	●							
	Round Flow Cassette	FXFQ-AV4 <span style="color: blue;">■</span> VRT smart			●	●	●	●	●	●	●	●							
	Compact Multi Flow Cassette	<span style="color: red;">●</span> FXZQ-AVM4 <span style="color: blue;">■</span> VRT smart		●	●	●	●	●											
	Double Flow Cassette	FXCQ-AVM4 <span style="color: blue;">■</span> VRT smart		●	●	●	●	●	●		●								
	Corner Cassette	FXKQ-MAVE4 <span style="border: 1px solid gray; padding: 2px;">VRT</span>			●	●	●		●										
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE4 (with drain pump) <span style="color: blue;">■</span> VRT smart		●	●	●													
		FXDQ-PDVT4 (without drain pump) <span style="color: blue;">■</span> VRT smart		●	●														
		FXDQ-NDVE4 (with drain pump) <span style="color: blue;">■</span> VRT smart					●	●	●										
		FXDQ-NDVT4 (without drain pump) <span style="color: blue;">■</span> VRT smart					●	●	●										
	Slim Duct (Compact)	FXDQ-SPV14 <span style="border: 1px solid gray; padding: 2px;">VRT</span>		●	●	●	●	●	●										
	Middle Static Pressure Duct	FXSQ-PAV4 <span style="color: blue;">■</span> VRT smart		●	●	●	●	●	●	●	●	●							
	Middle-High Static Pressure Duct	FXMQ-PAV4 <span style="color: blue;">■</span> VRT smart		●	●	●	●	●	●	●	●	●							
	High Static Pressure Duct	FXMQ-PVM <span style="color: blue;">■</span> VRT smart											●	●					
	Outdoor-Air Processing Unit	FXMQ-MFV7										●		●	●				
	Ceiling Suspended	Ceiling Suspended	FXHQ-MAV7 <span style="border: 1px solid gray; padding: 2px;">VRT</span>				●		●		●								
		FXHQ-AVM4 <span style="border: 1px solid gray; padding: 2px;">VRT</span>										●	●						
Wall Mounted	FXAQ-AVM4 <span style="color: blue;">■</span> VRT smart		●	●	●	●	●	●											
Floor Standing	Floor Standing	FXLQ-MAVE4 <span style="border: 1px solid gray; padding: 2px;">VRT</span>		●	●	●	●	●	●										
	Concealed Floor Standing	FXNQ-MAVE4 <span style="border: 1px solid gray; padding: 2px;">VRT</span>		●	●	●	●	●	●										
	Floor Standing Duct	FXVQ-NY14 <span style="border: 1px solid gray; padding: 2px;">VRT</span>										●		●	●	●	●		
Clean Room Air Conditioner		FXBQ-PVE4 <span style="border: 1px solid gray; padding: 2px;">VRT</span>					●	●	●										
		FXBPQ-PVE4 <span style="border: 1px solid gray; padding: 2px;">VRT</span>							●										
Heat Reclaim Ventilator with DX-Coil	<span style="color: red;">●</span> VKM-GCVE		Airflow rate 500-950 m³/h																
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h																
Air Handling Unit	AHUR		6-120 HP																

### Residential indoor units with connection to BP units

Type	Model Name	Rated Capacity (kW)	Capacity Index					
			2.5	3.5	5.0	6.0	7.1	
			25	35	50	60	71	
Slim Ceiling Concealed Duct	FDKS-EVMB4 <span style="border: 1px solid gray; padding: 2px;">VRT</span>	 (700 mm width type)	●	●				
	FDKS-CVMB4 <span style="border: 1px solid gray; padding: 2px;">VRT</span>	 (900/1,100 mm width type)	●	●	●	●		
Wall Mounted	FTKJ-NVM4W <span style="border: 1px solid gray; padding: 2px;">VRT</span>		●	●	●			
	FTKJ-NVM4S <span style="border: 1px solid gray; padding: 2px;">VRT</span>		●	●	●			
	FTKS-DVM4 <span style="border: 1px solid gray; padding: 2px;">VRT</span>		●	●				
	FTKS-FVM4 <span style="border: 1px solid gray; padding: 2px;">VRT</span>				●	●	●	

Note: BP units are necessary for residential indoor units. Only single outdoor unit (RXUQ6-20AY14(W)) can be connected.

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

### VRV indoor unit only system



Max. 64 indoor units

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

### Residential indoor unit and VRV indoor unit mix system



Max. 32 indoor units

- BP units are necessary for residential indoor units. Only single outdoor unit (RXUQ6-20AY14(W)) can be connected.
- If a system has both residential indoor units and VRV indoor units, the system is operated under VRT control.

### Residential indoor unit only system



Max. 32 indoor units

- BP units are necessary for residential indoor units. Only single outdoor unit (RXUQ6-20AY14(W)) can be connected.
- If a system has only residential indoor units, the system is operated under VRT control.

# 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)		
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	m <sup>3</sup> /min	119	178	191	218	268	297	—	—	119+119	119+178	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)			(1,657x1,240x765)+(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	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	m <sup>3</sup> /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)			—			—				

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, Level difference: 0 m.  
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.  
 When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

Note: \*1. Models with (W) are the outdoor units with anti-corrosion specifications. For details, refer to pages 23 - 24 for more information.



# VRV A

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)**

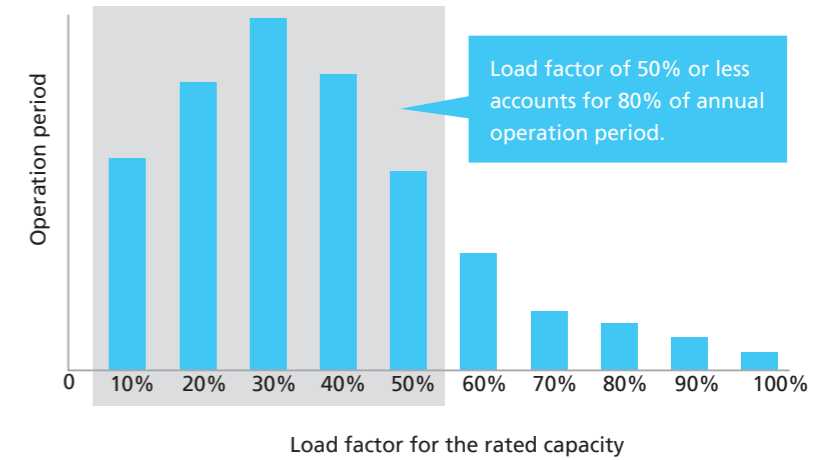
\*(W): Heavy anti-corrosion model

## Greater energy savings during low-load operation

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

The key to innovative energy savings

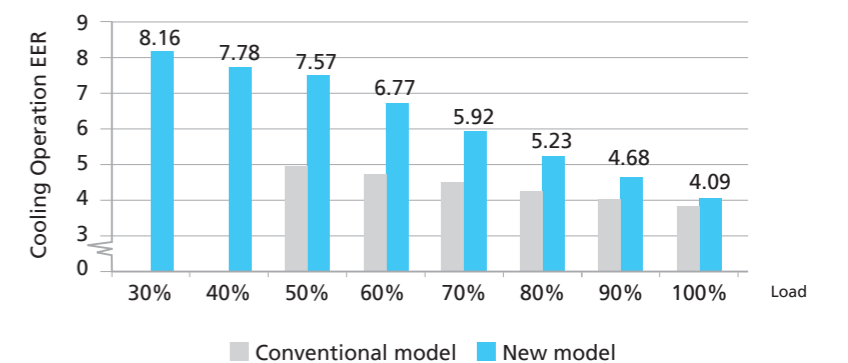
Increased efficiency during low-load operation.



- \* 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

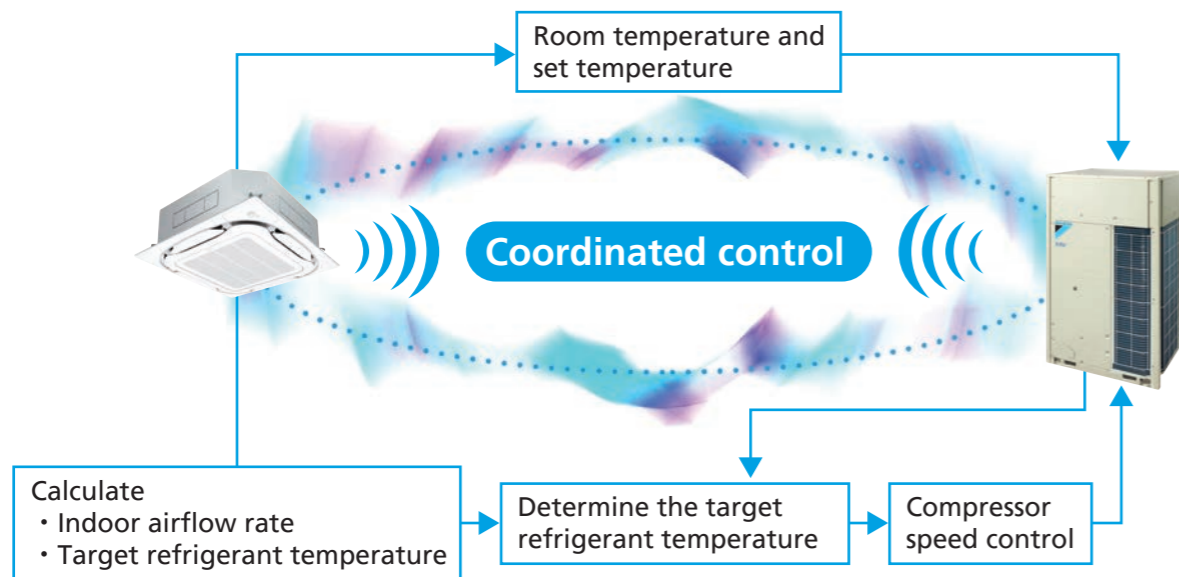
Fully Automatic Energy-saving Refrigerant Control



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

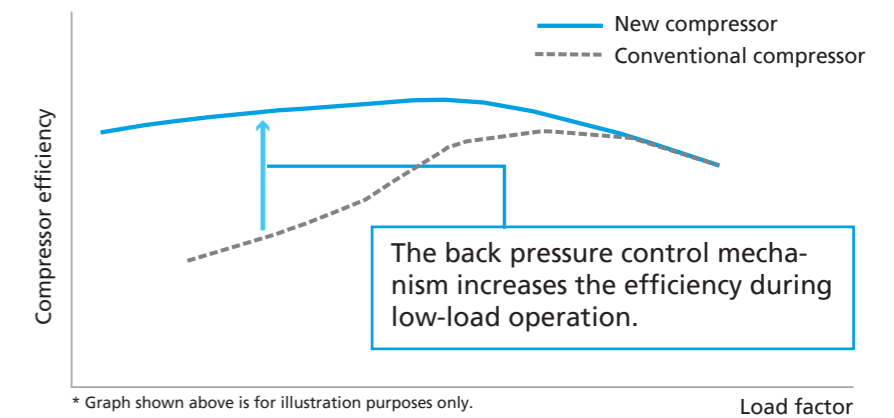
### Hardware technology New Scroll Compressor



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.



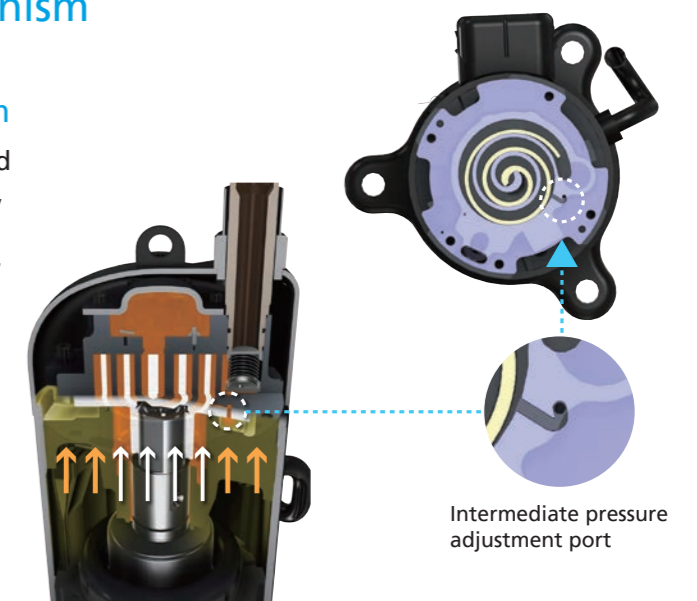
\* Graph shown above is for illustration purposes only.

### 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

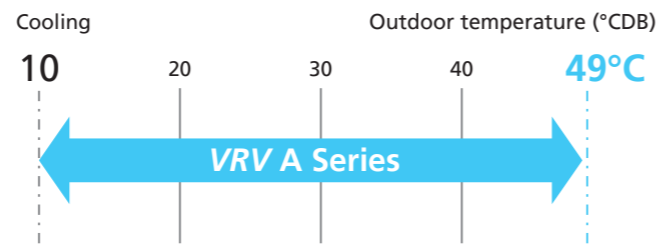
## Advanced oil temperature control

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

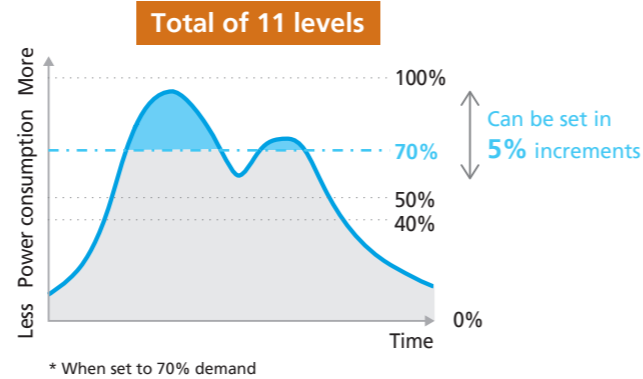


Note: When outdoor temperature falls below 10°C, the thermostat shuts OFF, the outdoor unit stops, and operation switches from cooling to fan operation.

## I-demand function

Peak power cut-off 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**.

## Automatic refrigerant charge function

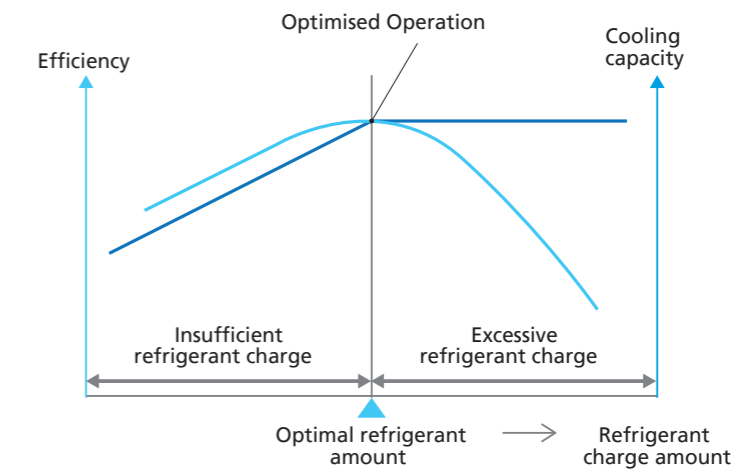
Contribute to optimised operation efficiency, higher quality and easier installation.

### Optimised operation efficiency

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



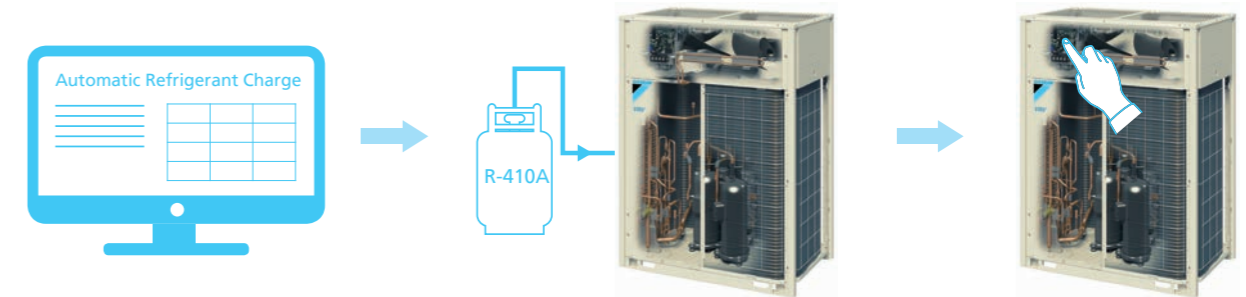
Automatic Refrigerant Charge Function movie



### 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

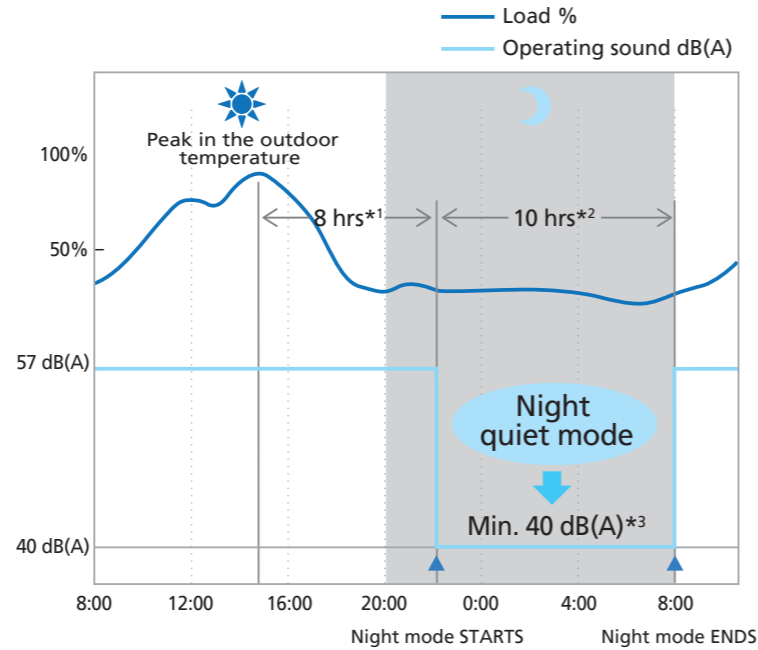
\* There are conditions in the range of ambient temperature in which the automatic refrigerant charge can be used. Refer to the installation manual for details.  
\* The refrigerant amount that can be automatically charged may differ from the additional refrigerant amount that is provided from calculations, 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.

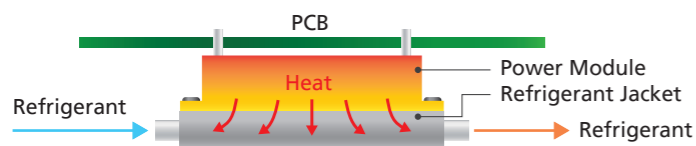


\*1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.  
\*2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.  
\*3. In case of 10 HP outdoor unit.

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.

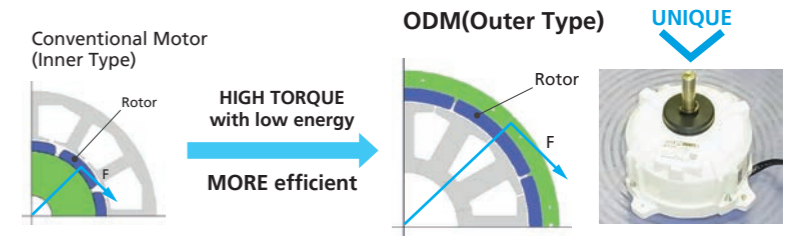
Control board failure ratio at stable operation is reduced.

This enables

- Suitability for high ambient temperatures
- Miniaturization of electronic components

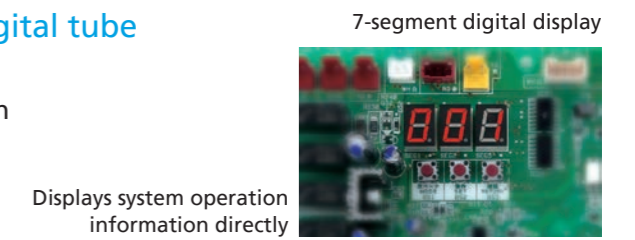
### Outer rotor DC motor (ODM)

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



### Function of information display by luminous digital tube

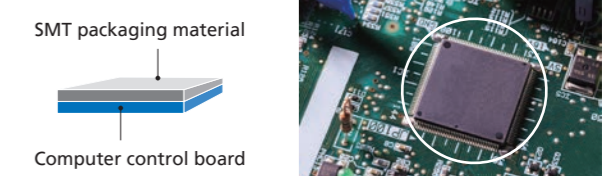
VRV A series utilises a bright 7-segment digital display to convey operational status and facilitate simple installation and after-sales service.



### SMT\* packaging technology

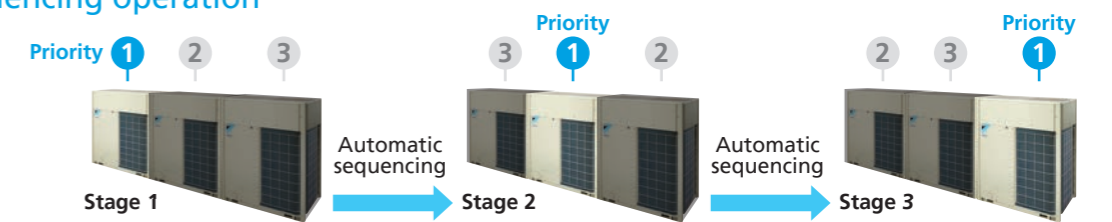
- Improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.

Computer control board surface adopting SMT packaging technology

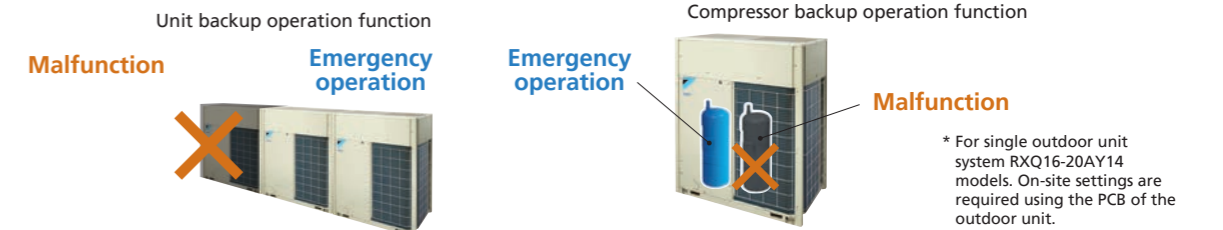


\* SMT: Surface mounted technology

### Automatic sequencing operation

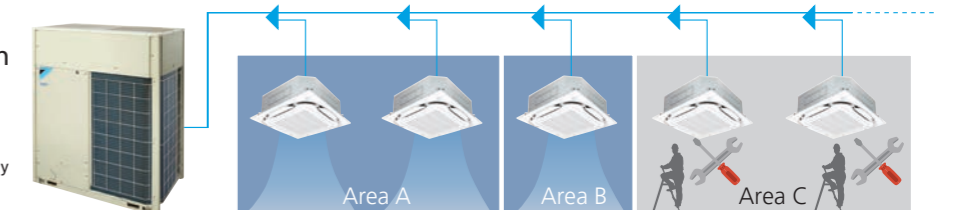


### Double backup operation functions



### Ease of maintenance

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



\* Field setting is required. This feature does not apply to residential indoor unit connection. For more information, please contact Daikin sales office.

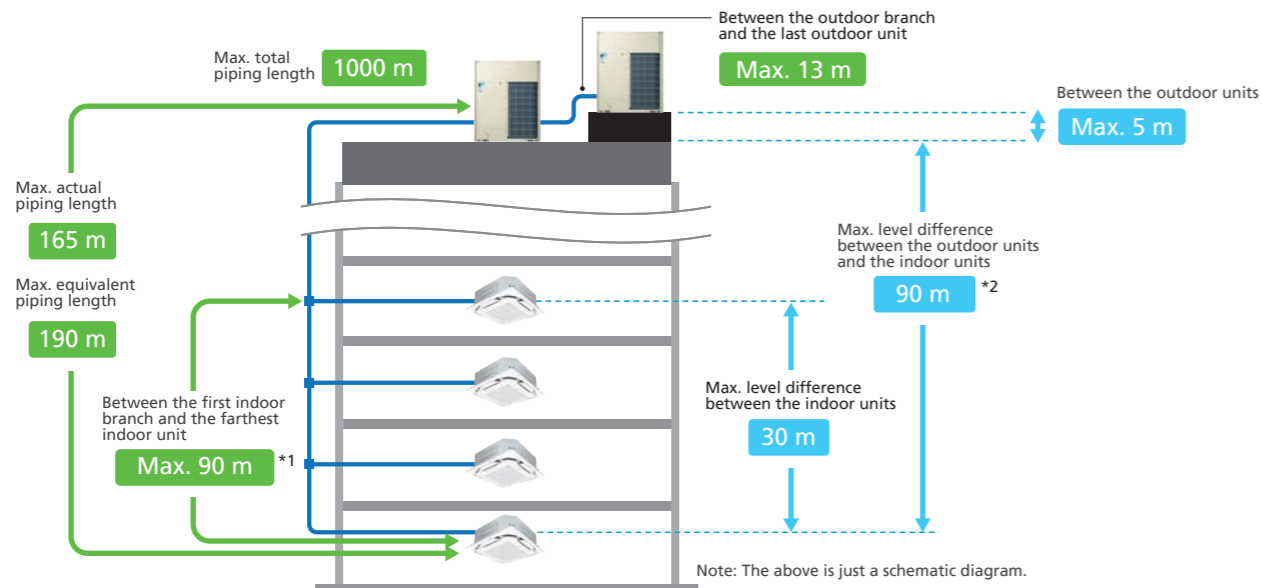
# Flexible System Design

## More options for installation location

### Long piping length

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

#### Installation for VRV indoor units only



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>
Maximum allowable level difference	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)
	Between the outdoor units (Multiple use)	5 m
	Between the indoor units	30 m
	Between the outdoor units and the indoor units	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 level differences are 50 m or more, the diameter of the main liquid piping size must be increased. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

### Connection ratio

Connection capacity at maximum is 200%.



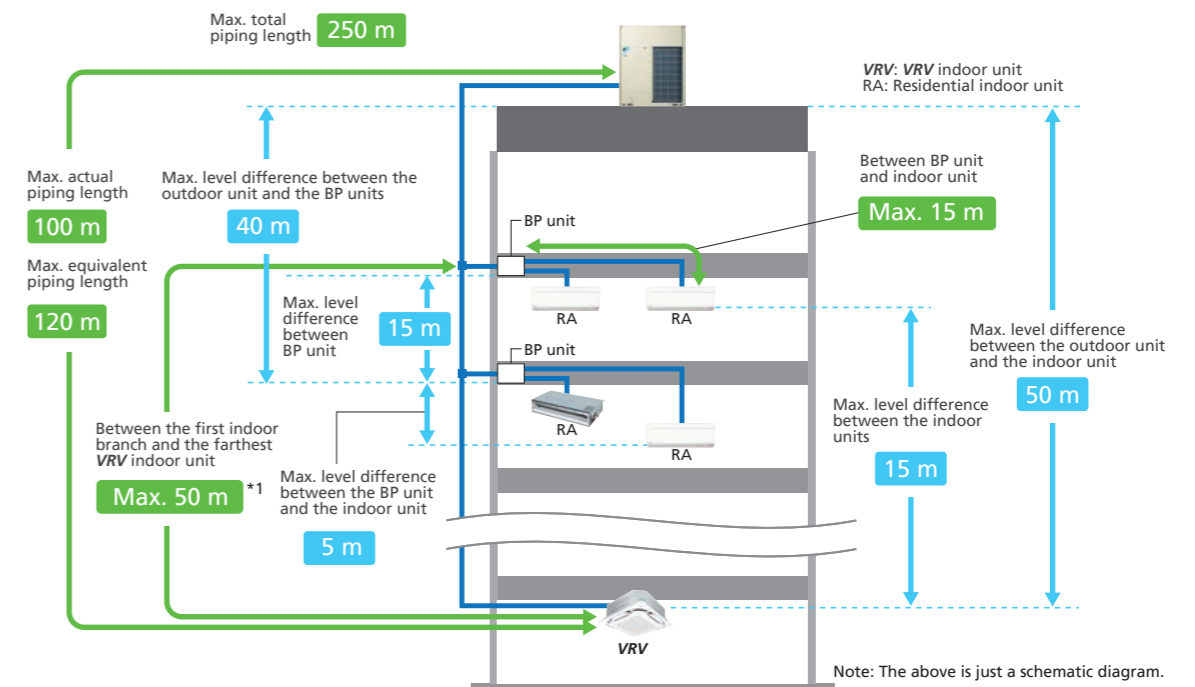
#### Conditions of VRV indoor unit connection capacity

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

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

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

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



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

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

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

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

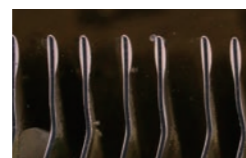
##### Anti-corrosion technology

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.

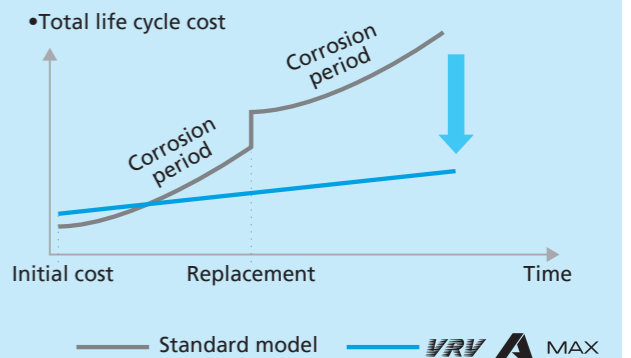
### Maximize lifespan

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.

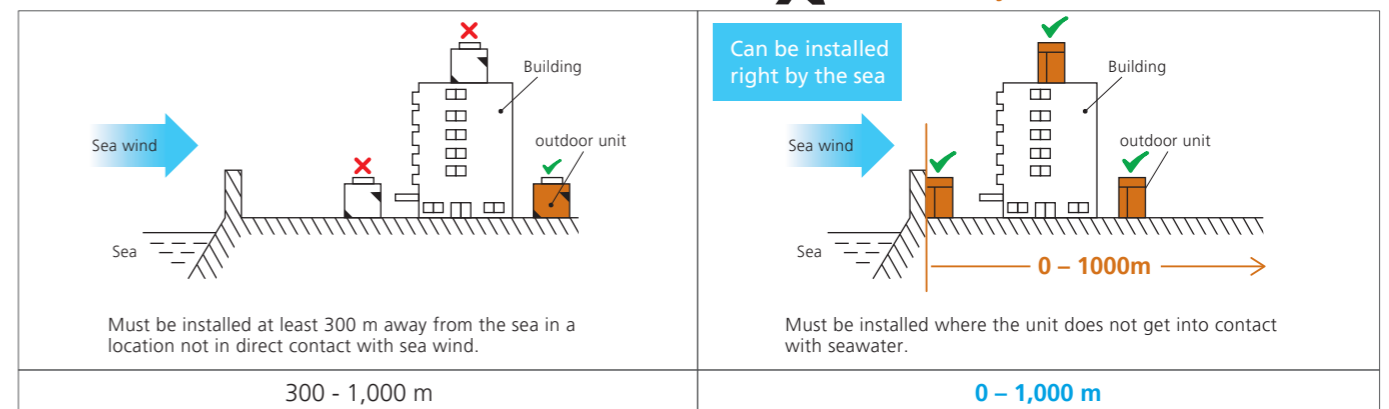
The new model resists corrosion by salt, maintains performance, and greatly reduces life cycle costs.



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 Unit Lineup

## VRV A Series

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

### Lineup

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

## Outdoor Unit Combinations

For connection of VRV indoor units only

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
6	16.0	150	RXQ6A	RXQ6A	–	75 to 195 (300)	9 (15)
8	22.4	200	RXQ8A	RXQ8A	–	100 to 260 (400)	13 (20)
10	28.0	250	RXQ10A	RXQ10A	–	125 to 325 (500)	16 (25)
12	33.5	300	RXQ12A	RXQ12A	–	150 to 390 (600)	19 (30)
14	40.0	350	RXQ14A	RXQ14A	–	175 to 455 (700)	22 (35)
16	45.0	400	RXQ16A	RXQ16A	–	200 to 520 (800)	26 (40)
18	50.0	450	RXQ18A	RXQ18A	–	225 to 585 (900)	29 (45)
20	56.0	500	RXQ20A	RXQ20A	–	250 to 650 (1,000)	32 (50)
18	50.4	450	RXQ18AM	RXQ8A + RXQ10A	BHFP22P100	225 to 585 (720)	29 (36)
20	55.9	500	RXQ20AM	RXQ8A + RXQ12A		250 to 650 (800)	32 (40)
22	61.5	550	RXQ22AM	RXQ10A + RXQ12A		275 to 715 (880)	35 (44)
24	67.0	600	RXQ24AM	RXQ12A × 2		300 to 780 (960)	39 (48)
26	73.5	650	RXQ26AM	RXQ12A + RXQ14A		325 to 845 (1,040)	42 (52)
28	78.5	700	RXQ28AM	RXQ12A + RXQ16A		350 to 910 (1,120)	45 (56)
30	83.5	750	RXQ30AM	RXQ12A + RXQ18A		375 to 975 (1,200)	48 (60)
32	90.0	800	RXQ32AM	RXQ14A + RXQ18A		400 to 1,040 (1,280)	52 (64)
34	95.0	850	RXQ34AM	RXQ16A + RXQ18A		425 to 1,105 (1,360)	55 (64)
36	100	900	RXQ36AM	RXQ18A × 2		450 to 1,170 (1,440)	58 (64)
38	106	950	RXQ38AM	RXQ18A + RXQ20A	475 to 1,235 (1,520)	61 (64)	
40	112	1,000	RXQ40AM	RXQ20A × 2	500 to 1,300 (1,600)	64 (64)	
42	117	1,050	RXQ42AM	RXQ12A × 2 + RXQ18A	525 to 1,365 (1,365)		
44	123	1,100	RXQ44AM	RXQ12A × 2 + RXQ20A	550 to 1,430 (1,430)		
46	130	1,150	RXQ46AM	RXQ14A × 2 + RXQ18A	575 to 1,495 (1,495)		
48	135	1,200	RXQ48AM	RXQ14A + RXQ16A + RXQ18A	600 to 1,560 (1,560)		
50	140	1,250	RXQ50AM	RXQ14A + RXQ18A × 2	625 to 1,625 (1,625)		
52	145	1,300	RXQ52AM	RXQ16A + RXQ18A × 2	650 to 1,690 (1,690)		
54	150	1,350	RXQ54AM	RXQ18A × 3	675 to 1,755 (1,755)		
56	156	1,400	RXQ56AM	RXQ18A × 2 + RXQ20A	700 to 1,820 (1,820)		
58	162	1,450	RXQ58AM	RXQ18A + RXQ20A × 2	725 to 1,885 (1,885)		
60	168	1,500	RXQ60AM	RXQ20A × 3	750 to 1,950 (1,950)		

Notes: \*1. For multiple connection, the outdoor unit multi connection piping kit (separately sold) is required.  
 \*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 39 for notes on connection capacity of indoor units.

### For mixed combination of VRV and residential indoor units

Model name*1	kW	HP	Capacity index	Total capacity index of connectable indoor units*2			Maximum number of connectable indoor units
				Combination (%)*2			
				50%	100%	130%	
RXQ6AY14(W)	16.0	6	150	75	150	195	9
RXQ8AY14(W)	22.4	8	200	100	200	260	13
RXQ10AY14(W)	28.0	10	250	125	250	325	16
RXQ12AY14(W)	33.5	12	300	150	300	390	19
RXQ14AY14(W)	40.0	14	350	175	350	455	22
RXQ16AY14(W)	45.0	16	400	200	400	520	26
RXQ18AY14(W)	50.0	18	450	225	450	585	29
RXQ20AY14(W)	56.0	20	500	250	500	650	32

Notes: \*1. Only single outdoor unit (RXQ6-20AY14(W)) can be connected.  
 \*2. Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor unit.

# Indoor Unit Lineup

## Enhanced range of choices

**VRV 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	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	
				20	25	31.25	40	50	62.5	80	100	125	140	200	250	400	500														
Ceiling Mounted Cassette	Round Flow Cassette with Sensing	FXFSQ-AV4	VRT smart																												
	Round Flow Cassette	FXFQ-AV4	VRT smart																												
	Compact Multi Flow Cassette	<b>FXZQ-AVM4</b>	VRT smart	●	●	●	●	●																							
	Double Flow Cassette	FXCQ-AVM4	VRT smart																												
	Corner Cassette	FXKQ-MAVE4	VRT																												
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE4 (with drain pump)	VRT smart																												
		FXDQ-PDVT4 (without drain pump)	VRT smart																												
		FXDQ-NDVE4 (with drain pump)	VRT smart																												
		FXDQ-NDVT4 (without drain pump)	VRT smart																												
	Slim Duct (Compact)	FXDQ-SPV14	VRT																												
	Middle Static Pressure Duct	FXSQ-PAV4	VRT smart																												
	Middle-High Static Pressure Duct	FXMQ-PAV4	VRT smart																												
	High Static Pressure Duct	FXMQ-PVM	VRT smart																												
	Outdoor-Air Processing Unit	FXMQ-MFV7																													
	Ceiling Suspended	Ceiling Suspended	FXHQ-MAV7	VRT																											
		FXHQ-AVM4	VRT																												
Wall Mounted		FXAQ-AVM4	VRT smart																												
Floor Standing	Floor Standing	FXLQ-MAVE4	VRT																												
	Concealed Floor Standing	FXNQ-MAVE4	VRT																												
	Floor Standing Duct	FXVQ-NY14	VRT																												
Clean Room Air Conditioner		FXBQ-PVE4	VRT																												
		FXBPQ-PVE4	VRT																												
Heat Reclaim Ventilator with DX-Coil	<b>VKM-GCVE</b>		Airflow rate 500-950 m³/h																												
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h																												
Air Handling Unit	AHUR																														

## Residential indoor units with connection to BP units

Type	Model Name	Rated Capacity (kW)	Capacity Index				
			2.5	3.5	5.0	6.0	7.1
			25	35	50	60	71
Slim Ceiling Concealed Duct	FDKS-EVMB4	700 mm width type	●	●			
	FDKS-CVMB4	900/1,100 mm width type	●	●	●	●	
Wall Mounted	FTKJ-NVM4W		●	●	●		
	FTKJ-NVM4S		●	●	●		
	FTKS-DVM4		●	●			
	FTKS-FVM4				●	●	●

Note: BP units are necessary for residential indoor units. Only single outdoor unit (RXQ6-20AY14(W)) can be connected.

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

### VRV indoor unit only system



Max. 64 indoor units

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

### Residential indoor unit and VRV indoor unit mix system



Max. 32 indoor units

- BP units are necessary for residential indoor units. Only single outdoor unit (RXQ6-20AY14(W)) can be connected.
- If a system has both residential indoor units and VRV indoor units, the system is operated under VRT control.

### Residential indoor unit only system



Max. 32 indoor units

- BP units are necessary for residential indoor units. Only single outdoor unit (RXQ6-20AY14(W)) can be connected.
- If a system has only residential indoor units, the system is operated under VRT control.



# 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	178+178	178+191	191+191	191+257	257													
Dimensions (HxWxD)	mm	1,657x930x765				1,657x1,240x765				1,657x1,240x765				(1,657x930x765)+(1,657x930x765)															
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		6.8+8.4
Piping connections	Liquid	φ 9.5 (Brazing)				φ 12.7 (Brazing)				φ 15.9 (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 28.6 (Brazing)		φ 28.6 (Brazing)		φ 34.9 (Brazing)		φ 34.9 (Brazing)		φ 34.9 (Brazing)		φ 34.9 (Brazing)		φ 34.9 (Brazing)		φ 34.9 (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	40.1	42.5	44.9	47.3	49.7	52.1	54.5	56.9																
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															
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)				φ 19.1 (Brazing)				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)		φ 41.3 (Brazing)		φ 41.3 (Brazing)		φ 41.3 (Brazing)		φ 41.3 (Brazing)		φ 41.3 (Brazing)		φ 41.3 (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, Level difference: 0 m.  
 •Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.  
 When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

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

New



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

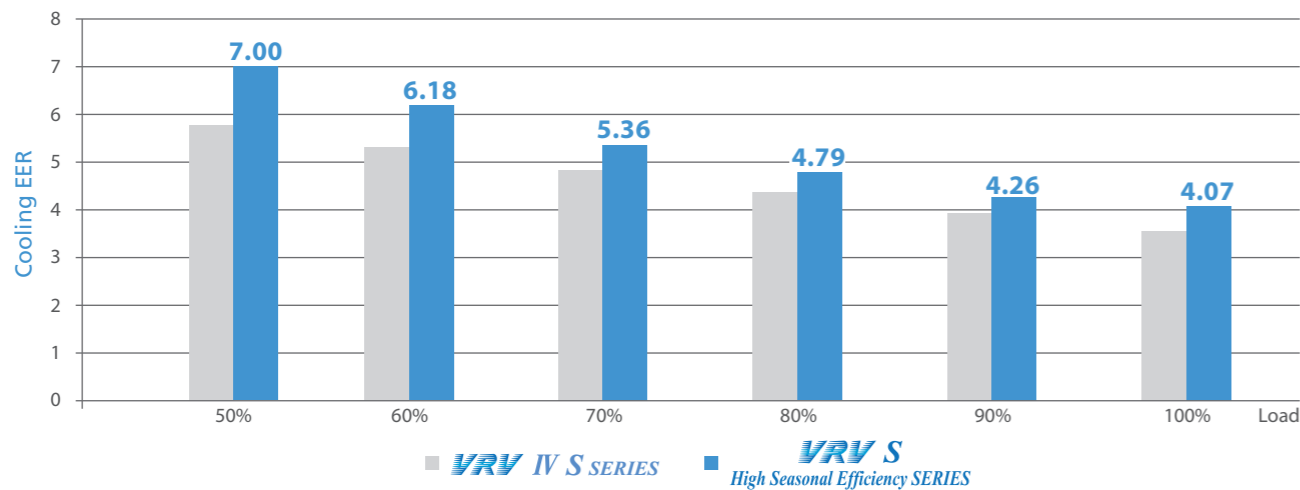
# Energy Savings & Comfort

## Energy savings

### High seasonal efficiency

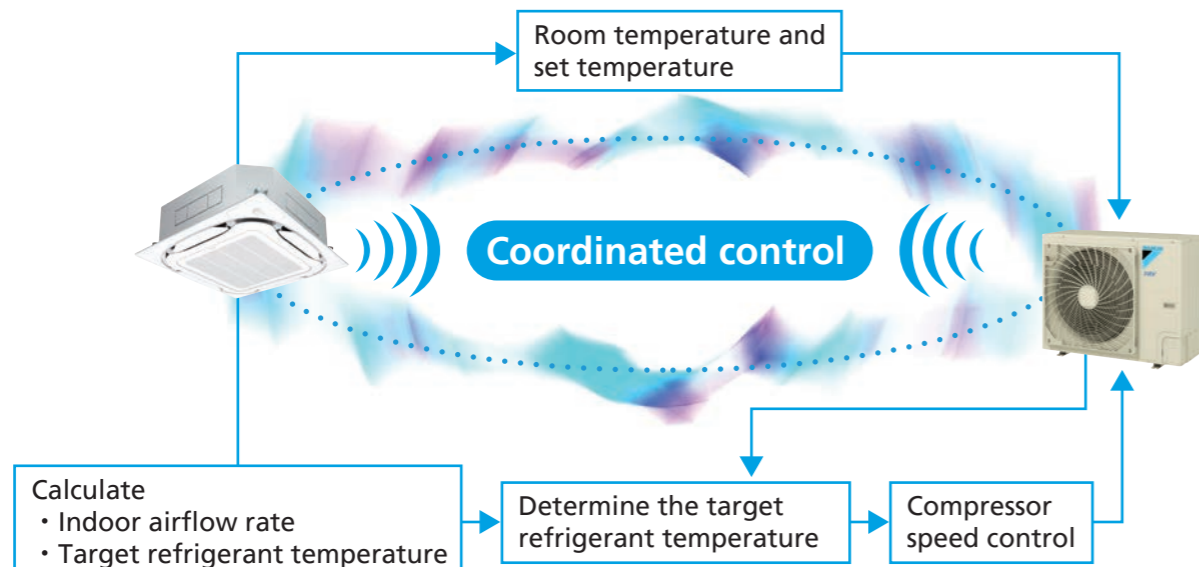
The VRT Smart Control enables improvements on efficiency during low load operation, achieving high seasonal efficiency.

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 pages 59 - 60.  
 • If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.  
 • If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

## Comfort

### Quiet operation

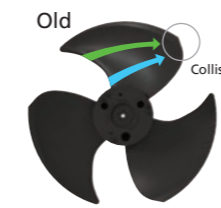
#### Low operation sound

New fan and bell mouth help enable low operation sound.

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



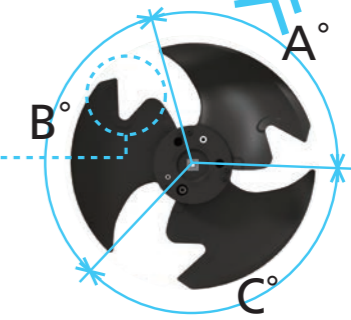
#### V-cut & irregular pitch propeller fan



Old  
Air streams collide and generate loss



New  
Air streams are smoothed around V-cut and reduces airflow loss



Irregular blade pitch also contributes to reduced airflow noise.

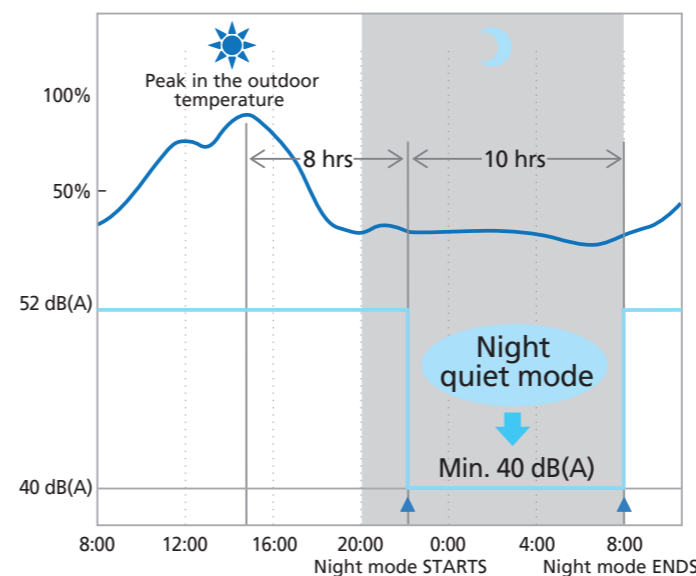
$$A^\circ < B^\circ < C^\circ$$

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

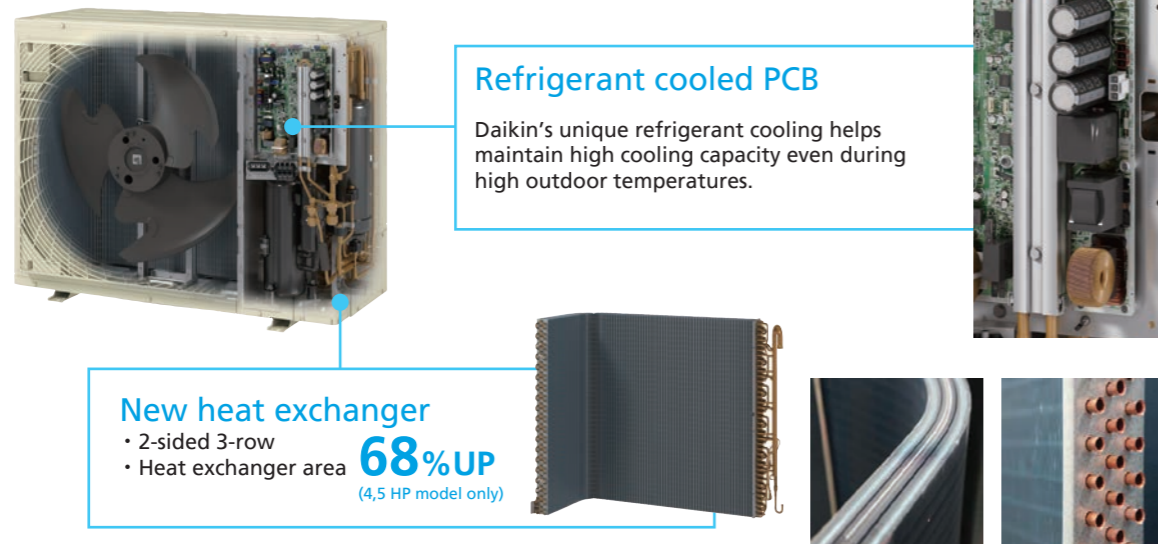
## High temperature operation

### 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.

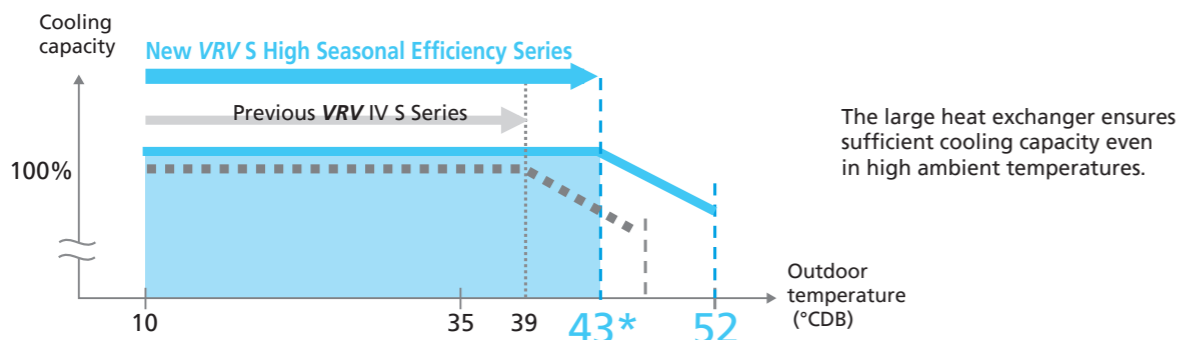


The refrigerant-cooled PCB and large 3-row heat exchanger raise the maximum cooling outdoor operation temperature from 46°C to 52°C.



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

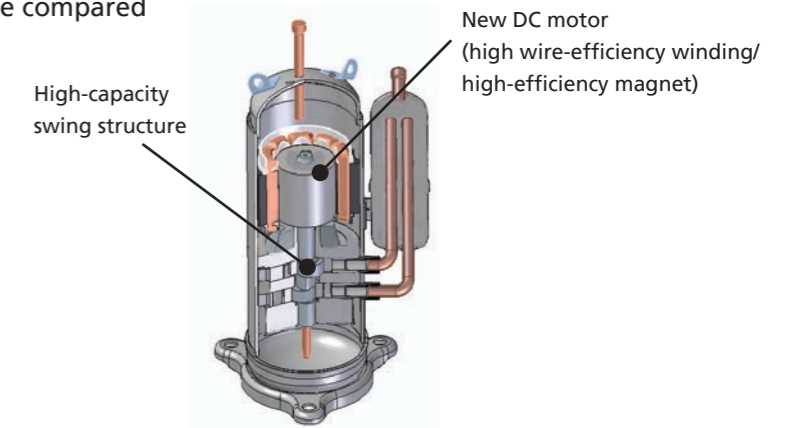
Rated cooling capacity can be maintained even when outdoor temperature is up to 43°C\*. \*Rated cooling capacity for 9 HP is up to 42°C.



## New swing compressor

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

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

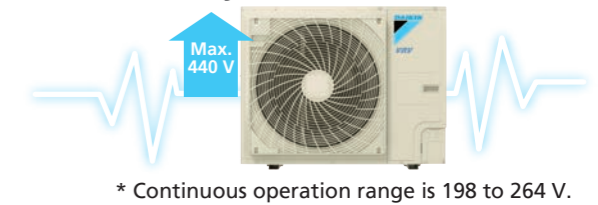


### Improved performance

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.

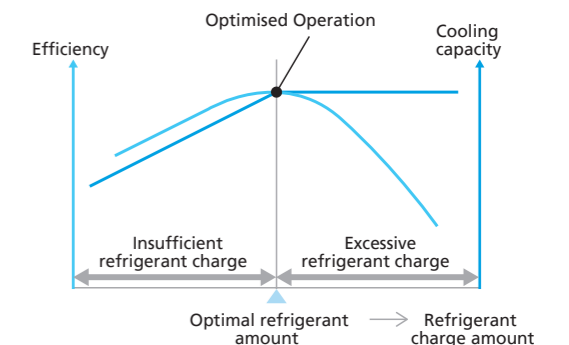


## Automatic refrigerant charge function

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.

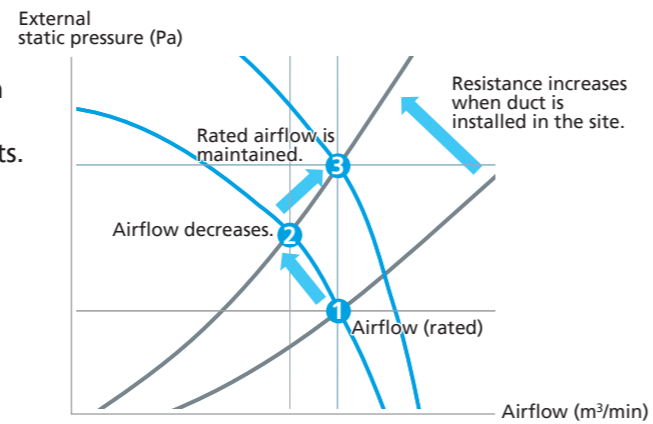
# Design Flexibility of Installation

## No short circuits

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

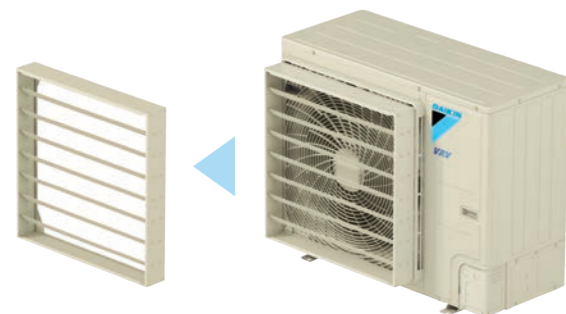
The new VRV S High Seasonal Efficiency Series outdoor unit has been achieved high external static pressure up to 40 Pa, realizing stable operation in small installation sites where the air direction adjustment grille or duct is used to avoid short circuits.

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.



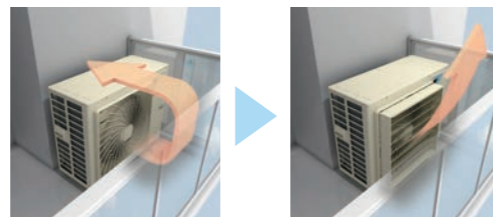
### Optimum airflow direction with the optional air direction adjustment grille

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.

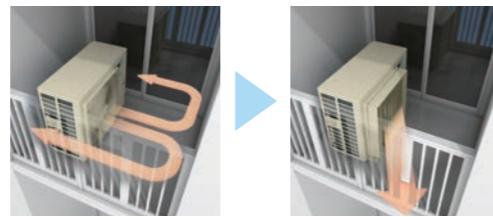


Air direction adjustment grille (option)

Wind is diverted upwards.

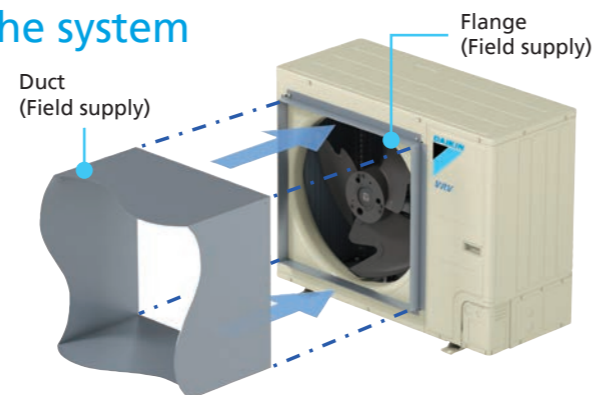


Wind is diverted sideways.



### Duct installation to stabilize the system

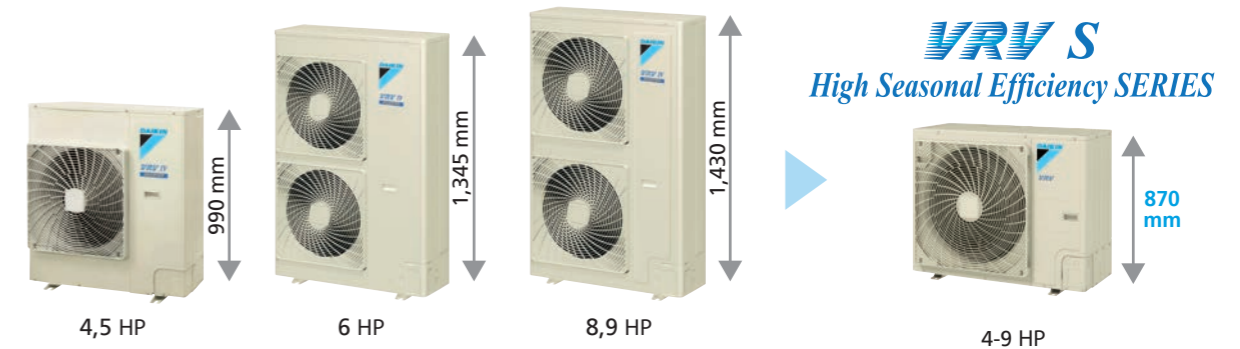
When the obstacle is not avoidable by the air direction adjustment grille, installing a field-supplied duct can bypass the obstacle. In this way, installation of the outdoor unit is possible in places like behind an advertising board.



## 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

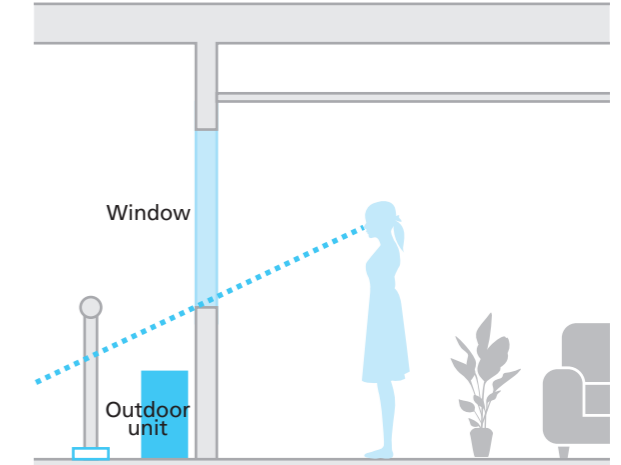


- Ideal solution that minimises both visual and sound impact
- Can be installed in a wide variety of locations and applications
- No space required for multiple outdoor units

View from outside

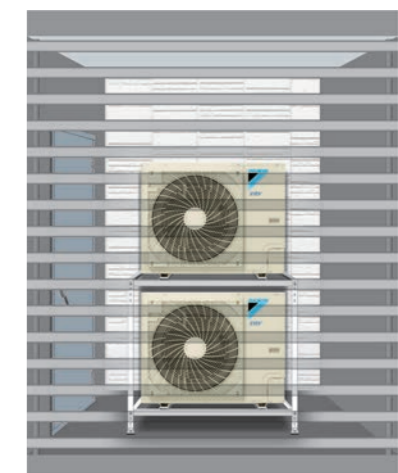


View from inside



### 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

Previous VRV IV S series **100 m** **▶** **120 m\***  
 VRV S High Seasonal Efficiency SERIES

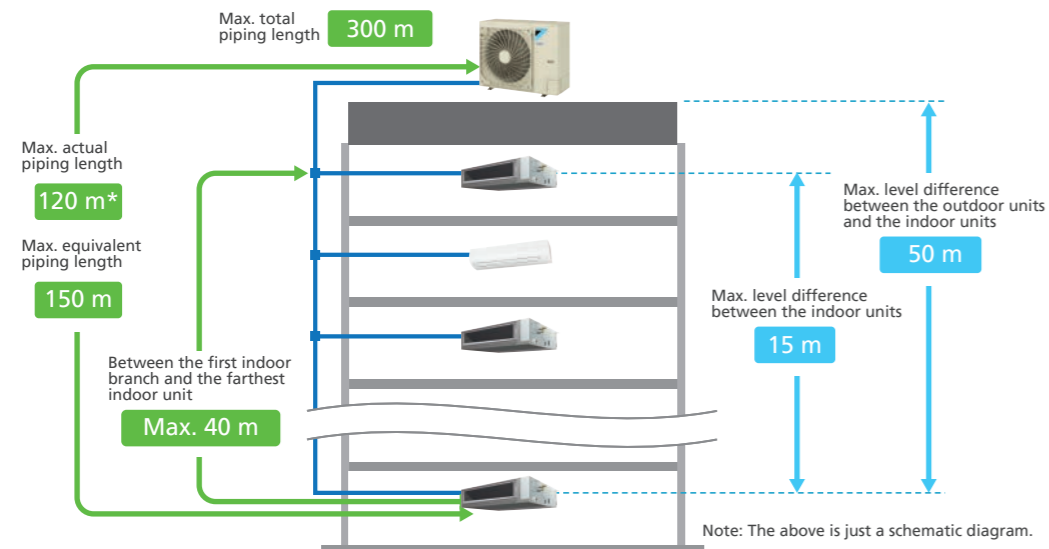


Installation on balconies of residential apartments

One outdoor unit can provide comfort for the whole house



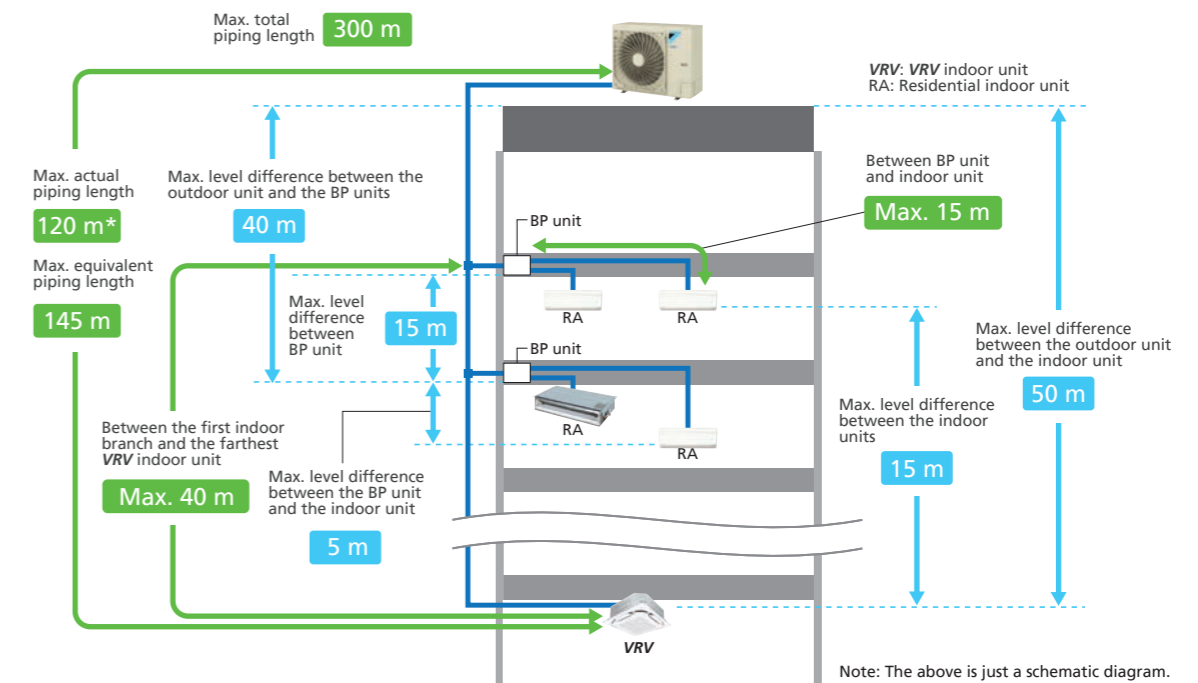
### Installation for VRV indoor units only



	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 level 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	50 m 40 m

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

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



	4 HP	5-9 HP	
Maximum allowable piping length	Actual piping length (Equivalent)	120 m* (145 m)	120 m* (145 m)
	Total piping length	300 m	300 m
	Between BP unit and indoor unit	If indoor unit capacity index < 60. 2 m-15 m If indoor unit capacity index is 60. 2 m-12 m If indoor unit capacity index is 71. 2 m-8 m	2 m-15 m 2 m-12 m 2 m-8 m
Minimum allowable piping length	Between the first indoor branch and the farthest BP unit or between the first indoor branch and the farthest VRV indoor unit	40 m	40 m
	Between outdoor unit and the first indoor branch	5 m	5 m
Maximum allowable level difference	Between the indoor units	10 m	15 m
	Between BP units	10 m	15 m
	Between the outdoor unit and the indoor unit	If the outdoor unit is above. 50 m If the outdoor unit is below. 40 m	50 m 40 m
	Between the outdoor unit and the BP unit	40 m	40 m
	Between the BP unit and the indoor unit	5 m	5 m

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

# Indoor Unit Lineup

## Wide variety of indoor units

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

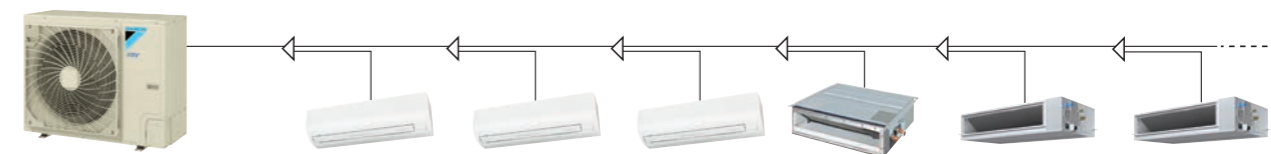
### VRV indoor units

Category	Type	Model Name	Capacity Range	Indoor units subject to VRT smart control													
				Indoor units subject to VRT control													
				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	
				20	25	32	40	50	63	80	100	125	140	200	250		
				20	25	31.25	40	50	62.5	80	100	125	140	200	250		
Ceiling Mounted Cassette	Round Flow Cassette with Sensing	FXFSQ-AV4		●	●	●	●	●	●	●	●	●	●				
	Round Flow Cassette	FXFQ-AV4		●	●	●	●	●	●	●	●	●	●				
	Compact Multi Flow Cassette	New FXZQ-AVM4		●	●	●	●	●									
	Double Flow Cassette	FXCQ-AVM4		●	●	●	●	●	●	●	●	●	●				
	Corner Cassette	FXKQ-MAVE4			●	●	●		●								
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE4 (with drain pump)		●	●	●											
		FXDQ-PDVT4 (without drain pump)		●	●	●											
		FXDQ-NDVE4 (with drain pump)					●	●	●								
		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												●	●		
Ceiling Suspended	Ceiling Suspended	FXHQ-MAV7				●						●					
		FXHQ-AVM4												●	●		
Floor Standing	Wall Mounted	FXAQ-AVM4		●	●	●	●	●	●								
	Floor Standing	FXLQ-MAVE4		●	●	●	●	●	●								
	Concealed Floor Standing	FXNQ-MAVE4		●	●	●	●	●	●								
Clean Room Air Conditioner	Floor Standing Duct	FXVQ-NY14											●	●	●		
	Clean Room Air Conditioner	FXBQ-PVE4					●	●	●								
		FXBPQ-PVE4						●									
Heat Reclaim Ventilator		VAM-GJVE		Airflow rate 150-2000 m <sup>3</sup> /h													

### Residential indoor units with connection to BP units

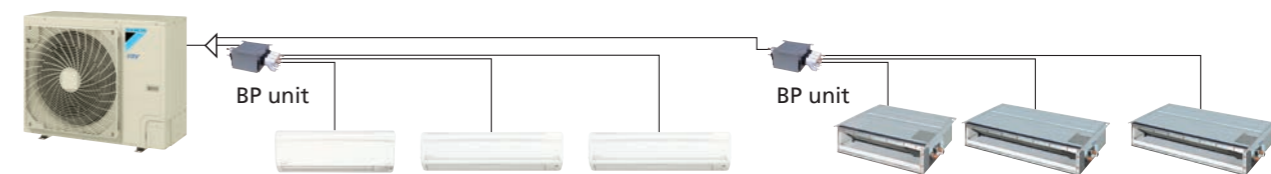
Type	Model Name	Rated Capacity (kW)	25	35	50	60	71
			Capacity Index	25	35	50	60
Slim Ceiling Concealed Duct	FDKS-EVMB4		●	●			
	FDKS-CVMB4		●	●	●	●	
Wall Mounted	FTKJ-NVM4W		●	●	●		
	FTKJ-NVM4S		●	●	●		
	FTKS-DVM4		●	●			
	FTKS-FVM4				●	●	●

Note: BP units are necessary for residential indoor units.



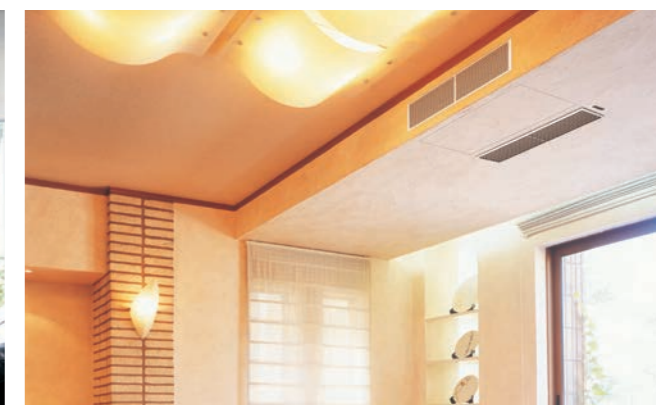
VRV indoor units only

- Max. 14 indoor units
- If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
- If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.



Residential indoor units only

- Max. 14 indoor units
- BP units are necessary for residential indoor units.
- If a system has only residential indoor units, the system is operated under VRT control.



# Outdoor Units

## VRV S High Seasonal Efficiency Series

### Specifications

MODEL			RSUQ4AVM4	RSUQ5AVM4	RSUQ6AVM4	RSUQ7AYM4	RSUQ8AYM4	RSUQ9AYM4
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz			3-phase, 380-415 V/380 V, 50/60 Hz		
Cooling capacity	Btu/h		38,200	47,800	54,600	68,200	76,400	81,900
	kW		11.2	14.0	16.0	20.0	22.4	24.0
Power consumption	kW		2.49	3.44	4.10	5.46	6.61	7.21
Capacity control	%		23 to 100	16 to 100		9 to 100		
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed swing type					
	Motor output	kW	2.0	3.1	3.5	1.9	3.2	3.8
Airflow rate	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, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.  
During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.  
When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.
- Refrigerant charge is required.



### Outdoor unit combinations

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)

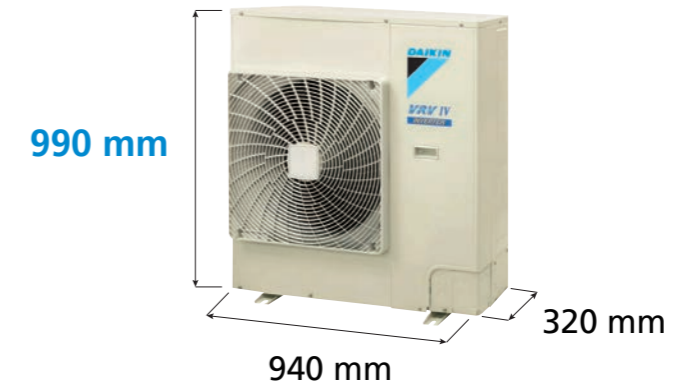


**RXMQ4AVE4**  
**RXMQ5-6BVM4**

New

## ■ Compact & lightweight design

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

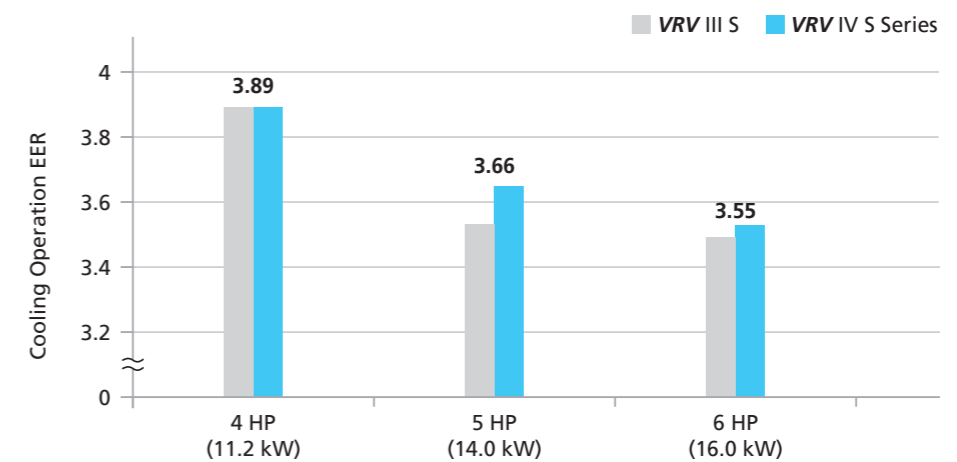


	4 HP	5 HP	6 HP
Height	990 mm	990 mm	990 mm
Product Weight	71 kg	76 kg	78 kg
Footprint	0.30 m <sup>2</sup>	0.30 m <sup>2</sup>	0.30 m <sup>2</sup>

## ■ Energy saving

### High Energy Efficiency Ratio (EER)

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



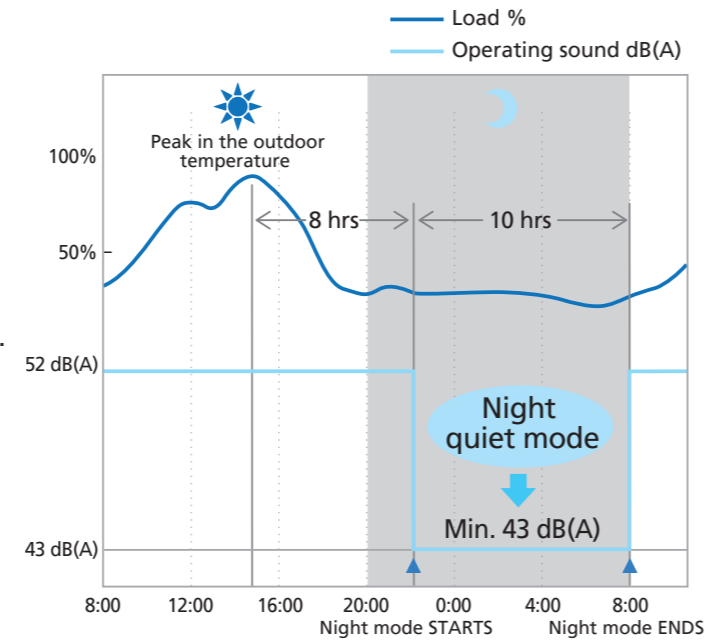
\*Cooling operation conditions: Indoor temp. of 27° CDB, 19° CWB, and outdoor temp. of 35° CDB.

# 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.

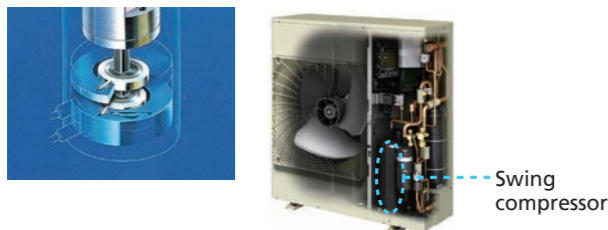


- Notes:
- This function is available in setting at site.
  - The operating sound in quiet operation mode is the actual value measured by our company.
  - The relationship of outdoor temperature (load) and time shown above is just an example.
  - In case of 4 HP outdoor unit

## Technologies for efficient and quiet operation

### Swing compressor

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

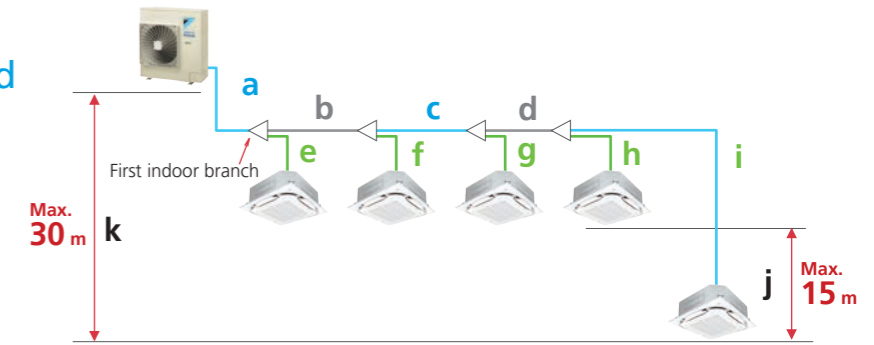
Efficiency improved in all areas compared to conventional AC motors, especially at low speeds.

## Makes the long piping design possible

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

### When only VRV indoor units are connected

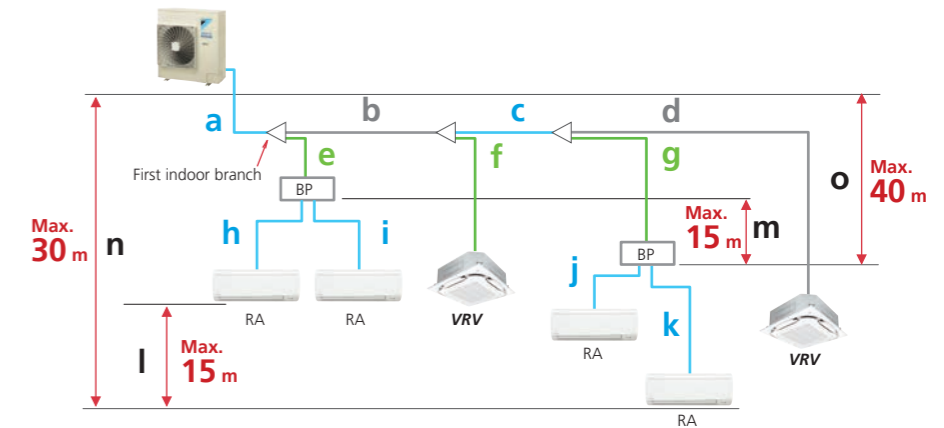
- Actual piping length: Max. 70 m
- Equivalent piping length: Max. 90 m
- Total piping length: Max. 300 m



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

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

- Actual piping length: Max. 70 m
- Equivalent piping length: Max. 90 m
- Total piping length: Max. 250 m



		4 HP	5,6 HP
Max. allowable piping length	Refrigerant piping length (Equivalent)	a+b+c+g+k, a+b+c+d	50 m (65 m)
	Total piping length	a+b+c+d+e+f+g+h+i+j+k	70 m (90 m)
	The first indoor branch - the farthest BP or VRV indoor unit	b+c+g, b+c+d	40 m
Max. & min. allowable piping length	BP unit - indoor unit	If indoor unit capacity index < 60	h, i, j, k
		If indoor unit capacity index is 60	2 m-15 m
		If indoor unit capacity index is 71	2 m-12 m
Min. allowable piping length	Outdoor unit - the first indoor branch	a	5 m
Max. allowable level difference	Between the indoor units	l	10 m
	Between BP units	m	10 m
	Outdoor unit - the indoor unit	If the outdoor unit is above	n
	If the outdoor unit is below	n	30 m
	Outdoor unit - the BP unit	o	30 m

# Indoor Unit Lineup

## Enhanced range of choices

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

### VRV indoor units

New lineup

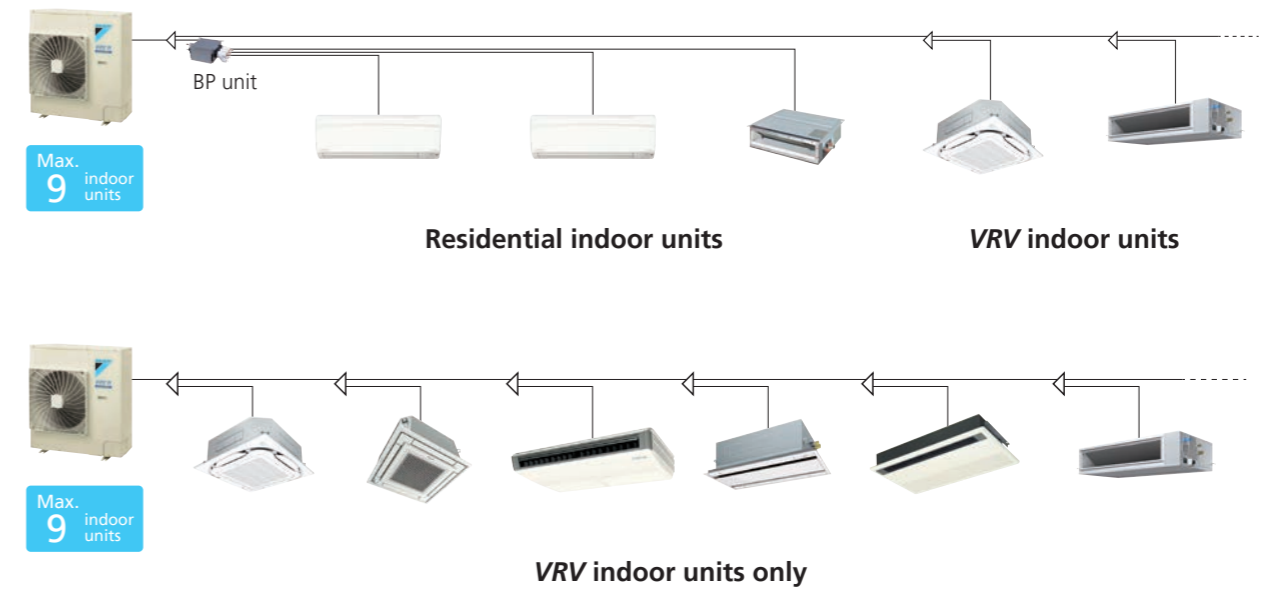
Category	Type	Model Name	Capacity Range	Capacity Index											
				20	25	32	40	50	63	80	100	125	140		
				0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3.2 HP	4 HP	5 HP	6 HP		
Ceiling Mounted Cassette	Round Flow Cassette with Sensing	FXFSQ-AV4			●	●	●	●	●	●	●	●	●	●	
	Round Flow Cassette	FXFQ-AV4			●	●	●	●	●	●	●	●	●	●	
	Compact Multi Flow Cassette	<b>FXZQ-AVM4</b>		●	●	●	●	●							
	Double Flow Cassette	FXCQ-AVM4		●	●	●	●	●	●			●			
	Corner Cassette	FXKQ-MAVE4			●	●	●		●						
Ceiling Concealed Duct	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											●			
Ceiling Suspended	Ceiling Suspended	FXHQ-MAV7				●						●			
		FXHQ-AVM4										●	●		
Wall Mounted	FXAQ-AVM4		●	●	●	●	●	●							
Floor Standing	Floor Standing	FXLQ-MAVE4		●	●	●	●	●	●						
	Concealed Floor Standing	FXNQ-MAVE4		●	●	●	●	●	●						
	Floor Standing Duct	FXVQ-NY14										●			
Clean Room Air Conditioner	Clean Room Air Conditioner	FXBQ-PVE4					●	●	●						
		FXBPQ-PVE4								●					
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h												

### Residential indoor units with connection to BP units

Type	Model Name	Rated Capacity (kW)	Capacity Index				
			25	35	50	60	71
			2.5	3.5	5.0	6.0	7.1
Slim Ceiling Concealed Duct	FDKS-EVMB4	(700 mm width type)	●	●			
	FDKS-CVMB4	(900/1,100 mm width type)	●	●	●	●	
Wall Mounted	FTKJ-NVM4W		●	●	●		
	FTKJ-NVM4S		●	●	●		
	FTKS-DVM4		●	●			
	FTKS-FVM4				●	●	●

Note: BP units are necessary for residential indoor units.

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



\* Refer to page 70 for the maximum number of connectable indoor units.

# 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	15 to 100	
Casing colour			Ivory white (5Y7.5/1)		
Compressor	Type		Hermetically sealed swing type		
	Motor output	kW	1.92	3.2	3.7
Airflow rate	m <sup>3</sup> /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	4.0
Piping connections	Liquid	mm	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° CWB, Outdoor temp.: 35° CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.
- Refrigerant charge is required.

### Outdoor unit combinations

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%	50	62.5	75
		100%	100	125	150
		130%	130	162.5	195
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)



### 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

## The VRV IV Q Series concept

Reusing existing refrigerant piping minimizes installation time and cost

An automatic refrigerant charge function enables high quality installation

Improvement in capacity and greater number of indoor units

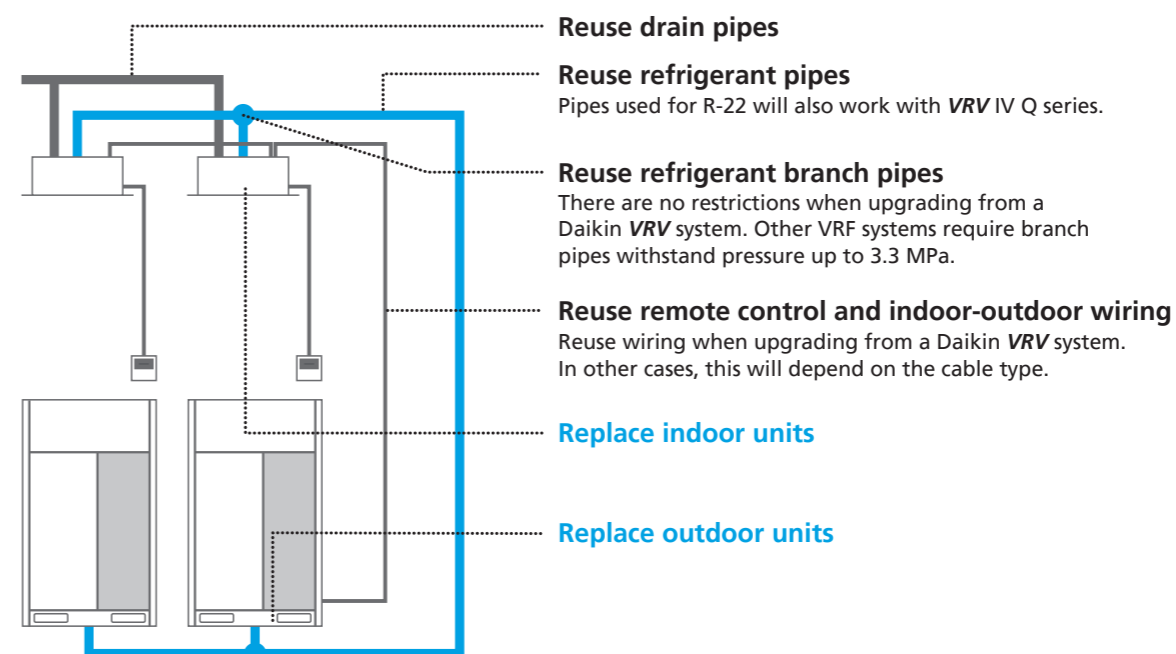
## Quick, quality and economical replacement

### ■ Reuse

#### Simple use of existing refrigerant piping

Special equipment and work is no longer required to clean pipes. A new function automatically deals with contamination inside piping during refrigerant charging, eliminating the work involved in cleaning.

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



# Benefits of System Replacement

## Automatic

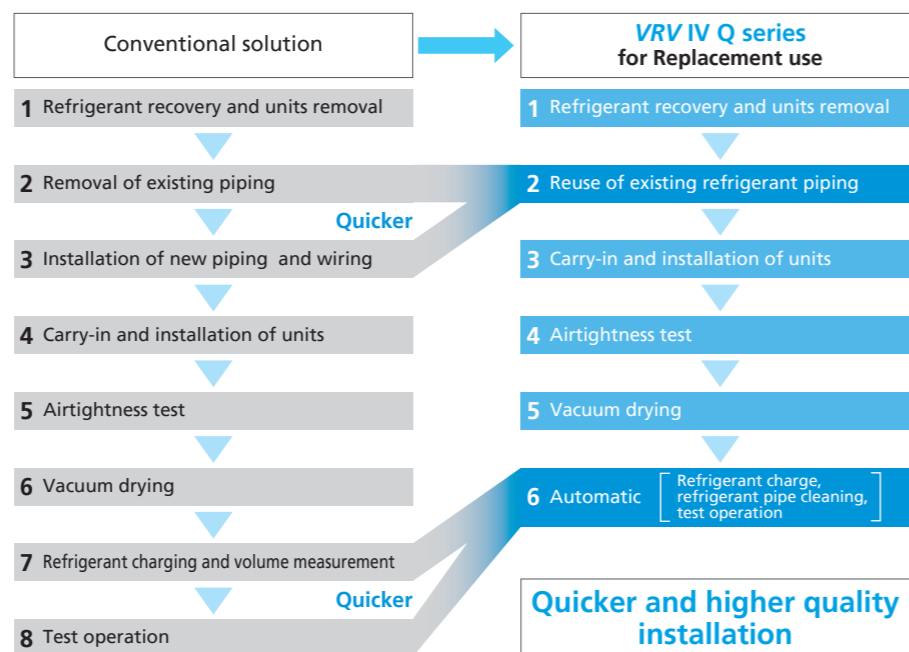
Refrigerant charging, cleaning and test operation done with just a single switch.

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and the closing of shut-off valves by simply pressing a switch after pre-charging. Furthermore, there is no need to clean inside piping as this is handled automatically by the VRV IV Q unit.

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

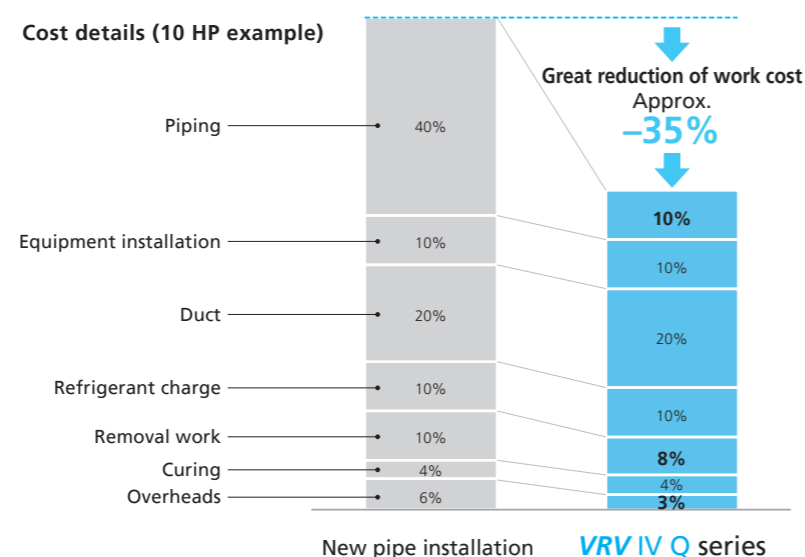
## Time saving

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



## Cost saving

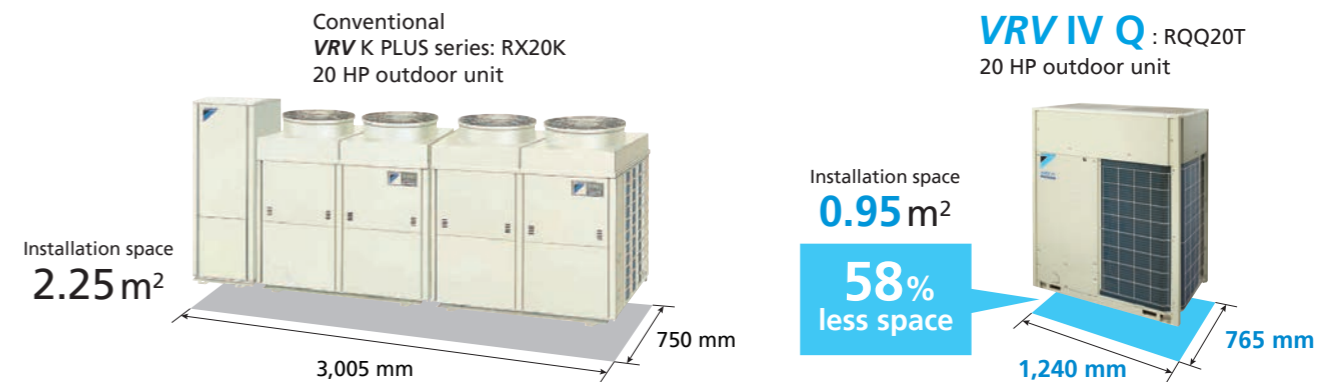
By the reuse of existing piping, 35% of cost down can be realized compared to installing new pipes.



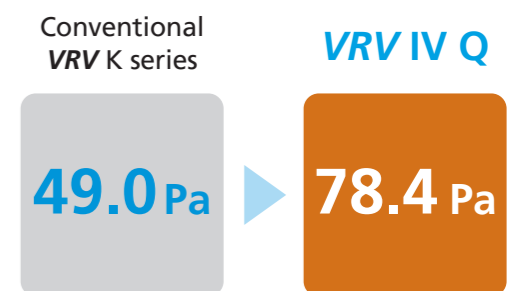
## Design flexibility

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

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



## High external static pressure 78.4 Pa



## System flexibility

An increased number of connectable indoor units in a single system

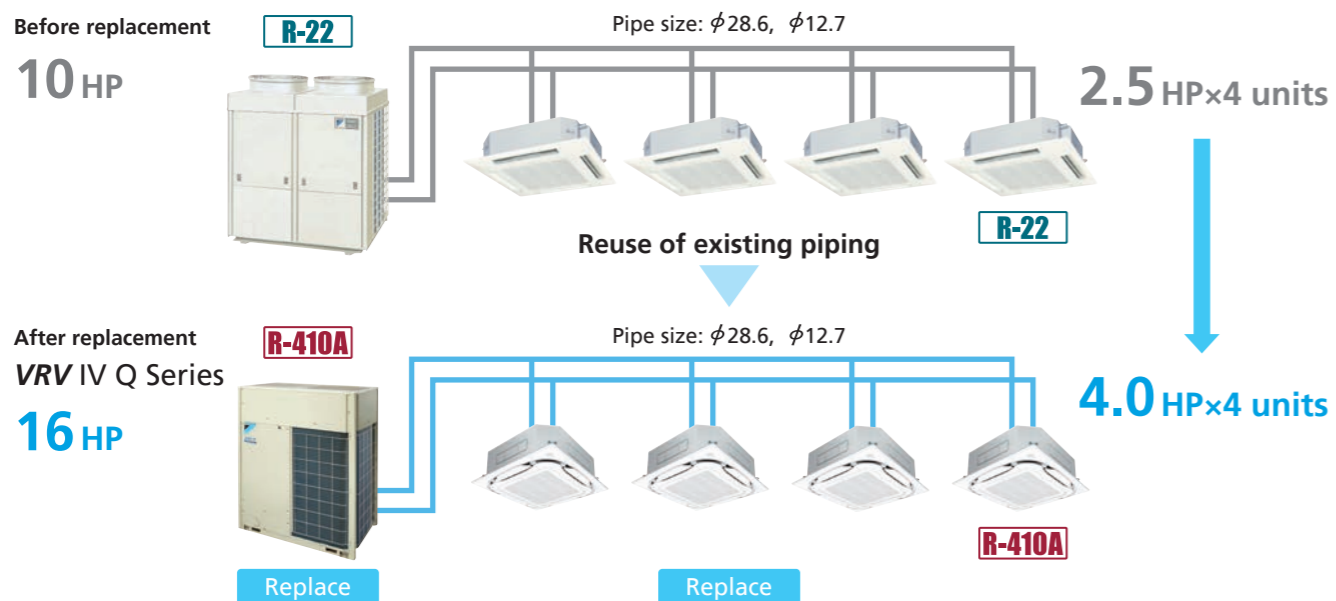
More indoor units can be connected in a single system, enabling consolidation of existing piping!



# 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 an 10 HP R-22 system.

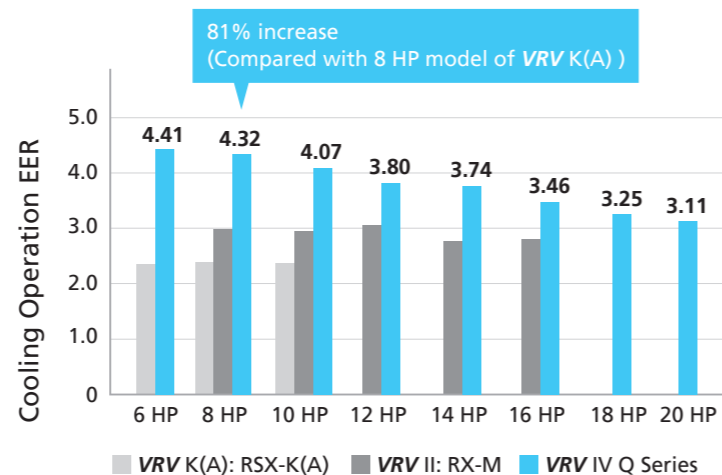


## Energy saving

### 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.

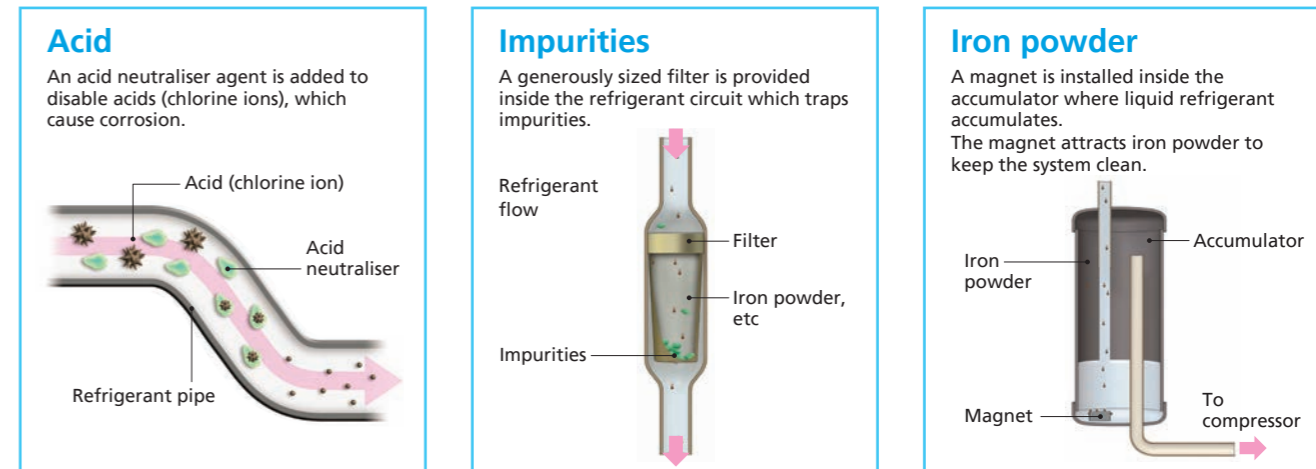


## New technology that enables use of existing piping

### New tested contamination collection method

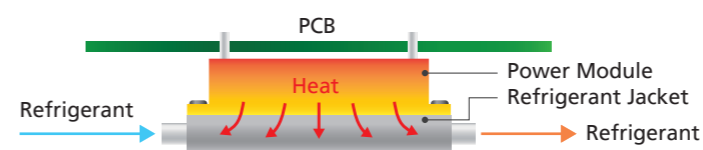
A new method collects contamination from existing piping, eliminating compressors and electric valves malfunction.

VRV IV Q series only

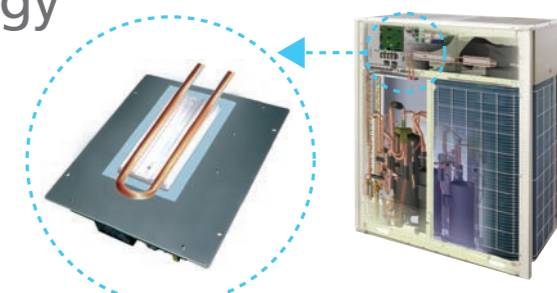


## Reliable and stable technology

### 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

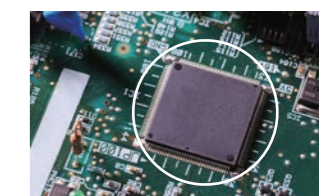
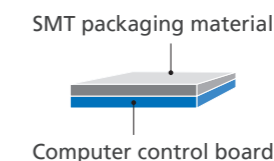
- Suitability for high ambient temperatures
- Miniaturization of electronic components

### SMT\* packaging technology

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

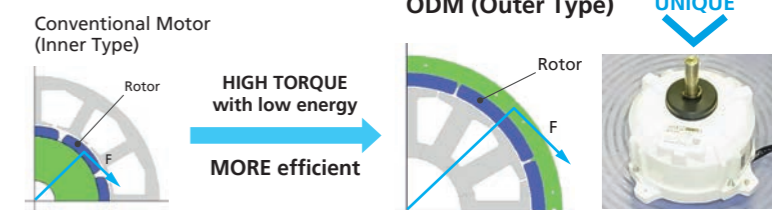
\*SMT: Surface mounted technology

Computer control board surface adopting SMT packaging technology



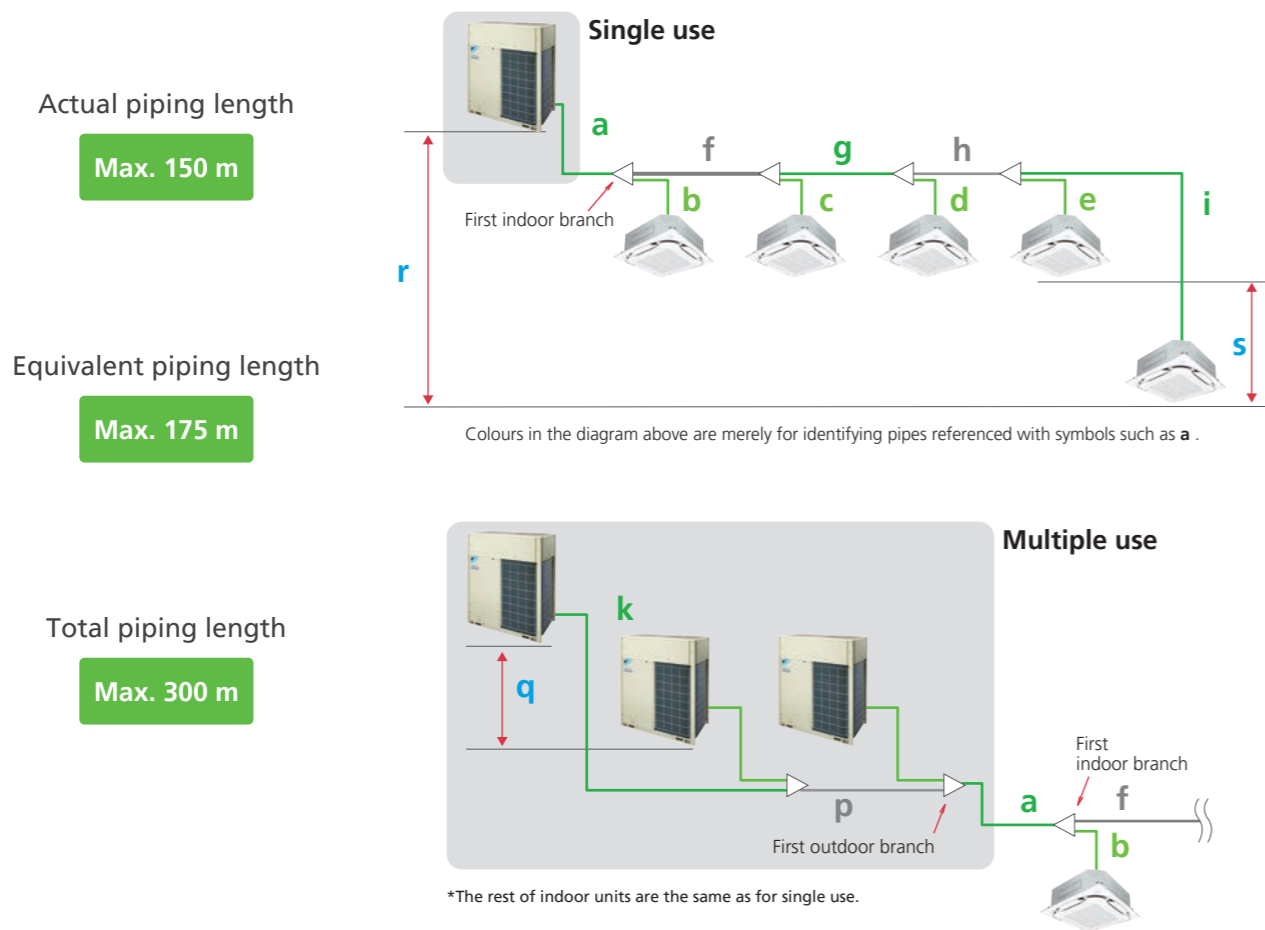
### Outer Rotor DC Motor (ODM)

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



Maximum allowable piping length	Piping length		Example
	Actual refrigerant piping length (Equivalent)	150 m (175 m)	a+f+g+h+i
	Total piping length	300 m	a+b+c+d+e+f+g+h+i
	Between the first indoor branch and the farthest indoor unit	40 m	f+g+h+i
Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)	k+p	

Maximum allowable level difference	Level Difference		Example
	Between the outdoor units (Multiple use)	5 m	q
	Between the indoor units	15 m	s
	Between the outdoor units and the indoor units	If the outdoor unit is above: 50 m If the outdoor unit is below: 40 m	r r

## Reusability of existing piping for VRV IV Q series

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

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

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



# Outdoor Unit Lineup

## VRV IV Q Series

### Enhanced lineup to 2 types

#### Lineup

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

### Outdoor unit combinations

#### Standard Type

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*3	Maximum number of connectable indoor units*2
6	16.0	150	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 × 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 × 2		425 to 1,105	55
36	101	900	RQQ36TN	RQQ12T × 3		450 to 1,170	58
38	106	950	RQQ38TN	RQQ8T + RQQ12T + RQQ18T	475 to 1,235	61	
40	112	1,000	RQQ40TN	RQQ12T × 2 + RQQ16T	BHFP22P151	500 to 1,300	64
42	119	1,050	RQQ42TN	RQQ12T + RQQ14T + RQQ16T		525 to 1,365	
44	124	1,100	RQQ44TN	RQQ12T + RQQ16T × 2		550 to 1,430	
46	130	1,150	RQQ46TN	RQQ14T × 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 × 2		450 to 1,170	58
38	106	950	RQQ38TS	RQQ18T + RQQ20T		475 to 1,235	61
40	112	1,000	RQQ40TS	RQQ20T × 2		500 to 1,300	64
42	117	1,050	RQQ42TS	RQQ12T × 2 + RQQ18T	525 to 1,365		
44	123	1,100	RQQ44TS	RQQ12T × 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 × 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 Capacity Index	20	25	32	40	50	63	80	100	125	140	200	250
				0.8 HP 20	1 HP 25	1.25 HP 31.25	1.6 HP 40	2 HP 50	2.5 HP 62.5	3.2 HP 80	4 HP 100	5 HP 125	6 HP 140	8 HP 200	10 HP 250
Ceiling Mounted Cassette	Round Flow Cassette with Sensing	FXFSQ-AV4			●	●	●	●	●	●	●	●	●		
	Round Flow Cassette	FXFQ-AV4			●	●	●	●	●	●	●	●	●		
	Compact Multi Flow Cassette	New FXZQ-AVM4		●	●	●	●	●							
	Double Flow Cassette	FXCQ-AVM4		●	●	●	●	●	●	●			●		
	Corner Cassette	FXKQ-MAVE4			●	●	●		●						
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE4 (with drain pump)		●	●	●									
		FXDQ-PDVT4 (without drain pump)		●	●	●									
		FXDQ-NDVE4 (with drain pump)					●	●	●						
		FXDQ-NDVT4 (without drain pump)					●	●	●						
	Slim Duct (Compact)	FXDQ-SPV14		●	●	●	●	●							
	Middle Static Pressure Duct	FXSQ-PAV4		●	●	●	●	●	●	●	●	●	●	●	
Ceiling Suspended	Middle-High Static Pressure Duct	FXMQ-PAV4		●	●	●	●	●	●	●	●	●	●		
		High Static Pressure Duct	FXMQ-PVM												●
	Outdoor-Air Processing Unit	FXMQ-MFV7												●	●
	Ceiling Suspended	FXHQ-MAV7				●				●					
FXHQ-AVM4												●	●		
Wall Mounted	FXAQ-AVM4		●	●	●	●	●	●							
Floor Standing	Floor Standing	FXLQ-MAVE4		●	●	●	●	●	●						
	Concealed Floor Standing	FXNQ-MAVE4		●	●	●	●	●	●						
	Floor Standing Duct	FXVQ-NY14											●	●	●
Heat Reclaim Ventilator with DX-Coil	New VKM-GCVE		Airflow rate 500-950 m³/h												
Heat Reclaim Ventilator	VAM-GJVE		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	kW	2.4X1	3.4X1	4.1X1	5.2X1	(2.9X1)+(3.3X1)	(3.6X1)+(3.7X1)	(3.4X1)+(4.1X1)	(3.4X1)+(5.2X1)	(4.1X1)+(5.2X1)	(5.2X1)+(5.2X1)	(5.2X1)+(2.9X1)+(3.3X1)	(5.2X1)+(3.6X1)+(3.7X1)	(2.9X1)+(3.3X1)+(3.6X1)+(3.7X1)
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	kg	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
Piping connections	Liquid	mm		φ 9.5(Brazing)		φ 12.7(Brazing)		φ 15.9(Brazing)				φ 19.1(Brazing)			
	Gas	mm		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	kW	(4.1X1)+(5.2X1)+(5.2X1)	(5.2X1)+(5.2X1)+(5.2X1)	(3.4X1)+(5.2X1)+(4.4X1)+(4.0X1)	(5.2X1)+(5.2X1)+(3.6X1)+(3.7X1)	(5.2X1)+(2.9X1)+(3.3X1)+(3.6X1)+(3.7X1)	(5.2X1)+(3.6X1)+(3.7X1)	(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						R-410A					
	Charge	kg	6.0+6.3+6.3	6.3+6.3+6.3	5.9+6.3+10.5	6.3+6.3+10.4	6.3+10.3+10.4	6.3+10.4+10.4	10.3+10.3+10.5	10.3+10.4+10.5			
Piping connections	Liquid	mm									φ 19.1(Brazing)		
	Gas	mm		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	kW	(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	kg	10.5	11.8	
Piping connections	Liquid	mm		φ 15.9(Brazing)	
	Gas	mm		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, E equivalent piping length: 7.5 m, Level difference: 0 m.  
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.  
 When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

# 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)	RQQ16TY14(E)	RQQ18TY14(E)	RQQ18TY14(E)	RQQ20TY14(E)	RQQ12TY14(E)	RQQ12TY14(E)	RQQ12TY14(E)	RQQ12TY14(E)	
		RQQ18TY14(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	m <sup>3</sup> /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, Level difference: 0 m.

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

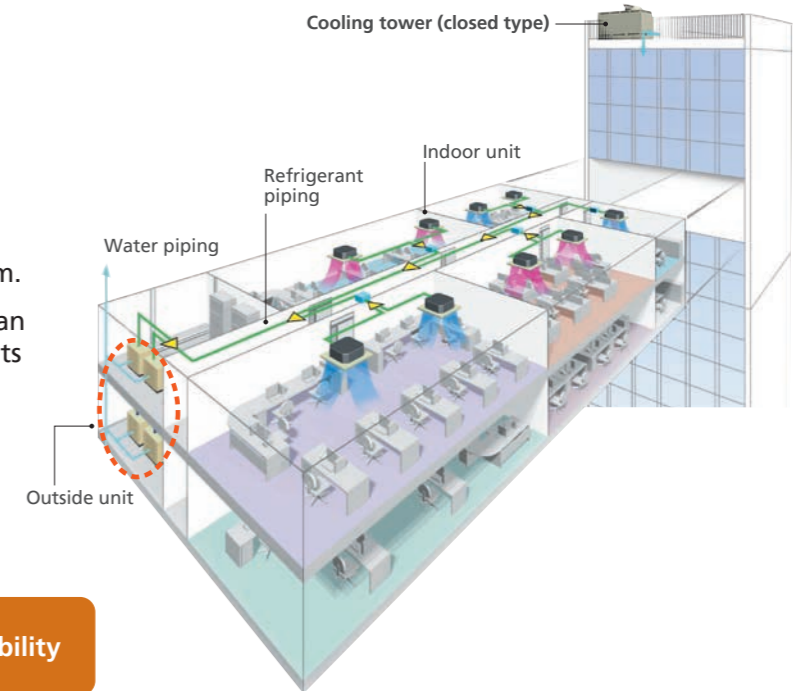
# VRV IV W SERIES

## Water Cooled System Suitable for Tall Multi-Storied Buildings

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

- 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

No balcony required

#### High-rise buildings

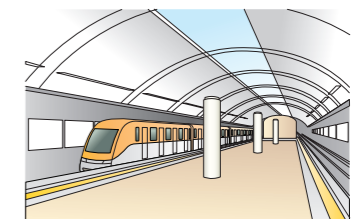
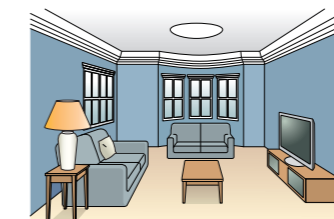
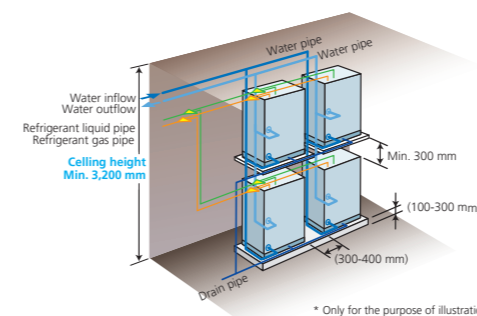
Compact outside units can be easily installed in the machine rooms on each floor. It is adaptable to high-rise buildings.

#### Condominiums and detached houses

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

#### Underground shopping malls and subway

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



\* Only for the purpose of illustration.



Single outdoor units  
**RWEYQ6-12TY14**

Double outdoor units  
**RWEYQ14-24TY14**

Triple outdoor units  
**RWEYQ26-36TY14**

# Water Cooled VRV IV as a Retrofit Solution

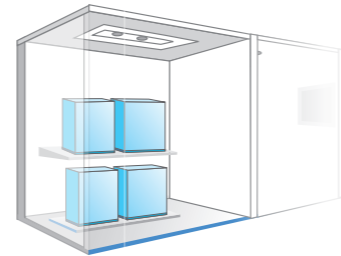
A flexible system convenient for expansion/renovation

## 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.

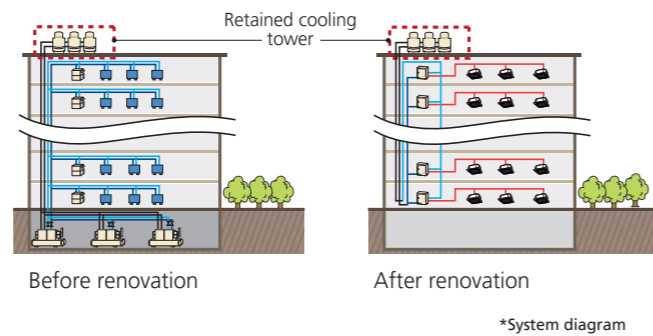
### Easy Installation



## 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.

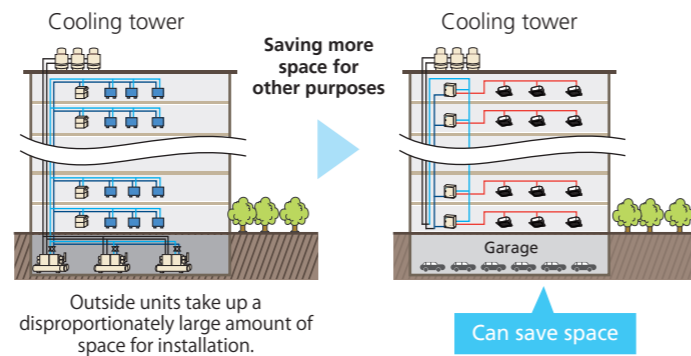
### Cost Saving



## 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.

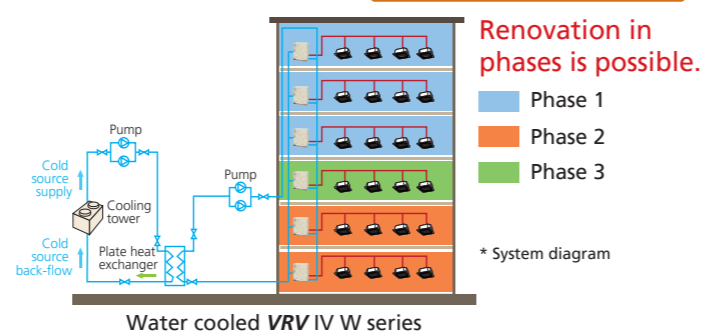
### Space Saving



## 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.

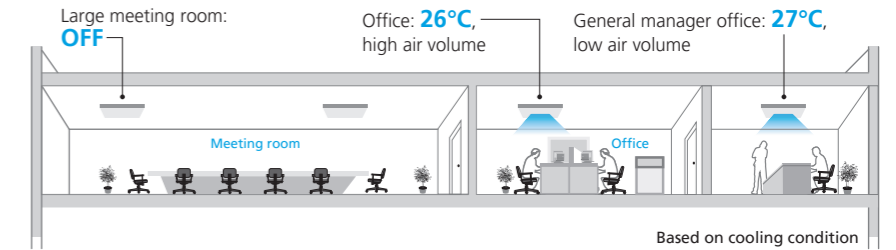
### Flexible Renovation



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

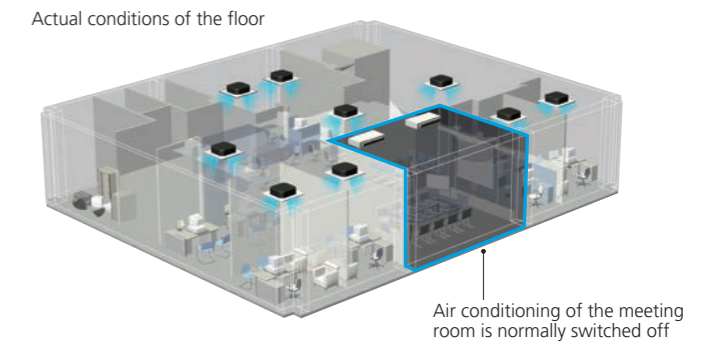
Independent control provides greater comfort and convenience.

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.

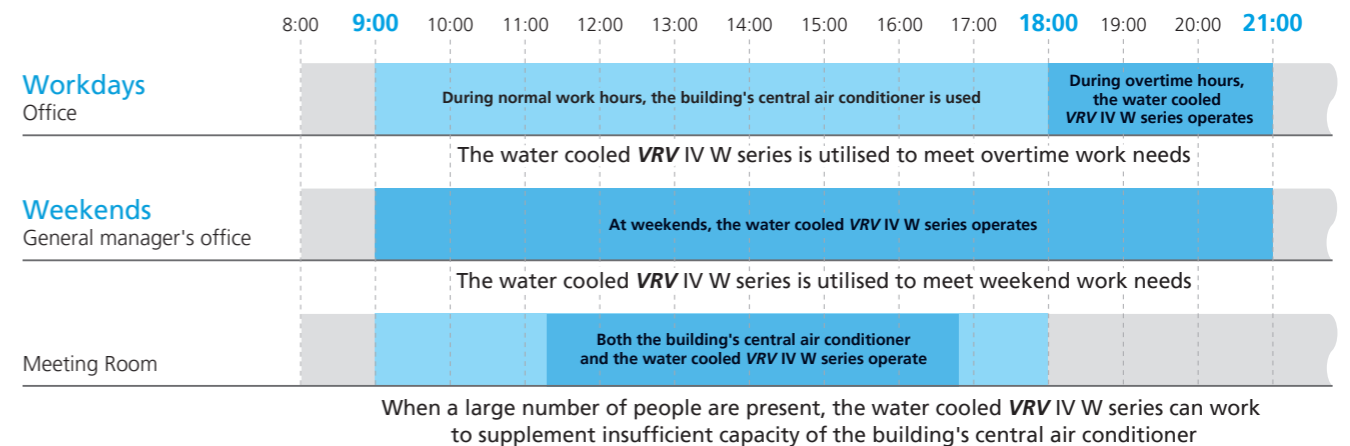


## Flexibly satisfies conditions for working overtime and times of insufficient load

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**



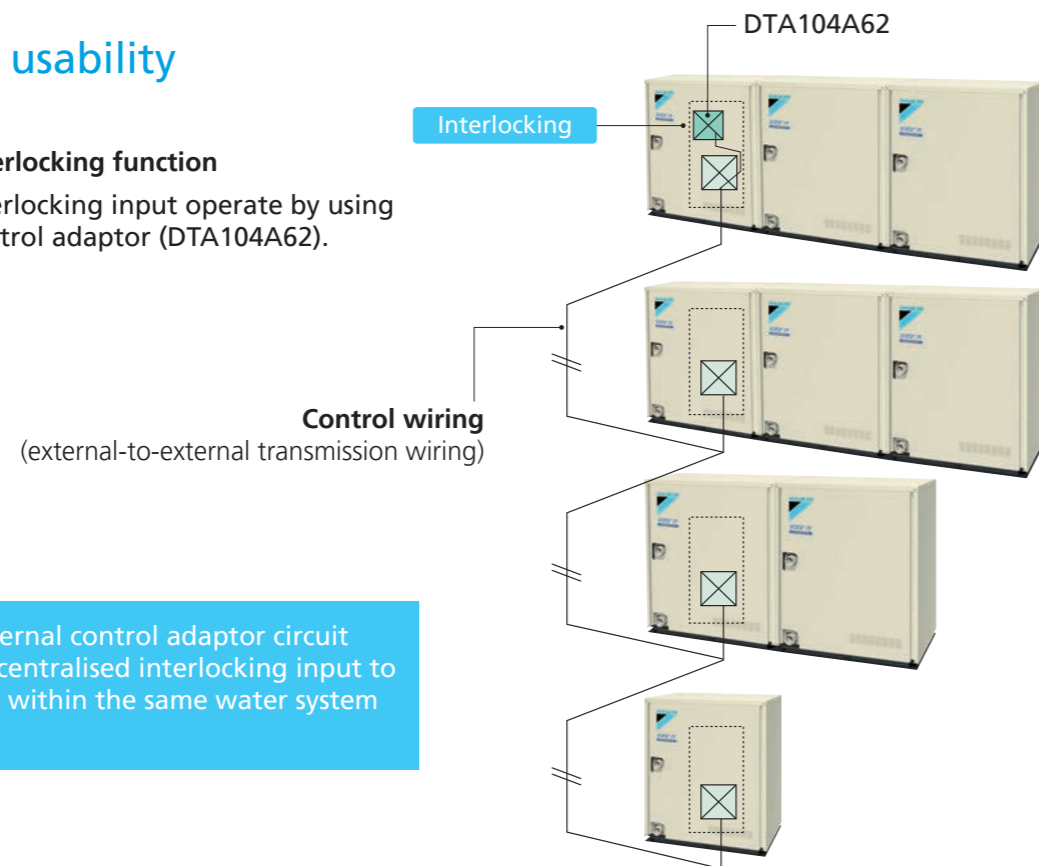
Footprint : **0.43 m<sup>2</sup>**

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

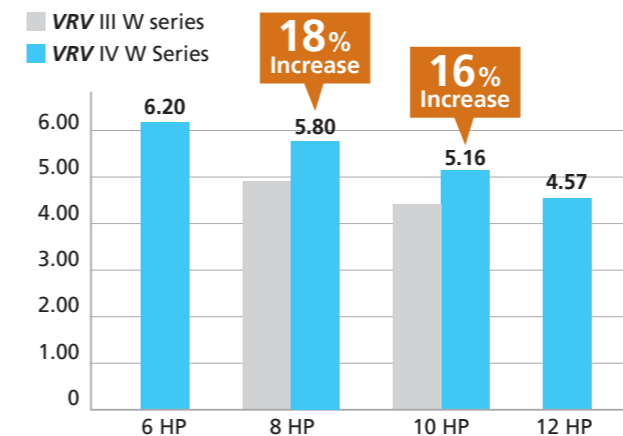


RWEYQ26TY14  
RWEYQ28TY14  
RWEYQ30TY14  
RWEYQ32TY14  
RWEYQ34TY14  
RWEYQ36TY14

## 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, Level difference: 0 m.

### VRT control for optimal annual efficiency

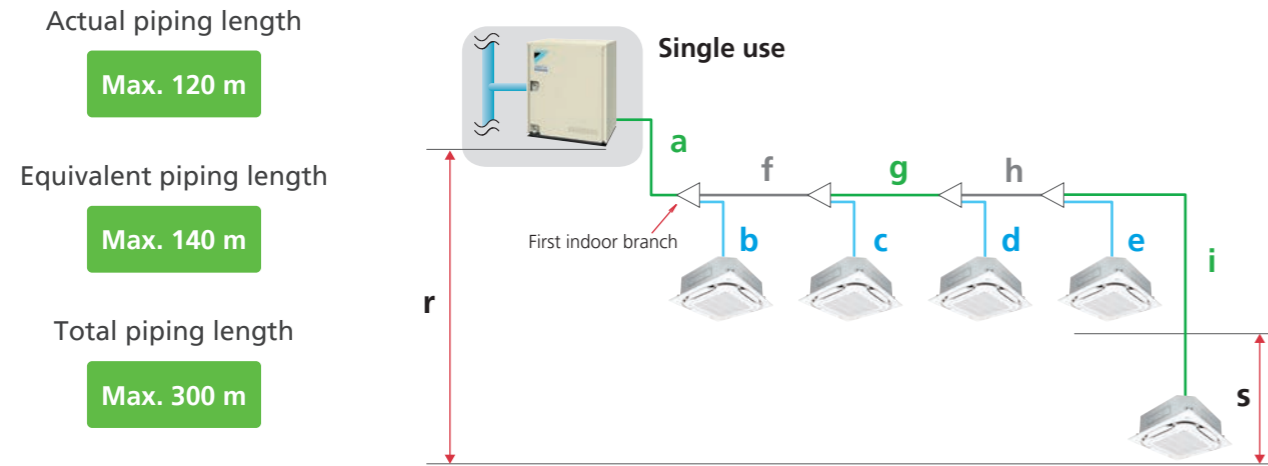
VRT automatically adjusts refrigerant temperature to individual building and climate requirement, thus further improving annual energy efficiency and maintaining comfort.



# Flexible System Design

## Long piping length

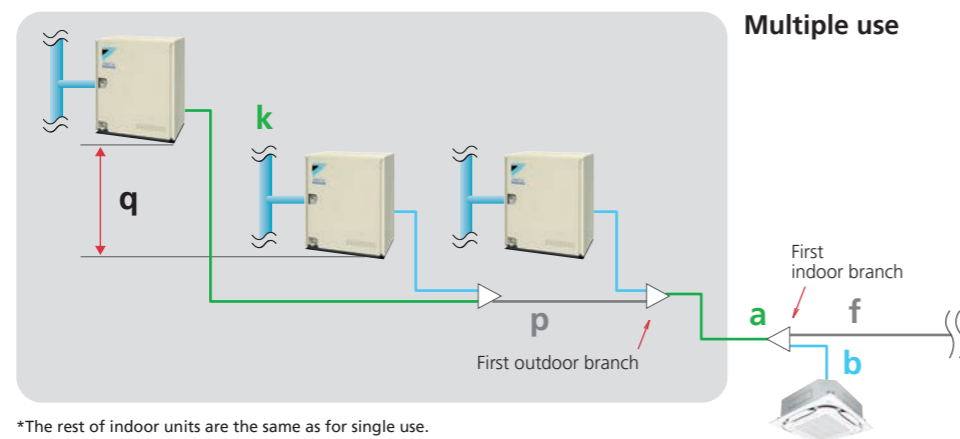
Installation for VRV indoor units only



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

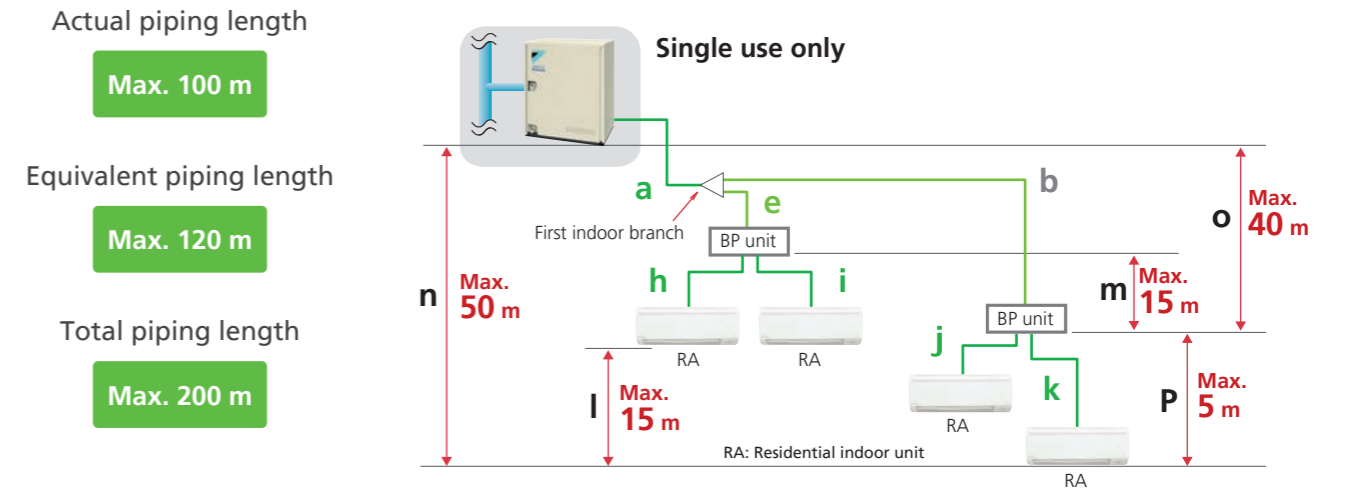
		Actual piping length	Example	Equivalent piping length
Max. allowable piping length	Refrigerant piping length	120 m	a+f+g+h+i	140 m
	Total piping length	300 m	a+b+c+d+e+f+g+h+i	—
	Between the first indoor branch and the farthest indoor unit	90 m*1	f+g+h+i	—
	Between the first outside branch and the last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

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



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

Installation for residential indoor units only



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

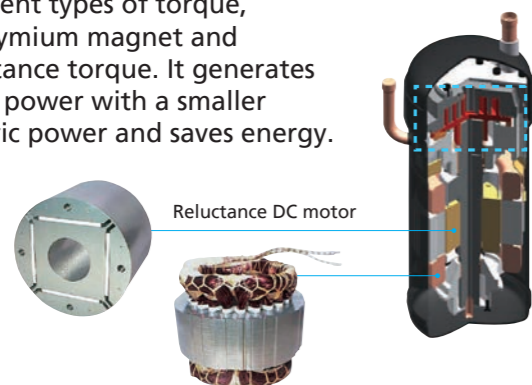
		Actual piping length	Example	Equivalent Example piping length
Max. allowable piping length	Refrigerant piping length	100 m	a+b+k	120 m
	Total piping length	200 m	a+b+e+h+j+k	—
	Between the first indoor branch and the farthest indoor unit	50 m*1	b+k	—
Max. and min. allowable piping length	Between BP unit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

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

# Advanced Technologies

## High efficiency compressor to achieve a high performance

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

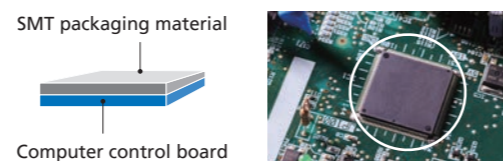


## SMT\* packaging technology

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

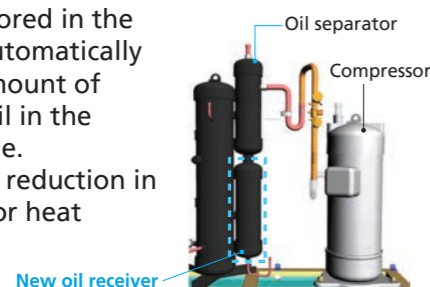
\*SMT: Surface mounted technology

Computer control board surface adopting SMT packaging technology



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

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



## Function of information display by luminous digital tube

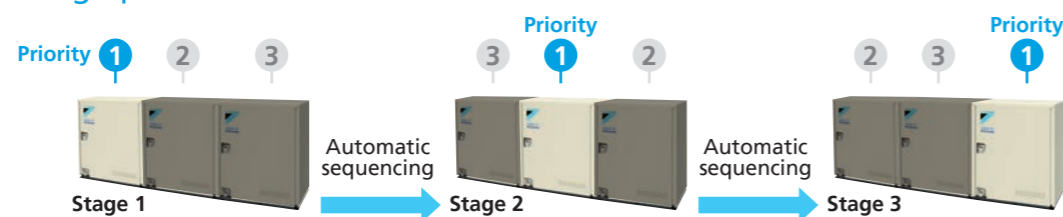
VRV IV W series utilizes a bright 7-segment digital display to convey operational status and facilitate simple installation and after-sales service.

7-segment digital display

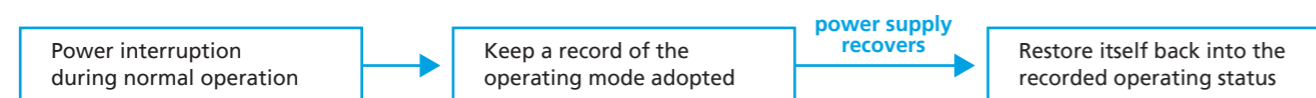


Displays system operation information directly

## Automatic sequencing operation



## Auto-restart technology



## Refrigerant pressure detection technology

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

# Outside Unit Lineup

## VRV IV W Series

### Lineup

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

### Outside unit combinations

For connection of only VRV indoor units

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

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

For connection of only residential indoor units

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

\*1. Only single outside unit (RWEYQ6-12T) can be connected.  
\*2. Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outside unit.



# Indoor Unit Lineup

## Enhanced range of choices

### VRV indoor units

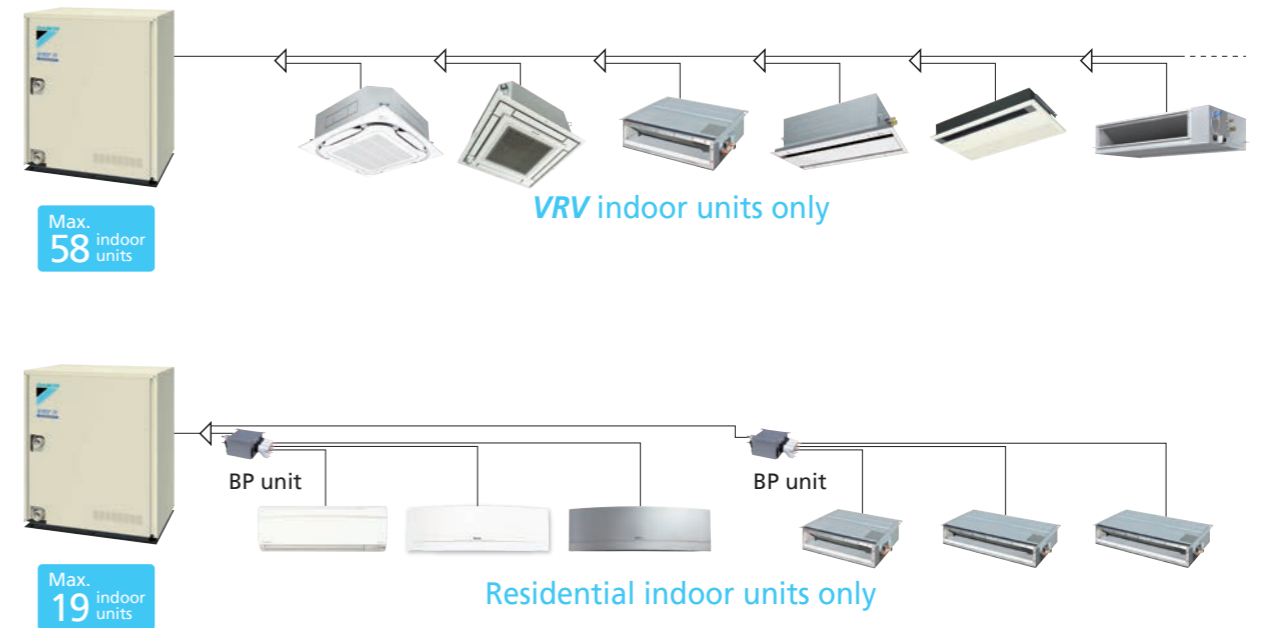
● New lineup

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	FXFSQ-AV4		●	●	●	●	●	●	●	●	●	●	●					
	Round Flow Cassette	FXFQ-AV4		●	●	●	●	●	●	●	●	●	●	●					
	Compact Multi Flow Cassette	<span style="color: red;">New</span> FXZQ-AVM4		●	●	●	●	●	●	●	●	●	●	●					
	Double Flow Cassette	FXCQ-AVM4		●	●	●	●	●	●	●	●	●	●	●	●				
	Corner Cassette	FXKQ-MAVE4		●	●	●	●	●	●	●	●	●	●	●					
Ceiling Concealed Duct	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														●	●	●	
	Ceiling Suspended	Ceiling Suspended	FXHQ-MAV7				●			●			●						
Ceiling Suspended		FXHQ-AVM4													●	●			
Wall Mounted	Wall Mounted	FXAQ-AVM4		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Floor Standing	Floor Standing	FXLQ-MAVE4		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Concealed Floor Standing	FXNQ-MAVE4		●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Floor Standing Duct	FXVQ-NY14													●	●	●	●	
Heat Reclaim Ventilator with DX-Coil	<span style="color: red;">New</span> VKM-GCVE		Airflow rate 500-950 m³/h																
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h																
Air Handling Unit	AHUR			6-120 HP															

### Residential indoor units with connection to BP units

Type	Model Name	Rated Capacity (kW)	Capacity Index				
			25	35	50	60	71
			2.5	3.5	5.0	6.0	7.1
Slim Ceiling Concealed Duct	FDKS-EVMB4		●	●			
	FDKS-CVMB4		●	●	●	●	
Wall Mounted	FTKJ-NVM4W		●	●	●		
	FTKJ-NVM4S		●	●	●		
	FTKS-DVM4		●	●			
	FTKS-FVM4				●	●	●

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



\*Refer to page 94 for the maximum number of connectable indoor units.

# 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	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 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)		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)		φ 28.6 <sup>2</sup> (Brazeing)	
Water piping connections	Water inlet	PT1 1/4B intenal thread				(PT1 1/4B) x 2 intenal thread					
	Water outlet	PT1 1/4B intenal thread				(PT1 1/4B) x 2 intenal thread					
	Drain outlet	PS1/2B intenal thread				(PS1/2B) x 2 intenal 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		19-100		19-100	
Refrigerant	Type	R-410A				R-410A					
	Charge	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	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	4.7 x 3
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 intenal thread			(PT1 1/4B) x 3 intenal thread		
	Water outlet	(PT1 1/4B) x 3 intenal thread			(PT1 1/4B) x 3 intenal thread		
	Drain outlet	(PS1/2B) x 3 intenal thread			(PS1/2B) x 3 intenal 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	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, Level difference: 0 m.
  - Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.
- This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).
- Hold ambient temperature at 0 - 40°C and humidity at 80%RH or less. Heat rejection from the casing: 0.51 kW / 6 - 8 HP / hour, 0.58 kW / 10 - 12 HP / hour.
- Connectable to closed type cooling tower only.
  - \*1: In the case of cooling only system, suction gas pipe is not used.
  - \*2: In the case of cooling only system.

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

# VRV WS SERIES

Water Cooled System Suitable for Residential Houses

Cooling Only  
**4HP—6 HP**  
 (11.2 kW) (16 kW)



RWXQ4-6AXVE

## Easy Installation & Energy Saving

### ■ Compact and lightweight

Footprint : **0.35 m<sup>2</sup>**

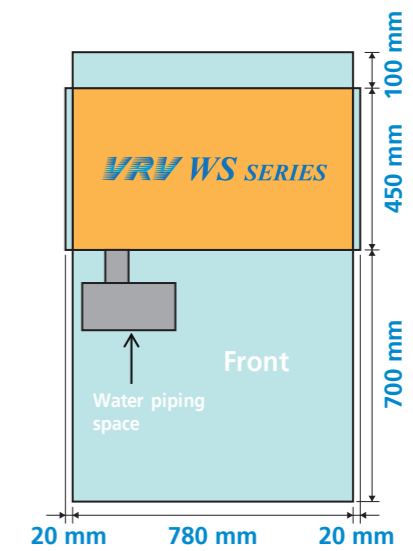
Product Weight : **110 kg**  
 (For 4/5 HP)

Product Weight : **111 kg**  
 (For 6 HP)



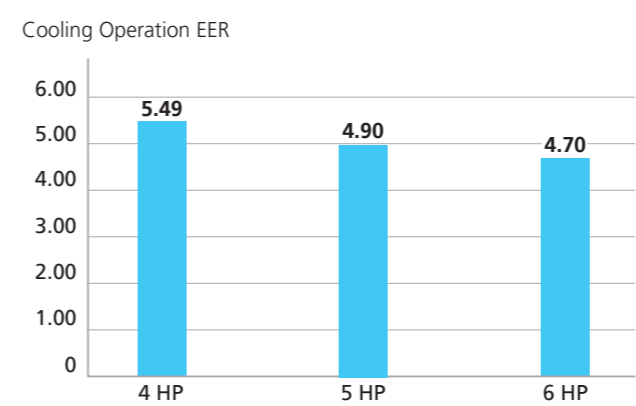
### ■ Service space (Single installation)

Service access from the front with minimal space required at rear of the condenser (100 mm)



### ■ Energy saving

#### Higher Energy Efficiency Ratio (EER)



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

#### VRT control for optimal annual efficiency

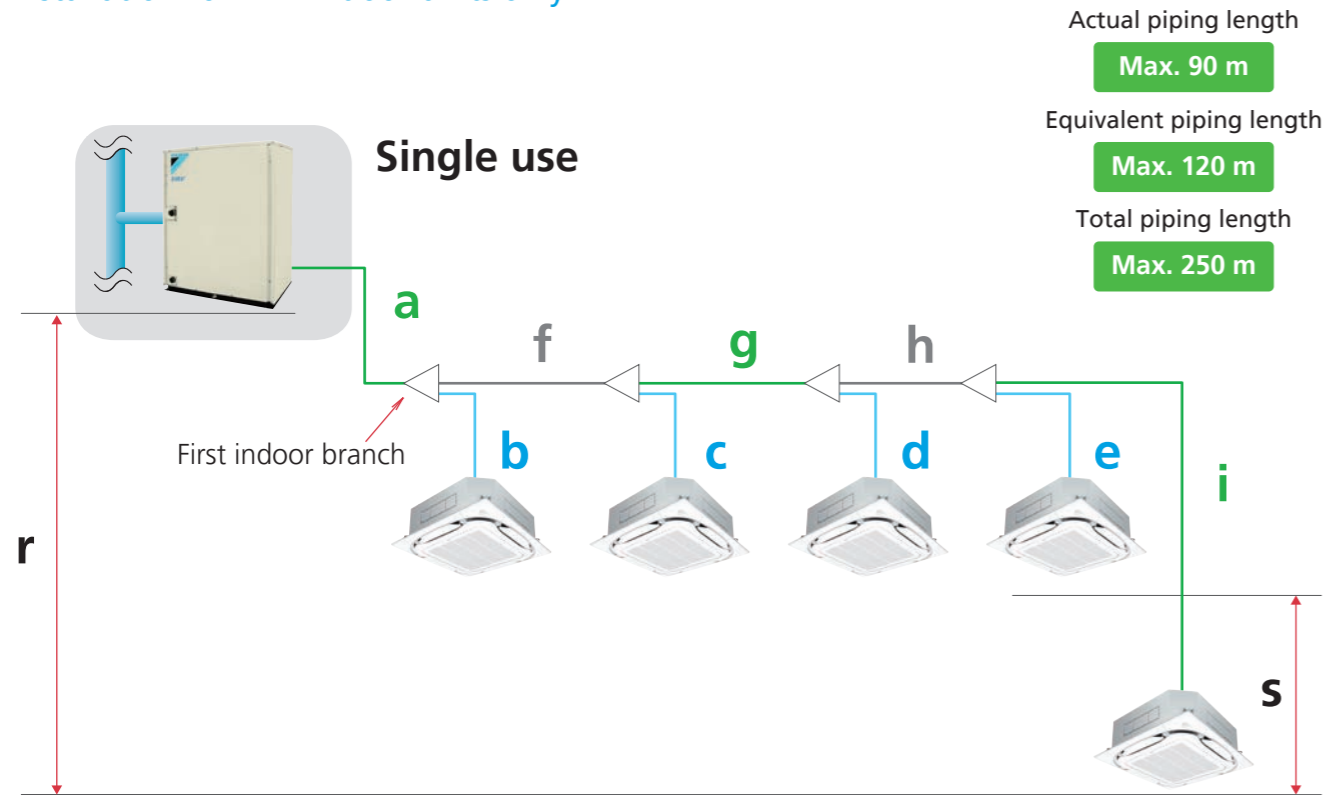
VRT automatically adjusts refrigerant temperature to individual building and climate requirement, thus further improving annual energy efficiency and maintaining comfort.



# Flexible System Design

## Long piping length

Installation for VRV indoor units only

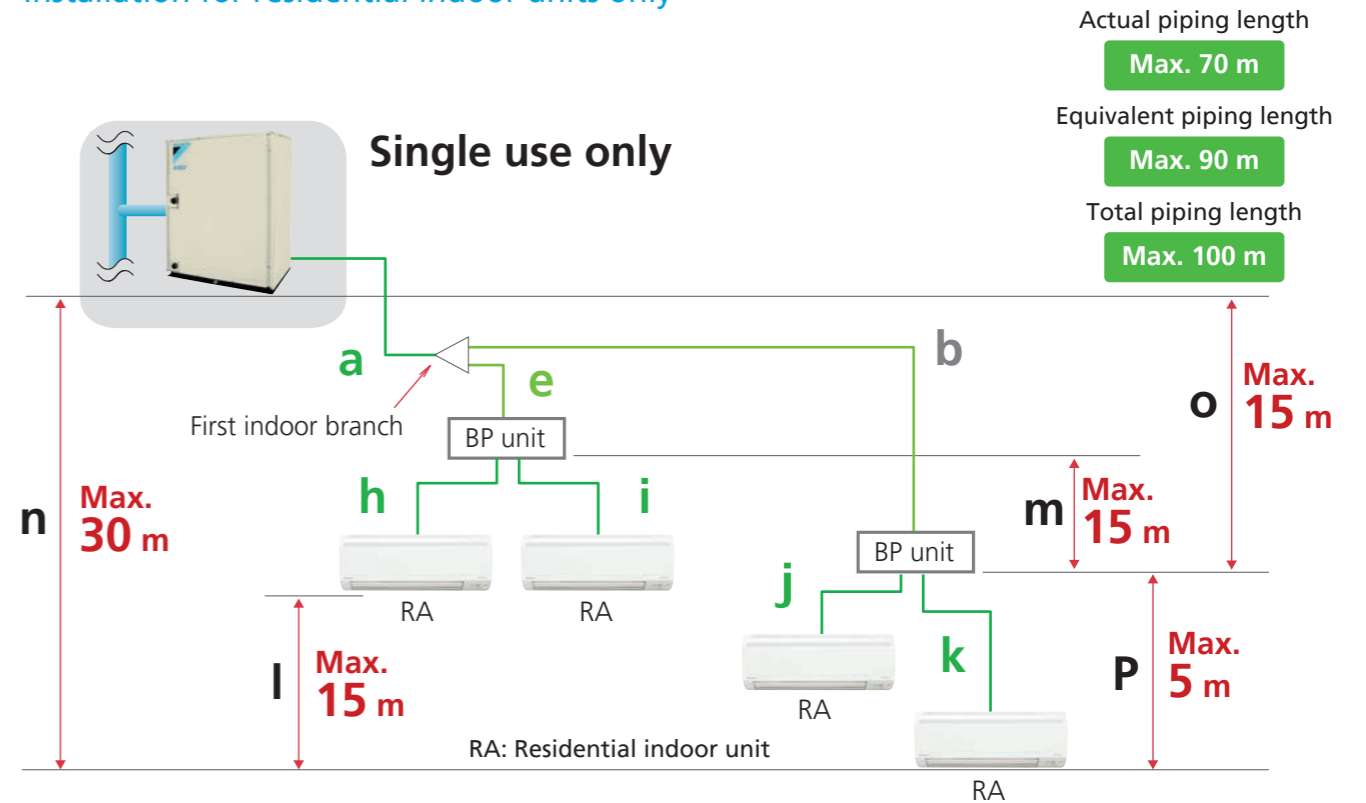


Actual piping length  
**Max. 90 m**  
 Equivalent piping length  
**Max. 120 m**  
 Total piping length  
**Max. 250 m**

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

		Actual piping length	Example	Equivalent piping length
Max. allowable piping length	Refrigerant piping length	90 m	a+f+g+h+i	120 m
	Total piping length	250 m	a+b+c+d+e+f+g+h+i	—
	Between the first indoor branch and the farthest indoor unit	40 m	f+g+h+i	—
Max. allowable level difference	Between the indoor units	15 m	s	—
	Between the outside units and the indoor units	30 m	r	—

Installation for residential indoor units only



Actual piping length  
**Max. 70 m**  
 Equivalent piping length  
**Max. 90 m**  
 Total piping length  
**Max. 100 m**

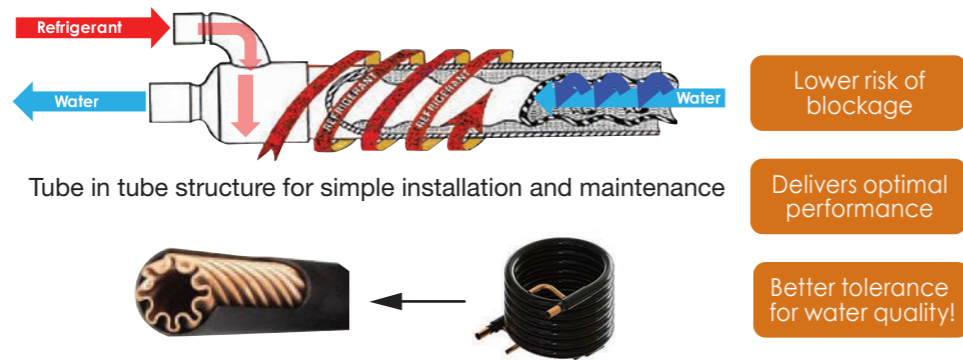
\*Colours in the diagram following are merely for identifying pipes referenced with symbols such as a.

			Actual piping length	Example	Equivalent Example piping length
Max. allowable piping length	Refrigerant piping length		70 m	a+b+k	90 m
	Total piping length		100 m	a+b+e+h+j+k	—
	Between the first indoor branch and the farthest indoor unit		40 m	b+k	—
Max. and min. allowable piping length	Between BP unit and indoor unit	If indoor unit capacity index < 60	2 m - 15 m	h,i,j,k	—
		If indoor unit capacity index is 60	2 m - 12 m	h,i,j,k	—
		If indoor unit capacity index is 71	2 m - 8 m	h,i,j,k	—
Max. allowable level difference	Between the outside unit and the indoor unit	If the outside unit is above.	30 m	n	—
	Between the indoor units		15 m	l	—
	Between the outside unit and the BP unit		15 m	o	—
	Between BP units		15 m	m	—
	Between the BP unit and the indoor unit		5 m	p	—

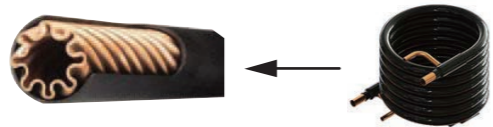
# Advanced Technologies

## ■ Tube-in-Tube Type Heat Exchanger

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

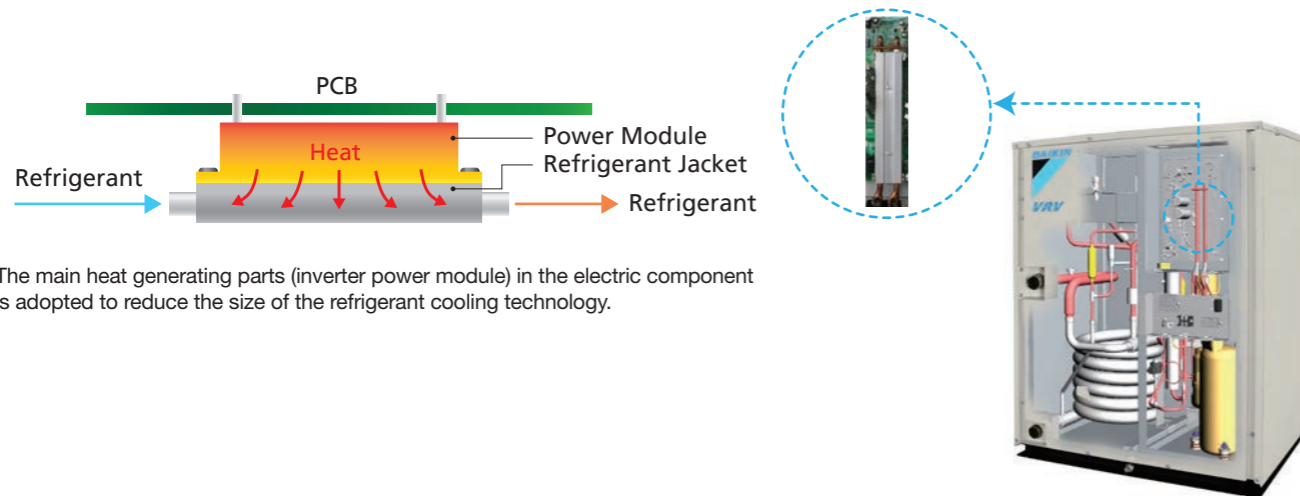


Tube in tube structure for simple installation and maintenance



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

## ■ Refrigerant cooling technology



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

Control board failure ratio at stable operation is reduced.

This enables

- Suitability for high ambient temperatures
- Miniaturization of electronic components

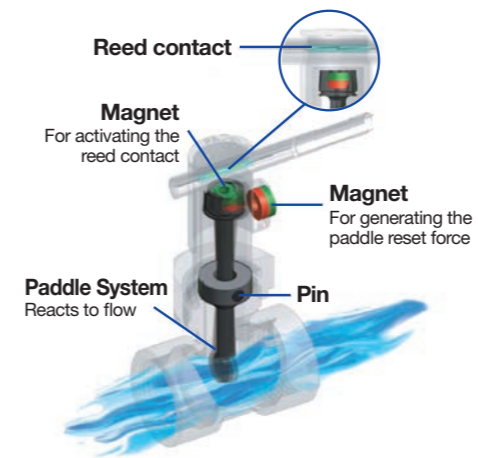
## ■ Easy maintenance

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



## ■ Built in water flow switch

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



## ■ Standard water strainer

A standard water strainer is equipped so it reduces the additional cost and installation time at field. The new filter also has less pressure drop at higher water flows.

\* Refer to page 108 for water strainer specification details.



# Indoor Unit Lineup

## Enhanced range of choices

### VRV indoor units

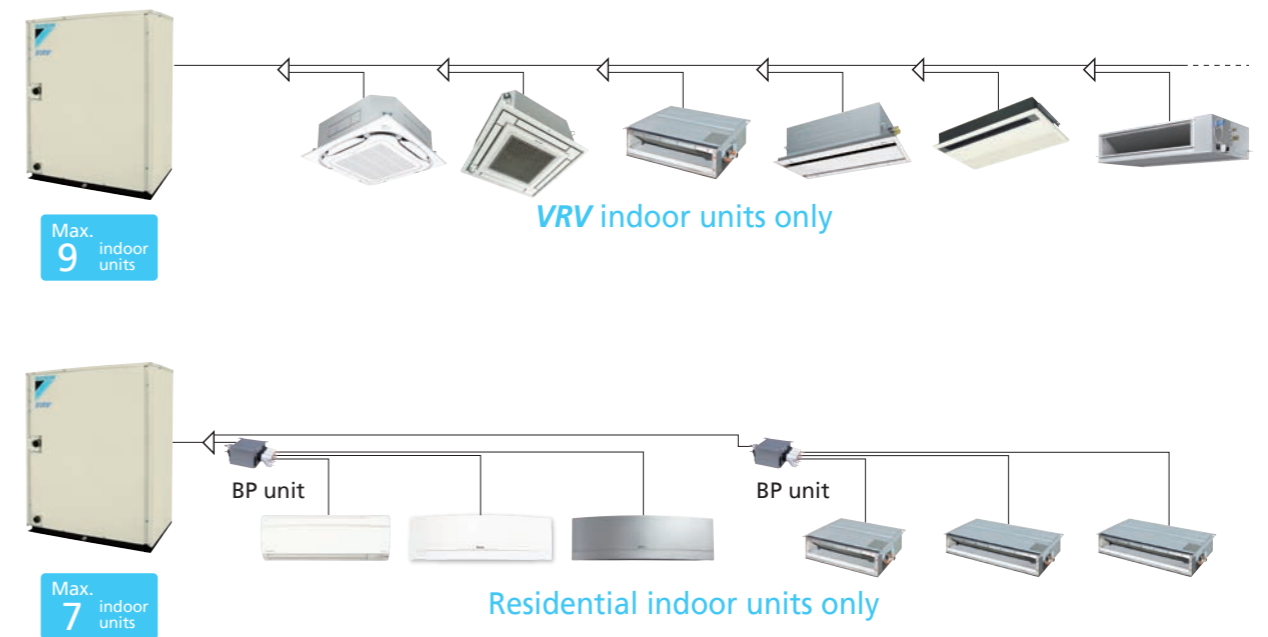
● New lineup

Category	Type	Model Name	Capacity Range	20	25	32	40	50	63	80	100	125	140
				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
				Capacity Index	20	25	31.25	40	50	62.5	80	100	125
Ceiling Mounted Cassette	Round Flow Cassette with Sensing	FXFSQ-AV4			●	●	●	●	●	●	●	●	●
	Round Flow Cassette	FXFQ-AV4			●	●	●	●	●	●	●	●	●
	Compact Multi Flow Cassette	<span style="color: red;">New</span> FXZQ-AVM4		●	●	●	●	●					
	Double Flow Cassette	FXCQ-AVM4		●	●	●	●	●	●		●		
	Corner Cassette	FXKQ-MAVE4			●	●	●		●				
Ceiling Concealed Duct	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		●	●	●	●	●	●	●	●	●	●	
Ceiling Suspended	Ceiling Suspended	FXHQ-MAV7				●					●		
		FXHQ-AVM4										●	●
Wall Mounted	FXAQ-AVM4		●	●	●	●	●	●					
Floor Standing	Floor Standing	FXLQ-MAVE4		●	●	●	●	●	●				
	Concealed Floor Standing	FXNQ-MAVE4		●	●	●	●	●	●				
	Floor Standing Duct	FXVQ-NY14										●	

### Residential indoor units with connection to BP units

Type	Model Name	Rated Capacity (kW)	25	35	50	60	71
			2.5	3.5	5.0	6.0	7.1
			Capacity Index	25	35	50	60
Slim Ceiling Concealed Duct	FDKS-EVMB4		●	●			
	FDKS-CVMB4		●	●	●	●	
Wall Mounted	FTKJ-NVM4W		●	●	●		
	FTKJ-NVM4S		●	●	●		
	FTKS-DVM4		●	●			
	FTKS-FVM4				●	●	●

Note: BP units are necessary for residential indoor units.




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

# Outside Units

## VRV WS Series

### Specifications

				
<b>MODEL</b>		<b>RWXQ4AXVE</b>	<b>RWXQ5AXVE</b>	<b>RWXQ6AXVE</b>
Power supply		1-Phase, 220-240 V/220 V,50/60 Hz		
Cooling capacity	Btu/h	38,200	47,800	54,600
	kW	11.2	14.0	16.0
Power consumption	kW	2.04	2.86	3.40
Casing colour		Ivory white (5Y7.5/1)		
Dimensions (HxWxD)	mm	1,000x780x450		
Compressor	Type	Hermetically sealed swing type		
	Motor output	kW	1.92	
Refrigerant piping connections	Liquid	φ9.5 (Flare)		
	Suction gas	φ15.9 (Flare)		
Water piping connections	Water inlet	PT1B internal thread		PT1 1/4B external thread
	Water outlet	PT1B internal thread		PT1 1/4B external thread
	Drain outlet	PS1/2B internal thread		
Machine weight (Operating weight)	kg	110 (113.5)		111 (114.5)
Sound level	dB(A)	31	36	39
Operation range (Inlet water temp.)	°C	15 to 40 (Range for continuous operation)		
Capacity control	%	33-100		
Refrigerant	Type	R-410A		
	Charge	kg	2.4	2.7
Rated water flow (Range of water flow)	L/min	38 (19 to 57)	49 (24.5 to 73.5)	55 (27.5 to 82.5)

Note :1. Specifications are based on the following conditions ;  
 Cooling : Indoor temp. : 27°CDB, 19°CWB / inlet water temp. :30°C, Equivalent piping length : 7.5 m, Level difference : 0 m.  
 Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.  
 When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.  
 2. This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).  
 3. Hold ambient temperature at 0-40°C and humidity at 80% RH or less.  
 Heat rejection from the casing: 0.28 kW/4 HP /hour, 0.31 kW/5 HP /hour, 0.35 kW/6 HP /hour

### Outside Unit Combinations

Model name	kW	HP	Capacity index	Total capacity index of connectable indoor units			Maximum number of connectable indoor units
				Combination (%)			
				50%	100%	130%	
<b>RWXQ4A</b>	11.2	4	100	50	100	130	6
<b>RWXQ5A</b>	14.0	5	125	62.5	125	162.5	8
<b>RWXQ6A</b>	16.0	6	150	75	150	195	9

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

### Standard Water Strainer Specifications

	Specifications	
	4 HP, 5 HP	6 HP
Nominal diameter	DN25	DN32
Nominal pressure	1.6 MPa	1.6 MPa
Work temperature	-25°C - 70°C	-25°C - 150°C
Mesh size	0.12 mm	0.23 mm & 0.5 mm (dual layer mesh)



# 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**

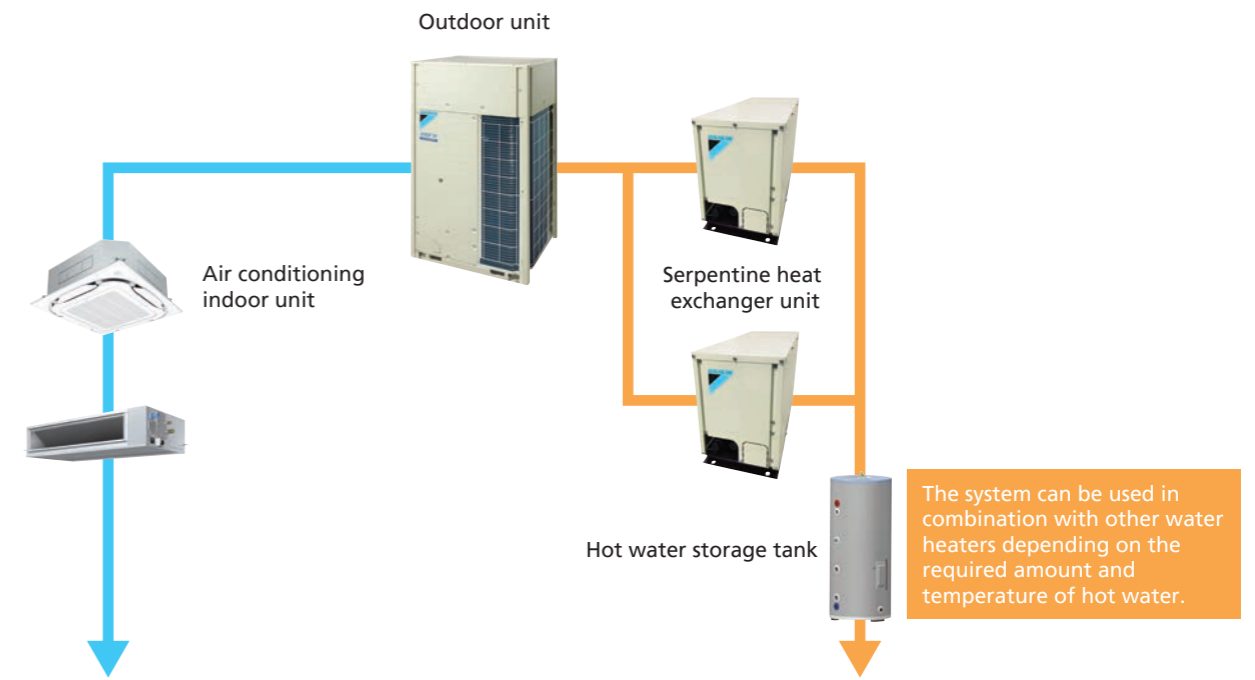
Single outdoor units  
**RWHQ18-20TY14**

Double outdoor units  
**RWHQ22-40TSY14**

Triple outdoor units  
**RWHQ42-50TSY14**



Air conditioning combined with hot water supply – Compact system



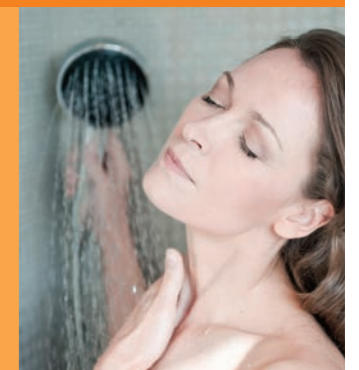
Flexible combination of VRV IV indoor units achieves comfort and aesthetic

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.

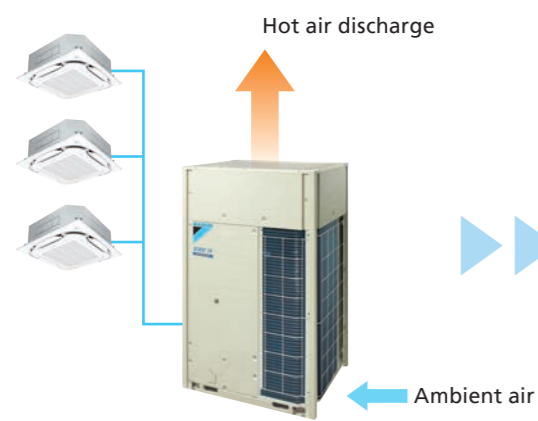


# Innovative and Reliable System

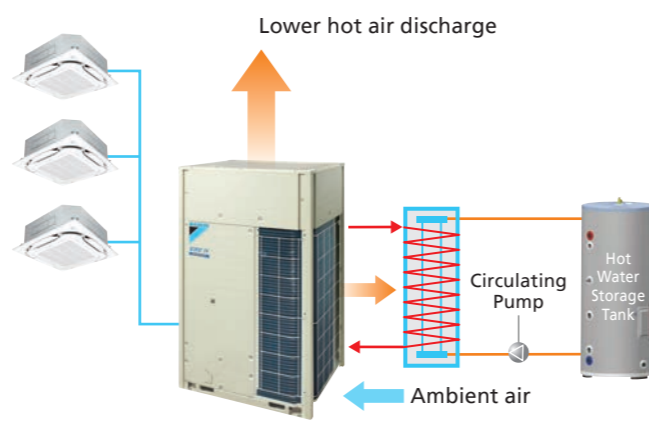
The energy-efficient system recovers waste heat as energy to heat water

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

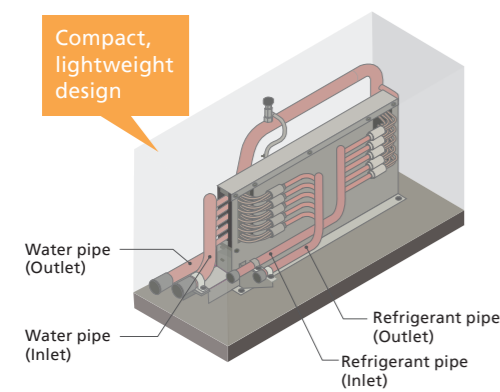
In a conventional system, waste heat from air conditioning is released into the ambience.



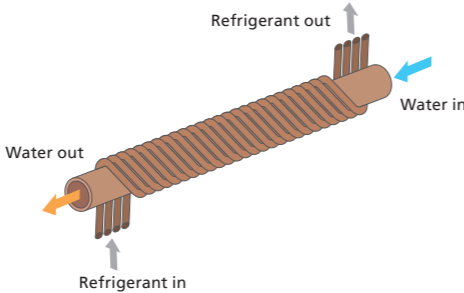
This system recovers waste heat from air conditioning to heat water.



## 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.



## Increased energy efficiency of the outdoor unit

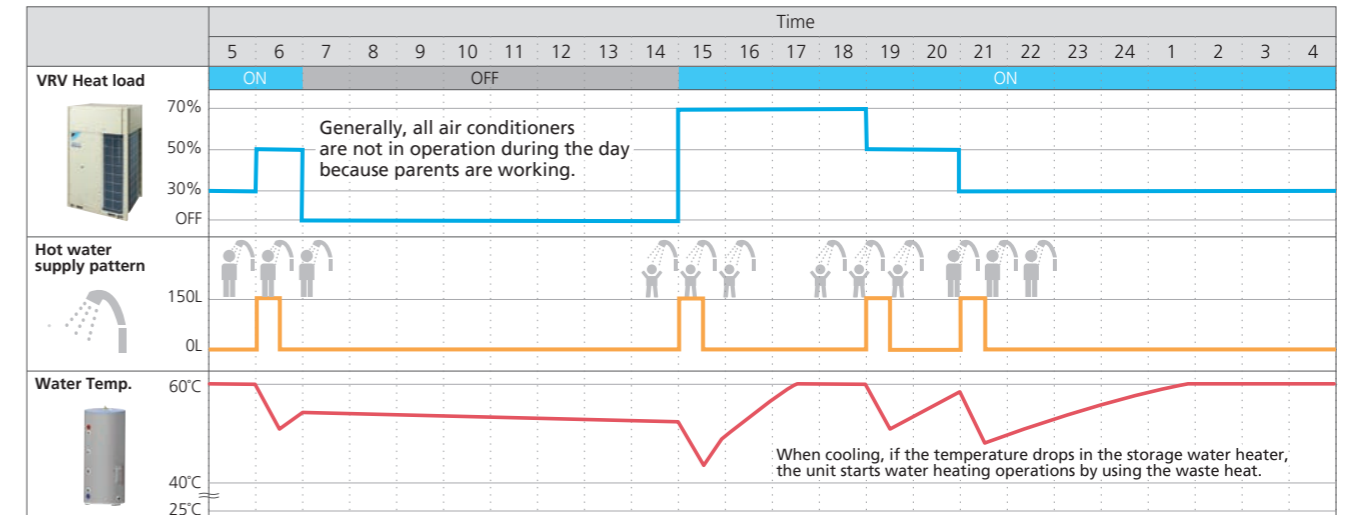
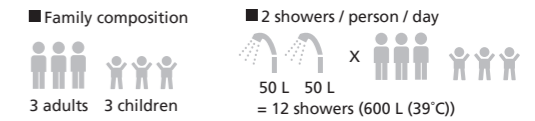
The waste heat from air conditioning is transferred to heat water. This mechanism reduces the amount of heat processed by the outdoor unit, resulting in better operation efficiency. The EER for VRV IV Heat Recovery Hot Water has increased from 4.41 to 4.50, compared with the conventional VRV IV.

## 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

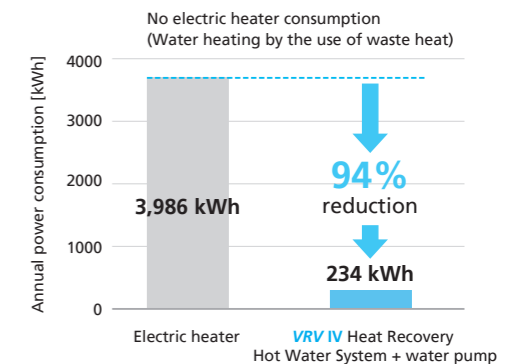
In a sample family model of 3 adults and 3 children, the waste heat generated by air conditioning is sufficient to supply hot water for everybody's showers.



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

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

### VRV indoor units

● New lineup

Category	Type	Model Name	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		
				20	25	31.25	40	50	62.5	80	100	125	140	200	250	400	500		
Ceiling Mounted Cassette	Round Flow Cassette with Sensing	FXFSQ-AV4			●	●	●	●	●	●	●	●							
	Round Flow Cassette	FXFQ-AV4			●	●	●	●	●	●	●	●							
	Compact Multi Flow Cassette	<span style="color: red;">●</span> FXZQ-AVM4		●	●	●	●	●											
	Double Flow Cassette	FXCQ-AVM4		●	●	●	●	●	●	●	●	●							
	Corner Cassette	FXKQ-MAVE4			●	●	●	●	●	●	●	●							
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE4 (with drain pump)		●	●	●													
		FXDQ-PDVT4 (without drain pump)		●	●	●													
		FXDQ-NDVE4 (with drain pump)					●	●	●										
		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											●	●	●				
	Ceiling Suspended	Ceiling Suspended	FXHQ-MAV7				●			●		●							
FXHQ-AVM4												●	●						
Wall Mounted	FXAQ-AVM4		●	●	●	●	●	●	●	●	●								
Floor Standing	Floor Standing	FXLQ-MAVE4		●	●	●	●	●	●	●	●	●							
	Concealed Floor Standing	FXNQ-MAVE4		●	●	●	●	●	●	●	●	●							
	Floor Standing Duct	FXVQ-NY14											●	●	●	●	●		
Clean Room Air Conditioner	Clean Room Air Conditioner	FXBQ-PVE4					●	●	●										
		FXBPQ-PVE4							●										
Heat Reclaim Ventilator with DX-Coil	<span style="color: red;">●</span> VKM-GCVE																		
Heat Reclaim Ventilator	VAM-GJVE																		
Air Handling Unit	AHUR																		

### Residential indoor units with connection to BP units

Type	Model Name	Rated Capacity (kW)	Capacity Index				
			25	35	50	60	71
			2.5	3.5	5.0	6.0	7.1
Slim Ceiling Concealed Duct	FDKS-EVMB4		●	●			
	FDKS-CVMB4		●	●	●	●	
Wall Mounted	FTKJ-NVM4W		●	●	●		
	FTKJ-NVM4S		●	●	●		
	FTKS-DVM4		●	●			
	FTKS-FVM4				●	●	●



Note: BP units (BPMKS967A2/3) are necessary for residential indoor units.

# 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 kW	(2.4x1)+(2.4x1)	(2.4x1)+(3.4x1)	(3.4x1)+(3.4x1)	(2.4x1)+(2.4x1)+(2.4x1)	(2.4x1)+(2.4x1)+(3.4x1)	(2.4x1)+(3.4x1)+(3.4x1)	(3.4x1)+(3.4x1)+(3.4x1)	(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						
Sound level	dB(A)	58	59				60				61	62				63				
Operation range	°CDB	15 to 49								15 to 49										
Refrigerant	Type	R-410A								R-410A										
	Charge kg	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		
Piping connections (Indoor unit)	Liquid mm	φ 12.7(Brazing)				φ 15.9(Brazing)				φ 19.1(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 3)				φ 19.1(Brazing x 3)				φ 19.1(Brazing x 3)						
	Outlet pipe mm	φ 19.1(Brazing x 2)				φ 19.1(Brazing x 3)				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 kW	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)	(2.9x1)+(3.3x1)+(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)	(2.9x1)+(3.3x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)	(3.6x1)+(3.7x1)+(3.6x1)+(3.7x1)+(4.4x1)+(4.0x1)
Airflow rate	m³/min	233+233+233				
Dimensions (HxWxD)	mm	(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)				
Machine weight	kg	285+285+285				
Sound level	dB(A)	65				66
Operation range	°CDB	15 to 49				
Refrigerant	Type	R-410A				
	Charge kg	10.3+10.3+10.3	10.3+10.3+10.4	10.3+10.4+10.4	10.4+10.4+10.4	10.4+10.4+10.5
Piping connections (Indoor unit)	Liquid mm	φ 19.1(Brazing)				
	Gas mm	φ 41.3(Brazing)				
Piping connections (Heat exchanger unit)	Inlet pipe mm	φ 19.1(Brazing x 3)				
	Outlet pipe mm	φ 19.1(Brazing x 3)				

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 kW	2.4x1	3.4x1	4.1x1	5.2x1	(2.9x1)+(3.3x1)	(3.6x1)+(3.7x1)
Airflow rate	m³/min	119	157	165	178	233	
Dimensions (HxWxD)	mm	1,657x930x765					
Machine weight	kg	185			200		
Sound level	dB(A)	55	56	57	59	60	61
Operation range	°CDB	15 to 49					
Refrigerant	Type	R-410A					
	Charge kg	6.4		6.5	6.8	10.3	10.4
Piping connections (Indoor unit)	Liquid mm	φ 9.5(Brazing)					
	Gas mm	φ 19.1(Brazing)		φ 22.2(Brazing)		φ 28.6(Brazing)	
Piping connections (Heat exchanger unit)	Inlet pipe mm	φ 19.1(Brazing)					
	Outlet pipe mm	φ 19.1(Brazing)					

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, Level difference: 0 m.

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

# 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	RWHQ12TY14	RWHQ14TY14	RWHQ16TY14	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	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	(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)		(1,657x1,240x765)+(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		
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	φ 15.9(Brazing)							φ 19.1(Brazing)								
	Gas	φ 28.6(Brazing)				φ 34.9(Brazing)			φ 34.9(Brazing)			φ 19.1(Brazing)					φ 41.3(Brazing)
Piping connections (Heat exchanger unit)	Inlet pipe	φ 19.1(Brazing x 2)			φ 19.1(Brazing x 2)				φ 19.1(Brazing x 2)		φ 19.1(Brazing x 3)						
	Outlet pipe	φ 19.1(Brazing x 2)			φ 19.1(Brazing x 2)				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	(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)+(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
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)						

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, Level difference: 0 m.

#### 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)
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
Piping connections (Indoor unit)	Liquid	φ 15.9(Brazing)			
	Gas	φ 28.6(Brazing)			φ 34.9(Brazing)
Piping connections (Heat exchanger unit)	Inlet pipe	φ 19.1(Brazing)		φ 19.1(Brazing x 2)	
	Outlet pipe	φ 19.1(Brazing)		φ 19.1(Brazing x 2)	

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

# Outdoor Units

## VRV IV Heat Recovery Hot Water System

### Specifications

#### Space Saving Type

MODEL		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, Level difference: 0 m.  
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

# Outdoor Units

## VRV IV Heat Recovery Hot Water System

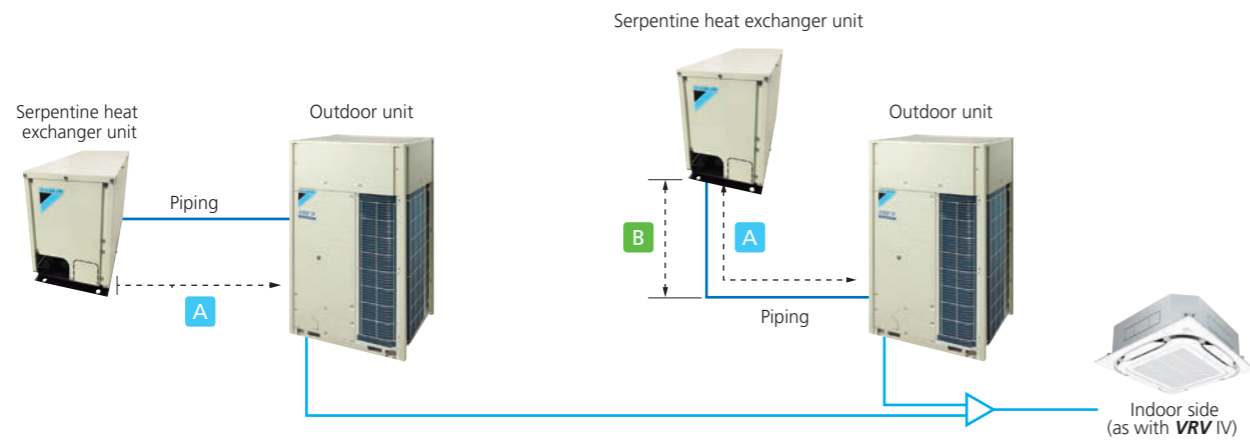
### Serpentine heat exchanger unit (HWHQ30A)



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.

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



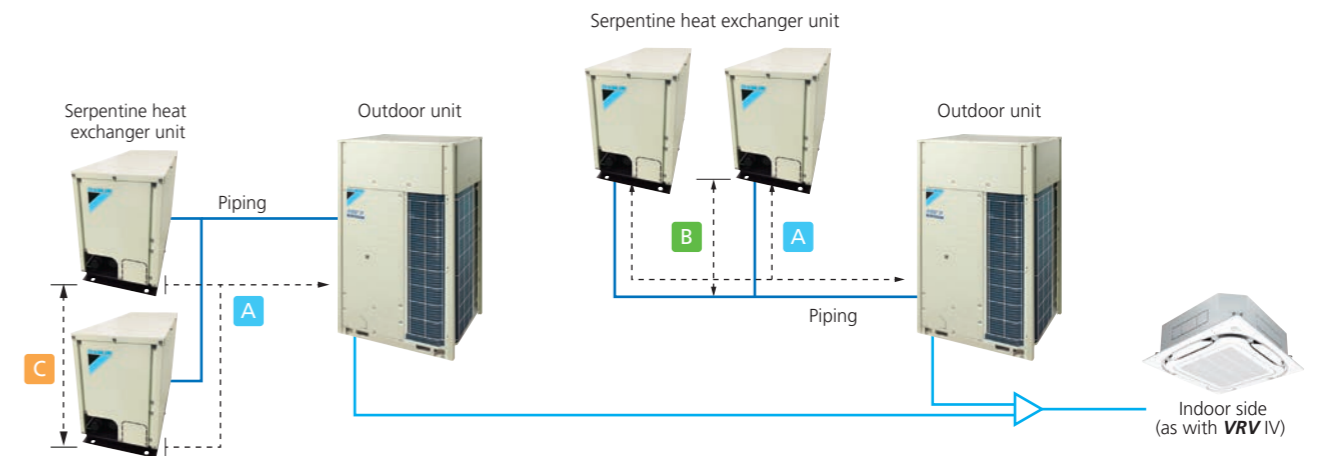
Max. allowable piping length	<b>A</b> Between outdoor unit and heat exchanger unit length	5 m
Max. allowable level difference	<b>B</b> Between outdoor unit and heat exchanger unit level	3 m



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










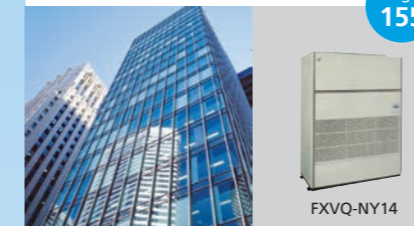






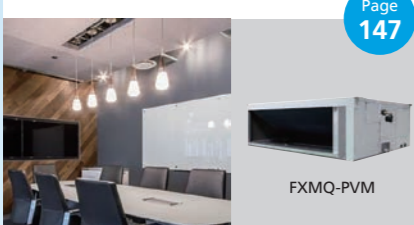
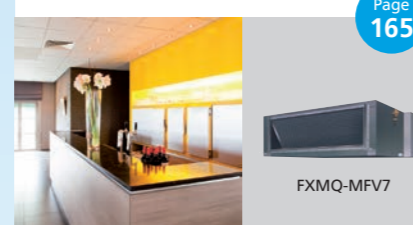







Max. allowable piping length	<b>A</b> Between outdoor unit and heat exchanger unit length	5 m
Max. allowable level difference	<b>B</b> Between outdoor unit and heat exchanger unit level	3 m
Max. allowable level difference	<b>C</b> Between heat exchanger units	3 m

# INDOOR UNIT LINEUP

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

## VRV indoor units

<p><b>Round Flow Cassette with Sensing Type</b> Comfort and energy savings by sensing functions</p> <p>Page 125</p>  <p>FXFSQ-AV4</p>	<p><b>Round Flow Cassette Type</b> 360° airflow for improved comfort</p> <p>Page 131</p>  <p>FXFQ-AV4</p>	<p><b>Compact Multi Flow Cassette Type</b> Quiet, compact, and designed for user comfort</p> <p>Page 135</p>  <p>FXZQ-AVM4</p>	<p><b>Wall Mounted Type</b> Stylish flat panel design harmonised with your interior décor.</p> <p>Page 151</p>  <p>FXAQ-AVM4</p>	<p><b>Floor Standing Type</b> Suitable for perimeter zone air conditioning</p> <p>Page 153</p>  <p>FXLQ-MAVE4</p>	<p><b>Concealed Floor Standing Type</b> Suitable for perimeter zone air conditioning</p> <p>Page 154</p>  <p>FXNQ-MAVE4</p>
<p><b>Double Flow Cassette Type</b> Thin, lightweight, and easy to install in narrow ceiling spaces</p> <p>Page 137</p>  <p>FXCQ-AVM4</p>	<p><b>Corner Cassette Type</b> Slim design for flexible installation</p> <p>Page 139</p>  <p>FXKQ-MAVE4</p>	<p><b>Slim Duct (Standard) Type</b> Slim design, quietness and ideal for drop-ceilings</p> <p>Page 141</p>  <p>FXDQ-PDVE(T)4 FXDQ-NDVE(T)4</p>	<p><b>Floor Standing Duct Type</b> Large airflow type for large spaces.</p> <p>Page 155</p>  <p>FXVQ-NY14</p>	<p><b>Clean Room Air Conditioner</b> Suitable for hospitals and other clean spaces</p> <p>Page 157</p>  <p>FXBQ-PVE4 FXBPQ-PVE4</p>	<p><b>Air Handling Unit</b> Integrate your air handling unit in a total solution for large size spaces such as factories and large stores.</p> <p>Page 163</p>  <p>AHUR</p>
<p><b>Slim Duct (Compact) Type</b> Slim and compact design for easy and flexible installation</p> <p>Page 142</p>  <p>FXDQ-SPV14</p>	<p><b>Middle Static Pressure Duct Type</b> Middle static pressure and slim design allow flexible installations.</p> <p>Page 143</p>  <p>FXSQ-PAV4</p>	<p><b>Middle-High Static Pressure Duct Type</b> Middle and high static pressure allows for flexible duct design.</p> <p>Page 145</p>  <p>FXMQ-PAV4</p>	<p><b>Residential indoor units with connection to BP units</b></p>		<p><b>Slim Ceiling Concealed Duct Type</b> Slim and smooth design suits your shallow ceiling</p> <p>Page 159</p>  <p>FDKS-EVMB4 FDKS-CVMB4</p>
<p><b>High Static Pressure Duct Type</b> High static pressure allows for flexible duct design.</p> <p>Page 147</p>  <p>FXMQ-PVM</p>	<p><b>Outdoor-Air Processing Unit</b> Combine fresh air treatment and air conditioning, supplied from a single system.</p> <p>Page 165</p>  <p>FXMQ-MFV7</p>	<p><b>Ceiling Suspended Type</b> Slim body with quiet and wide airflow.</p> <p>Page 149</p>  <p>FXHQ-MAV7 FXHQ-AVM4</p>	<p><b>Wall Mounted Type</b> Elegant appearance with European style</p> <p>Page 160</p>  <p>FTKJ-NVM4S FTKJ-NVM4W</p>	<p><b>Wall Mounted Type</b> Stylish flat panel harmonises with your interior décor</p> <p>Page 161</p>  <p>FTKS-DVM4 FTKS-FVM4</p>	<p><b>Air treatment equipment</b></p> <p><b>Heat Reclaim Ventilator with DX-Coil</b> Page 169</p>  <p>VKM-GCVE</p> <p><b>Heat Reclaim Ventilator</b> Page 173</p>  <p>VAM-GJVE</p>

# Round Flow Cassette with Sensing Type

FXFSQ-A

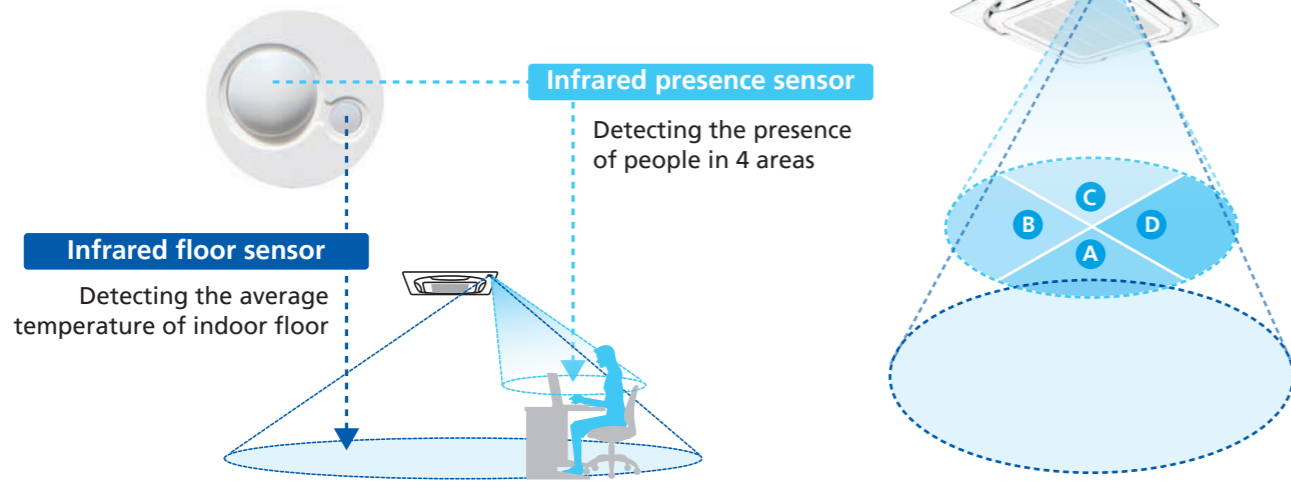
Comfort and energy saving by sensing functions



## Daikin advanced sensing technology dual sensors

Round flow with sensing

Comfort and energy saving by sensing functions

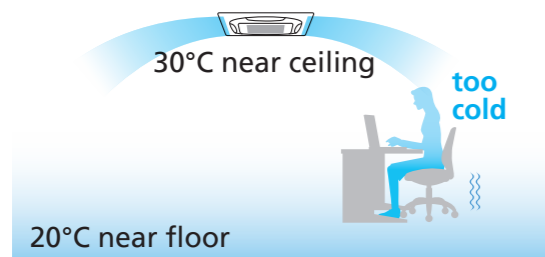


## Comfort and energy saving preventing over cooling

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

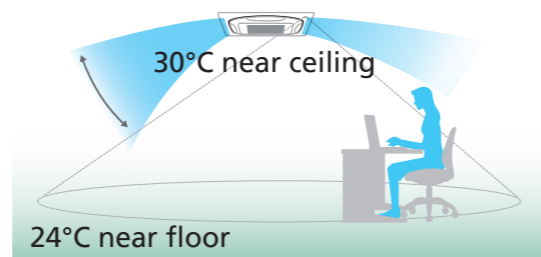
Without sensing function

Cooling



Even when room temperature is detected at 30°C, the floor temperature may be as low as 20°C, causing the feet area to be cold.

With sensing function



To prevent an excessive drop in temperature, room temperature is calculated at 27°C when people are in the vicinity.

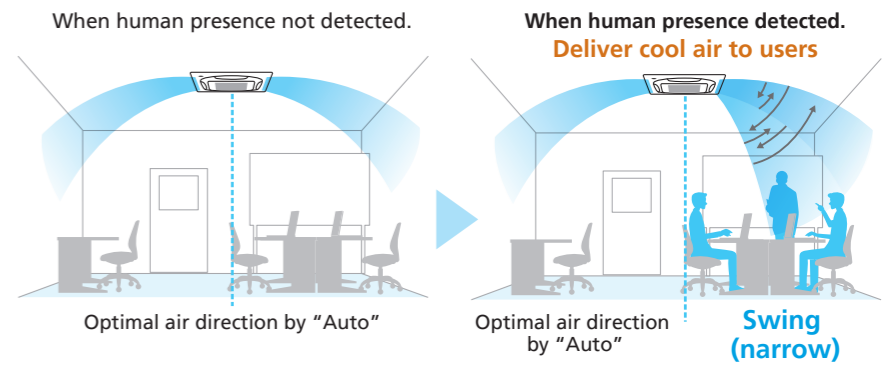
## Auto airflow function

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

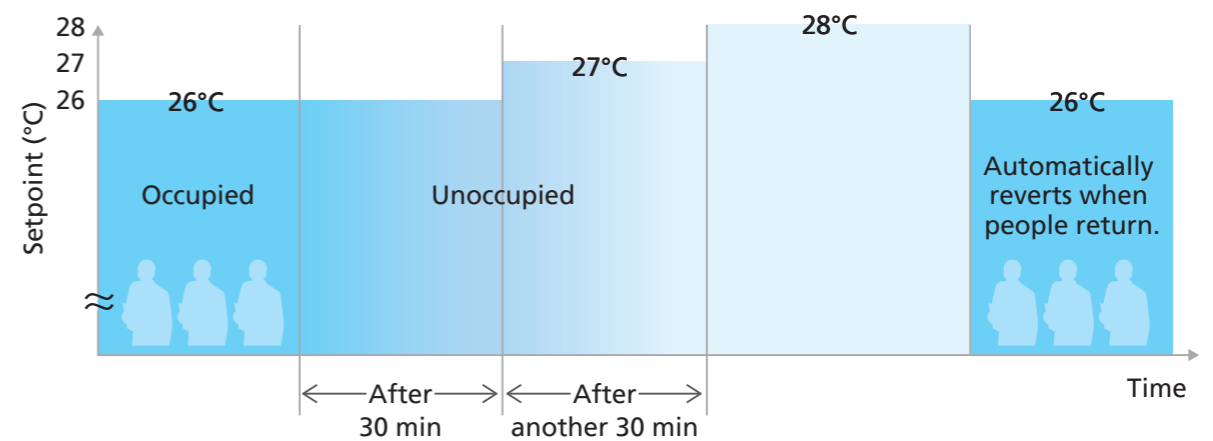
Energy saving

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

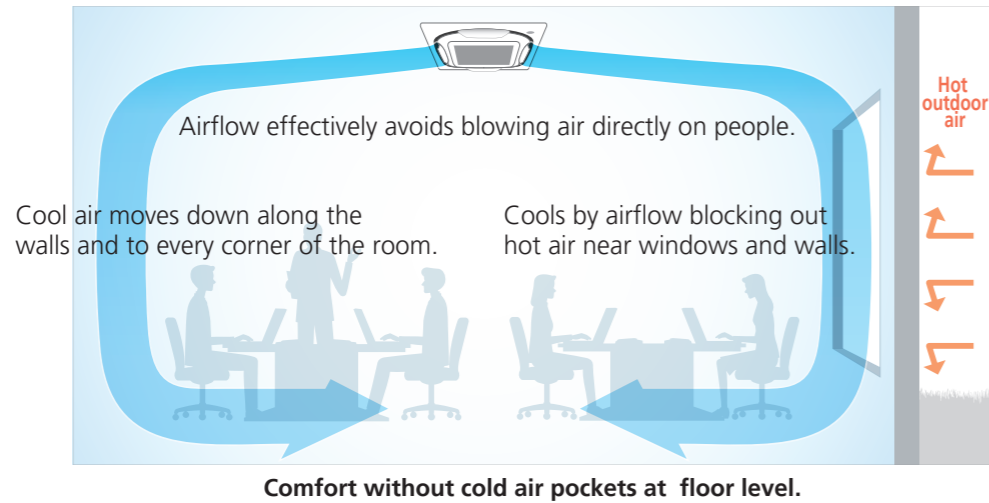
## Circulation airflow\*

### Configurations of circulation airflow

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

Cooling

During 2-way horizontal flow

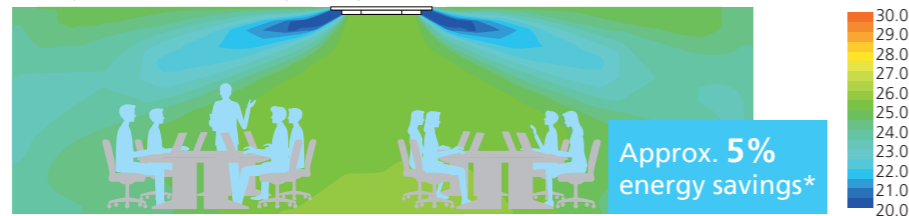


**Comparison Conditions**  
 Room size: Width 7.5m x depth 7.5m x height 2.6m  
 Indoor unit capacity: 71 class  
 Outdoor air temperature: 35°C  
 Airflow rate and air direction: high / swing

4-way cassette (Swing)

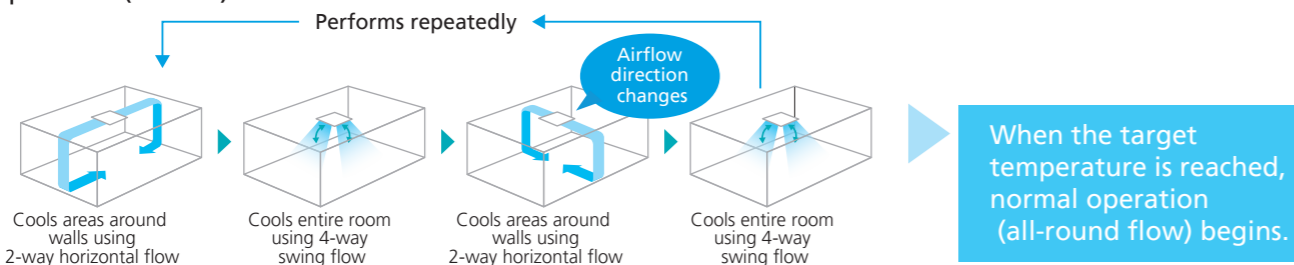


Circulation Airflow  
 (2-way horizontal + 4-way swing)



\* 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 is used.

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

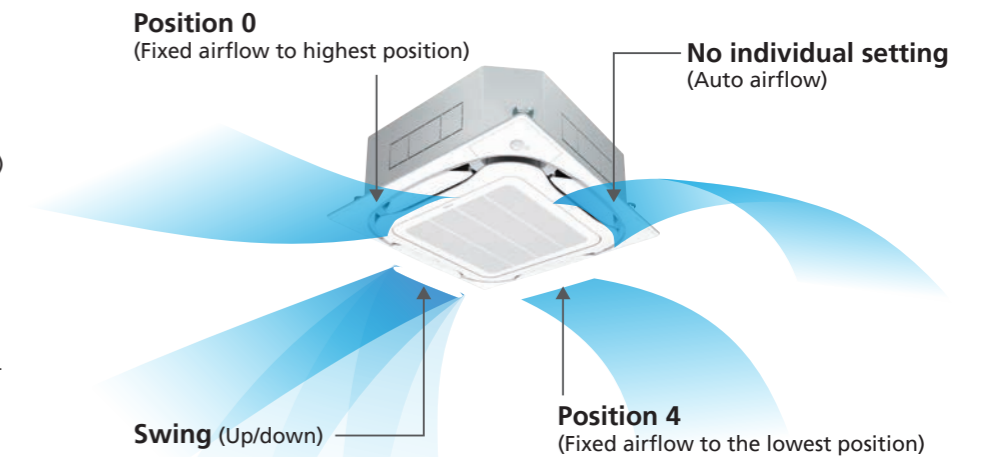
Easy setting is possible with a wired remote controller

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

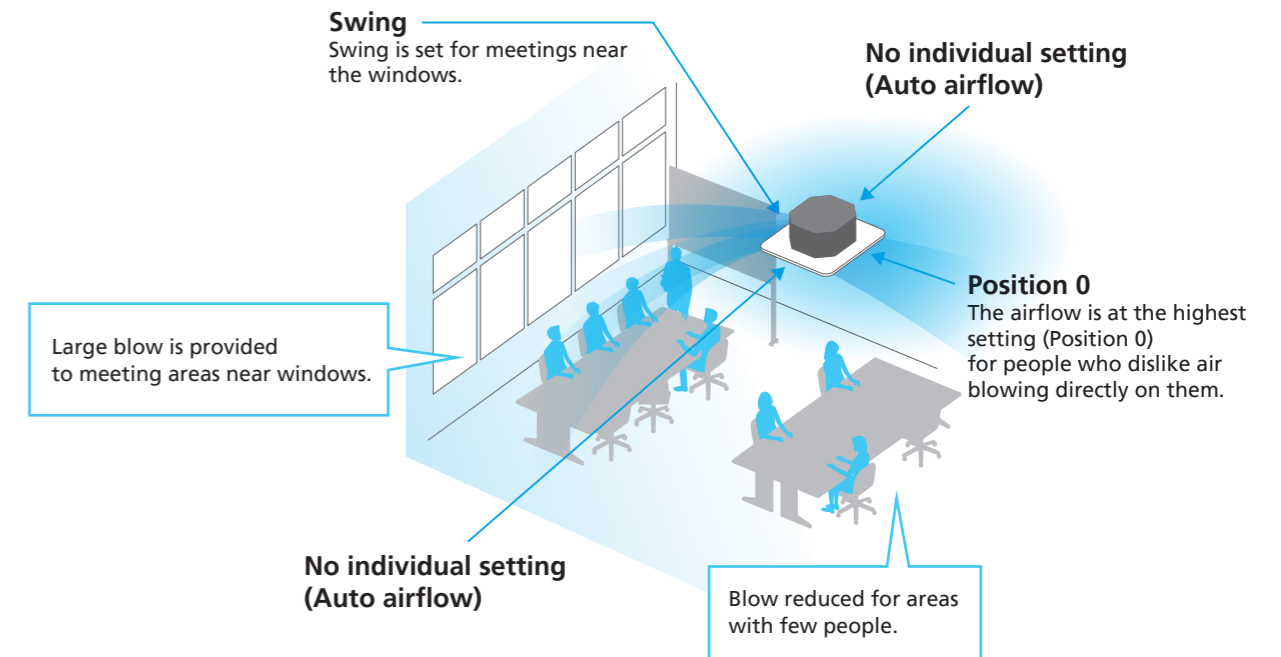
#### Individual airflow settings

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

Individual settings are possible as stated above.



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



# Round Flow Cassette with Sensing Type

## Other functions

### Comfort

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

**All-round flow**

(E.g., installed in middle of ceiling)  
4-way flow also possible.

**3-way flow**

(E.g., installed near a wall)

**L-shaped 2-way flow**

(E.g., installed in a corner)

**Opposite 2-way flow**

(E.g., installed in a long room)

### Suitable for high ceilings

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

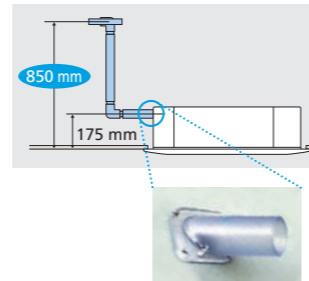
### Quick and easy installation

#### 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

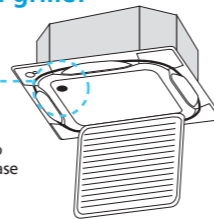
#### Drain pan and drain water check

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

### 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, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

### 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
Dual sensors *1	○	—
Direct airflow *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	○	○
Swing pattern selection	○	○
High ceiling application	○	—

\*1. Applicable when sensing panel is installed.

# Round Flow Cassette Type

FXFQ-A

360° airflow for improved comfort

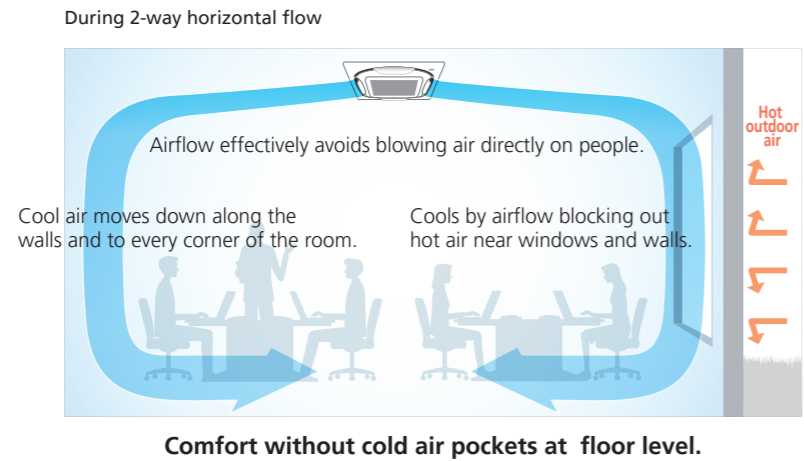


## Circulation airflow\*

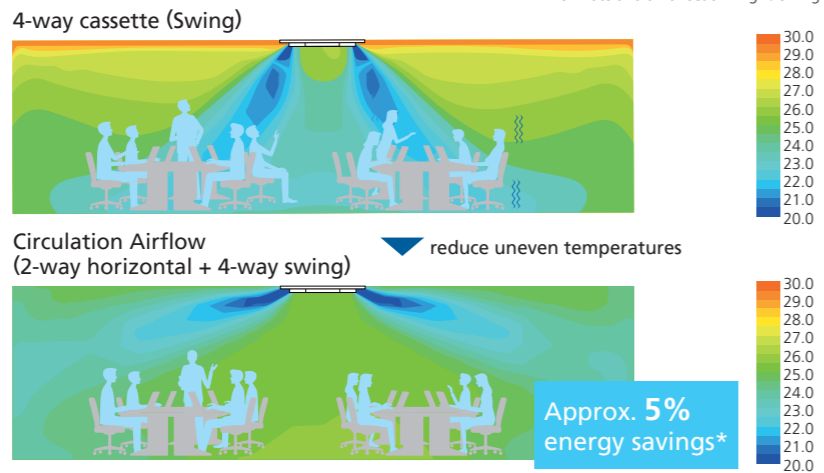
### Configurations of circulation airflow

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

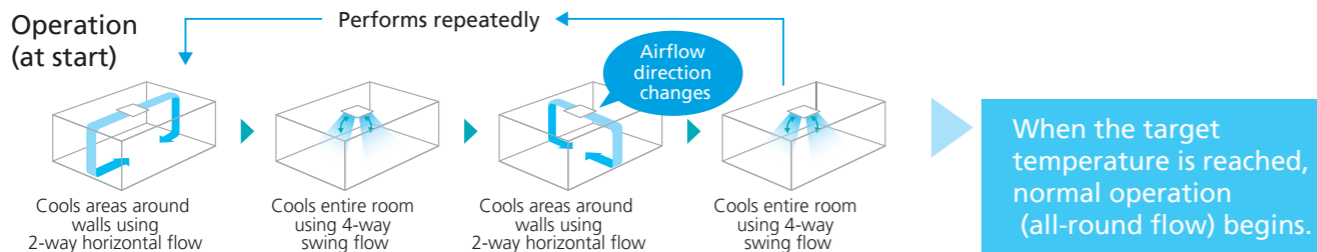
Cooling



**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 is used.

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

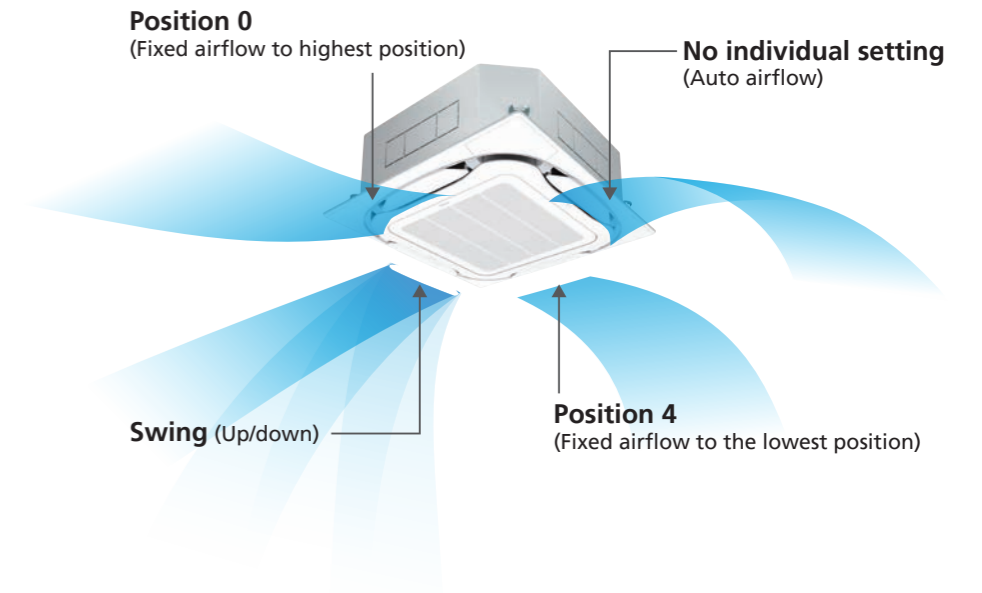
Easy setting is possible with a wired remote controller

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

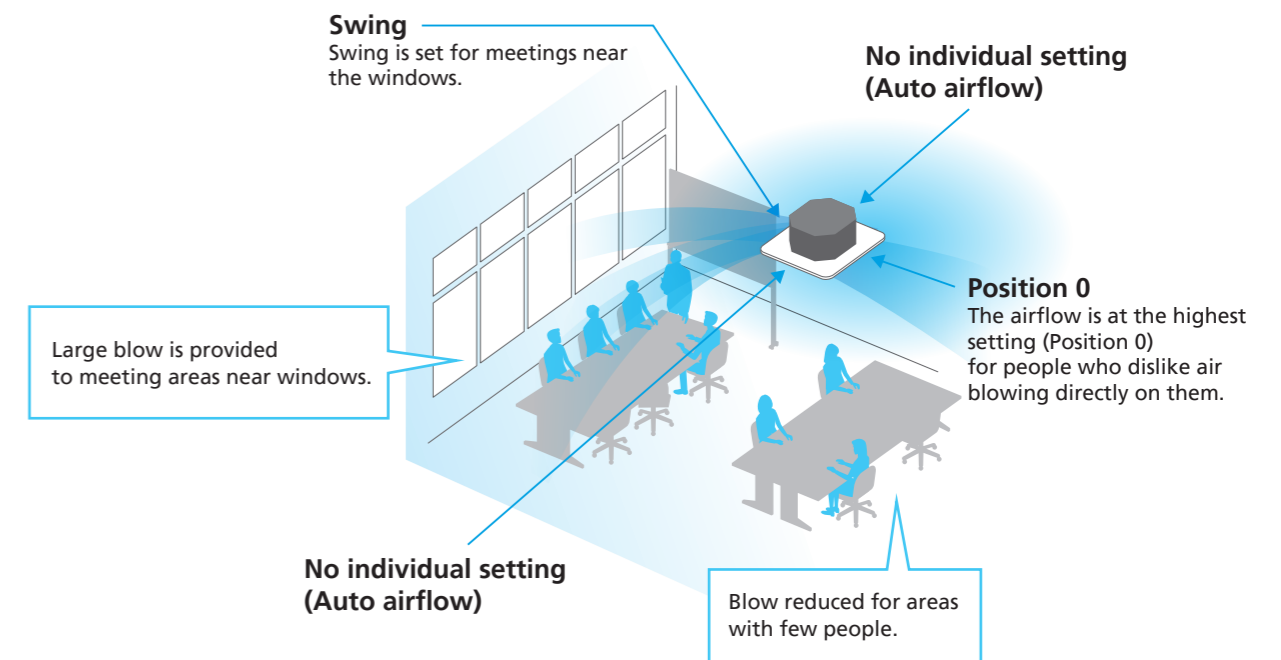
#### Individual airflow settings

- 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.

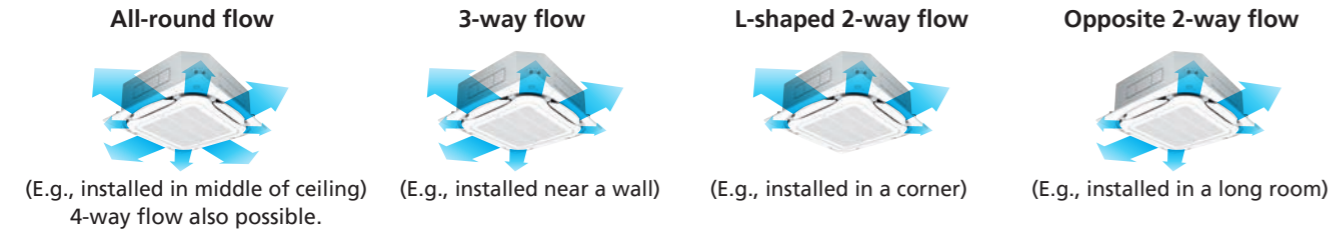


# Round Flow Cassette Type

## Other functions

### Comfort

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



### Suitable for high ceilings

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

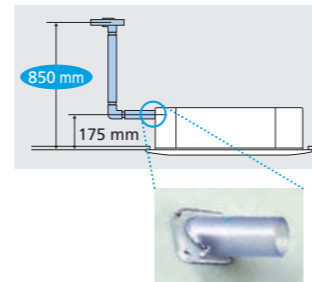
### Quick and easy installation

#### 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.

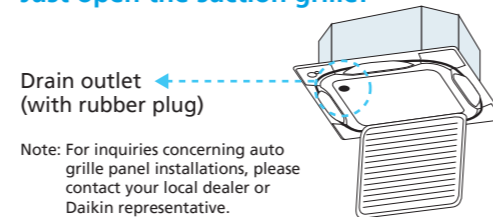


### Easy maintenance

#### 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!

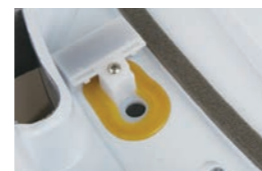


### Cleanliness

#### 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.



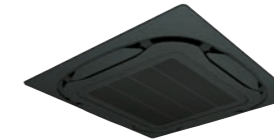
Filter has anti-mould and antibacterial treatment

### Decoration Panel (Option)

#### Standard panel



**Standard panel**  
BYCQ125EAF (Fresh White)



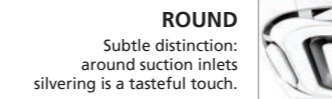
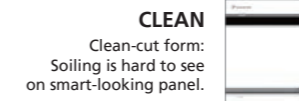
**Standard panel**  
BYCQ125EAK (Black)

#### 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)



Close to ideal styling  
New designer panel

#### Auto grille panel (option)

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

A dedicated remote controller for the auto grille panel (BRC16A2) is included. Operation is not possible using BRC1E63.



Grille panel can be lowered to a maximum of 3.9 m.  
BYCQ125EASF (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	
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, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

### Decoration Panel (Option)

Standard 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	BYCQ125EASF (Fresh White)
	Dimensions(HxWxD)	mm 105x950x950
	Weight	kg 8

### Function List

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

# Compact Multi Flow Cassette Type

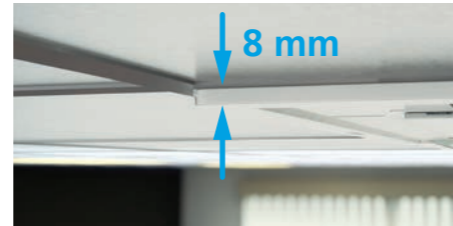
**New** FXZQ-A

Quiet, compact, and designed for user comfort



## Compact & elegant design

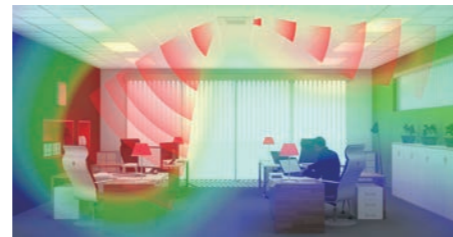
- Fully-flat integration in standard architectural ceiling tiles, leaving only 8 mm
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white
- The newly designed panel integrates fully within one ceiling tile enabling lights, speakers and sprinklers to be installed 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 \*1

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

\*1. This function can only be set via wired remote controller BRC1E63.

### 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

### Ceiling soiling prevention

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



## Specifications

MODEL		FXZQ20AVM4	FXZQ25AVM4	FXZQ32AVM4	FXZQ40AVM4	FXZQ50AVM4
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		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)		32.0/29.5/25.5		33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0
Sound power (H)		49		50	54	60
Dimensions (HxWxD)		260x575x575 (For depth add 63 mm for electrical box)				
Machine weight		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, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

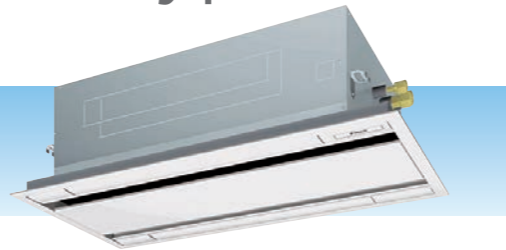
## Panel (Option)

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

# Double Flow Cassette Type

FXCQ-A

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

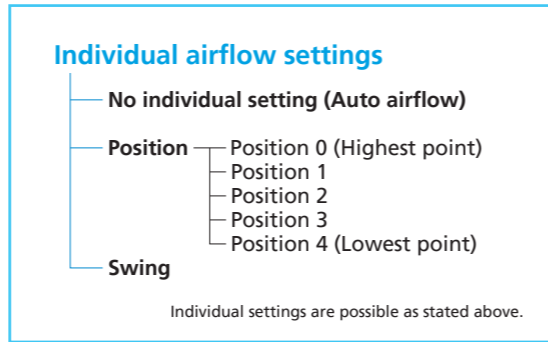
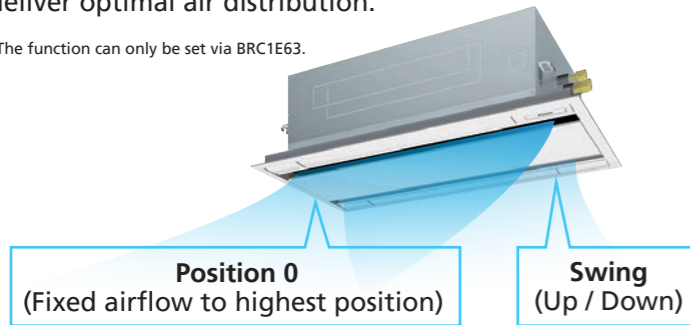


## Comfort

### Individual airflow direction control\*1

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

\*1. The function can only be set via BRC1E63.



### 5-step & auto airflow control

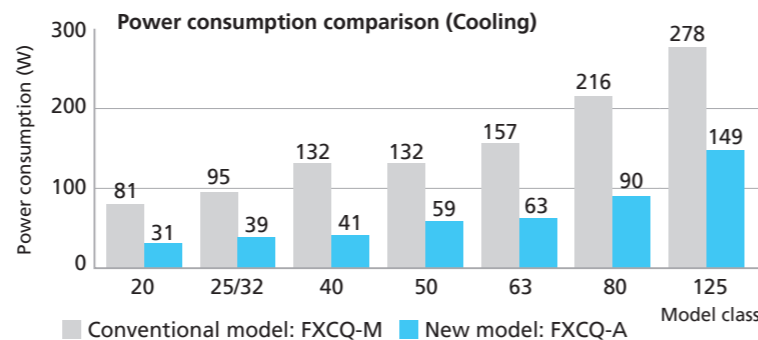
- Control of airflow rate has been improved from 3-step to 5-step. Auto airflow rate is newly available.

### Suitable for high ceilings

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

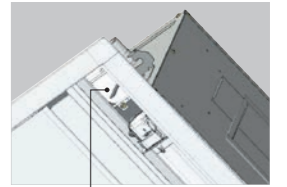
## Energy saving

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

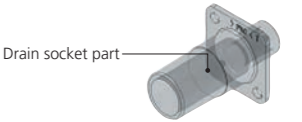


## Easy maintenance

- 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

### 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	FXCQ20AVM4	FXCQ25AVM4	FXCQ32AVM4	FXCQ40AVM4	FXCQ50AVM4	FXCQ63AVM4	FXCQ80AVM4	FXCQ125AVM4	
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	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	37/33/31/28/26/25	40/37/35/33/30/28/27	42/38/36/33/30/28	53/49/46/43/40/37	56/53/50/46/43/40	91/84/79/74/68/63	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 × W × D)	mm	305×775×620			305×990×620		305×1,445×620		
Machine weight	kg	19			22	25	33	38	
Piping connections	Liquid (Flare)	φ 6.4						φ 9.5	
	Gas (Flare)	φ 12.7						φ 15.9	
	Drain	VP25 (External Dia. 32/Internal Dia. 25)							
Panel (Option)	Model	BYBCQ40CF			BYBCQ63CF		BYBCQ125CF		
	Colour	Fresh white (6.5Y 9.5/0.5)							
	Dimensions (HxWxD)	55×1,070×700			55×1,285×700		55×1,740×700		
	Weight	10			11		13		

Notes: Specifications are based on the following conditions;

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

# Corner Cassette Type

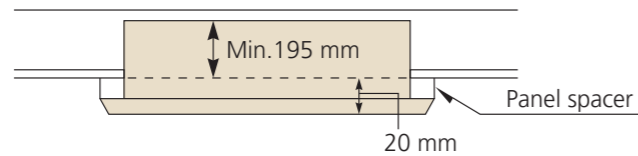
FXKQ-MA

Slim design for flexible installation



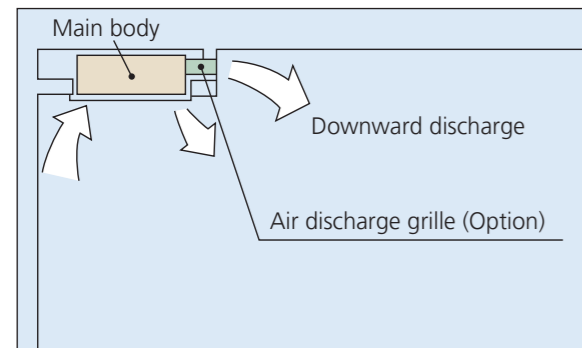
## Slim design

- 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.

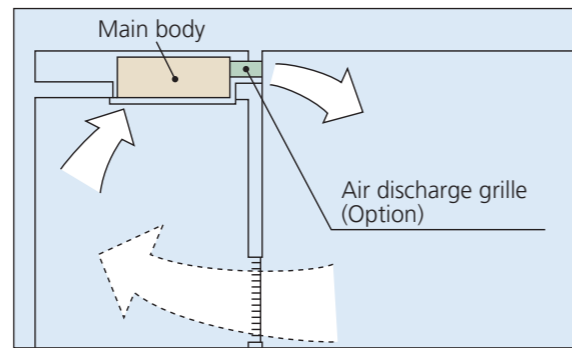


## Flexible installation

- 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/220 V, 50/60 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

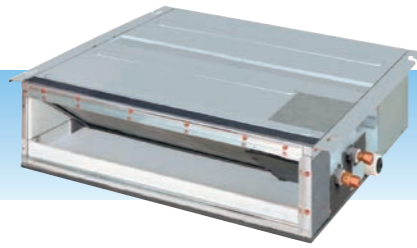
Notes: Specifications are based on the following conditions;

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

# Slim Duct (Standard) Type

FXDQ-PD / ND

Slim design, quietness and ideal for drop-ceilings



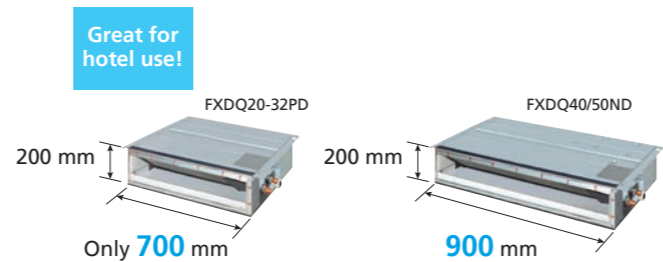
## Comfort

- 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

\*1,100 mm in width for the FXDQ63ND model.

## 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/220 V, 50/60 Hz							
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
	kW	2.2	2.8	3.6	4.5	5.6	7.1	
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)						

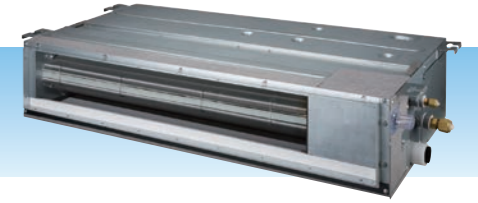
Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- \*1: Values are based on the following conditions: FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: external static pressure of 15 Pa.
- \*2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ-PD models and 15 Pa for FXDQ-ND models.)
- \*3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

# Slim Duct (Compact) Type

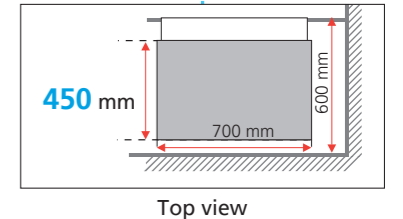
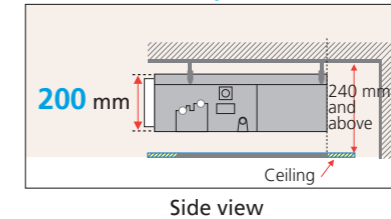
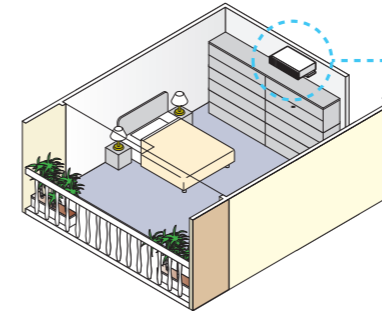
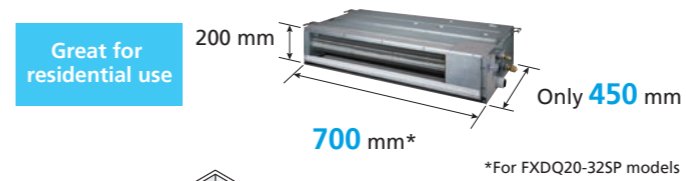
FXDQ-SP

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	
	kW	2.2	2.8	3.6	4.5	5.6	
Power consumption *1	kW	0.072	0.075	0.078	0.180		
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		
	cfm	307/268/229	318/282/247	353/318/282	530/459/371		
External static pressure	Pa	30-10 *2			50-20 *2		
Sound level (HH/H/L) *1 *3	dB(A)	33/31/29		34/32/30	35/33/31		
Dimensions (HxWxD)	mm	200x700x450			200x900x450		
Machine weight	kg	17			20		
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, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- \*1: Values are based on the following conditions: FXDQ20-32SP: external static pressure of 10 Pa; FXDQ40-63SP: external static pressure of 20 Pa.
- \*2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ20-32SP models and 20 Pa for FXDQ40-63SP models.)
- \*3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).



# Middle Static Pressure Duct Type

## FXSQ-PA

Middle static pressure and slim design allow flexible installations



## Installation flexibility

### Slim design

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

245 mm

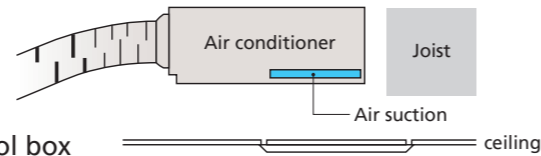


### Standard DC drain pump

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

### Bottom suction possible

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



## Design flexibility

### Adjustable external static pressure

- Using a DC fan motor, the external static pressure can be controlled within a range of 30 Pa\* to 150 Pa.

Adjustable external static pressure

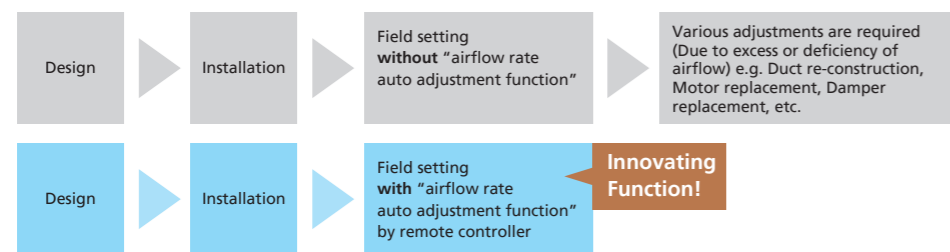


\* 30 Pa–150 Pa for FXSQ20-40PAV4  
50 Pa–150 Pa for FXSQ50-125PAV4  
50 Pa–140 Pa for FXSQ140PAV4

## Easy installation

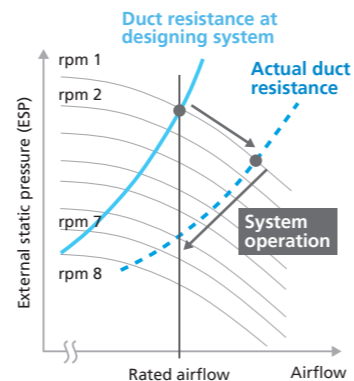
### “Airflow rate auto adjustment function” at field setting (local setting by remote controller)

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



<Mechanism>

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



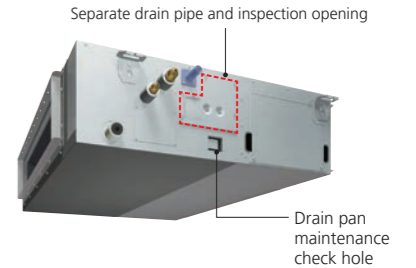
Notes: “Airflow rate auto adjustment function” can be adjusted within ±10% of rated airflow. (Refer to Engineering Data Book for details)  
“Airflow rate auto adjustment function” should be used at field setting only.

## Comfort

- Control of the airflow rate can be selected from 3-step control. Auto airflow rate control can be selected with wired remote controller.
- Lower sound level: down to 28 dB(A)

## Easy maintenance

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



## Cleanliness

### Silver ion anti-bacterial drain pan

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

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



### Filter has anti-mould and antibacterial treatment

## Specifications

MODEL	FXSQ20PAV4	FXSQ25PAV4	FXSQ32PAV4	FXSQ40PAV4	FXSQ50PAV4	
Power supply	1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100
	kW	2.2	2.8	3.6	4.5	5.6
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 (H×W×D)	mm	245×550×800		245×700×800	245×1,000×800	
Machine weight	kg	25		27	35	
Piping connections	Liquid (Flare)	φ 6.4				
	Gas (Flare)	φ 12.7				
	Drain	VP25 (External Dia. 32/Internal Dia. 25)				

MODEL	FXSQ63PAV4	FXSQ80PAV4	FXSQ100PAV4	FXSQ125PAV4	FXSQ140PAV4	
Power supply	1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity	Btu/h	24,200	30,700	38,200	47,800	54,600
	kW	7.1	9.0	11.2	14.0	16.0
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				
Sound level (H/M/L)	dB(A)	36/32/29	37.5/34/30	39/35/32	42/38.5/35	43/40/36
Dimensions (H×W×D)	mm	245×1,000×800		245×1,400×800	245×1,550×800	
Machine weight	kg	35	37	46	47	52
Piping connections	Liquid (Flare)	φ 9.5				
	Gas (Flare)	φ 15.9				
	Drain	VP25 (External Dia. 32/Internal Dia. 25)				

Notes: Specifications are based on the following conditions;

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

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

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

# 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

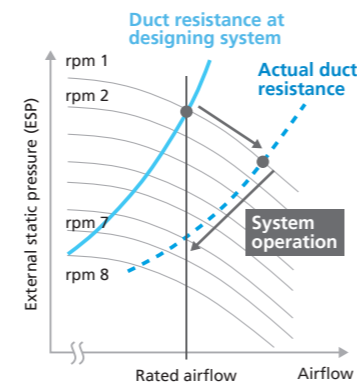
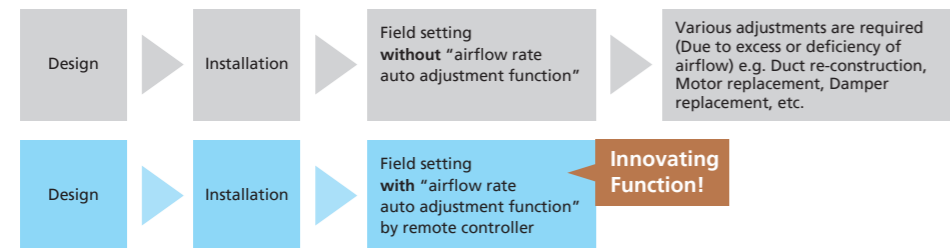
\*30 Pa – 100 Pa for FXMQ20PA-32PA  
 \*30 Pa – 160 Pa for FXMQ40PA  
 \*50 Pa – 200 Pa for FXMQ50PA-125PA  
 \*50 Pa – 140 Pa for FXMQ140PA



## 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

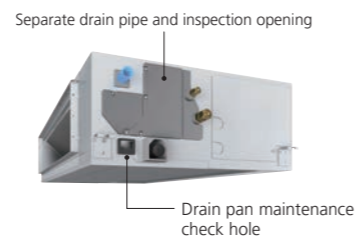
- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller.
- Low operation sound level: down to 29 dB(A)

## 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.



## 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/220 V, 50/60 Hz					
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100
	kW	2.2	2.8	3.6	4.5	5.6
Power consumption	0.056 *1		0.060 *1	0.151 *1	0.128 *1	
Casing	Galvanised steel plate					
Airflow rate (HH/H/L)	m³/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 (H×W×D)	300×550×700			300×700×700	300×1,000×700	
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)				

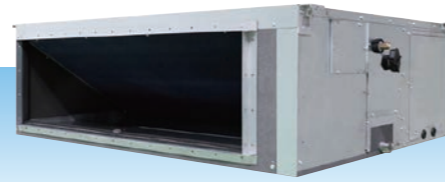
MODEL	FXMQ63PAV4	FXMQ80PAV4	FXMQ100PAV4	FXMQ125PAV4	FXMQ140PAV4	
Power supply	1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity	Btu/h	24,200	30,700	38,200	47,800	54,600
	kW	7.1	9.0	11.2	14.0	16.0
Power consumption	0.138 *1		0.185 *1	0.215 *1	0.284 *1	0.405 *1
Casing	Galvanised steel plate					
Airflow rate (HH/H/L)	m³/min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
	cfm	688/618/565	883/794/706	1,130/953/812	1,377/1,165/988	1,624/1,377/1,130
External static pressure	50-200 (100) *2					
Sound level (HH/H/L)	42/40/38		43/41/39	44/42/40	46/45/43	
Dimensions (H×W×D)	300×1,000×700			300×1,400×700		
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, Level difference: 0 m.  
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.  
 \*1: Power consumption values are based on conditions of rated external static pressure.  
 \*2: External static pressure can be modified using a remote controller that offers 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.



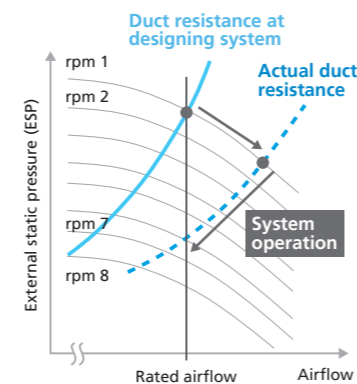
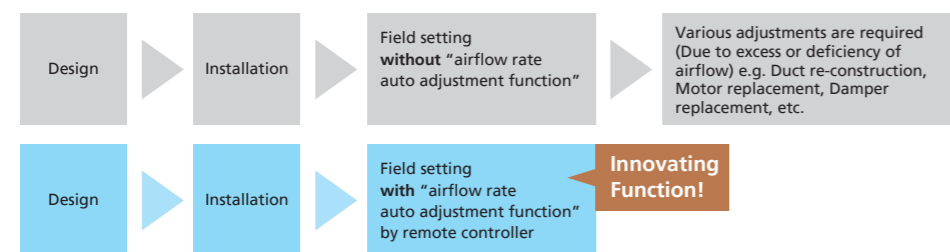
Adjustable external static pressure

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.

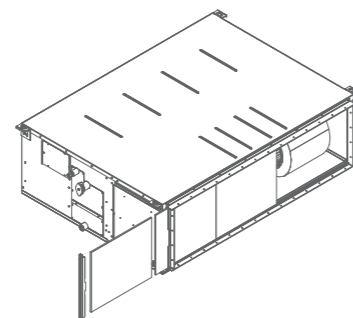


- <Mechanism>
- During field setting, power input of DC fan is detected.
  - External static pressure is estimated from power input of DC fan because PCB of FXMQ-P has table of external static pressure vs. power input of DC fan.
  - Actual duct resistance is calculated according to 1 and 2.
  - Fan speed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

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

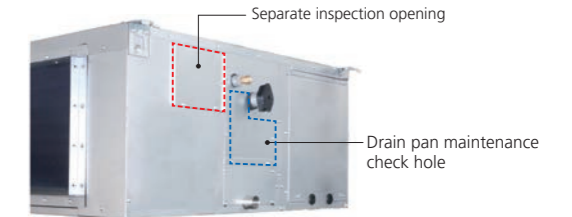
### Built-in pre-filter slot

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

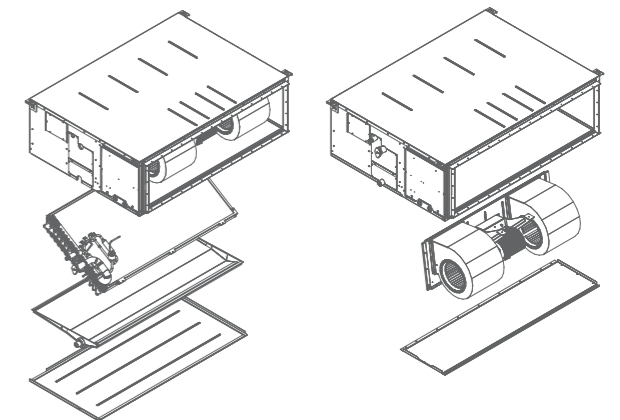


## Easy maintenance

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



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



## Specifications

MODEL		FXMQ200PVM	FXMQ250PVM
Power supply		1-phase, 220-240 V/220-230 V, 50/60 Hz	
Cooling capacity	Btu/h	76,400	95,500
	kW	22.4	28.0
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)	mm	470x1,490x1,100	470x1,490x1,100
Machine weight	kg	95	105
Piping connections	Liquid (Flare)	φ 9.5	
	Gas (Flange)	φ 19.1	φ 22.2
	Drain	BSP1"	

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

# Ceiling Suspended Type

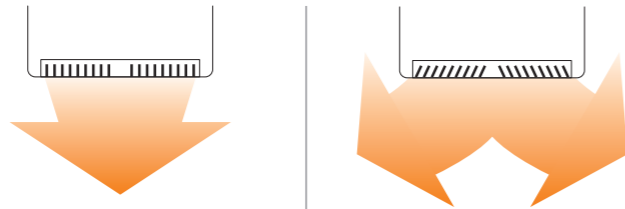
## FXHQ-MA / A

Slim body with quiet and wide airflow



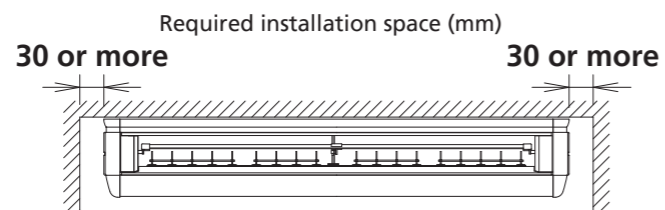
## Comfort

- 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.

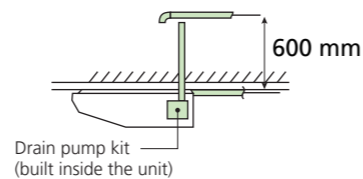


## Installation flexibility

- Flexible installation  
The unit fits more snugly into tight spaces.



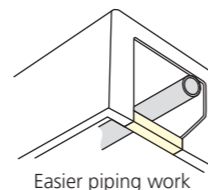
\* Water used in the test-run can be drained from the air discharge opening rather than from the side as was formerly the case.



- 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.

## 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 airflow rate has been improved from 2-step to 3-step.
- 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.



## Specifications

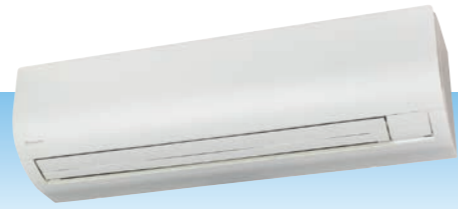
MODEL	FXHQ32MAV7	FXHQ63MAV7	FXHQ100MAV7	FXHQ125AVM4	FXHQ140AVM4
Power supply	1-phase, 220-240 V/220 V, 50/60 Hz			1-phase, 220 V, 50 Hz	
Cooling capacity	Btu/h	12,300	24,200	38,200	48,000
	kW	3.6	7.1	11.2	14.1
Power consumption	kW	0.111	0.115	0.135	0.168
Casing	White (10Y9/0.5)			Sheet Metal / White	
Airflow rate (H/M/L)	m <sup>3</sup> /min	12/-/10	17.5/-/14	25/-/19.5	34/26/20
	cfm	424/-/353	618/-/494	883/-/688	1,200/918/706
Sound level (H/M/L)	dB(A)	36/-/31	39/-/34	45/-/37	46/41/37
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, Level difference: 0 m.  
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.  
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

# Wall Mounted Type

## FXAQ-A

Stylish flat panel design harmonised with your interior décor



## Comfort

### Higher airflow



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

### Lower sound level

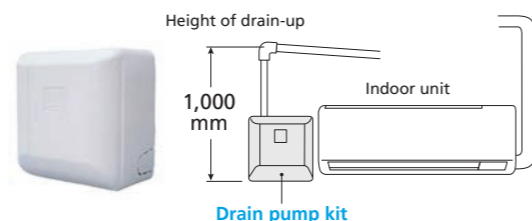
- Whisper quiet in operation, with sound levels as low as 28.5 dB(A)\*  
\*Sound level for FXAQ20-32A
- An ideal solution for a wide range of commercial spaces, including individual office spaces.

## Stylish design and cleanliness

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

## Flexible installation

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



## 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, Level difference: 0 m.  
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

# Floor Standing Type

## FXLQ-MA

Suitable for perimeter zone air conditioning



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

\*8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m<sup>3</sup>

### Specifications

MODEL		FXLQ20MAVE4	FXLQ25MAVE4	FXLQ32MAVE4	FXLQ40MAVE4	FXLQ50MAVE4	FXLQ63MAVE4
Power supply		1-phase, 220-240 V/220 V, 50/60 Hz					
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
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 × W × D)	mm	600×1,000×222		600×1,140×222		600×1,420×222	
Machine weight	kg	25		30		36	
Piping connections	Liquid (Flare)	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, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

# Concealed Floor Standing Type

## FXNQ-MA

Designed to be concealed in the perimeter skirting-wall



- The unit is concealed in skirting-wall of perimeter, that enables to create high class interior design.
- The connecting port faces downward, greatly facilitating on-site piping work.
- 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/220 V, 50/60 Hz					
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
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 × W × D)	mm	610×930×220		610×1,070×220		610×1,350×220	
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, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

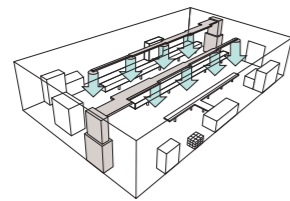
# Floor Standing Duct Type

FXVQ-N

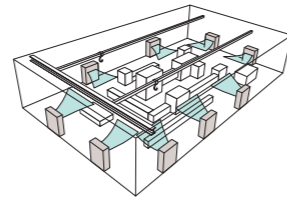
Large airflow type for large spaces



- 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.

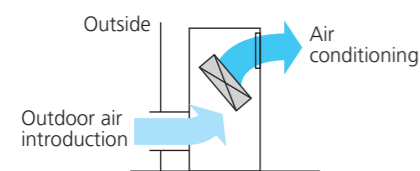
\*8 hr/day, 26 day/month. For dust concentration of 0.15 mg/m<sup>3</sup>

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

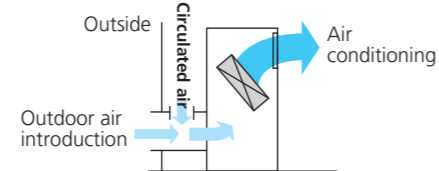
- Outdoor air intake mode is useable as an outdoor-air processing air conditioner.

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

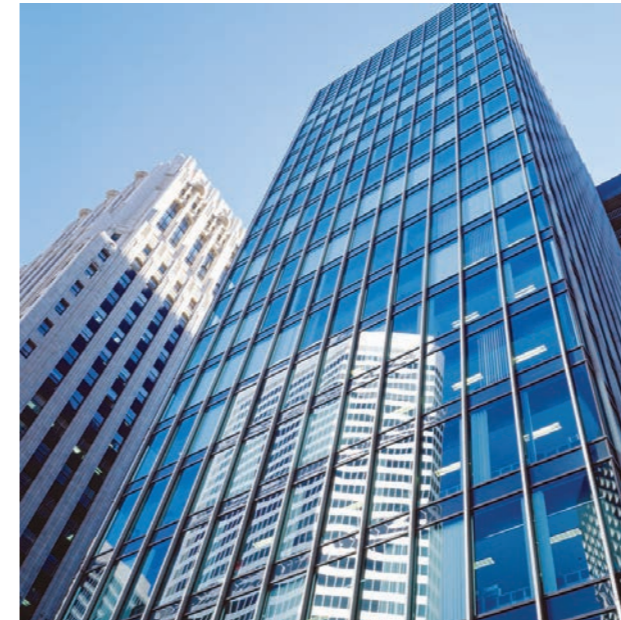
All-fresh (using outdoor air only) system



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				

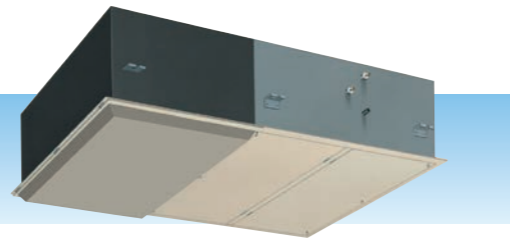
Notes: Specifications are based on the following conditions;

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

# Clean Room Air Conditioner

FXB(P)Q-P

Suitable for hospitals and other clean spaces



## Easily provides the high cleanliness environment required by various industries

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

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

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

### Instances of installation by type (for a hospital)

Type	Ceiling intake type (high speed contracted flow/high ceiling model)	Floor-level intake type (gentle wind distribution/high cleanliness class model)
Features	Construction work is simple and a ceiling installation is possible. Dust filtering and air-conditioning can be started immediately.	Easy to increase the cleanliness and air-conditioning effect. A low flow speed prevents drying of the affected part and the experience of drafts.
Cleanliness class*1	100,000 to 10,000	10,000
Wind speed	1.0 m/s or higher	Approximately 0.5 m/s
Blow method	<b>Integrated outlet unit model</b> <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>	<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>
	<b>Separate outlet unit model</b> <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>	<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.

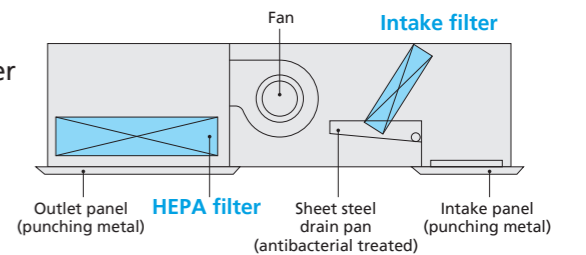
This enhances the antibacterial properties of the duct.

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/220 V, 50/60 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, Level difference: 0 m.  
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)  
 \*1: An intake air filter is only attached to the ceiling intake type.  
 \*2: HEPA filter sold separately. The dust collection efficiency of HEPA filter is 99.97%. However, air may slightly leak around the filter when installing.  
 \*3: Weight including HEPA filter and panel.  
 \*4: Anechoic chamber conversion value under JIS B 8616 test conditions. Value usually increases slightly in practice due to surrounding conditions.  
 \*5: The clean room air conditioner does not support DOP testing (leak test) based on GMP standards (Standards for Manufacturing Control and Quality Control for Medical Devices) due to slight leakage at time of product installation.  
 \*6: Weight including panel.  
 \*In the case of an installation in an operating theatre etc. where an air conditioner malfunction may have serious consequences, please build in redundancy with two or more outdoor units.



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

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

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

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



# Slim Ceiling Concealed Duct Type

FDKS-E/C

Slim and smooth design suits your shallow ceiling



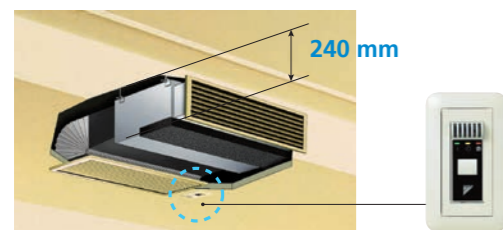
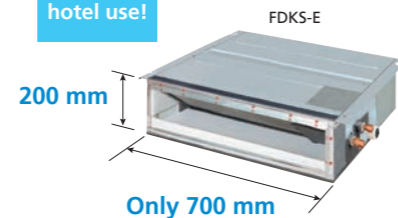
Standard accessory

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

## Installation flexibility

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

Great for hotel use!



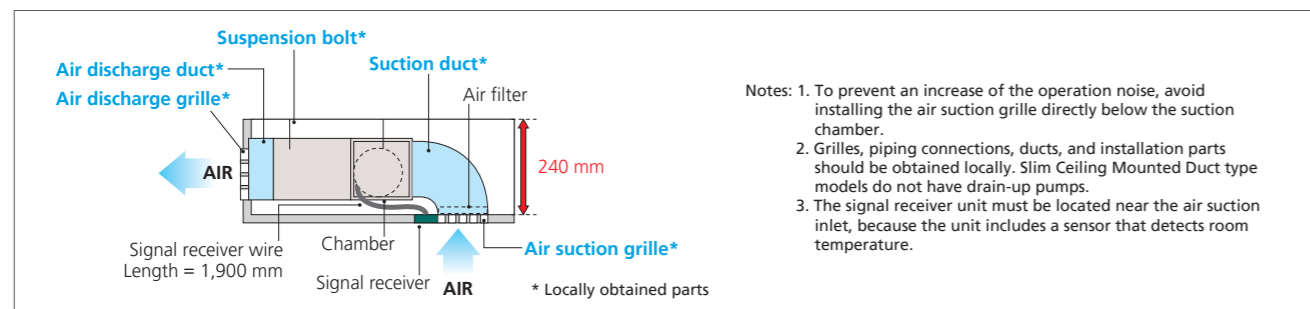
Signals from the wireless remote controller are transmitted to the signal receiver.

## Comfort

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

\*Home Leave Operation can be selected for any temperature from 18 to 32°C for cooling operation.

\*Home Leave Operation function must be set using the remote controller when going to sleep or leaving the house, and after waking up or returning home.



## Specifications

MODEL	FDKS25EVMB4	FDKS35EVMB4	FDKS25CVMB4	FDKS35CVMB4	FDKS50CVMB4	FDKS60CVMB4
Power supply	1-phase, 220-240 V/220-230 V, 50/60 Hz					
Airflow rates (H)	8.7 (307)		9.5 (335)		10.0 (353)	
Sound levels (H/L/SL)*	35/31/29		37/33/31		38/34/32	
Fan speed	5 steps, quiet and automatic					
Temperature control	Microcomputer control					
Dimensions (H x W x D)	200X700X620		200X900X620		200X1,100X620	
Machine weight	21		25		30	
Piping connections	Liquid (Flare)	φ 6.4				φ 12.7
	Gas (Flare)	φ 9.5				
	Drain	VP20 (External Dia. 26/Internal Dia. 20)				
Heat insulation	Both liquid and gas pipes					
External static pressure	30		40			

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

# Wall Mounted Type

Residential Indoor Units

FTKJ-N

Elegant appearance with European style



Standard accessory

## Stylish design

Elegant appearance with curved panel

- The sleek design of the FTKJ-N indoor unit features a uniquely European style. This elegant body houses state-of-the-art technology which delivers superior performance. The FTKJ-N series offers a versatile choice for home-owners, designers and architects alike.



## Efficiency & comfort

Two-area intelligent eye

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

Comfort Airflow Mode

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

3D Airflow

3D Airflow combines Vertical and Horizontal Auto-Swing to reduce indoor temperature fluctuation. This function circulates air to every part of a room for uniform cooling, even for large spaces. To start 3D Airflow, push both the Vertical and Horizontal Auto-Swing buttons. The flaps and louvers swing in turn.

## Specifications

MODEL	FTKJ25NVM4W	FTKJ25NVM4S	FTKJ35NVM4W	FTKJ35NVM4S	FTKJ50NVM4W	FTKJ50NVM4S
Power supply	1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel colour	White	Silver	White	Silver	White	Silver
Airflow rates (H)	8.9 (313)		10.9 (385)			
Sound levels (H/L/SL)	38/25/19		45/26/20		46/35/29	
Fan speed	5 steps, quiet and automatic					
Temperature control	Microcomputer control					
Dimensions (H x W x D)	303x998x212					
Machine weight	12					
Piping connections	Liquid (Flare)	φ 6.4				φ 12.7
	Gas (Flare)	φ 9.5				
	Drain	φ 18.0				
Heat insulation	Both liquid and gas pipes					

# Wall Mounted Type

FTKS-D/F

Stylish flat panel harmonises with your interior décor

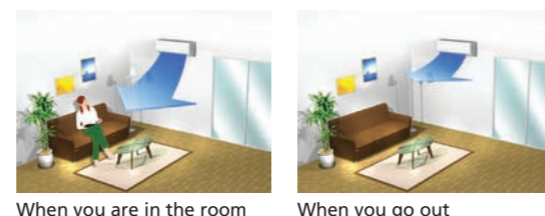


\*Remote controllers other than the standard accessory wireless remote controller cannot be used.



## Efficiency & comfort

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



- Low sound level: down to 22 dB(A)

- 3-D Airflow combines Vertical and Horizontal Auto-Swing to circulate air to every part of a room for uniform cooling of even large spaces.

\* This function is available for FTKS50/60/71F.



## Cleanliness

### Titanium Apatite Deodorising Filter

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

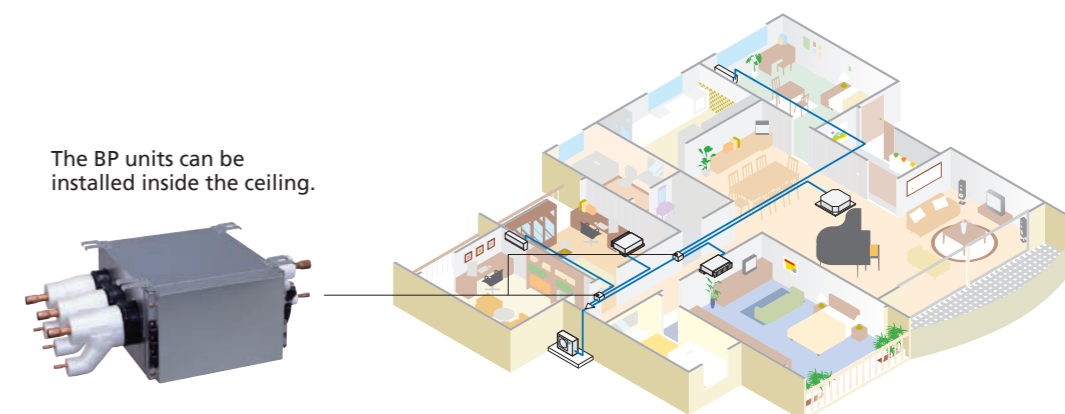
\*This filter is not a medical device. Benefits such as the adsorption of odours and allergens and deodorisation of odours are only effective for substances which are directly attached to the Titanium Apatite Deodorising Filter.

### Specifications

MODEL	FTKS25DVM4	FTKS35DVM4	FTKS50FVM4	FTKS60FVM4	FTKS71FVM4	
Power supply	1-phase, 220-240 V/220-230 V, 50/60 Hz					
Front panel colour	White					
Airflow rates (H)	m <sup>3</sup> /min (cfm)	8.7 (307)	8.9 (314)	14.7 (519)	16.2 (572)	17.4 (614)
Sound levels (H/L/SL)	dB(A)	37/25/22	39/26/23	43/34/31	45/36/33	46/37/34
Fan speed	5 steps, quiet and automatic					
Temperature control	Microcomputer control					
Dimensions (H x W x D)	mm	283x800x195		290x1,050x238		
Machine weight	kg	9		12		
Piping connections	Liquid (Flare)	φ 6.4				
	Gas (Flare)	φ 9.5	φ 12.7		φ 15.9	
	Drain	φ 18.0				
Heat insulation	Both liquid and gas pipes					

# BP Units

BP units for connection to residential indoor units



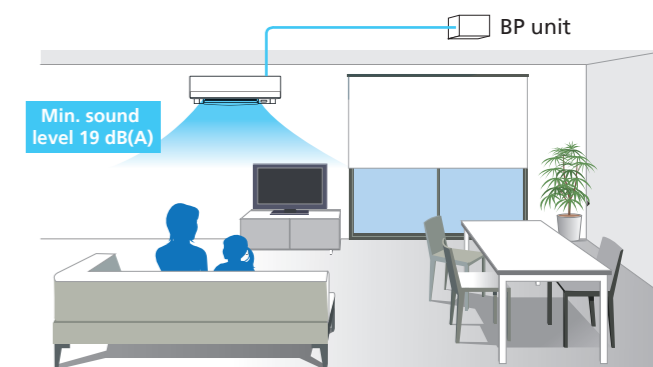
### Connectable to residential indoor units

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

### Quiet operating sound

Expansion valves tend to create refrigerant passing noise. However, this noise can be reduced by installing the valves in BP units. The units can be fitted inside the ceiling or roof-space far from an indoor unit.

Some Daikin residential indoor units also provide minimum sound levels of just 19 dB(A).



### Specifications

MODEL	BPMKS967A3	BPMKS967A2	
Power supply	1-phase, 220-240 V/220-230 V, 50/60 Hz		
Number of ports	3 (connectable to 1-3 indoor units)	2 (connectable to 1-2 indoor units)	
Power consumption	W	10	
Running current	A	0.05	
Dimensions (HxWxD)	mm	180X294 (+356*)X350	
Machine weight	kg	8      7.5	
Number of wiring connections	3 for power supply (including earth wiring), 2 for interunit wiring (outdoor unit-BP, BP-BP), 4 for interunit wiring (BP-indoor unit)		
Piping connections (Brazeing)	Liquid	Main Branch kW	φ 9.5X1
	Gas	Main Branch kW	φ 6.4X3      φ 6.4X2
Heat insulation	Both liquid and gas pipes		
	Connectable indoor units		2.5 kW class to 7.1 kW class
Min. rated capacity of connectable indoor	kW	2.5	
Max. rated capacity of connectable indoor	kW	20.8      14.2	

Note: \*Total auxiliary piping length.

# Air Handling Unit

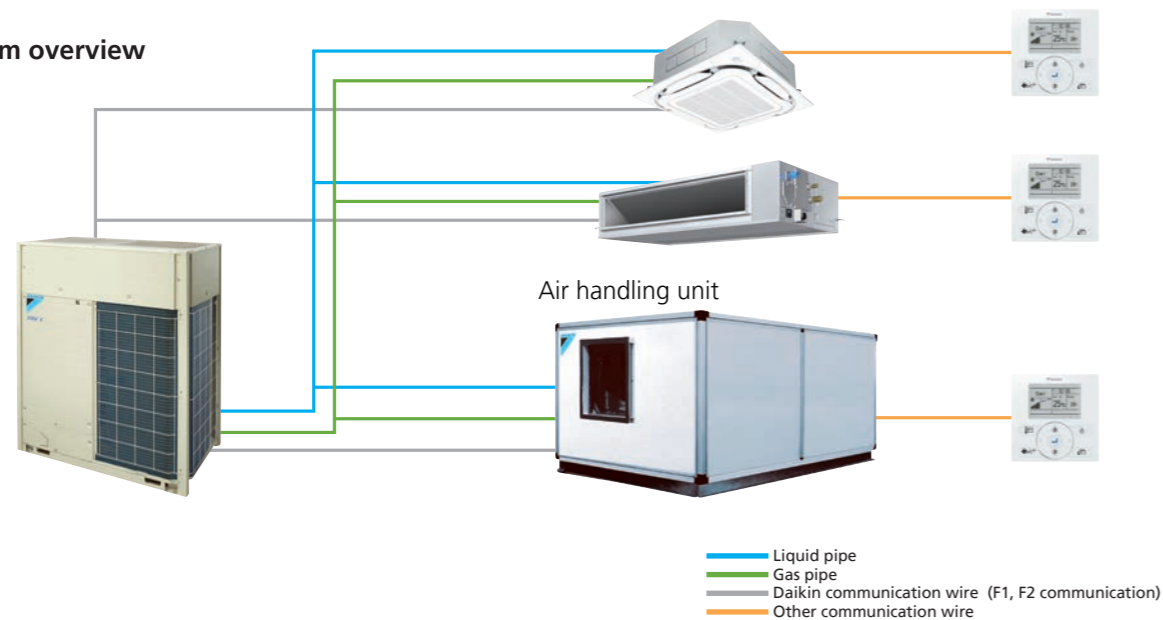
Integrate your air handling unit in a total solution for large size spaces such as factories and large stores.

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



AHUR  
Capacity range : 6 – 120 HP

## System overview

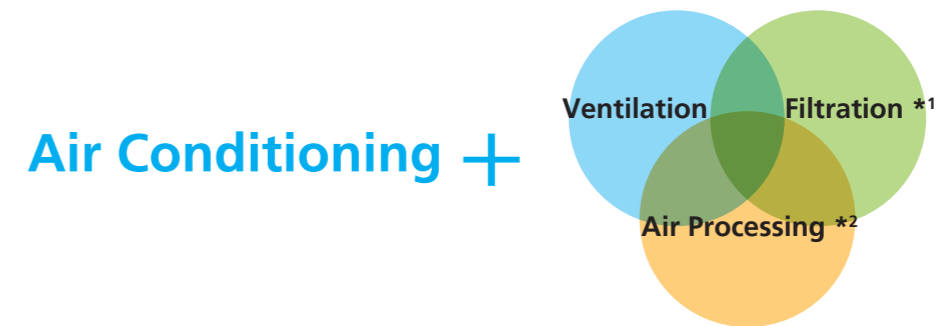


Daikin air handling units can be connected to **VRV** systems. This combination can be built to order as a system. Outdoor air series is also possible. Please contact your local sales office for details.

# Air Treatment Equipment

Daikin's air treatment systems creating a higher IAQ

Components of indoor air quality



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.

	Outdoor-Air Processing Unit	Heat Reclaim Ventilator	
		VKM-GC Type	VAM-GJ Type
Connections with <b>VRV</b> systems	Refrigerant Piping	Connectable	Not connectable
	Wiring	Connectable	Connectable
	After-cool & After-heat Control	Available	Not available
Ventilation System	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	Not available	Available
Airflow Rate	1,080 - 2,100 m <sup>3</sup> /h	500 - 950 m <sup>3</sup> /h	150 - 2,000 m <sup>3</sup> /h

\*1. PM2.5 filter (Option) is necessary.

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

# Air Treatment Equipment

## Outdoor-air processing unit

### FXMQ-MF Series

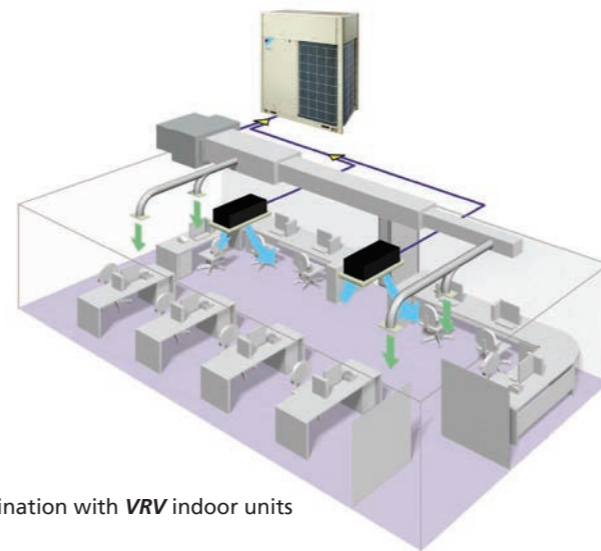
Combine fresh air treatment and air conditioning, supplied from a single system.



#### Lineup

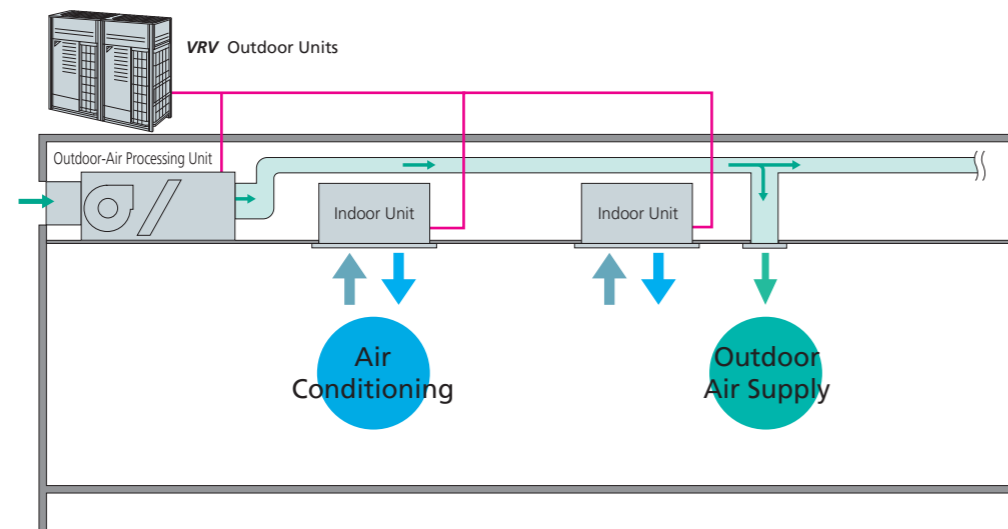
Model Name	FXMQ125MFV7	FXMQ200MFV7	FXMQ250MFV7
Capacity index	125	200	250
Airflow rate	1,080 m <sup>3</sup> /h	1,680 m <sup>3</sup> /h	2,100 m <sup>3</sup> /h

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. This results in enhanced design flexibility.



Combination with **VRV** indoor units

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

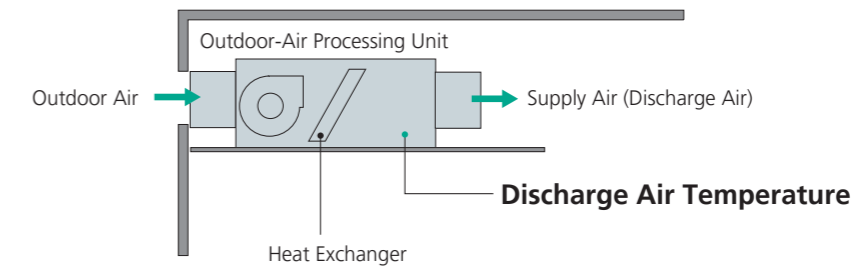


#### Connection Conditions

- 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.

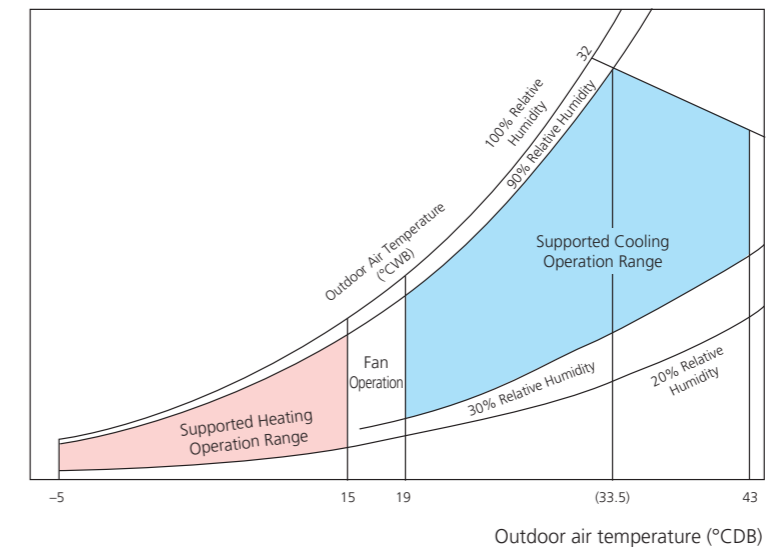
## Outdoor-air processing / Discharge air temperature control

The unit supplies outdoor fresh air controlling discharge air temperature from the unit. Thereby reducing the indoor air conditioning load.



- \* The default setting of the discharge air temperature is 18°C for cooling operation, and 25°C for heating operation. Using field settings, the set temperature may be changed within the range 13-25°C for cooling operation, and 18-30°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.

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



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

- \* Linked control of this unit and the Heat Reclaim Ventilator is not supported.
- \* 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. When outdoor-air processing is in excess, the unit switches to thermo-off mode, and outdoor air flows into the room directly.
- \* For outdoor ducts, be sure to provide heat insulation to prevent condensation.
- \* Group control of the product and standard indoor units is not supported. A separate remote controller should be connected to individual unit.
- \* If the unit is utilised to operate 24 hours a day, maintenance (part replacement, etc.) must be performed periodically.
- \* Temperature setting and Power Proportional Distribution (PPD) are not possible even if the intelligent Touch Controller or the intelligent Touch Manager is installed.
- \* The remote controller wired to the outdoor-air processing unit must not be set as the master remote controller. Otherwise, when set to "Auto," the operation mode will switch according to the outdoor air conditions, regardless of the indoor temperature.

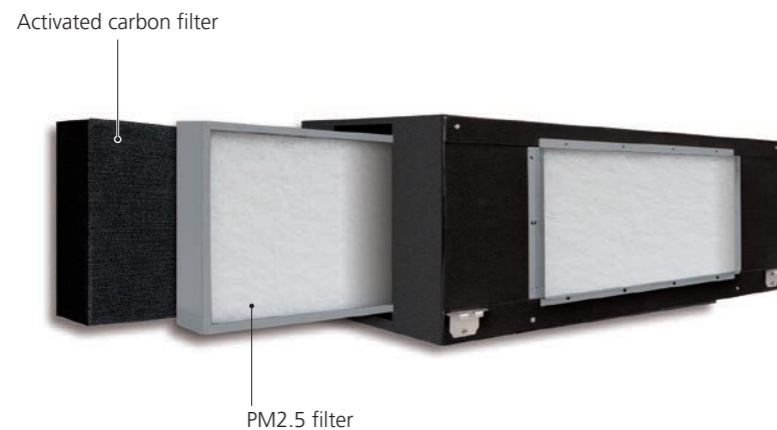
## Filtration equipment

### PM2.5 Filter (Option)

\* Refer to page 178-180 for details.

The filter removes PM2.5 particles suspended in the air, and also sulfur oxides and nitrogen oxides, providing clean air to the room.

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



### High-efficiency filter & Long-life filter (Option)

- High performance filters with dust collection efficiencies (JIS calorimetry) of 90% and 65% are available as options. Long-life filter is also available.

## Standard specifications

Type		Ceiling Mounted Duct Type			
MODEL		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	
Heating capacity *1	Btu/h	30,400	47,400	59,400	
	kW	8.9	13.9	17.4	
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	φ 9.5 (Flare)		
	Gas	mm	φ 15.9 (Flare)	φ 19.1 (Brazing)	φ 22.2 (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)		Cooling	19 to 43°C		
		Heating	-5 to 15°C		
Range of the discharge temperature *5		Cooling	13 to 25°C		
		Heating	18 to 30°C		

Notes: \*1. Specifications are based on the following conditions:

- Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
- Heating: Outdoor temp. 0°CDB, -2.9°CWB (50% RH), and discharge temp. of 25°CDB.
- Equivalent reference piping length: 7.5 m (0 m horizontal)

\*2. An intake filter is not supplied, so be sure to install the optional long-life filter or high-efficiency filter. Please mount it in the duct system of the suction side. Select a dust collection efficiency (gravity method) of 50% or more.

\*3. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. These values are normally somewhat higher during actual operation as a result of ambient conditions.

\*4. It is possible to connect to the outdoor unit if the total capacity of the indoor units is 50% to 100% of the capacity index of the outdoor unit.

\*5. Local setting mode is not displayed on the remote controller.

- This equipment cannot be incorporated into the remote group control of the VRV system.

## Options

MODEL		FXMQ125MFV7	FXMQ200MFV7	FXMQ250MFV7
Operation/control	Operation remote controller	BRC1H61W(K) / BRC1E63 / BRC2E61		
	Central remote controller	DCS302CA61		
	Unified ON/OFF controller	DCS301BA61		
	Schedule timer	DST301BA61		
	Wiring adaptor for electrical appendices (1)	KRP2A61		
	Wiring adaptor for electrical appendices (2)	KRP4AA51		
Filters	Long-life replacement filter	KAFJ371L140	KAF371M280	
	High-efficiency filter	Colourimetric method 65%	KAFJ372L140	KAF372M280
		Colourimetric method 90%	KAFJ373L140	KAF373M280
	Filter chamber *1	KDJ3705L140	KDJ3705L280	
PM2.5 filtration unit *2		BAF429A20A		
PM2.5 with activated carbon filtration unit *2		BAF429A20AC		
Drain pump kit		KDU30L250VE		
Adaptor for wiring		KRP1B61		

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

- Dimensions and weight of the equipment may vary depending on the options used.
- Some options may not be usable due to the equipment installation conditions, so please confirm prior to ordering.
- Some options may not be used in combination.
- Operating sound may increase somewhat depending on the options used.

\*2. Refer to pages 178 - 180 for details.

# Air Treatment Equipment

## Heat Reclaim Ventilator with DX-coil

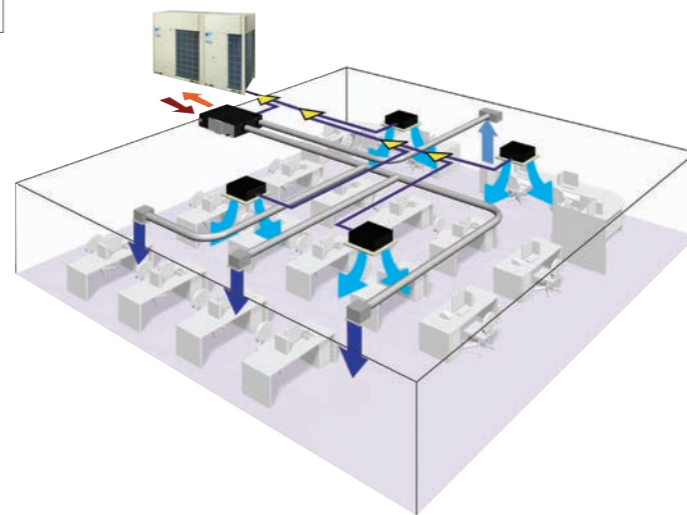
### New VKM-GC Series

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

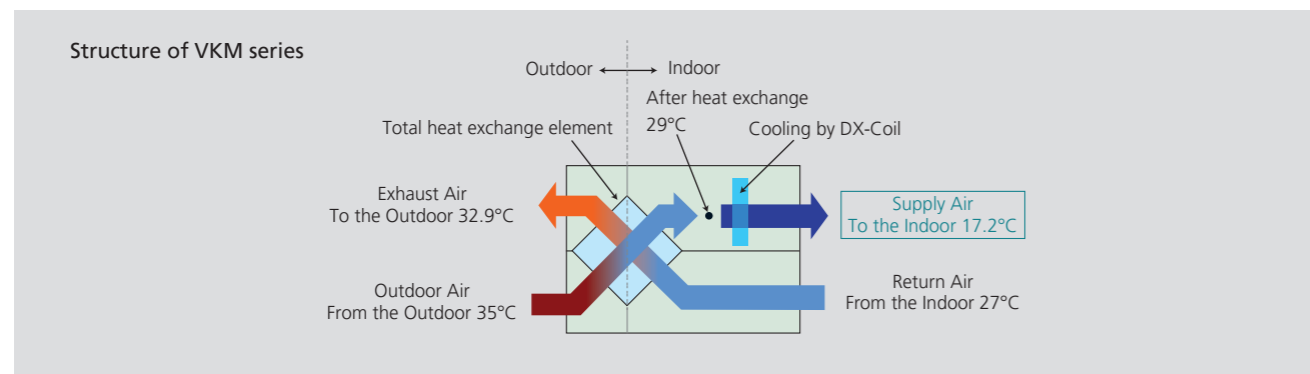
Maintains comfortable indoor air quality (IAQ) by adding fresh outdoor air having nearly the same temperature and humidity conditions as the indoor air.

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

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

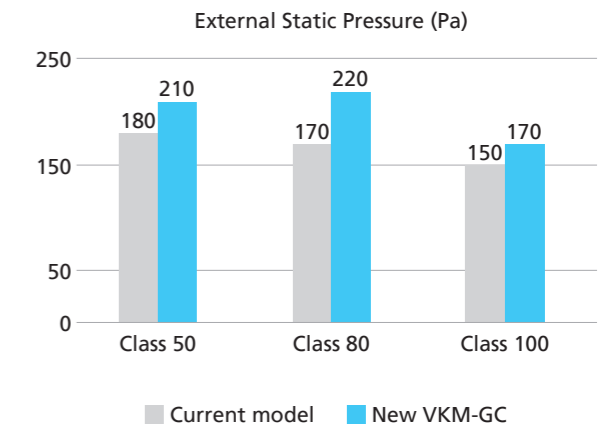
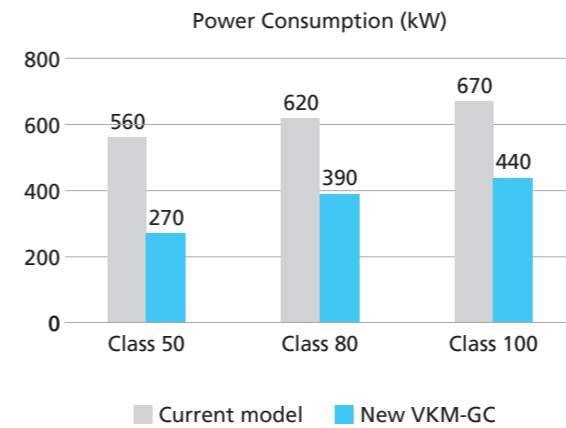
Equipped with a heat reclaim ventilator and a heat exchanger, the new VKM series minimizes room temperature fluctuations.

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)



### Supports both 50/60 Hz power supply

Current model 1-phase 220-240 V, 50 Hz only

New model 1-phase 220-240 V, 50 Hz  
1-phase, 220 V, 60 Hz

### CO<sub>2</sub> sensor control (Option) \* Refer to page 177 for details.

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) \* Refer to page 178-180 for details.

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.

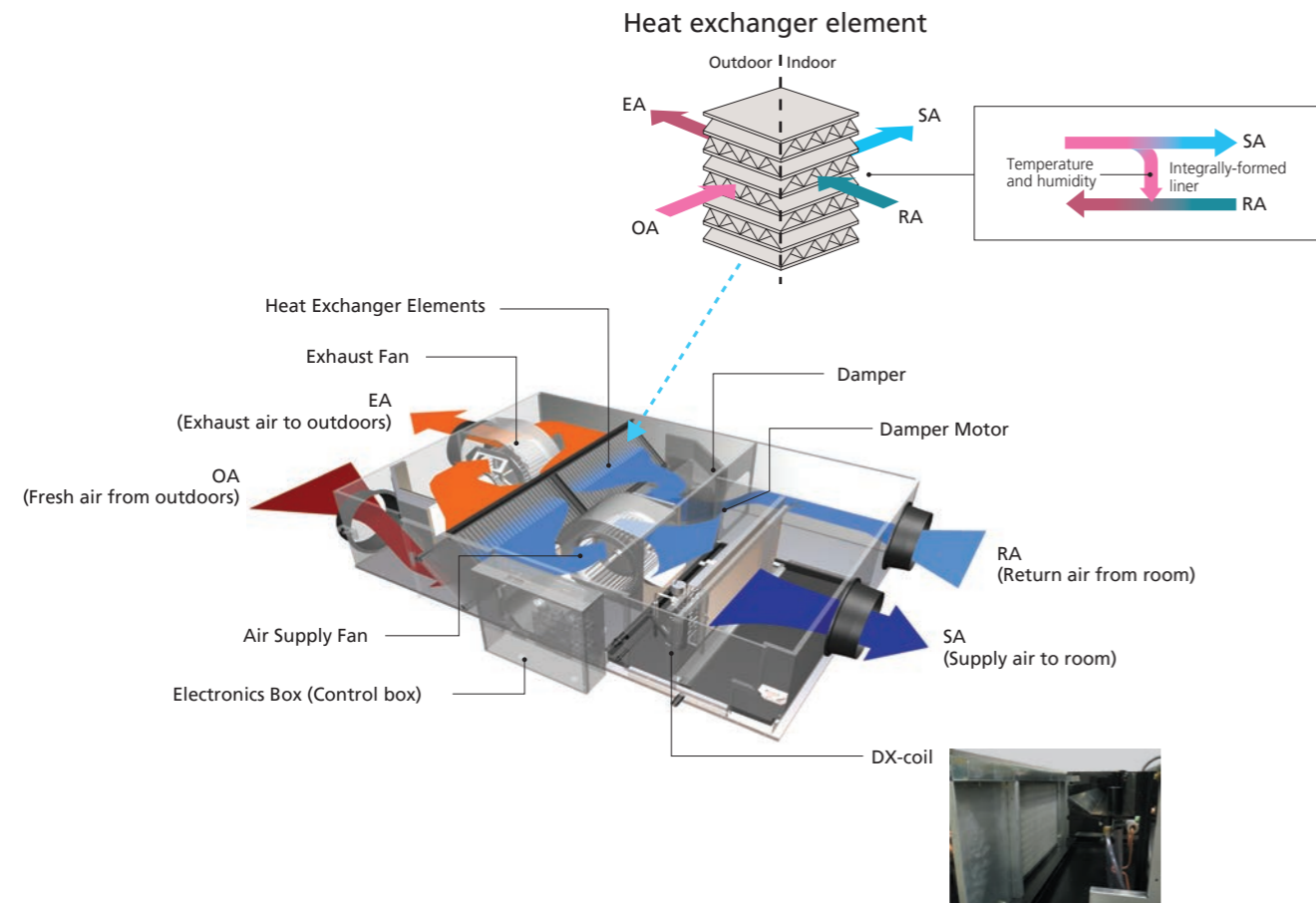
- PM<sub>2.5</sub> filter: Removes 99% or more of 2.5 μm particulate matter.
- Activated Carbon filter: Removes sulfur oxides and nitrogen oxides

### Other characteristics

- Nighttime free cooling operation \* Refer to page 174 for details.
- Stainless drain pan
- High-efficiency filter (Option)

# Air Treatment Equipment

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

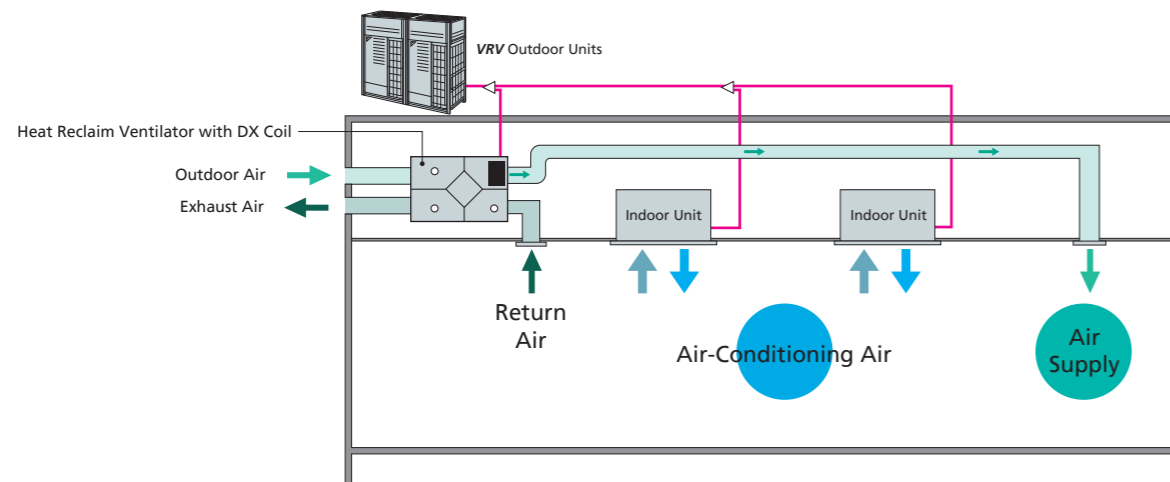


## Specifications

MODEL			VKM50GCVE	VKM80GCVE	VKM100GCVE
Refrigerant			R-410A		
Power Supply			1 phase, 220-240/220 V, 50/60 Hz		
Airflow Rate & External Static Pressure (Ultra-high / High / Low) (Note 4)	Airflow	m <sup>3</sup> /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		
			2.8 / 3.2		
			4.5 / 5.0		
			5.6 / 6.3		
Dimensions (Height×Width×Depth)			mm		
			387 × 1,764 × 832		
			387 × 1,764 × 1,214		
Piping Connection	Liquid	mm	φ 6.4 (Flare)		
	Gas	mm	φ 12.7 (Flare)		
	Drain		PT3/4 External Thread		
Machine Weight			kg		
			92		
			113		
			115		
Unit Ambient Condition	Around Unit		0°C–40°CDB, 80%RH or less		
	OA (Note 5)		-15°C–40°CDB, 80%RH or less		
	RA (Note 5)		0°C–40°CDB, 80%RH or less		

- Notes: 1. Indoor temperature: 27°CDB, 19°CWB, Outdoor temperature: 35°CDB  
 2. Indoor temperature: 20°CDB, Outdoor temperature: 7°CDB, 6°CWB  
 3. The operating sound measured at the point 1.5 m below the centre of the unit is converted to that measured in an anechoic chamber built in accordance with the JIS C 1502 conditions. The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value.  
 For operation in a quiet room, it is required to take measures to lower the sound.  
 For details, refer to the Engineering Data.  
 4. Airflow rate can be changed over to Low mode or High mode.  
 5. OA: fresh air from outdoor. RA: return air from room.  
 6. Temperature exchange efficiency is the mean value for Cooling and Heating. Efficiency is measured under the following condition: Ratio of rated external static pressure outdoor to indoor is kept constant at 7 to 1.

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	BRC1H61W(K) / BRC1E63		
	PCB Adaptor	KRP2A61		
	Wiring adaptor for electrical appendices For heater control kit	BRP4A50		
Additional function	Silencer	—	KDDM24B100	
	Air suction / Discharge grille	Nominal pipe diameter	mm	φ 250
		White		K-DGL250C
	High efficiency filter	Nominal pipe diameter	mm	φ 200
				KAF242J80M
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	

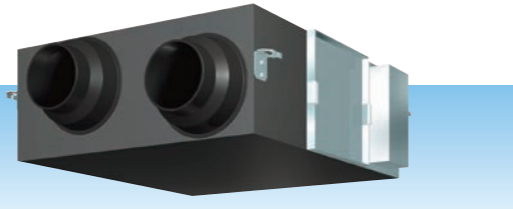
- \*1. Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When operating interlocked with other air conditioners, use the remote controllers of the air conditioners.  
 \*2. Refer to pages 178-180 for details.  
 • Please inquire concerning optional accessories not listed above.

# Air Treatment Equipment

## Heat Reclaim Ventilator

### VAM-GJ Series

Daikin VAM series ensures fresh air intake and energy savings

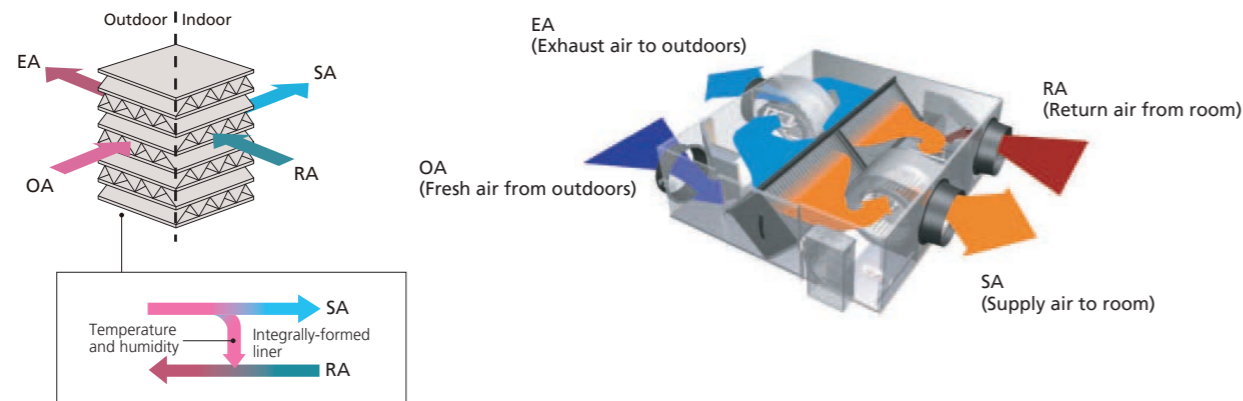


BRC301B61 (Option)  
Used in case of independent operation.

Lineup		
VAM150GJVE	VAM250GJVE	VAM350GJVE
VAM500GJVE	VAM650GJVE	VAM800GJVE
VAM1000GJVE	VAM1500GJVE	VAM2000GJVE

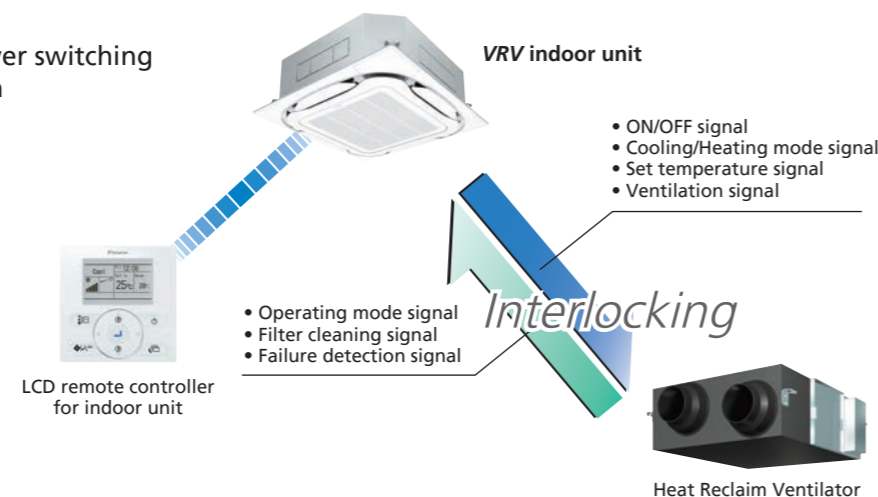
Airflow rate: 150-2,000 m<sup>3</sup>/h

### Heat recovery ventilation with simultaneous supply and exhaust



### Further energy-saving ventilation by interlocking with VRV indoor unit

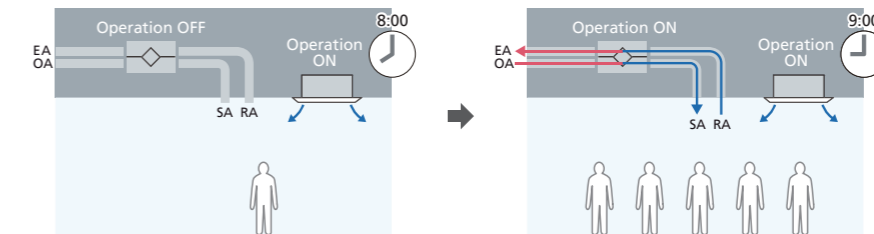
- Pre-cool, Pre-heat control
- Auto-ventilation mode changeover switching
- Nighttime free cooling operation



### Pre-cool, Pre-heat control

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

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

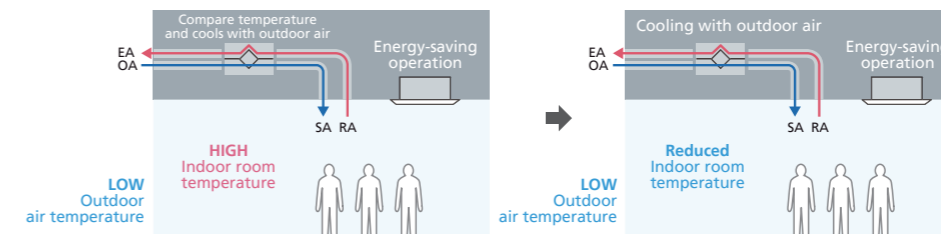


\* The delay time can be changed using field settings.

### Auto-ventilation mode changeover switching

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

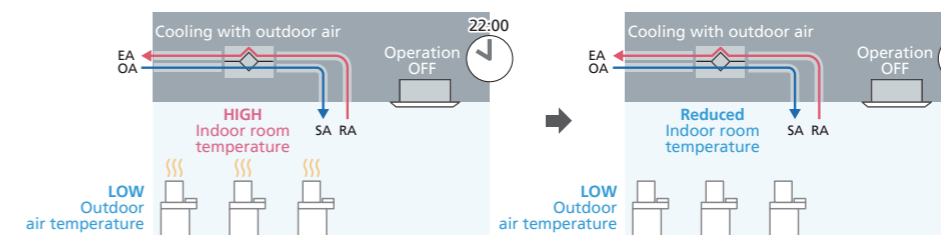
Indoor temperature and the outdoor temperature are detected, and the system automatically switches to the ventilation mode which has higher energy-saving effect.



### Nighttime free cooling operation

#### Efficient use of outdoor air at night.

Rise in indoor temperature is avoided by automatically cooling the outdoor air at night, thus reducing air conditioning load at the start of cooling operation on the next morning.



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

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

\* Refer to page 177 for details.

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)

\* Refer to page 178-180 for details.

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



# Air Treatment Equipment

## Heat Reclaim Ventilator

### Specifications

MODEL		VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE												
Power Supply		1-phase, 220-240 V/ 220 V, 50/60 Hz																				
Temp. Exchange Efficiency (50/60 Hz)	Ultra-High	79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77												
	High	79/79	75/75	79/79	74/74	75/75	72/72	78/78	72/72	77/77												
	Low	84/85	79/79	82/82	80/80.5	77/77.5	74/74.5	80.5/81	75.5/76	79/81												
Enthalpy Exchange Efficiency (50/60 Hz)	For Cooling	Ultra-High	66/66	63/63	66/66	55/55	61/61	61/61	64/64	61/61	62/62											
		High	66/66	63/63	66/66	55/55	61/61	61/61	64/64	61/61	62/62											
		Low	70/70.5	66/66	70/70	59/59.5	64/64.5	64/64.5	68.5/69	64/64.5	66/67											
	For Heating	Ultra-High	72/72	71/71	70/70	67/67	67.5/67.5	65/65	70/70	65/65	72/72											
		High	72/72	71/71	70/70	67/67	67.5/67.5	65/65	70/70	65/65	72/72											
		Low	76/76.5	74/74	77/77	74/74.5	71.5/72	67.5/68	72.5/73	67/67.5	76/76											
Power Consumption (50/60 Hz)	Heat Exchange Mode	Ultra-High	125/134	137/141	200/226	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542											
		High	111/117	120/125	182/211	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315											
		Low	57/58	60/59	122/120	128/136	196/207	435/483	476/512	835/927	966/1,039											
	Bypass Mode	Ultra-High	125/134	137/141	200/226	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542											
		High	111/117	120/125	182/211	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315											
		Low	57/58	60/59	122/120	128/136	196/207	435/483	476/512	835/927	966/1,039											
Sound Level (50/60 Hz)	Heat Exchange Mode	Ultra-High	27-28.5/28.5	27-29/29	31.5-33/33	33-35.5/34	34-36/36	39-40.5/39.5	39.5-41.5/39.5	39.5-41.5/41.5	41.5-43.5/42											
		High	26-27.5/27.5	26-27.5/28	30-31.5/30	31.5-34/32	33-34.5/34	37-39.5/37.5	37.5-39.5/37.5	37.5-39.5/39.5	39-43/40											
		Low	20.5-21.5/21	21-22/21	23-25/23	25-28.5/24	27.5-29.5/28	35-37.5/34	35-37.5/34.5	35-37.5/36	36-39/39											
	Bypass Mode	Ultra-High	28.5-29.5/29.5	28.5-30.5/30.5	33-34.5/34.5	34.5-36/35.5	35-37.5/37.5	40.5-42/41	40.5-42.5/40.5	41-43/42.5	43-45.5/44											
		High	27.5-28.5/28.5	27.5-29/29.5	31.5-33/31.5	33-34.5/33.5	33-35.5/35.5	38.5-40/39	38.5-40.5/38.5	39.5-41/41.5	40.5-45/42											
		Low	22.5-23.5/22	22.5-23/22.5	24.5-26.5/24.5	25.5-28.5/25.5	27.5-30.5/29.5	36-38.5/35.5	36-38.5/35.5	36.5-38/37.5	37.5-39.5/41											
Casing		Galvanised steel plate																				
Insulation Material		Self-extinguishable polyurethane foam																				
Dimensions (H x W x D)	mm	278 x 810 x 551			306 x 879 x 800			338x973x832			387x1,111x832			387x1,111x1,214			785x1,619x832			785x1,619x1,214		
Machine Weight	kg	24			32			45			55			67			129			157		
Heat Exchange System		Air to air cross flow total heat (Sensible heat+latent heat) exchange																				
Heat Exchange Element Material		Specially processed nonflammable paper																				
Air Filter		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	100/95	155/155	230/230	320/295	500/470	700/670	860/840	1,320/1,260	1,720/1,580											
	External Static Pressure (50/60 Hz)	Ultra-High	120/154	70/96	169/222	105/150	85/125	133/170	168/192	112/150	116/140											
		High	106/131	54/65	141/145	66/52	53/67	92/85	110/86	73/72	58/32											
Low		56/60	24/20	67/30	32/18	35/38	72/61	85/60	56/50	45/45												
Motor Output	kW	0.030 x 2			0.090 x 2			0.140 x 2			0.280 x 2			0.280 x 4								
Connection Duct Diameter	mm	φ 100			φ 150			φ 200			φ 250			φ 350								
Unit ambient condition		-15°C~50°CDB, 80%RH or less																				

- Notes: 1. Airflow rate can be changed over to Low mode or High mode.  
 2. Temperature Exchange Efficiency is the mean value between cooling and heating.  
 3. Efficiency is measured under the following conditions:  
 Ratio of rated external static pressure has been maintained as follows; outdoor side to indoor side = 7 to 1.  
 4. In conformance with JIS standards (JIS B 8628), operating sound level is based on the value when one unit is operated, with the value converted for an anechoic chamber. This is transmission sound from the main unit, and does not include sound from the discharge grille. Thus it is normal for the sound to be louder than the indicated value when the unit is actually installed.

### Options

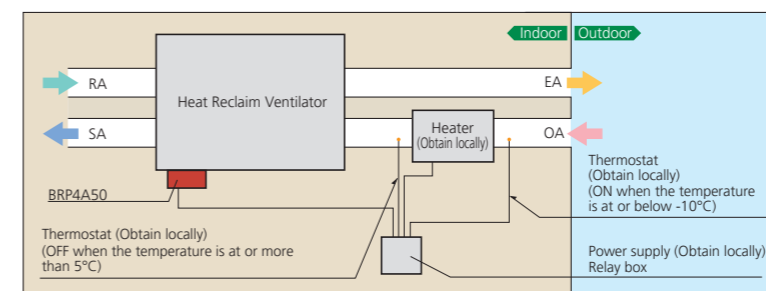
#### Option List

Item	Type	VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE	
Additional function	Silencer	—			KDDM24B50		KDDM24B100		KDDM24B100x2		
	Nominal pipe	—			φ 200		φ 250		φ 250		
	High efficiency filter	KAF242J25M			KAF242J50M		KAF242J65M		KAF242J80M		
Air filter for replacement		KAF241J25M			KAF241J50M		KAF241J65M		KAF241J80M		
		KAF241J100Mx2			KAF241J100M		KAF241J100M		KAF241J100Mx2		
Flexible duct (1 m)		K-FDS101D	K-FDS151E		K-FDS201E		K-FDS251E		K-FDS252E		
Flexible duct (2 m)		K-FDS102D	K-FDS152D		K-FDS202D		K-FDS252E		K-FDS252E		
Silencer	Nominal pipe	—			—		—		YDFA25A1 φ 250		
CO <sub>2</sub> sensor		BRYMA65			BRYMA100		BRYMA65		BRYMA100		
PM2.5 filtration unit*		BAF249A150	BAF249A300	BAF249A350	BAF249A500	—		BAF429A20A			
PM2.5 with activated carbon filtration unit*		BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C	—		BAF429A20AC			
Navigation remote controller		BRC1E63									
Heat Reclaim Ventilator remote controller		BRC301B61									
Controlling device	Residential central remote controller	DCS303A51*1									
		DCS302CA61									
	Centralised controlling device	DCS301BA61									
		DST301BA61									
PCB Adaptor	Wiring adaptor for electrical appendices	KRP2A61									
	For humidifier	KRP50-2									
	Installation box for adaptor PCB	KRP50-2A90 (Mounted electric component assy of Heat Reclaim Ventilator)									
	For heater control kit	BRP4A50									

\*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.  
 \*Refer to pages 178 - 180 for details.

#### PCB adaptor for heater control kit (BRP4A50)

When the installation of an electric heater is required in a cold region, this adaptor with an internal timer function eliminates the complicated timer connecting work that was necessary with conventional heaters.



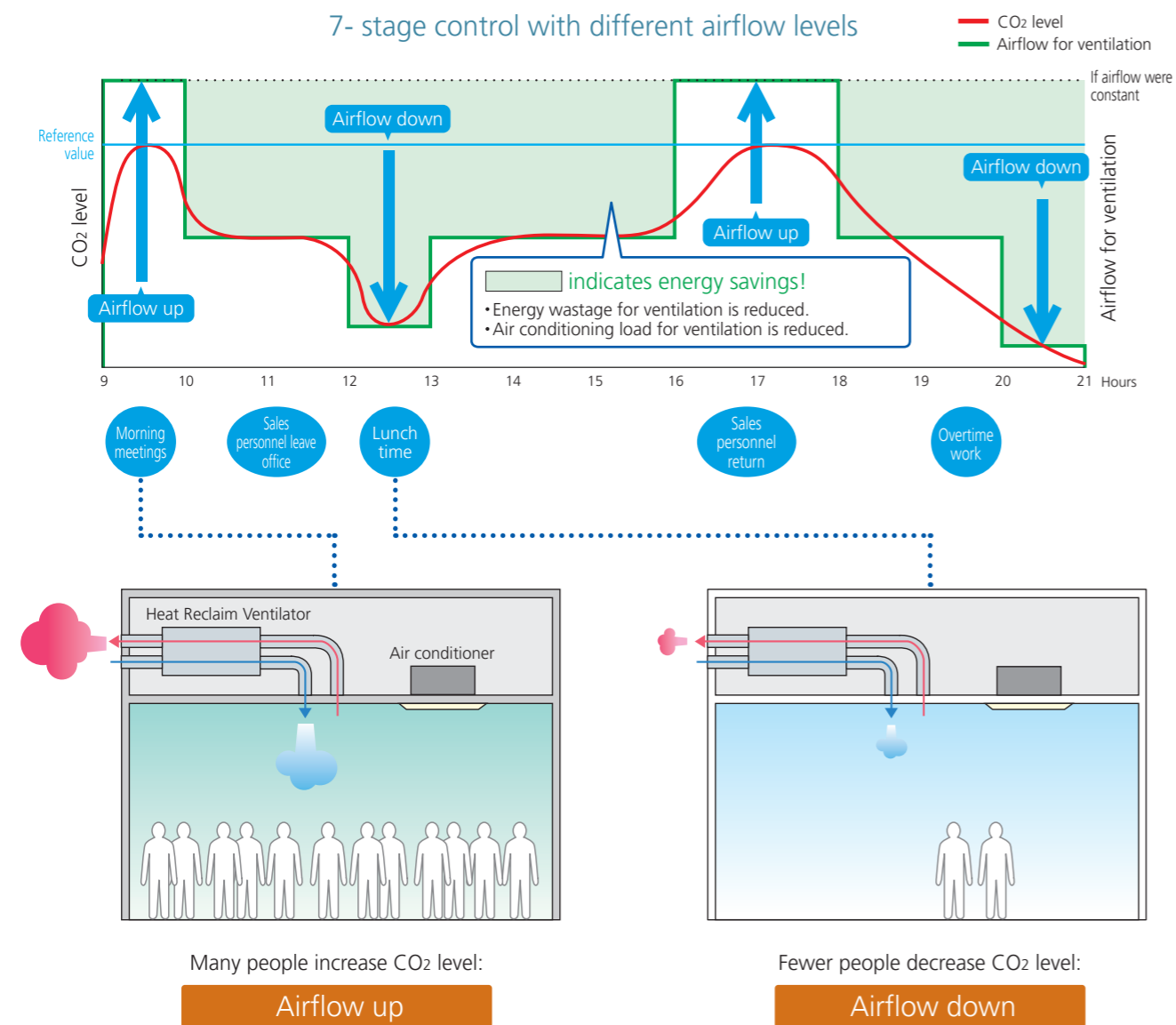
- Notes when installing :
- Examine fully an installation place and specification for using the electric heater based on the standard and regulation of each country.
  - Supply the electric heater and safety production devices such as a relay and a thermostat, etc of which qualities satisfy the standard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

# Air Treatment Equipment

## CO<sub>2</sub> Sensor Optional Kit Connection for VAM / VKM Series

The CO<sub>2</sub> sensor controls airflow 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:



## PM<sub>2.5</sub> filtration unit (Option) for VAM / VKM / FXMQ-MF series

Rapid urbanization has increased industrial and automobile emissions, resulting in higher PM<sub>2.5</sub> 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 PM<sub>2.5</sub> on the health of the general public.

### Double-layered efficient filtration

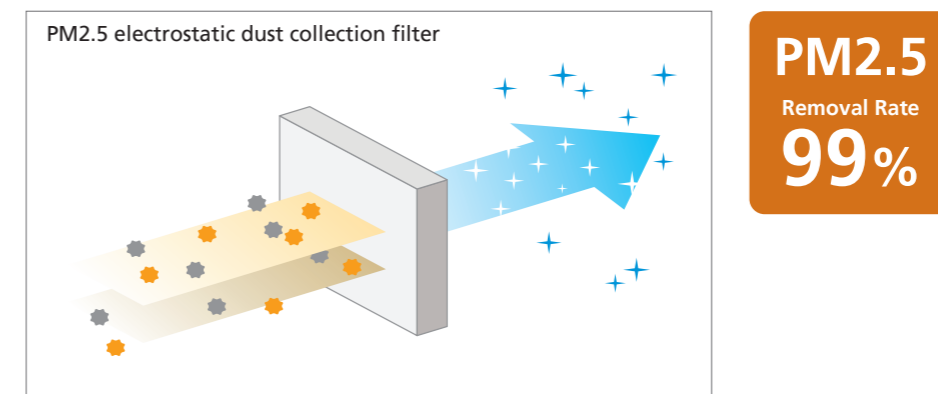
PM<sub>2.5</sub> filters are double-layered.

1. The front filter effectively removes large particles.
2. The PM<sub>2.5</sub> filter layer contains a large amount of static electricity to capture particulate matter efficiently.



### Filtering PM<sub>2.5</sub> efficiently for healthier and more comfortable environments

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



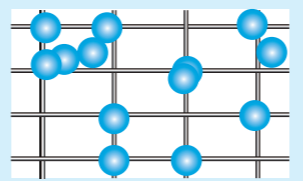
\*Test results by the Heating, Ventilation and Air Conditioning Lab at Tongji University  
 Test environment: temperature 25-26°CDB, humidity 58-60%RH

# 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

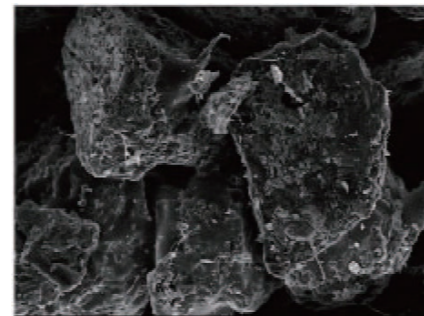
## PM2.5 with activated carbon filtration unit (Option) for VAM / VKM / FXMQ-MF series

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.

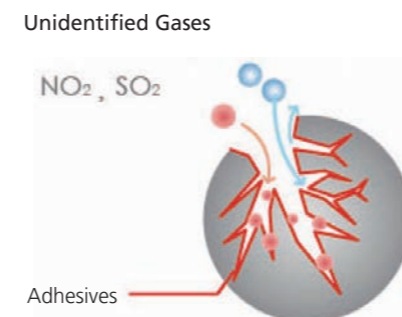
Notes: Surface area of active carbon: 700 m<sup>2</sup>/g  
Given a newspaper page of 40.6 cm wide by 54.6 cm long, each gram of active carbon has a surface area of 3,000 newspaper pages.



### 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.



## 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			
			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



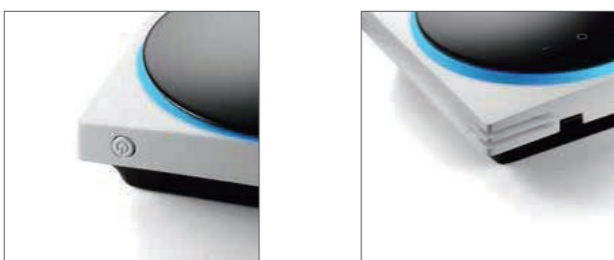
BRC1H61W (White)      BRC1H61K (Black)

A complete redesigned controller focused to enhance user experience



**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**

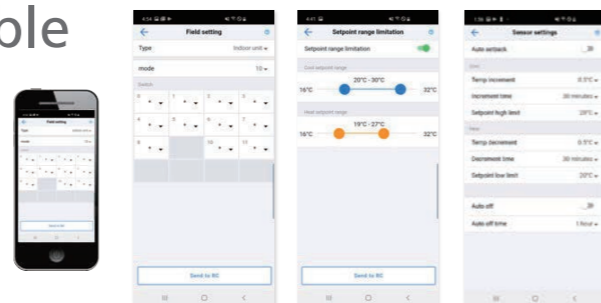
- Just three buttons and a large-figure display
- Customisable display
- Direct access to basic functions (ON/OFF, Operation mode, Temperature setting, Airflow rate, Airflow direction)



**Easy setting via Bluetooth App with smartphone (for Installer / Facility manager)**

## Keep hotel room comfortable

- Improved setback function by setting the lower temperature limit in cooling mode.



<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

■ **Navigation remote controller (Wired remote controller) (Option)**



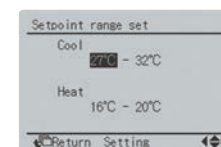
BRC1E63

A series of user friendly functions that can be individually selected

**Energy saving**

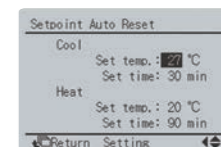
**Setpoint range set**

- 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.

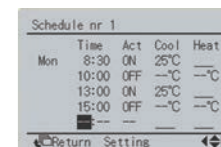
**Convenience**

**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.

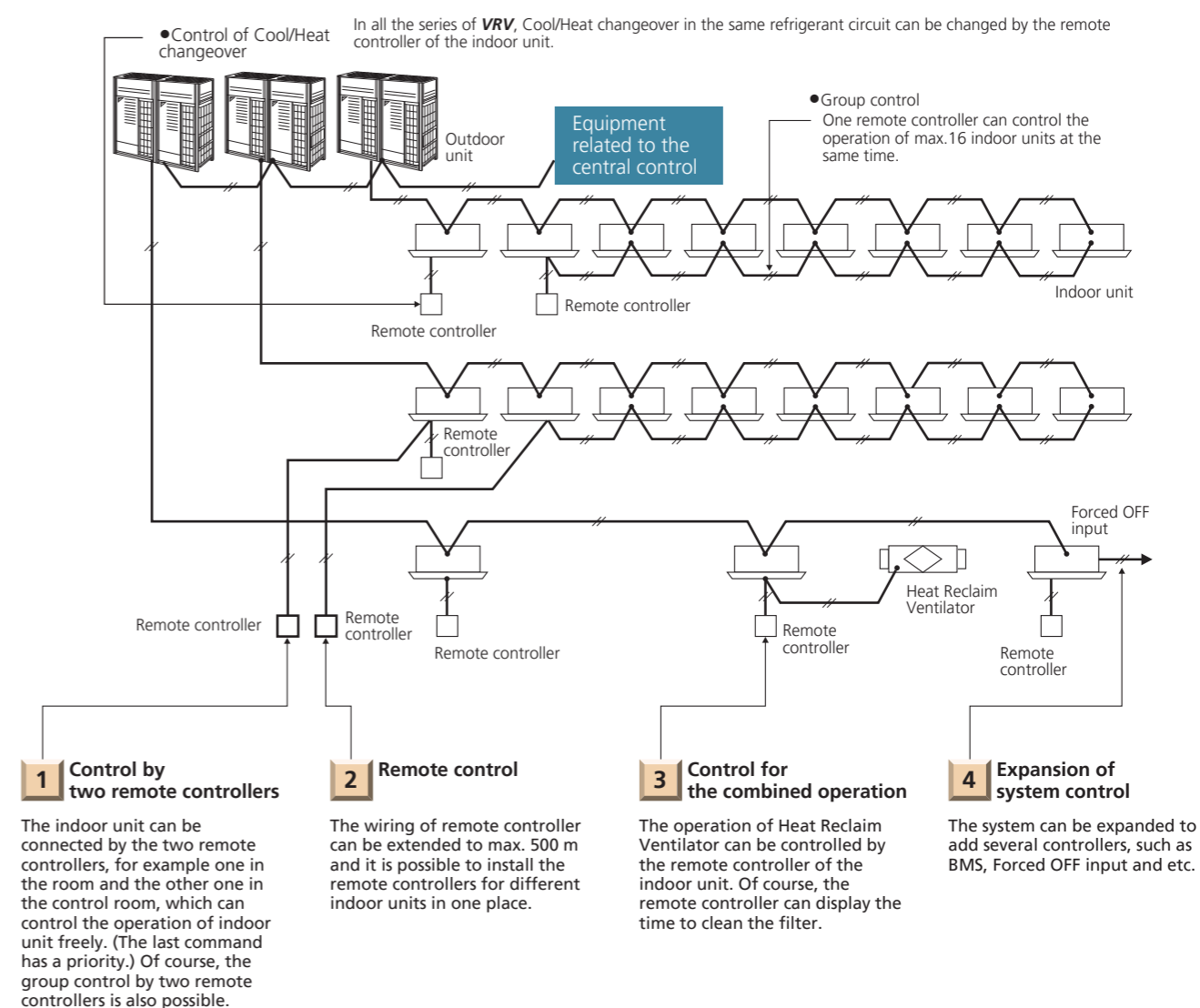
\* Wireless remote controller and signal receiver unit are sold as a set.  
\* Refer to page 211 for the name of each model.

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

MODEL	FXFSQ	FXFQ	FXZQ	FXCQ	FXKQ	FXDQ	FXSQ	FXMQ	FXHQ	FXAQ	FXL(N)Q	FXVQ	FXB(P)Q
Stylish remote controller (BRC1H61W / BRC1H61K)	●	●	●	●	●	●	●	●	●	●	●	●	●
Navigation remote controller (BRC1E63)	●	●	●	●	●	●	●	●	●	●	●	●	●
Simplified remote controller (BRC2E61)		●	●	●	●	●	●	●	●	●	●	●	●
Wireless remote controller* (Installed type signal receiver unit)	●	●	●	●					●	●			
Wireless remote controller* (Separate type signal receiver unit)					●	●	●	●			●		●

\*Refer to page 211 for the name of each model.

### The wired remote controller supports a wide range of control functions



# Control Systems

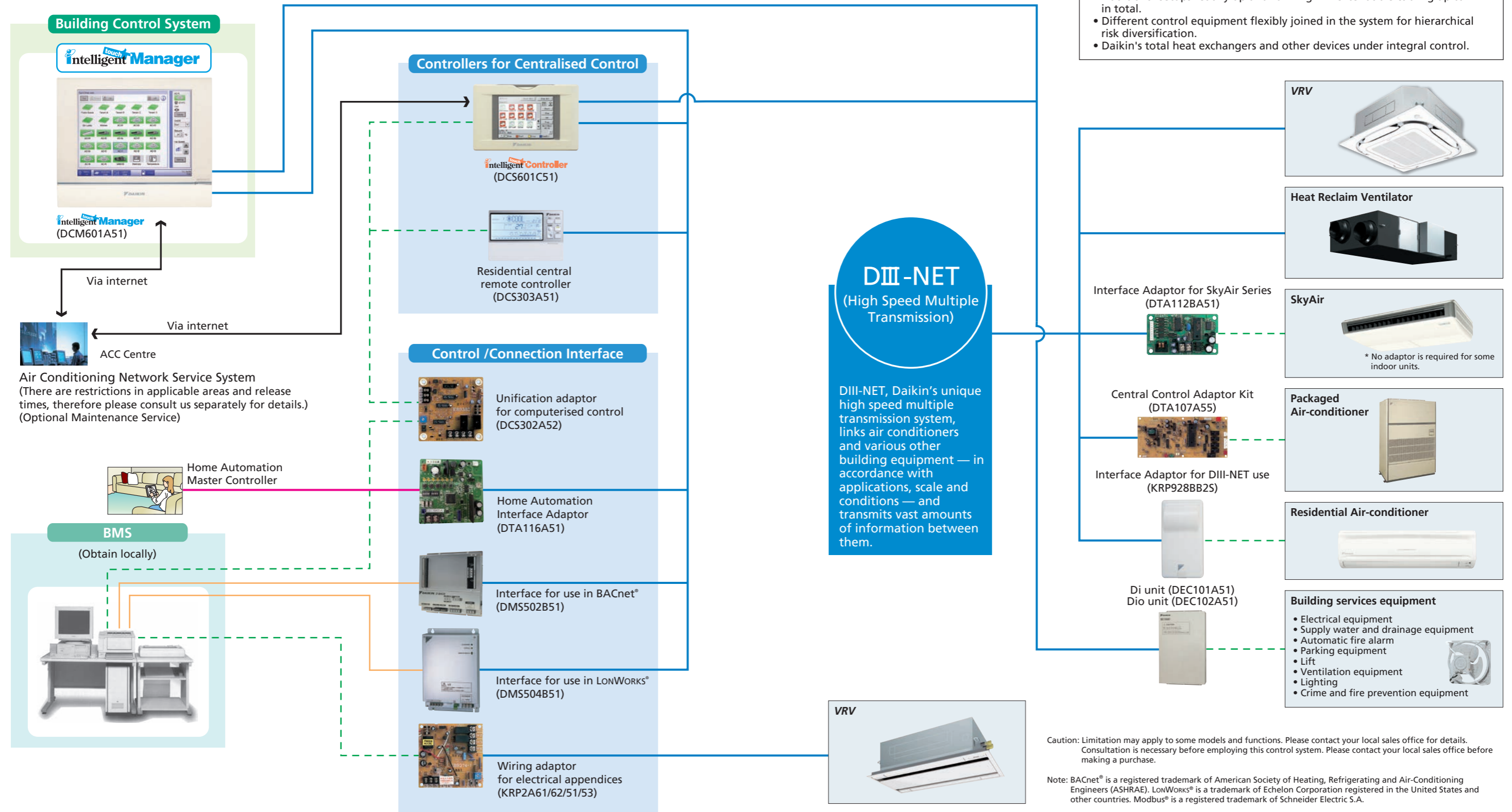
## Integrated building monitoring system

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

- DIII-NET Line
- BACnet®/Ethernet or LONWORKS® Network Communication Line
- - - Contact Signal Line
- RS485 Modbus® Line

### The DIII-NET system provides for:

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



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

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

# Control Systems

## Advanced control systems for VRV systems



**Intelligent Manager**

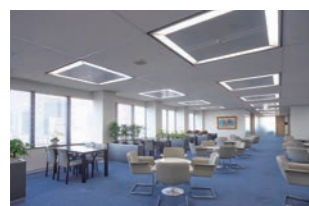
DCM601A51

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.

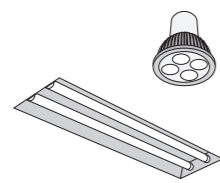
#### Individual air-conditioning control

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



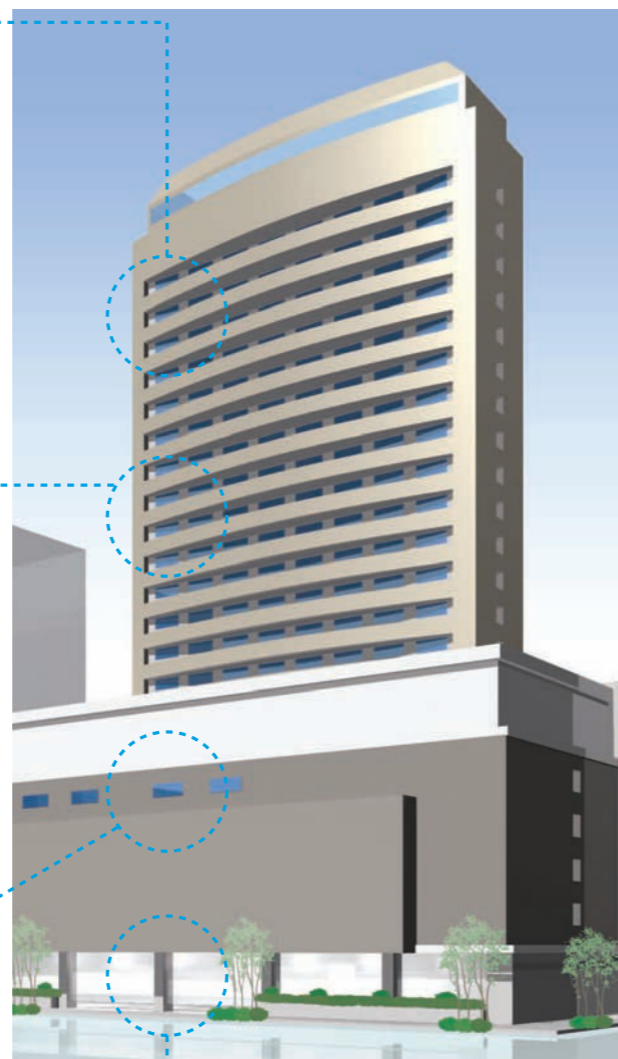
#### Lighting control **DALI-compatible**

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



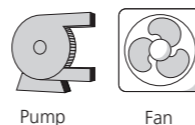
#### Air-conditioning control for large spaces

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.

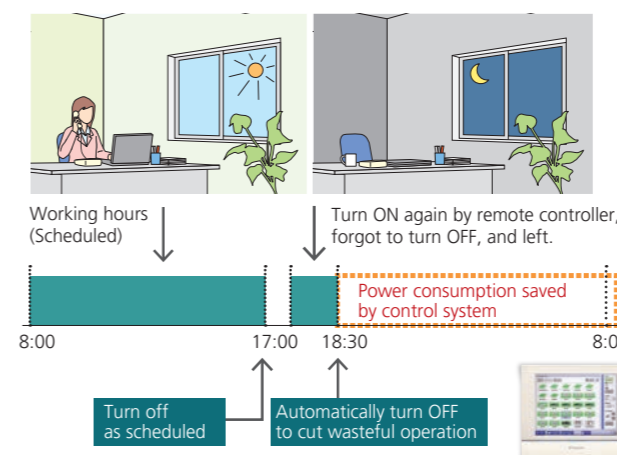
It can manage a total of 650 management points consisting of up to 512 Daikin indoor unit groups (up to 1024 indoor units) along with building equipment control / monitoring with Digital Inputs / Output (Di/Dio), Analog Inputs / Output (Ai/Ao) and Pulse input (Pi) optional devices.

Schedule the operation time for each application.



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

Turn the unit OFF if a user didn't.



**New** 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 cut-off
- Indoor unit: Set temperature shift, Forced thermostat OFF

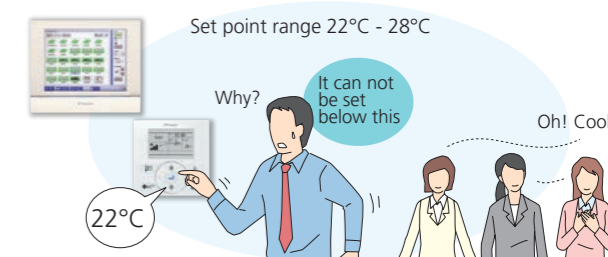


Define the setpoint range that users can change.

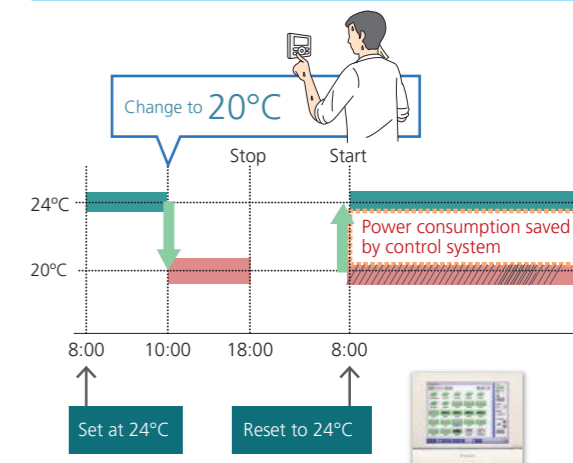
With Remote controller



With Control System



Reset setpoint regularly.



## 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.

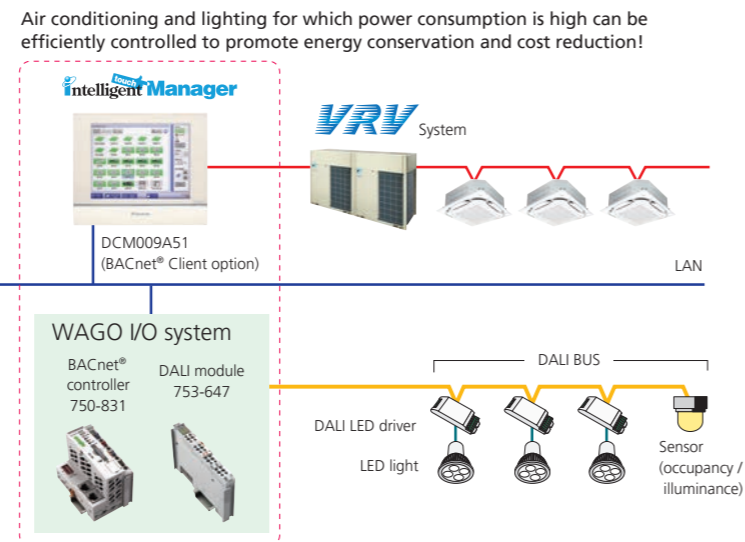
### Lighting control achieved by the *intelligent Touch Manager*

#### [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

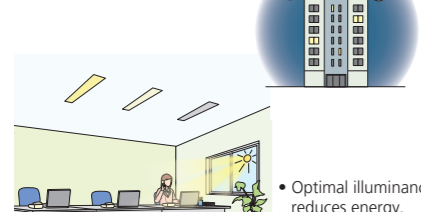
- Up to 5 DALI modules can be connected to a single BACnet® controller.
- Up to 64 DALI LED drivers (64 addresses) can be connected to a single DALI module.
- 64 DALI addresses can be freely assigned to up to 16 groups using a single DALI module. (Each group corresponds to a management point of the *intelligent 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.

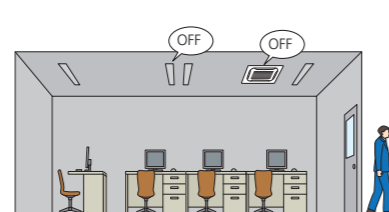
- Failing to switch off lights is prevented.



- Optimal illuminance reduces energy.

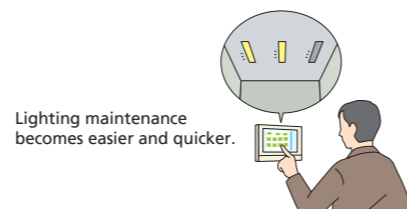
### Case 2

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)

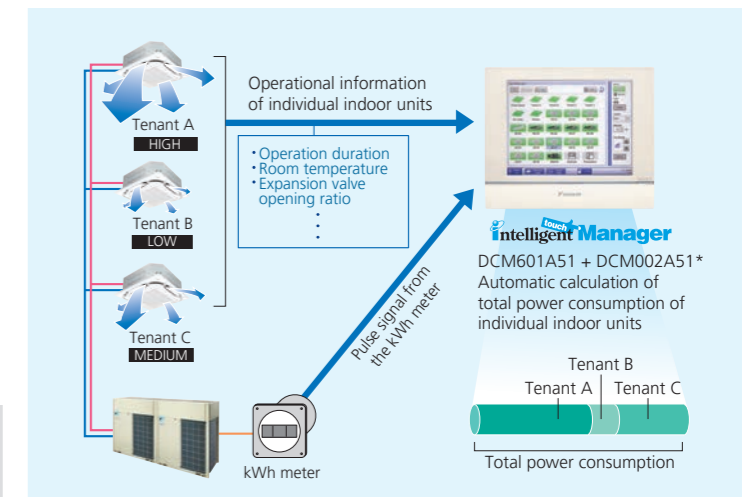
The energy consumption is proportionally calculated for each indoor unit. The data can be used for energy management and calculation of air conditioning usage fees for respective tenants.

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.

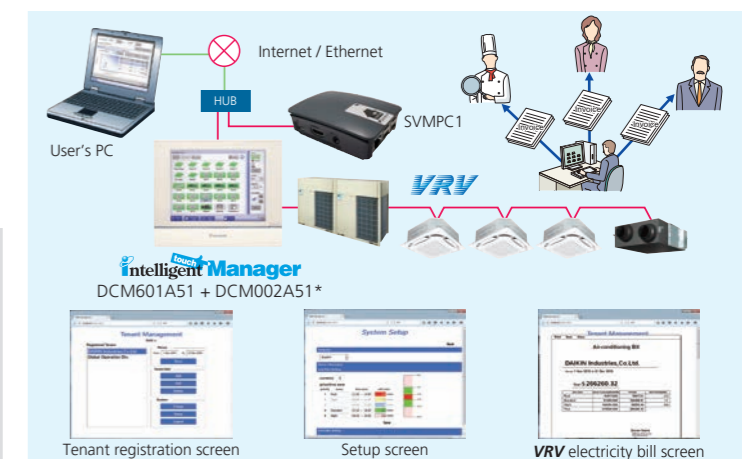
### Air conditioning bills can be issued by one click (PPD\* Option)

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 WiFi.

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

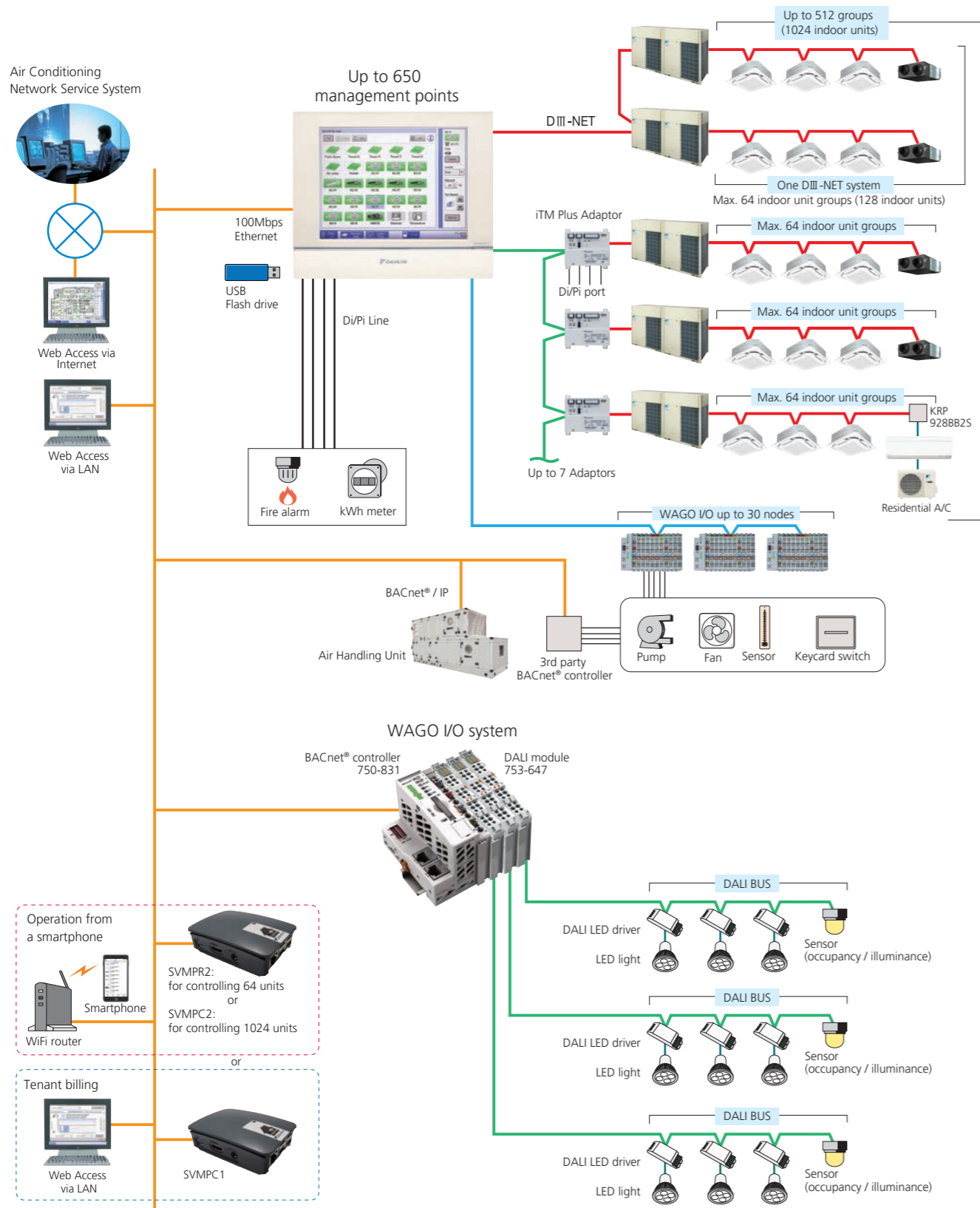
Up to 1024 indoor units can be controlled.

Just add SVMPC2 to this system





## intelligent Touch Manager system overview



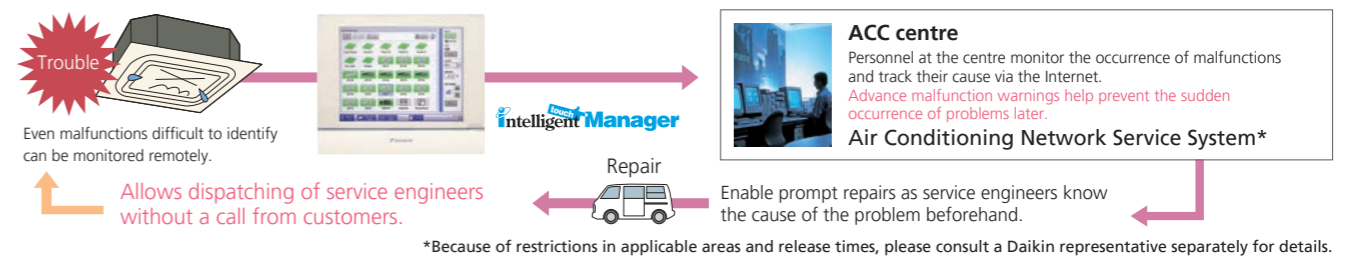
### Air conditioning network service system

#### 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

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

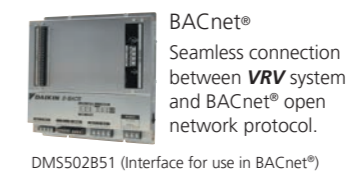
#### Ease of use and expanded control functions

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



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

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



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



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

Dedicated interfaces make Daikin air conditioners freely compatible with open networks

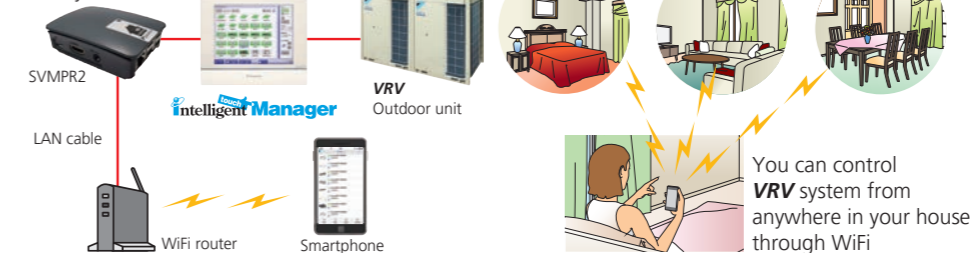
Notes: 1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).  
2. LONWORKS® is a trademark of Echelon Corporation registered in the United States and other countries.

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

#### For house VRV Smartphone Control System

Up to 64 indoor units can be controlled.

Just add SVMPR2 to this system

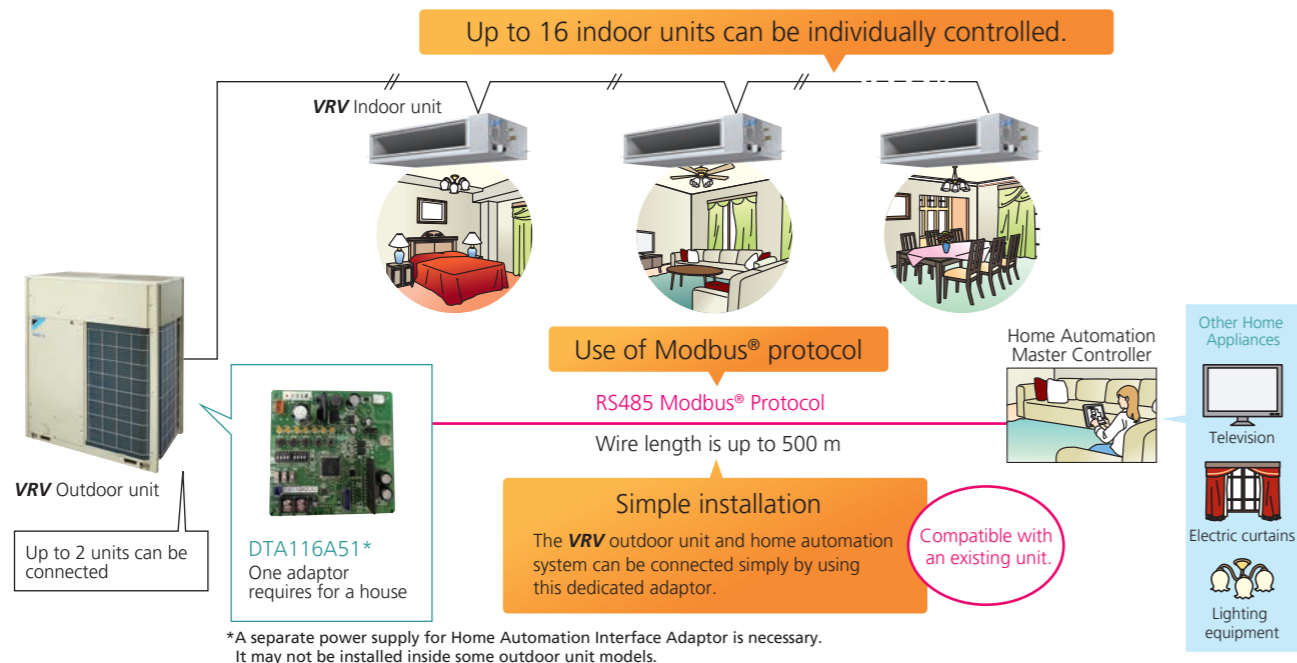


# Control Systems

## Home automation interface adaptor

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

Image to use home automation interface adaptor DTA116A51



### Functions Monitor

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

### Control

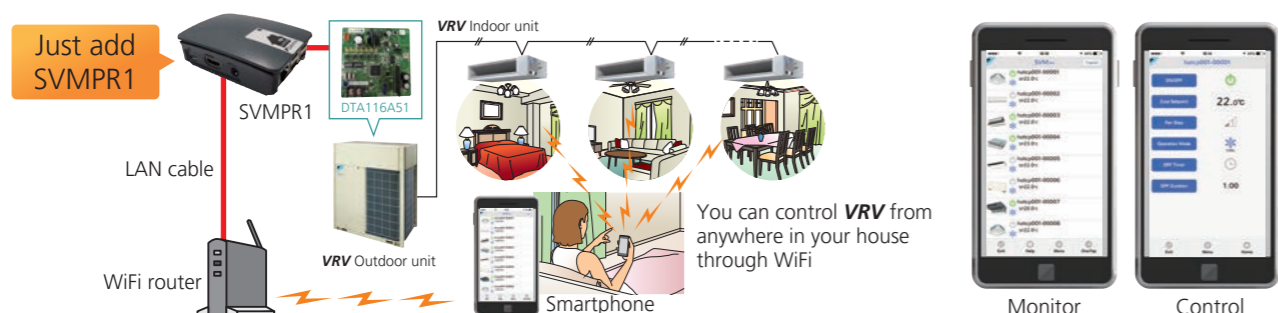
On/Off	On/Off control of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Cooling/Heating setpoint
Fan direction	Swing, Stop, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Filter sign reset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

### Retrieve system information

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

## VRV Smartphone Control System

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



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

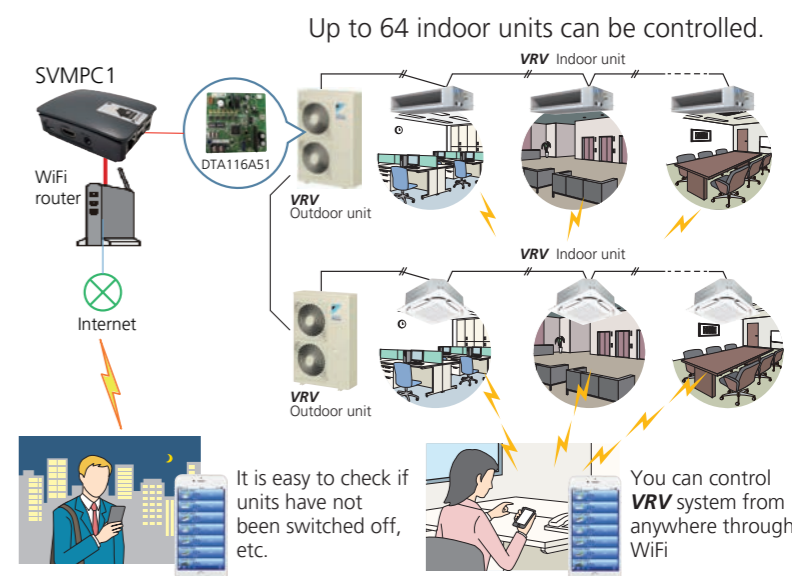
## VRV tablet and smartphone controller: SVMPC1

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

### Simple and easy smart control

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

- Set point range limitation and setback function achieve energy saving and comfortable air-conditioning.
- Daily air-conditioning operation is automatically done by schedule function with annual calendar.
- Quick notification of malfunction by e-mail to support quick maintenance.



### Functions

Category	Function	Detail
Main screen	Status monitoring	On/Off, Setpoint, Operation mode, Fan step, Flap, Error, Error code, Room Temperature
	Manual operation	On/Off, Setpoint, Operation mode, Fan step, Flap, Scene Control
Automatic control	Setpoint range limitation*	Cool setpoint min/max, Heat setpoint min/max
	Off timer*	Off timer on/off, Off timer duration (5min – 12h, every 5min)
	Setback operation*	Setback setpoint range (Cool: 24-35°C, Heat: 10-20°C)
	Schedule*	Action registration: Time, On/Off, Setpoint, Operation mode, Fan step, Flap, Off timer on/off, Setback setpoint Calendar setting: set by date or day of the week
System setting	Interlock	Interlock operation depend on equipment status
	System setting	Language, Password setting, User administration*, Point setting*

\* Only admin user can set.

### Specifications

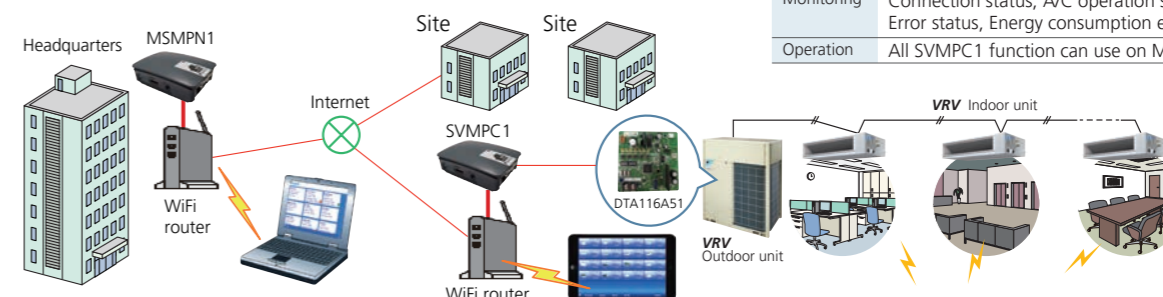
Category	Specification	Detail
Connectable units	Number of indoor units	Max 64
	Number of DTA116A51	Max 1
Connectable device	Number of Tablet/Smartphone	Max 20
	Device type	iPad, iPhone, Android tablet, Android Phone, Windows Tablet, Windows Phone, Windows PC, Mac
	Web browser	Firefox, Chrome, Safari

## Multi site management system by using SVMPC1: MSMPN1

The MSMPN1 enables monitoring and operation of all VRV system connected via SVMPC1 on each site.

### Function

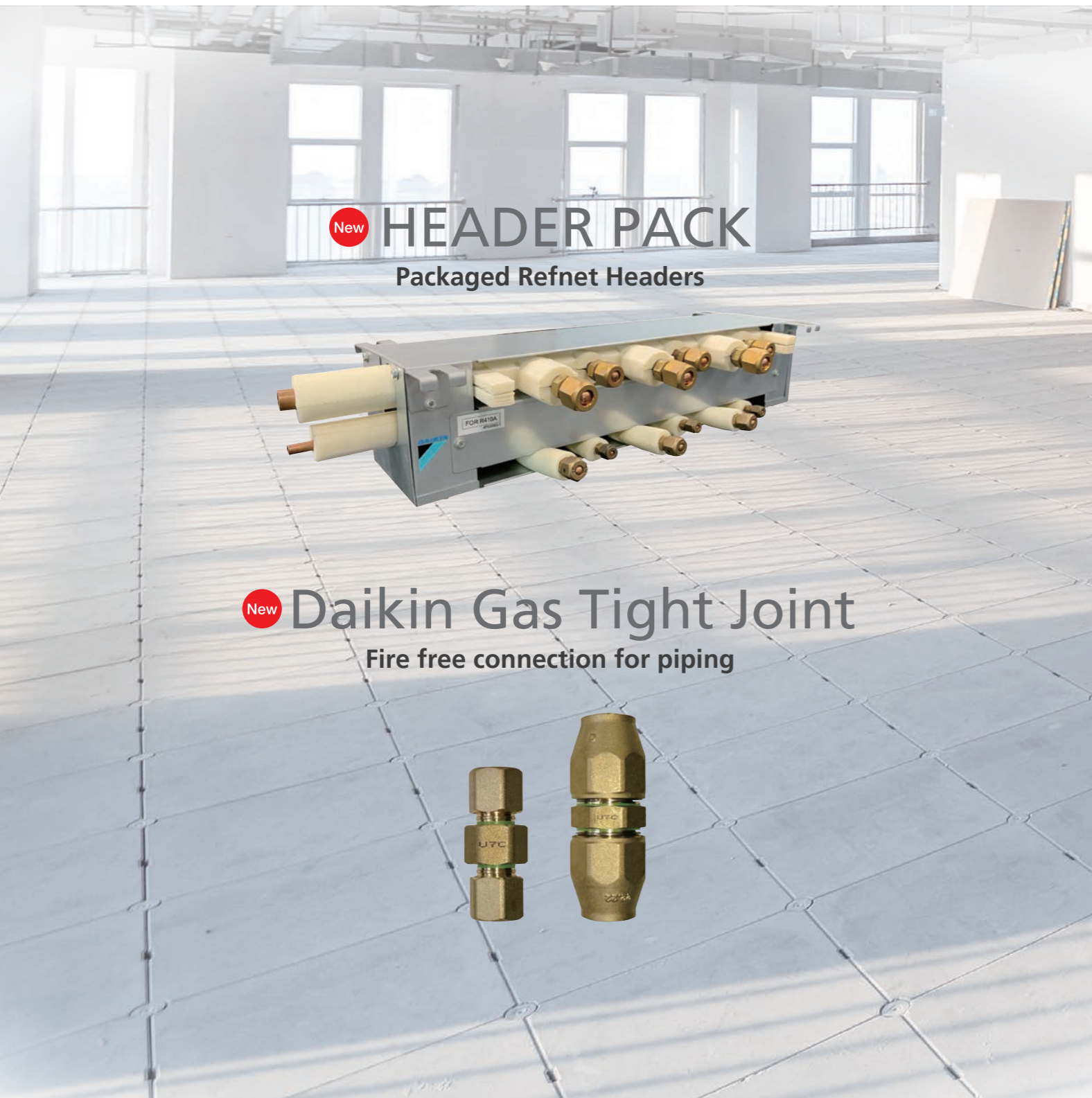
Monitoring	All site information show on a MSM screen. Connection status, A/C operation status, Error status, Energy consumption etc.
Operation	All SVMPC1 function can use on MSM screen.



# Precision Piping Method

## ■ Non-brazing / Save installation time

Pipes can be joined easily & quickly without brazing and any special tools.

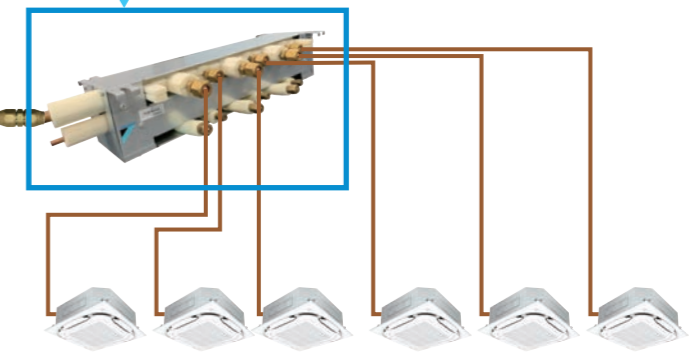


## ■ A smarter way to connect refrigerant piping



**HEADER PACK**

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



**Daikin Gas Tight Joint**

- ✓ Safe connection without a flame (in brazing work)
- ✓ Time saver with easy fitting installation
- ✓ Less labour intensive

### Innovative problem solving for VRV refrigerant piping installation

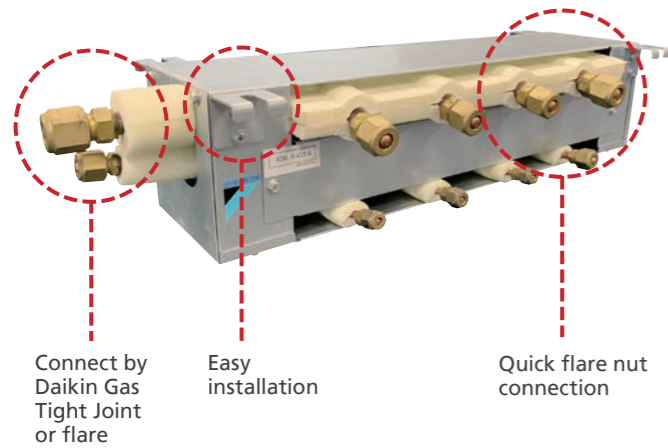
Reliability improvement	Installation improvement	Safety improvement
Easy piping installation that anyone can do	Faster work with simplified installation using basic tools	Flameless installation without welding for safe, worry-free work

# Precision Piping Method

## HEADER PACK Simple & Quick!

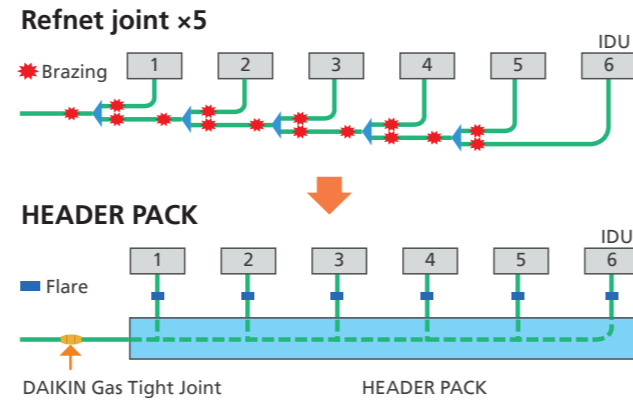
### Suitable luxions residence

Easy piping connection / Easy installation



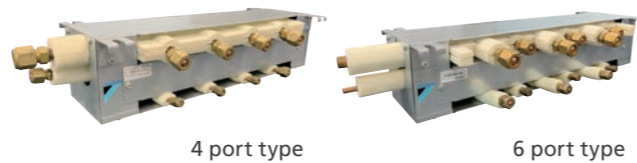
Connect by Daikin Gas Tight Joint or flare  
Easy installation  
Quick flare nut connection

Reduction of connection points by elimination of refnet joints



- Installation time saving ⇒ 1/3 of conventional
- Easy to install ⇒ No brazing work
- Safety ⇒ No fire in the building
- Space saving ⇒ Low silhouette only 14 cm height

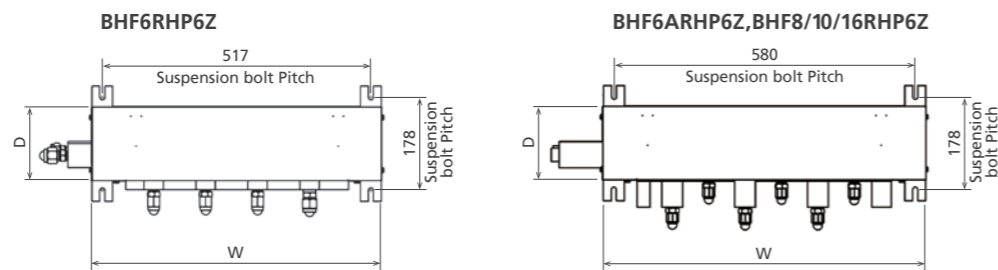
- Connectable up to 4 & 6 IDU



### HEADER PACK Lineup

HP (VRV System)	Model name	Outdoor unit side Liquid / Gas (mm)	Indoor unit side (Flare)		Indoor unit total capacity index	Dimension (mm)		
			Port	Liquid / Gas (mm)		H	D	W
6	BHF6RHP6Z	9.5 / 15.9 (Flare)	4	Large x1 Small x3	< 150	135	143	559
				φ9.5 / φ 15.9 φ6.4 / φ 12.7				
6	BHF6ARHP6Z	9.5 / 15.9 (Flare)	6	Large x2 Small x4	< 150	135	143	623
				φ9.5 / φ 15.9 φ6.4 / φ 12.7				
6 · 8	BHF8RHP6Z	9.5 / 19.1 (Daikin Gas Tight Joint)	6	Large x3 Small x3	< 200	135	143	623
				φ9.5 / φ 15.9 φ6.4 / φ 12.7				
10	BHF10RHP6Z	9.5 / 22.2 (Daikin Gas Tight Joint)	6	Large x3 Small x3	< 290	135	143	623
				φ9.5 / φ 15.9 φ6.4 / φ 12.7				
12 · 14 · 16	BHF16RHP6Z	12.7 / 28.6 (Daikin Gas Tight Joint)	6	Large x3 Small x3	< 420	135	143	623
				φ9.5 / φ 15.9 φ6.4 / φ 12.7				

### Dimensions (Top view)

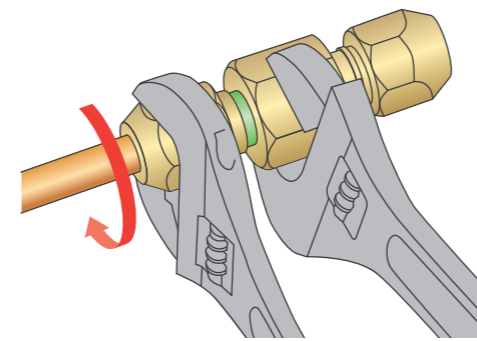


## Daikin Gas Tight Joint

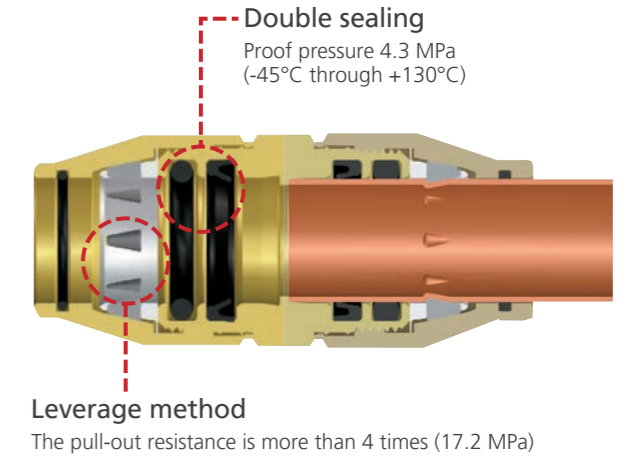
### Evolutionally advanced feature

Easy installation

No need for brazing tools or installation skills  
Quick piping anyone can do with two spanners



Excellent sealing mechanism



### Authorised standards

#### ISO 14903

Certification of international standards Proof of safety and reliability

#### SGBP (Singapore Green Building Council)

- Certificate Number SGBP 2019-2405
- Green Mark compatible products



### Matching for various piping sizes

Standard joints (Connecting the same pipes)

Figure	MODEL	Dimension (mm)			Weight / PC (g)
		ND	AF	L	
	BDGTA06	φ 6.4	19.0	46.2	106
	BDGTA09	φ 9.5	22.0	51.4	139
	BDGTA12	φ 12.7	23.8	82.3	170
	BDGTA15	φ 15.9	29.7	82.8	236
	BDGTA19	φ 19.1	35.0	85.5	327
	BDGTA22	φ 22.2	38.0	93.5	401
	BDGTA28	φ 28.6	45.0	99.5	546
	BDGTA34	φ 34.9	51.1	101.5	686
	BDGTA41	φ 41.3	58.3	103.5	881

Asymmetry joints (Connecting different size pipes)

Figure	MODEL	Dimension (mm)					Weight / PC (g)
		ND1	ND2	AF1	AF2	L	
	BDGTA1209	φ 12.7	φ 9.5	24.0	22.0	62.4	158
	BDGTA1512	φ 15.9	φ 12.7	29.7	23.8	83.2	220
	BDGTA2219	φ 22.2	φ 19.1	38.0	35.0	87.4	362
	BDGTA2825	φ 28.6	φ 25.4	45.0	41.8	94.4	510

# Option List

## Outdoor units



No.	Type		Item			
			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)	RXUQ18AM1(W) RXUQ20AM1(W) RXUQ22AM(W)
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)			
		REFNET joint	KHRP26A22T, KHRP26A33T			
2	Outdoor unit multi connection piping kit		—		BHFP22P100	

No.	Type		Item			
			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)			
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP			
3	Outdoor unit multi connection piping kit		BHFP22P100		BHFP22P151	

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



### Option PCB

No.	Type		Item			
			RXUQ6A(W) RXUQ8A(W)	RXUQ10A(W) RXUQ12A(W) RXUQ14A(W) RXUQ16A(W) RXUQ18A(W) RXUQ20A(W)	RXUQ12AM(W) RXUQ14AM(W) RXUQ16AM(W) RXUQ18AM1(W) RXUQ20AM1(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.	Type		Item			
			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			

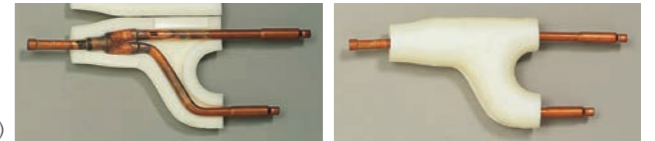
Note: \*1. This plate is necessary for each adaptor marked★.



No.	Type		Item			
			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)			
		REFNET joint	KHRP26A22T, KHRP26A33T			
2	Outdoor unit multi connection piping kit		—		BHFP22P100	

No.	Type		Item			
			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)			
		REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T			
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP			
3	Outdoor unit multi connection piping kit		BHFP22P100		BHFP22P151	

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



### Option PCB

No.	Type		Item			
			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.	Type		Item			
			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★.

## Outdoor units

### VRV S High Seasonal Efficiency SERIES

No.	Item	Type	RSUQ4A	RSUQ5A	RSUQ6A	RSUQ7A	RSUQ8A	RSUQ9A
1	Header pack		BHF6RHP6Z, BHF6ARHP6Z, BHF8RHP6Z					
2	REFNET header		KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)					
3	REFNET joint		KHRP26A22T			KHRP26A22T, KHRP26A33T		
4	Drain plug		BKP082A41					
5	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			BKS26C		

### 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	Central drain plug		KKPJ5G280		
5	Fixture for preventing overturning		KKT5B112		

## Outdoor units

### 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

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	
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			
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

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			
2	Pipe size reducer		KHRP26M73TP, KHRP26M73HP			
3	Outdoor unit connection piping kit		BHFP22P100		BHFP22P151	

# Option List

## 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
2	Outside unit multi connection piping kit			—	BHFP22MA56	BHFP22MA84
3	External control adaptor				DTA104A62	
4	Strainer kit				BWU26A15, BWU26A20	

## VRV WS SERIES

No.	Item		Type	RWXQ4A	RWXQ5A	RWXQ6A
1	Distributive piping	REFNET header			KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	
		REFNET joint			KHRP26A22T	

## 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
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	
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			
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

## Outdoor units

### 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
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	KHRP26M73TP, KHRP26M73HP
2	Pipe size reducer				
3	Outdoor unit multi connection piping kit			BHFP22P100	
4	Hot water controller box			BRCM82	
5	Hot water remote controller			BRC582	

No.	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			
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
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		
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	
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 indoor units

### Round Flow Cassette with Sensing Type

No.	Item	Type	FXFSQ25A FXFSQ32A FXFSQ40A	FXFSQ50A FXFSQ63A FXFSQ80A	FXFSQ100A FXFSQ125A FXFSQ140A
1	Decoration panel	Standard panel with sensing	Fresh white	BYCQ125EEF	
			Black	BYCQ125EEK	
		Standard panel	Fresh white	BYCQ125EAF *	
			Black	BYCQ125EAK *	
Designer panel <sup>1</sup>	Fresh white	BYCQ125EAPF *			
	Auto grille panel <sup>2,3</sup>	Fresh white	BYCQ125EASF *		
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		KDB55160F		
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		KDDFP55C160		
8	Replacement long-life filter		KAF551D160		
9	Replacement long-life filter (Auto grille panel)		KAF5512D160		
10	Ultra long-life filter unit (Including filter chamber) <sup>9</sup>		KAF555D160		
11	Replacement ultra long-life filter <sup>9,10</sup>		KAF550D160		
12	Branch duct chamber <sup>4</sup>		KDJP55C80	KDJP55C160	
13	Insulation kit for high humidity <sup>9,11</sup>		KDTP55K80A	KDTP55K160A	

### Round Flow Cassette Type

No.	Item	Type	FXFQ25A FXFQ32A FXFQ40A	FXFQ50A FXFQ63A FXFQ80A	FXFQ100A FXFQ125A FXFQ140A
1	Decoration panel	Standard panel	Fresh white	BYCQ125EAF *	
			Black	BYCQ125EAK *	
		Designer panel <sup>1</sup>	Fresh white	BYCQ125EAPF *	
			Auto grille panel <sup>2,3</sup>	Fresh white	BYCQ125EASF *
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		KDB55160F		
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		KDDFP55C160		
8	Replacement long-life filter		KAF551D160		
9	Replacement long-life filter (Auto grille panel)		KAF5512D160		
10	Ultra long-life filter unit (Including filter chamber) <sup>9</sup>		KAF555D160		
11	Replacement ultra long-life filter <sup>9,10</sup>		KAF550D160		
12	Branch duct chamber <sup>4</sup>		KDJP55C80	KDJP55C160	
13	Insulation kit for high humidity <sup>9,11</sup>		KDTP55K80A	KDTP55K160A	

- 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 (BRC16A2) for the auto grille panel is included for lowering and raising the suction grille.  
 3. When installing auto grille panel, body height (ceiling required dimension) is 55 mm 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

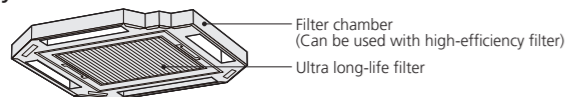
## VRV indoor units

Options of Round Flow Cassette with Sensing & Round Flow Cassette

### Options required for specific operating environments

#### Ultra long-life filter unit

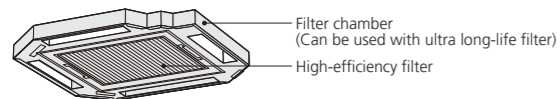
Even in dusty environments where the air conditioning is constantly operating, the ultra long-life filter only has to be cleaned once a year.



**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

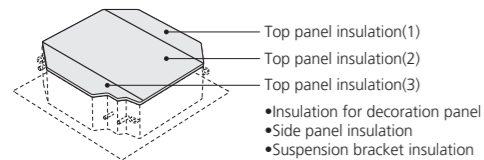
#### High-efficiency filter unit

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



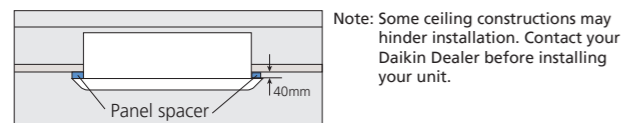
#### Insulation kit for high humidity

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.



#### Sealing material of air discharge outlet

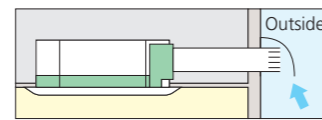
By using this option, 2-way, 3-way, or 4-way flow can be selected.

#### Branch duct chamber

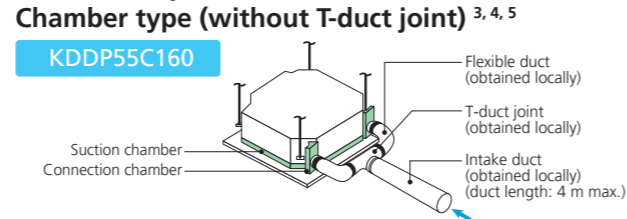
This chamber lets you connect a round flexible duct to the air discharge opening at any time after the original installation.

#### Fresh air intake kit <sup>1, 2</sup>

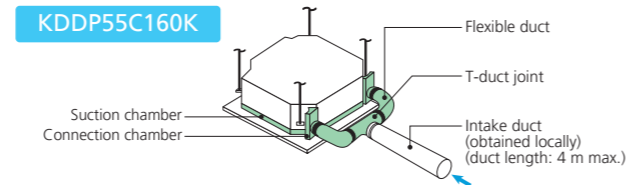
Using this kit, a duct can be connected to take in outdoor air. There are two chamber types that have intake in two places: with T-duct joint and without T-duct joint.



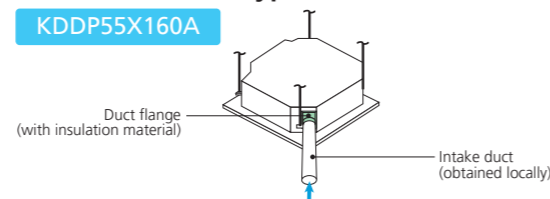
The units can be installed in the following different ways:  
**Chamber type (without T-duct joint) <sup>3, 4, 5</sup>**



#### Chamber type (with T-duct joint) <sup>3, 4, 5</sup>

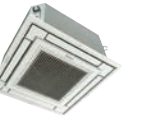


#### Direct installation type <sup>6</sup>



- Notes: 1. Use of options will increase operating sound.  
 2. Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be obtained locally.  
 3. When a local-obtained fan is used, an interlock with air conditioner is necessary. Optional PCB (BRP11862) is required for interlocking.  
 4. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.  
 5. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.  
 6. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.

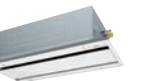
### Compact Multi Flow Cassette Type



No.	Item	Type	FXZQ20A	FXZQ25A	FXZQ32A	FXZQ40A	FXZQ50A
1-1	Grid ceiling panel				BYFQ60CAW		
1-2	Sensor kit for grid ceiling panel				BRYQ60AAW		
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		

Note: 1. Option relay wire harness adaptor (BER01A1) is necessary when installing decoration panel (BYFQ60B3W1).

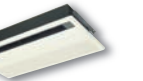
### Double Flow Cassette Type



No.	Item	Type	FXCQ20A	FXCQ25A	FXCQ32A	FXCQ40A	FXCQ50A	FXCQ63A	FXCQ80A	FXCQ125A
1	Decoration panel			BYBCQ40CF			BYBCQ63CF		BYBCQ125CF	
2	High efficiency filter *1	65 %		KAF532C50			KAF532C80		KAF532C160	
		90 %		KAF533C50			KAF533C80		KAF533C160	
3	Filter chamber for bottom suction			KDDFP53B50			KDDFP53B80		KDDFP53B160	
4	Long life replacement filter			KAF531C50			KAF531C80		KAF531C160	

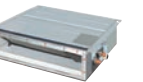
Note: \*1. If installing high efficiency filter, filter chamber is required.

### Corner 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

### Slim Duct (Standard) Type



No.	Item	Type	FXDQ20PD	FXDQ25PD	FXDQ32PD	FXDQ40ND	FXDQ50ND	FXDQ63ND
1	Insulation kit for high humidity			KDT25N32			KDT25N50	KDT25N63

### Middle Static Pressure Duct Type



No.	Item	Type	FXSQ20PA FXSQ25PA FXSQ32PA	FXSQ40PA	FXSQ50PA FXSQ63PA FXSQ80PA	FXSQ100PA FXSQ125PA	FXSQ140PA
1	High efficiency filter *1	65%	KAF632C36	KAF632C56	KAF632C80	KAF632C160	KAF632B160B
		90%	KAF633C36	KAF633C56	KAF633C80	KAF633C160	KAF633B160B
2	Filter chamber (for rear suction) *1		KDDFP63B36	KDDFP63B56	KDDFP63B80	KDDFP63B160	KDDF63B160B
3	Long-life filter *1		KAF631C36	KAF631C56	KAF631C80	KAF631C160	KAF631B160B
4	Service panel (Fresh white)		KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F	
5	Air discharge adaptor		KDAP25A36A	KDAP25A56A	KDAP25A71A	KDAP25A140A	KDAP25A160A *2
6	Shield plate for side plate				KDBD63A160		

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

### Middle-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			KDDF37AA56	KDDF37AA80	KDDF37AA160
3	Long life replacement filter			KAF371B56	KAF371B80	KAF371B160
4	Long life filter chamber kit			KAF375B56	KAF375B80	KAF375B160
5	Service panel (Fresh white)		KTBJ25K36F	KTBJ25K56F	KTBJ25K80F	KTBJ25K160F
6	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A

# Option List

## VRV indoor units

### 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	Drain pump kit			BDU510A250VM
6	Insulation kit for high humidity			BDT520A250

### Ceiling Suspended Type



No.	Item	Type	FXHQ32MA	FXHQ63MA	FXHQ100MA	FXHQ125A	FXHQ140A
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	Fresh air intake kit					KDDQ50A140	

### Wall Mounted Type



No.	Item	Type	FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
1	Drain pump kit		K-KDU572EVE					

### 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	Suction grille		KDGF-9A140	KDGF-9A200	KDGF-9A280	KDGF-9A400	KDGF-9A560
5	Front suction filter chamber for high efficiency filter		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	KPCJ5	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			

## Residential indoor units with connection to BP units



### Slim Ceiling Concealed Type

No.	Item	Type	FDKS25E	FDKS35E	FDKS25C	FDKS35C	FDKS50C	FDKS60C
1	Insulation kit for high humidity		KDT25N32		KDT25N50			KDT25N63

### Wall Mounted Type



No.	Item	Type	FTKJ25N	FTKJ35N	FTKJ50N	FTKS25D	FTKS35D	FTKS50F	FTKS60F	FTKS71F	
1	Titanium apatite deodorising filter*1		KAF970A46						KAF971B42		
2	Dust collection filter (PM 2.5) with frame		BAFP046A42			-					
3	Dust collection filter (PM 2.5) without frame		BAFP046A41			-					

Note: \*1. Filter is a standard accessory. It should be replaced approximately 3 years.

### BP Units for Connection to Residential Indoor Units



No.	Item	Type	BPMKS967A2	BPMKS967A3
1	REFNET joint		KHRP26A22T	

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

## Precision Piping Method

### HEADER PACK

No.	Item	HP	6	6	6-8	10	12-16
1	HEADER PACK		BHF6RHP6Z	BHF6ARHP6Z	BHF8RHP6Z	BHF10RHP6Z	BHF16RHP6Z

### Daikin Gas Tight Joint

No.	Item	Type	Connecting the same pipes	Connecting different size pipes
1	Daikin Gas Tight Joint		BDGTA06, BDGTA09, BDGTA12 BDGTA15, BDGTA19, BDGTA22 BDGTA28, BDGTA34, BDGTA41	BDGTA1209, BDGTA1512 BDGTA2219, BDGTA2825

## Control systems

### Operation control system optional accessories

For VRV indoor unit use

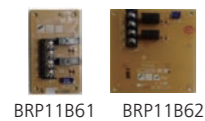


No.	Item	Type	FXFSQ-A	FXFQ-A	FXZQ-A	FXCQ-A	FXKQ-MA	FXDQ-PD FXDQ-ND	FXDQ-5P	FXSQ-PA
1	Stylish remote controller		BRC1H61W (White) / BRC1H61K (Black)							
2	Navigation remote controller		BRC1E63							
3	Simplified remote controller		BRC2E61							
4	Wireless remote controller		BRC7M635F (Fresh White) BRC7M635K (Black)	BRC7M531W (for grid ceiling panel) BRC7E531W (for decoration panel)	BRC7M66	BRC4C63	BRC4C66			
5-1	Adaptor for wiring (operation status output)		★BRP11B62		—		★BRP11B61	—	★BRP11B62	
5-2	Adaptor for wiring		—		★KRP1C14A	KRP1B61	—			
6-1	Wiring adaptor for electrical appendices (1)		—	★KRP2A62	★KRP2A51	KRP2A61	★KRP2A53	—	★KRP2A61	
6-2	Wiring adaptor for electrical appendices (2)		★KRP4AA53		★KRP4AA51	KRP4AA51	★KRP4A54	—	★KRP4AA51	
7	Remote sensor (for indoor temperature)		BRC501A-5		BRC501A-6		BRC501A-1		BRC501A-4	
8	Installation box for adaptor PCB 3/5		KRP1H98A *2,3	KRP1BB101 *4	KRP1C96 *2,3	—	KRP1BB101 *4	—	KRP4A98 *2,3	
9	External control adaptor for outdoor unit		★DTA104A62		★DTA104A61	DTA104A61	★DTA104A53	—	★DTA104A61	
10	Multi tenant unit for Indoor (24 V free type)		★BRP114A61		—		—		★BRP114A61	

No.	Item	Type	FXMQ-PA	FXMQ-P	FXHQ-MA	FXHQ-A	FXAQ-A	FXLQ-MA FXNQ-MA	FXVQ-N *7	FXBQ-P FXBPQ-P
1	Stylish remote controller		BRC1H61W (White) / BRC1H61K (Black)							
2	Navigation remote controller		BRC1E63							
3	Simplified remote controller		BRC2E61							
4	Wireless remote controller		BRC4C66		BRC7EA66	BRC7M56	BRC7M676	BRC4C64	—	BRC4C64
5-1	Adaptor for wiring (operation status output)		★BRP11B62	—	★BRP11B61		—	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-4	BRC501A-6	BRC501A-1	BRC501A-4	BRC501A-6	BRC501A-1		
8	Installation box for adaptor PCB 3/5		KRP4A97 *2,3	—	KRP1CA93 *3	KRP1D93A *3	KRP4B93 *2,3	—		
9	External control adaptor for outdoor unit		★DTA104A61	DTA104A61	★DTA104A62		★DTA104A61	DTA104A61	DTA104A62 *8	DTA104A61
10	Multi tenant unit for Indoor (24 V free type)		★BRP114A61		—		★BRP114A61	—		
11	External control adaptor for cooling / heating		—		—		—	KRP6A1 *8	—	
12	Remote controller with key		—		—		—	KRCB37-1	—	

Notes: 1. Installation box<sup>3/5</sup> 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 wired remote controller BRC1E63. 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 BRC1H61W(K), BRC1E63 or BRC2E61, be sure to remove the control panel and since BRC1H61W(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.

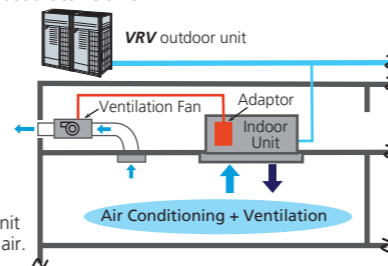


### Adaptor for wiring (operation status output)

By installing it in the indoor unit with a simple wire connection, this adaptor takes out the operating signals for the indoor unit fan and the compressor and enables the interlocking of equipment such as the ventilation fan.

Example:

Interlocking operation of the indoor unit and ventilation fan that takes in fresh air.



### For residential indoor unit use

No.	Item	Type	FDKS-E, C	FTKJ-N	FTKS-D, F
1	Remote controller	Wireless type	— *1		
2	Wiring adaptor for time clock/remote controller *2 (Normal open pulse contact/normal open contact)		KRP413BB1S		
3	Remote controller loss prevention chain		KKF917A4	KKF910A4	KKF917A4
4	Interface adaptor for DIII-NET use		KRP928BB2S		

Notes: 1. A wireless remote controller is a standard accessory.  
2. Time clock and other devices should be obtained locally.

### System configuration

No.	Item	Model No.	Function
1	Residential central remote controller	DCS303A51 *2	• Up to 16 groups of indoor units (128 units) can be easily controlled using the large LCD panel. ON/OFF, temperature settings and scheduling can be controlled individually for indoor units.
2	Interface adaptor for residential indoor units	KRP928BB2S	• Adaptors required to connect products other than those of the VRV System to the high-speed DIII-NET communication system adopted for the VRV System. * To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
3	Interface adaptor for SkyAir-series	★DTA112BA51 *3	
4	Central control adaptor kit   For UAT(Y)-K(A),FD-K	★DTA107A55	
5	Wiring adaptor for other air-conditioner	★DTA103A51	
6	DIII-NET expander adaptor	DTA109A51	• Up to 1024 units can be centrally controlled in 64 different groups. • Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor.
6-1	External control adaptor	DTA104A61	• Demand control of individual or multiple systems. • Low noise option for individual or multiple systems.
6-2	Mounting plate	BKS26A	• When installing DTA109A51, DTA104A61 into outdoor units of 10 HP (VRV X) / 14 HP (VRV A) 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 intelligent Touch Controller	DCS601C51	• Air-Conditioning management system that can be controlled by a compact all-in-one unit.
1-1	Option Hardware DIII-NET plus adaptor	DCS601A52	• Additional 64 groups (10 outdoor units) is possible.
1-2		DCS004A51	• VRV system that is connected to intelligent Touch Controller can be operated from the user's PC via a web page.
1-3	Electrical box with earth terminal (4 blocks)	KJB411A	• Wall embedded switch box.
2	Basic Hardware intelligent Touch Manager	DCM601A51	• Air-conditioning management system that can be controlled by touch screen.
2-1	Option Hardware iTM plus adaptor	DCM601A52	• Additional 64 groups (10 outdoor units) is possible. Max. 7 iTM plus adaptors can be connected to intelligent Touch Manager.
2-2		DCM002A51	• Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh metre.
2-3	Option Software iTM energy navigator	DCM008A51	• Building energy consumption is visualised. Wasted air-conditioning energy can be found out.
2-4		DCM009A51	• BACnet® equipment can be managed by intelligent Touch Manager.
2-5		DCM007A51	• Interface for intelligent Touch Manager by HTTP
2-6		SVMMPR2	• VRV Smartphone Control System for residence
2-7	Option Hardware SVM series *1	SVMMP2	• VRV Smartphone Remote Controller for building
2-8		SVMPS1 *5	• Tenant Billing System with PPD
2-9	VRV Smartphone Control System	SVMMPR1	• VRV Smartphone Control System for residence with DTA116A51.
2-10	VRV Tablet and Smartphone Controller	SVMPC1	• VRV Tablet and Smartphone Controller for small size building or residence with DTA116A51.
2-11	Multi Site Management System by using SVMPC1	MSMPN1	• MSM can control all VRV units via SVM system on multi site.
2-12	Di unit	DEC101A51	• 8 pairs based on a pair of ON/OFF input and abnormality input.
2-13	Dio unit	DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input.
3	Interface for use in BACnet® *2	DMS502B51	• Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through BACnet® communication.
3-1	Optional DIII board	DAM411B51	• Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.
3-2	Optional Di board	DAM412B51	• Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.
4	Interface for use in LONWORKS® *3	DMS504B51	• Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through LonWorks® communication.
5	Home Automation Interface Adaptor	DTA116A51	• Use of the Modbus® protocol enables the connection of the VRV system with a variety of home automation systems from other manufacturers. *6
5-1	Mounting plate	BKS26A	• When installing DTA116A51 into outdoor units of 10 HP (VRV X) / 14 HP (VRV A) or larger.
6	Contact/analogue signal Unification adaptor for computerised control	★DCS302A52	• Interface between the central monitoring board and central control units.

Notes: \*1. HTTP interface (DCM007A51) is also required.

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

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

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

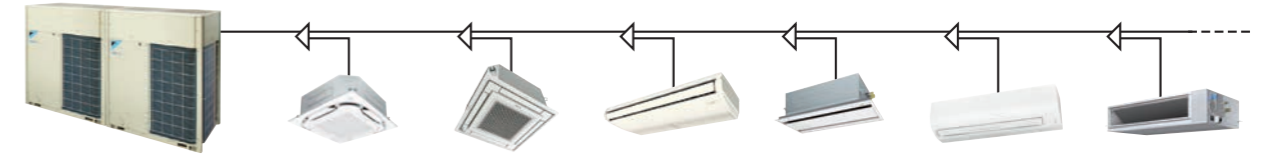
\*5. PPD option (DCM002A51) for iTM is also required.

\*6. Modbus® is a registered trademark of Schneider Electric S.A.

# Daikin Engineering Supports

## VRV design and sales proposal assistance

Daikin provides engineering supports for **VRV** systems. It consists of design supports that can assist consultants and architects, as well as sales proposal supports for air conditioning engineers and dealers. We at Daikin provide the software, the simulation results, and drawing materials to support the building information modeling (BIM) currently entering the mainstream in construction industries.



### Design assistance

For consultants and architects

**Combines energy efficiency and comfort**

Heat load calculation

CFD simulation to optimise outdoor unit layouts

**Design flexibility**

Heat load calculation

Model selection

Drawing materials support

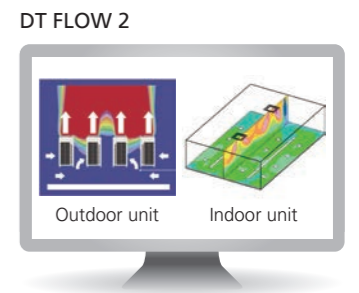
### Model selection software

CADxpress is a flexible design software that optimises equipment selection and CAD drawing. It can empower consultants and air conditioning engineers so they can fully enhance their equipment selections to design the most effective, optimum systems possible. The software also allows the choice of outdoor units based on peak loads rather than the sum of required capacities for each indoor unit. This fine-tuning feature reduces **VRV** system sizes and increases efficiency. Additionally, the CAD function enables automatic calculation of piping diameter and length without any need for CAD software.



### CFD simulation to optimise outdoor unit layouts

DT FLOW 2 is a simulation software that uses computational fluid dynamics (CFD), aiming to optimise outdoor unit layouts right at the design stage. When discharged air from the outdoor unit is drawn back into the suction vent, it can short circuit the system and lead to: decrease in efficiency of cooling operations, capacity shortages, operation cut-offs, and shorter lifetime for the outdoor unit. To avoid the need for expensive layout modifications once construction is complete, Daikin uses the CFD method at the early design stage. This can help consultants and architects optimise their outdoor unit arrangement.



New software for indoor airflow simulation will be coming soon. Indoor airflow simulation is a method for predicting temperature distribution and velocity distribution of indoor environment.

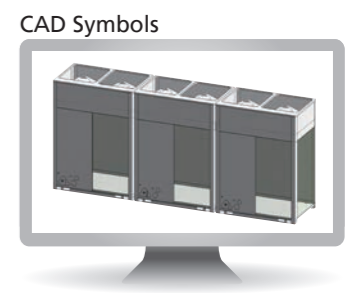
### Heat load calculation

DS-HL2 uses ASHRAE's Radiant Time Series method to compute heat load for a 24-hour period on summer and winter days. The Radiant Time Series considers the delay in heat load coming into the room through outer walls and the roof in the form of conduction and radiation. Airflow calculation for rooms can be performed. Detailed reports are available for different breakdown requirements. Additional monthly calculation is also available with an advanced license tier. 24-hour weather data for all major cities is based on data recorded from past years.



### Drawing supports

Users download CAD symbol drawing materials, including 2D CAD symbols and 3D Revit data, for **VRV** systems designing. The 3D Revit data contains specifications for Daikin products, including things like capacities and electric characteristics to support Building Information Modeling (BIM).



### Sales proposals

For air conditioning engineers and dealers

Heat load calculation

Model selection