





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

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







#### Contents **New Products Information VRV** Development History **VRV** User Benefits **VRV** Overview **VRV** R Series 17 **VRV** H Series 39 **VRV** S High Seasonal Efficiency Series 57 **VRV** IV S Series **VRV** IV Q Series 77 **VRV** IV W Series 93 **VRV** WS Series 107 **Indoor Unit Overview** 115 **VRV** Indoor Units Туре Round Flow Cassette with Sensing and Streamer FXFTQ-A FXFSQ-A Round Flow Cassette with Sensing 123 129 FXFQ-A Round Flow Cassette Compact Multi Flow Cassette 133 FXZQ-B Double Flow Cassette 135 FXCQ-B Single Flow Cassette 137 FXEQ-A Slim Duct (Standard) 139 FXDQ-PD/ND 141 Slim Duct (Compact) FXDQ-T Middle Static Pressure Duct 143 FXSQ-PA FXDYQ-MA Middle Static Pressure Duct 145 FXMQ-PA Middle-High Static Pressure Duct 147 High Static Pressure Duct 149 FXMQ-P FXUQ-A 4-Way Flow Ceiling Suspended 151 FXHQ-MA/B Ceiling Suspended 153 155 FXAQ-A Wall Mounted FXLQ-MA Floor Standing 157 Concealed Floor Standing 158 FXNQ-MA BSQ-A,BS-Q14B/A BS Units 159 Air Handling Unit 163 Air Treatment Equipment 165 **Control Systems** 183 199

**Engineering Supports** 

217

\*VRV is a trademark of Daikin Industries, Ltd

### **New Products Information**





















#### Featuring unique functions in a new large capacity casing

- ✓ Adopt a new casing to realise a single module of up to 24 class
- ✓ Achieved significant energy savings with improved technology
- ✓ Defrost functions improved comfort by extending the heating operation time
- ✓ Design flexibility is further improved by simultaneous extension of height difference and equivalent length.
- ✓ Sealed electrical component box (IP55) blocks the ingress of debris or water, that leads to unexpected failures.
- ✓ A new electrical component service window on the front panel allows easy access to the main board without removing the front panel.
- ✓ Equipped with various new functions, the new model shows a significant improvement in total performance.





#### **Round Flow Cassette with Sensing** and Streamer Type (117)







- ✓ Daikin advanced sensing technology dual sensors
- ✓ Individual airflow direction control



#### Outdoor-Air Processing Unit (169)



#### **FXMQ-AF Series**

#### Improve IAQ with fresh air ventilation and precise room temperature control

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





#### Stylish Remote Controller (183) Special Site





A complete redesigned controller focused to enhance user experience



BRC1H63W





reddot design award



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



## Improving air quality with technology

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



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



#### Built-in inside the indoor unit

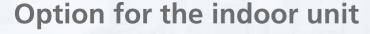
Round Flow Cassette with Sensing and Streamer



Streamer filter clean unit built-in inside the indoor



**FXFTQ-A** 



Compact Multi Flow Cassette



**FXZQ-B** 

**Double Flow Cassette** 



**FXCQ-B** 





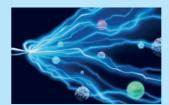


#### **Streamer Technology**

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



#### Mechanism of decomposition by Streamer



Streamer emits high-speed



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



The decomposing elements provide decomposition power

#### 99.93% Inactivation of Omicron variant in 2 hours

#### Experimental Results

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

Inactivation effect against Omicron variant



#### Test Method

hCoV-19/Japan/ TY38-873/2021 strain (Omicron variant) was used. Two acrylic boxes of about 31L were placed in a safety cabinet in the BSL-3 facility, and Streamer discharge device was installed in



one of the acrylic boxes. Seesaw shakers with a 6-well plate were placed in both boxes, and 0.5 mL of virus solution was placed in each well of the plate. Streamer irradiation was performed on one 6-well plate while stirring with a seesaw shaker. After 1, 2, and 4 hours, the virus solution was collected, and the virus titer was measured by the TCID50 method using Vero E6/TMPRSS2 cells.

#### ■ Test Organization

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

\*This result was obtained by using a Streamer discharge device for testing in lab conditions.

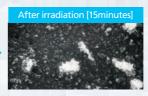
The effect of products equipped with Streamer technology or results in

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

Demonstration of mould

Picture of mould





#### Test Method

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

#### Test Organization

Demonstration test was performed at Wakayama Medical University.

#### Why Daikin Streamer?

Recognized as clean technology by public bodies

Winner of the 2005 Progress Award, Institute of Electrostatics Japan

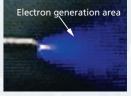
varded for the development of a mestic air purifier which uses reamer discharge

105 Patents Acquired

Patents acquired relating to Streamer technology

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

Comparison of oxidation decomposition

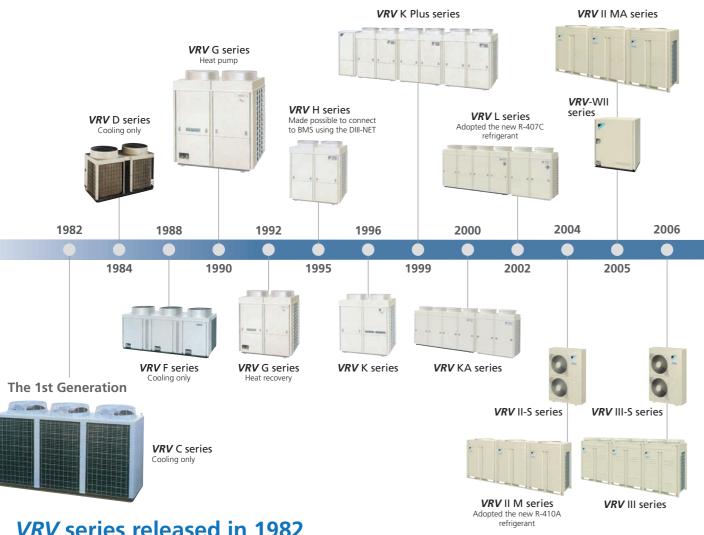


This does not mean temperature will become high



## **VRV** Development History

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

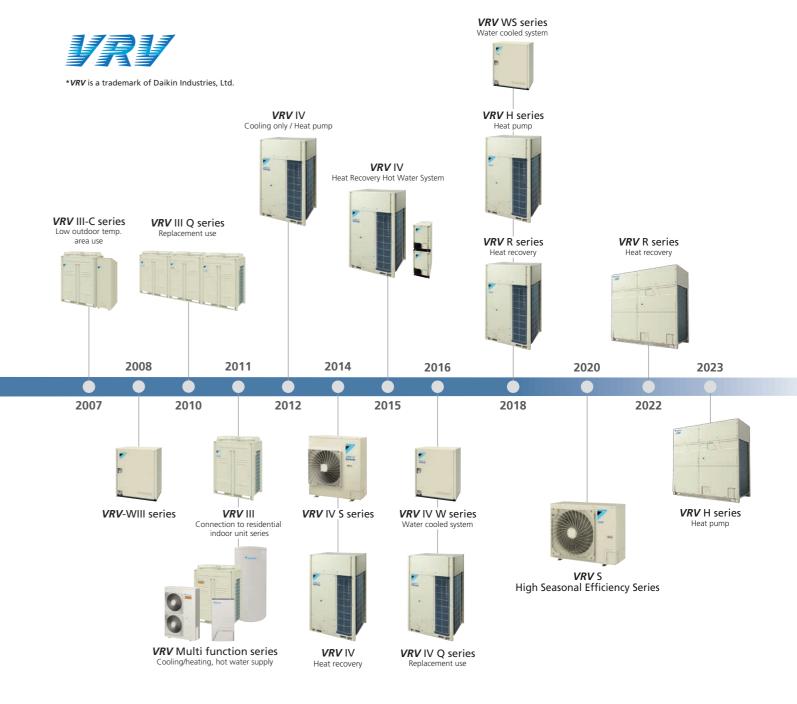


#### VRV series released in 1982

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

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

**Expansion of the country of sale** Sales companies well established in more than 70 countries





#### **VRV** User Benefits



For **OWNERS** 





## Lifecycle Cost & Comfort

#### **Large-capacity Single Module**

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



#### **Energy Saving Technology**

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



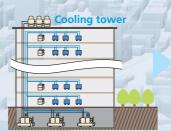


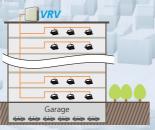
#### Comfort

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

#### **Efficient Space Utilisation**

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







**VRV** User Benefits

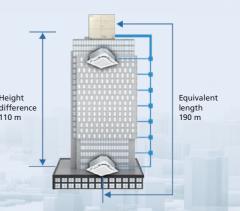
#### For **CONSULTANTS**



### Flexible Design & Engineering Supports

#### **Long Refrigerant Piping**

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



#### **Engineering Support Software**

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





Model Selection

Drawing Supports

**Analysis and Simulation** 

#### **Varied Lineup of Indoor Units**

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











Ceiling Suspended Wall Mounted

#### **VRV** User Benefits



For **INSTALLERS** 





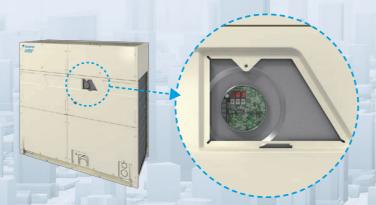
### Easy Installation

#### **Slimmer Main Piping**

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

#### **Electrical Component Service Window**

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



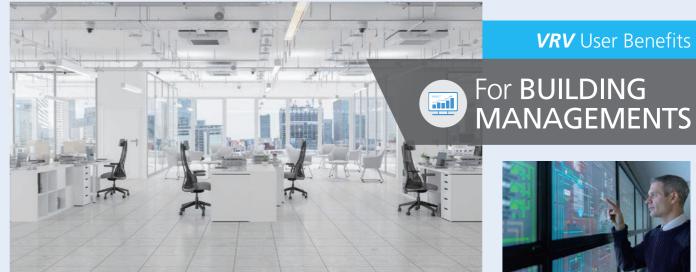
#### **Process visualization (Test run only)**

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



#### **Simple Piping, Easy Wiring**

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



## **VRV** User Benefits



### Reliability & Comfort

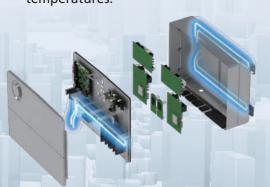
#### **IP55 Sealed Component Box**

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



#### **Refrigerant Piping Cooling System**

• Refrigerant cooling circuit enables operation in high outdoor temperatures.

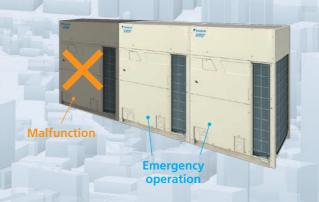


#### **Double Backup Operation Functions**

• Unit backup & Compressor backup ensure continuous operation.

Unit backup operation function

Compressor backup operation function





Malfunction

## Wide Variety of Series Models to Supply Total Air Solutions



#### **VRV** R SERIES

Heat Recovery

#### Featuring unique functions in a new large capacity casing

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

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



#### Page VRV H SERIES

Heat Pump

#### Significant improvement in total performance

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

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



#### **IPI** S High Seasonal Efficiency SERIES

## Especially designed for residential houses,

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

Lineup					
class	4	5	6	7	8
Heat Pump	•	•	•	•	•

small office and shops



RXYMQ-A(2)/B2

3-4 class: 1-phase, 220-230 V, 50 Hz 5-6 class: 1-phase, 220-240 V/220-230 V, 50/60 Hz

8-9 class: 3-phase, 380-415 V, 50 Hz

#### **URV IV S SERIES**

Heat Pump

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

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

3.5	4	5	6	8	9
•	•	•	•	•	•
					3.5 4 5 6 8

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.



#### **URV** IV Q SERIES

Heat Pump

#### For quick & high quality replacement use



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

Lineup																									
	class		6	8	10	12	13	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
<b>VRV</b> IV Q series	Hoat Pump	Standard Type	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
VAV IV Q Series	i leat i dilip	Space Saving Type								•	•					•	•	•	•	•	•	•	•	•	•
<b>VRV</b> III Q series	Heat Recove	ery			•		•		•	•	•	•	•	•	•	•									



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

RWEYQ-T(2)

#### **URV** IV W SERIES

Heat Pump / Heat Recovery

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

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



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

#### Page 107

#### **URV** WS SERIES

Heat Pump



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

#### Water cooled system suitable for residential houses

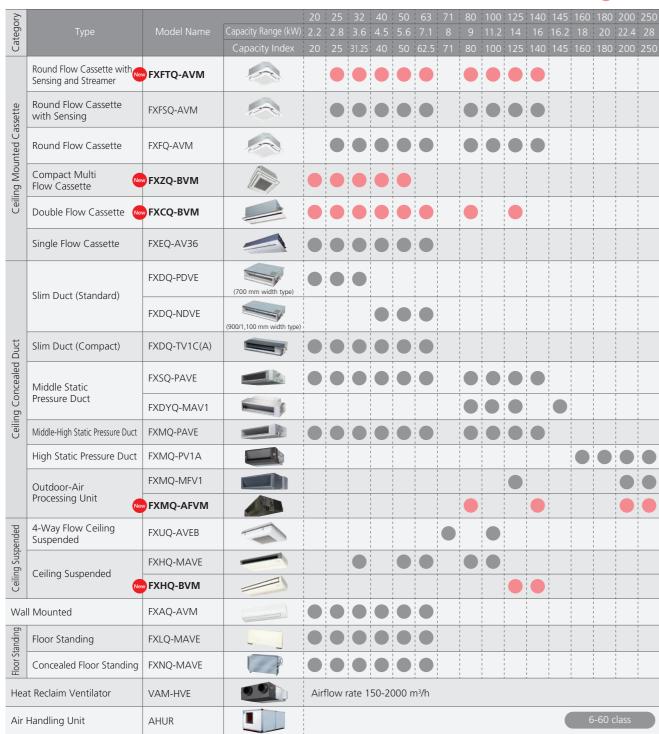
Water cooled *VRV* WS series outside units are designed to be compact and lightweight, and single phase power supply enables simplified installation in residential applications.

neup				
class	3	4	5	6
Heat Pump	•	•	•	•



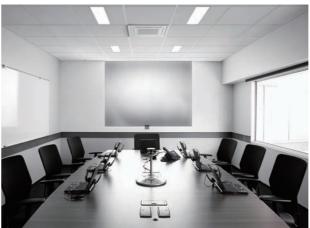
### Wide Range Indoor Unit Lineup Create Comfortable Airflow

#### **VRV** indoor units



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

















## VRV R SERIES

Featuring unique functions in a new large capacity casing

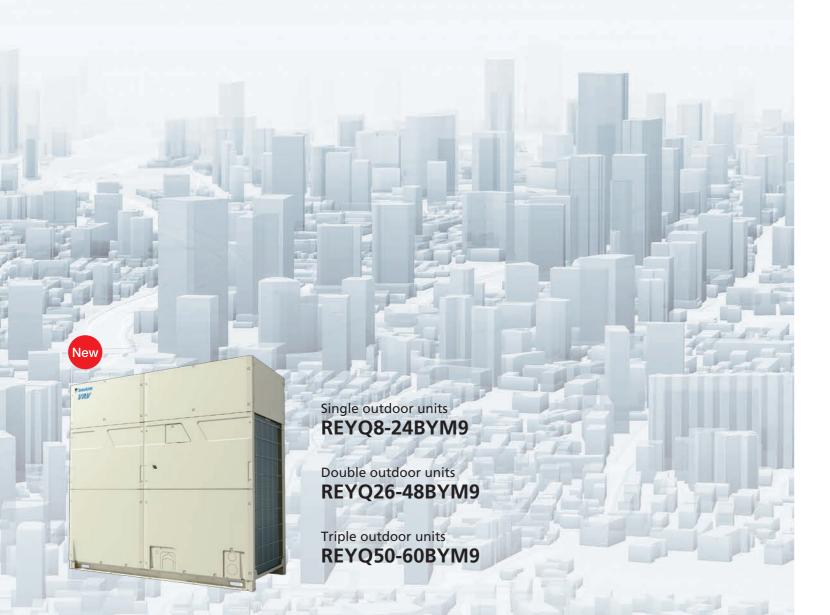






Promotion Movie

Special Site



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

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



#### VRV R Series

## Heat Recovery Technologies

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

#### **Situation**

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

#### Need

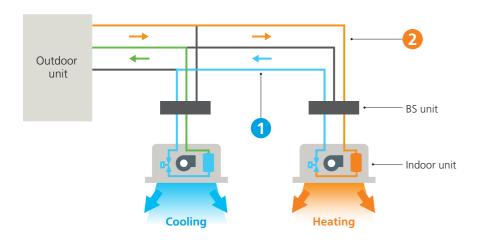
These buildings require flexible cooling and heating operation.

#### Solution

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



■ The heat recovery system improves energy efficiency by recycling waste heat.



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

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

#### BS unit (Single type/Multi type) See page 159 - 162

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

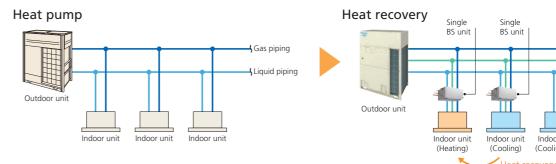




High and low pressure gas piping Suction gas piping Liquid piping

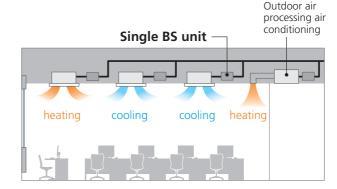
Single BS unit

Multi BS unit



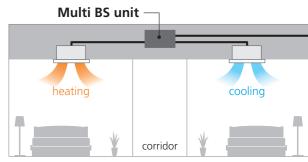
<sup>\*</sup> For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outdoor units.

#### Application reference



#### Winter season (Office Building)

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



#### Winter season (Hotel)

 Able to cater to individual heating and cooling requirement

## New Casing

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





REYQ8BYM9 REYQ12BYM9 REYQ10BYM9

14, 16, 18, 20 class



REYQ14BYM9 REYQ18BYM9 REYQ16BYM9 REYQ20BYM9



#### Outdoor unit combinations

System o	capacity	Number of				Singl	e module	(class)			
Class	kW	units	8	10	12	14	16	18	20	22	24
8	22.4		•								
10	28.0			•							
12	33.5				•						
14	40.0					•					
16	45.0	Single					•				
18	50.0							•			
20	56.0								•		
22	61.5									•	
24	67.0										•
26	73.5				•	•					
28	78.5				•		•				
30	83.5				•			•			
32	89.5				•				•		
34	96.0					•			•		
36	101						•		•		
38	106	Double						•	•		
40	112								••		
42	117							•			•
44	123								•		•
46	129									•	•
48	134	1									••
50	140				•			•	•		
52	146				•				••		
54	152	,				•			••		
56	157	Triple					•		••		
58	162							•	••		
60	168	1							•••		

#### ■ Large-capacity single module

Single module reduces installation space





Installation space 1.44 m<sup>2</sup>

Machine weight 460 kg

#### New models WRW R SERIES



Installation space 1.34 m<sup>2</sup>

Machine weight 409 kg

#### ■ New reinforced design

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



#### 1 Minimises horizontal wobbling



Conventional models

VRV R SERIES

#### 2 Minimises vibration from various angles



Conventional models

**VRV** R SERIES

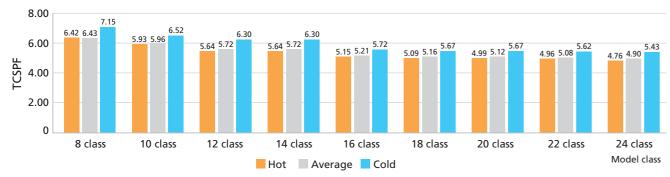
## **Energy Savings**

#### High TCSPF / HSPF

Energy savings during actual operation have been further improved by the evolution of software and hardware technologies.

Achieved high values for TCSPF and HSPF in all series.

#### TCSPF (for commercial use)



#### HSPF (for commercial use)



#### What are **TCSPF and HSPF?**

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

In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.

Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures\* as stipulated in AS/NZS 3823.4.1:2014.

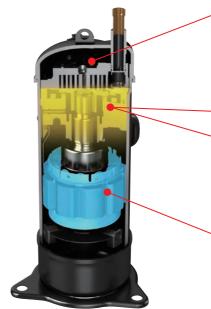
Further, the annual outdoor temperatures are based on zoning Australia/New Zealand into three distinct climate zones (Hot/Average/Cold).

This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSPF within the same climate zone.

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

#### Hardware technology High Efficiency Compressor

New technologies increase seasonal efficiency and enable a compact design.



#### Improvement of the discharge port

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

#### Optimising the back pressure control

#### New oil control function

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

#### Adoption of a high-performance concentrated motor

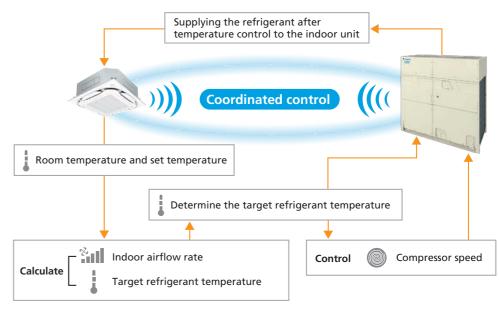
By adopting it, the coil circumference is greatly reduced, which makes the coil denser and thicker, and the electrical resistance of the coil is dramatically reduced to improve motor efficiency. Furthermore, the motor is light-weighted and downsized.

#### Software technology VRT Smart contro

Fully Automatic Energy-saving Refrigerant Control

#### Optimal supply exactly meets the required capacity of indoor units

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

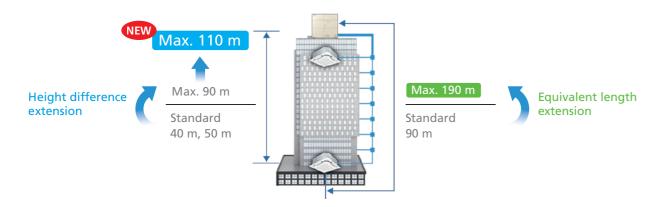


<sup>\*</sup> For the classification of indoor units (VRT smart control and VRT control), refer to the indoor unit lineup

## Design Flexibility

#### ■ Simultaneous extension of height difference and equivalent length

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



Height difference extension Max. 110 m

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

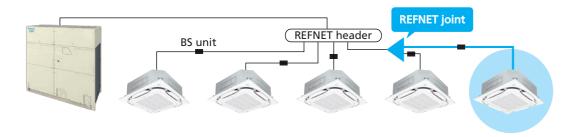
• Equivalent length extension Max. 190 m

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

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

#### ■ REFNET header downstream branching supported

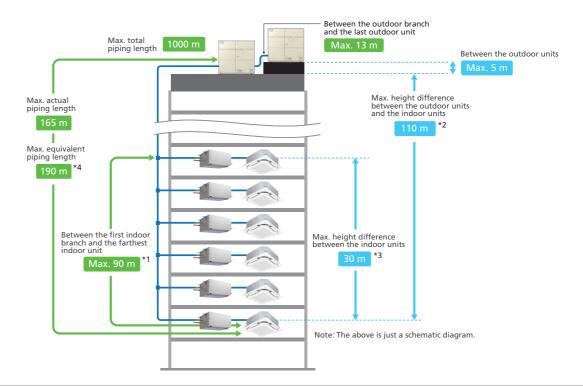
Piping branch by REFNET joint is possible downstream of REFNET header. The indoor unit arrangement can be more flexible.



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

#### Long piping length

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



	Actual piping length (Equivalent)	165 m (190 m)*4
Marrian and all according to a large of the	Total piping length	1000 m
Maximum allowable piping length	Between the first indoor branch and the farthest indoor unit	90 m*1
	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)
	Between the outdoor units (Multiple use)	5 m
Maximum allowable height difference	Between the indoor units	30 m
	Between the outdoor units and the indoor units	110 m* <sup>2</sup>

- \*1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. Various conditions and requirements have to be met to allow utilisation of 90 m piping length. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.
- \*2. When Height differences above 50 m if the outdoor unit is above the indoor unit and 40 m if the outdoor unit is below the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information

#### Connection ratio

Connection capacity at maximum is 200%.

**Connection ratio** 50%-200<sub>9</sub>

Connection		Total capacity index of the indoor units
ratio	=	Capacity index of the outdoor units

Conditions of VRV indoor unit connection canacity

			Indoor u	ınits		
Applicable <b>VRV</b> inde		FXDQ	FXSQ	FXMQ-PA	FXAQ	Other <b>VRV</b> indoor unit models*1
	8 - 20 class					200%
outdoor units	22, 24 class		20	000		180%
	utdoor units		20	0%		160%
	door units					130%

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

<sup>\*3.</sup> When Height differences are 15 m or more, maximum actual piping length must be 120 m.
\*4. In the case where the equivalent piping length from outdoor unit to indoor unit ≧ 90 m, make sure to up size the liquid pipe of the main pipe. Do not up size the high/low pressure gas pipe and the suction gas pipe.

Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units \*Refer to page 33 for outdoor unit combination details.

## Easy Installation

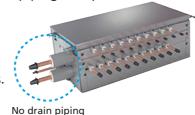
#### ■ Drainless Multi BS unit

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

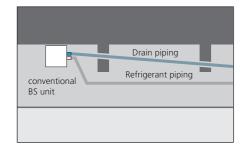
- Abundant lineup includes port counts of 4, 6, 8, 10, 12, and 16. \*
- Drain is eliminated with the use of foam insulation inside the casing.

  On-site work has significantly been reduced for lower installation costs.

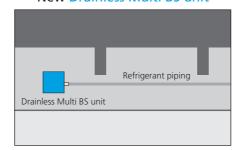
\*Drainless function is available up to 12-port unit. The 16-port unit requires drain piping.



#### Conventional Multi BS unit



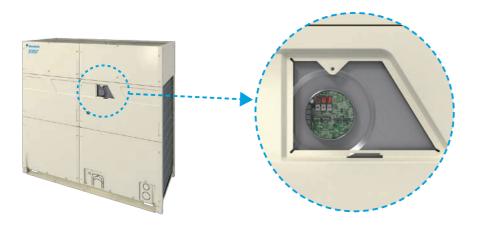
New Drainless Multi BS unit



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

#### ■ Electrical component service window

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



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

#### ■ Improved refrigerant piping workability

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

#### Conventional models



Working in close placed is difficult

#### **URV** R SERIES

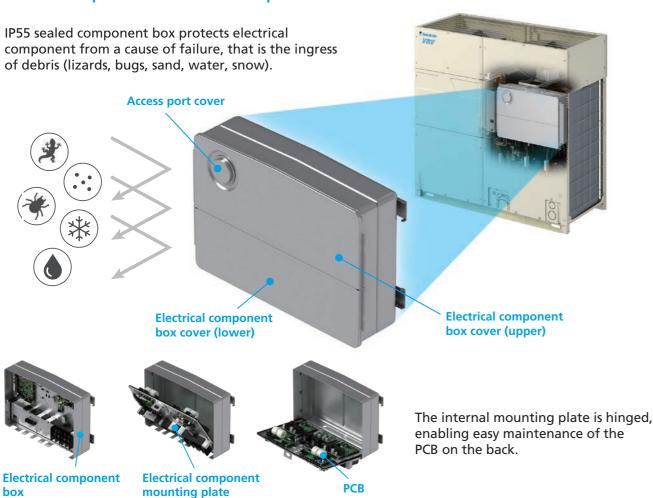


Work becomes easier with sufficient space

30

## Reliability

#### ■ IP55-compliant sealed component box



#### What is IP55?

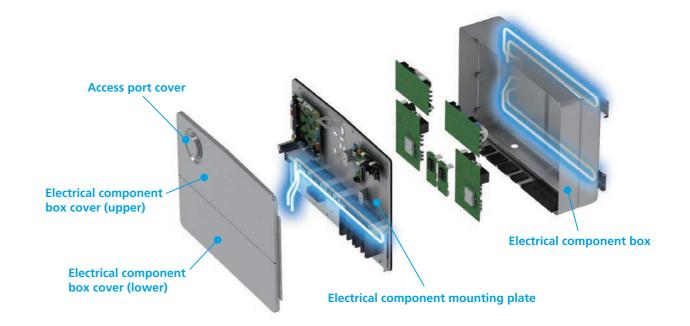
IP55 is the degrees of dust and water protection for the electrical component box equipped on the product.



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

#### ■ Enables operation in high outdoor temperature

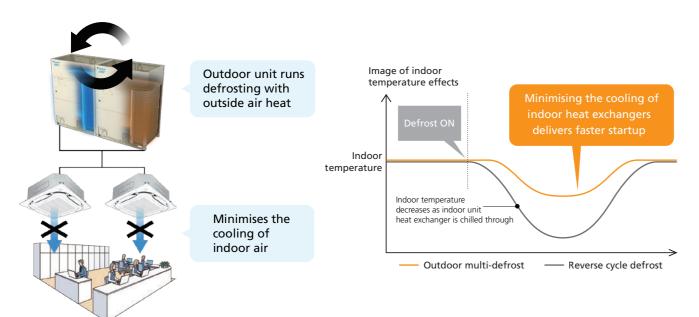
Three refrigerant cooling circuits enable stable operation even in high outdoor temperatures by suppressing a temperature rise for the PCB mounted in the sealed electrical component box.



32

## Comfort

#### Outdoor unit multi-defrost function

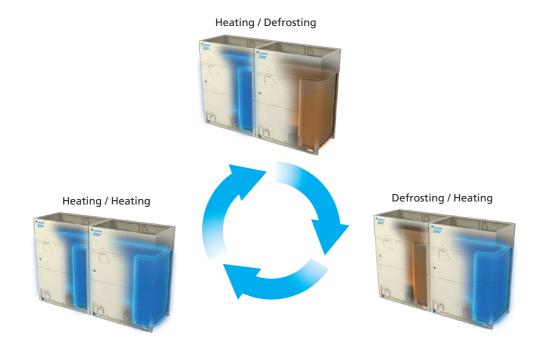


#### Improves comfort of defrosting operation

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

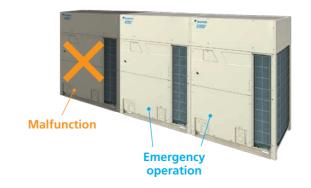
The "outdoor multi-defrost function" enables large-capacity casing models of 22 and 24 class and multioutdoor units to use outdoor heat for heat exchange and interchange defrost operation while minimising indoor heat absorption and decreases in indoor temperature.

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



#### ■ Double backup operation functions

#### Unit backup operation function

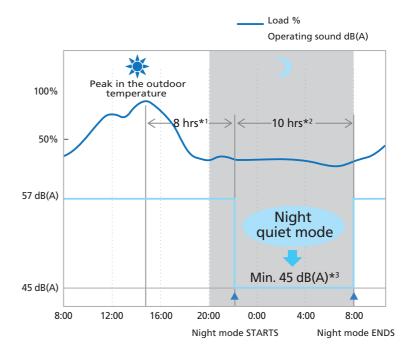


#### Compressor backup operation function



#### ■ Nighttime quiet operation function

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



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

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

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

## Outdoor Unit Lineup

#### **VRV** R Series

#### ■ Capacity range from 8 to 60 class

#### Lineup

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

#### Outdoor unit combinations

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

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

## Indoor Unit Lineup

#### **VRV** R Series

#### ■ Enhanced range of choices

New lineup Indoor units subject to VRT smart control

										New I	ineup	9/01	Indo	or un	its subj	ест то	VKI SI	mart co	ontroi
≥				20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
Category	Туре	Model Name			2.8	3.6		5.6				11.2		16		18		22.4	
Cal			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM		1											 				
ssette	Round Flow Cassette with Sensing	FXFSQ-AVM		1											1				
ted Ca	Round Flow Cassette	FXFQ-AVM													1				
Ceiling Mounted Cassette	Compact Multi Flow Cassette	FXZQ-BVM 💩									1	 			1				
Ceiling	Double Flow Cassette	FXCQ-BVM										! !		! !	 				
	Single Flow Cassette	FXEQ-AV36									1	1 1 1 1		 	1				
	Clina Dough (Chan dough)	FXDQ-PDVE	(700 mm width type)								1	1		 	1				
	Slim Duct (Standard)	FXDQ-NDVE	(900/1,100 mm width type)								! !	 		 	1				
nct	Slim Duct (Compact)	FXDQ-TV1C(A)									 	1 1 1 1		 	1 1 1				
aled D	Middle Static	FXSQ-PAVE	CH.												 				
once	Pressure Duct	FXDYQ-MAV1												! ! !					
Ceiling Concealed Duct	Middle-High Static Pressure Duct	FXMQ-PAVE &													1				
Ü	High Static Pressure Duct	FXMQ-PV1A									 	 		 	 				
	Outdoor-Air	FXMQ-MFV1									! ! !	 		 	 				
	Processing Unit	FXMQ-AFVM										! !							
papua	4-Way Flow Ceiling Suspended	FXUQ-AVEB									! ! !			 	1				
Ceiling Suspended	Callian Commended	FXHQ-MAVE													 				
Ceiling	Ceiling Suspended	FXHQ-BVM									! ! ! !	 			 				
Wal	l Mounted	FXAQ-AVM									1	 			1				
Floor Standing	Floor Standing	FXLQ-MAVE									1	1			1				
Floor St	Concealed Floor Standing	FXNQ-MAVE									1	 			1				
Hea	t Reclaim Ventilator	VAM-HVE	00	Air	flow	rate 1	50-2	000 n	n³/h										

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



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

<sup>\*2.</sup> Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for REYQ8-208YM9, 180% for REYQ8-248YM9, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 26 for note on connection capacity of indoor units.

## Outdoor Units

#### **VRV** R Series

#### Specifications

Heat Recovery
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Model			REYQ8BYM9	REYQ10BYM9	REYQ12BYM9	REYQ14BYM9	REYQ16BYM9	REYQ18BYM9	REYQ20BYM9	REYQ22BYM9	REYQ24BYM9	REYQ26BYM9	REYQ28BYM9	REYQ30BYM9	REYQ32BYM9	REYQ34BYM9
Combinatio	n units		_	_	_	_	_	_	_	_	_	REYQ12BYM9	REYQ12BYM9	REYQ12BYM9	REYQ12BYM9	REYQ14BYM9
			_								_	REYQ14BYM9	REYQ16BYM9	REYQ18BYM9	REYQ20BYM9	REYQ20BYM9
Power supply	У	D. d	75.400	05.500			V/380 V, 50/60 Hz		404.000	242.000	222.222		re system, 380-415 V/38		205.000	222.000
Cooling capa	acity	Btu/h	76,400	95,500	114,000	136,000	154,000	171,000	191,000	210,000	229,000	251,000	268,000	285,000	305,000	328,000
		kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	67.0	73.5	78.5	83.5	89.5	96.0
Heating capa	acity	Btu/h	85,300	107,000	128,000	154,000	171,000	191,000	215,000	235,000	256,000	282,000	299,000	319,000	345,000	369,000
		kW	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	75.0	82.5	87.5	93.5	101	108
Power	Cooling	kW	5.17	6.80	8.71	11.2	12.9	14.4	17.5	18.6	21.3	19.9	21.6	23.1	26.2	28.7
consumption	1 Heating	kW	5.68	7.29	9.81	12.8	13.6	14.5	17.2	19.6	22.2	22.6	23.4	24.3	27.3	30.0
Capacity con		%	11-100		100	6-100	5-1		4-100			3-100				100
AEER*	Cooling		4.00	3.83	3.61	3.34	3.28	3.27	3.03	3.12	2.98	3.45	3.40	3.39	3.22	3.15
ACOP*	Heating		4.09	4.04	3.61	3.32	3.46	3.63	3.47	3.33	3.21	3.44	3.54	3.65	3.52	3.42
TCSPF* (Coolin	ng) Hot		6.42 / 5.57	5.93 / 5.27	5.64 / 5.02	5.64 / 4.96	5.15 / 4.58	5.09 / 4.53	4.99 / 4.43	4.96 / 4.43	4.76 / 4.25	5.64 / 4.99	5.35 / 4.76	5.30 / 4.72	5.22 / 4.64	5.25 / 4.64
Commercial	/ Average		6.43 / 4.55	5.96 / 4.44	5.72 / 4.31	5.72 / 4.14	5.21 / 3.90	5.16 / 3.89	5.12 / 3.84	5.08 / 3.86	4.90 / 3.74	5.73 / 4.22	5.42 / 4.07	5.38 / 4.05	5.34 / 4.01	5.36 / 3.96
Residential	Cold		7.15 / 4.48	6.52 / 4.41	6.30 / 4.32	6.30 / 4.16	5.72 / 3.90	5.67 / 3.90	5.67 / 3.90	5.62 / 3.90	5.43 / 3.80	6.31 / 4.23	5.96 / 4.07	5.91 / 4.06	5.90 / 4.05	5.93 / 4.00
HSPF* (Heatin	ng) Hot		4.57 / 4.58	4.12 / 4.13	4.10 / 4.11	4.22 / 4.15	4.18 / 4.18	4.02 / 4.03	3.88 / 3.89	4.01 / 3.93	3.96 / 3.88	4.17 / 4.17	4.16 / 4.16	4.06 / 4.07	3.97 / 3.98	4.02 / 3.96
Commercial	/ Average		4.30 / 4.15	3.72 / 3.59	3.48 / 3.00	3.32 / 2.80	3.52 / 3.01	3.41 / 2.93	2.98 / 2.80	3.05 / 2.51	2.98 / 2.44	3.26 / 3.06	3.51 / 3.01	3.44 / 2.97	3.35 / 2.87	3.12 / 2.61
Residential	Cold		3.80 / 3.53	3.22 / 2.88	2.80 / 2.46	2.76 / 2.36	2.81 / 2.46	2.74 / 2.39	2.62 / 2.29	2.67 / 2.09	2.61 / 2.03	2.86 / 2.52	2.81 / 2.46	2.77 / 2.42	2.69 / 2.35	2.74 / 2.18
Casing colou	ır				Į,	vory white (5Y7.5/	1)						Ivory white (5Y7.5/1)			
Compressor	Туре				Herm	etically sealed scro	ll type					Не	ermetically sealed scroll t	ype		
Compressor	Motor output	kW	4.13	5.87	7.67	8.45	4.44+5.03	4.04+6.56	4.51+7.37	7.06+7.37	7.80+8.11	7.67+8.45	7.67+(4.44+5.03)	7.67+(4.04+6.56)	7.67+(4.51+7.37)	8.45+(4.51+7.37)
Airflow rate		l/s	2,583	2,812	3,015	4,327	4,428	4,293	5,095	7,1	70	3,015+4,327	3,015+4,428	3,015+4,293	3,015+5,095	4,327+5,095
All now rate		m³/min	155	169	181	260	266	258	306	43	30	181+260	181+266	181+258	181+306	260+306
Dimensions (	(H×W×D)	mm		1,660×930×765			1,660×1,	240×765		1,660×1,	750×765		(1,660×930×765) +	· (1,660×1,240×765)		(1,660×1,240×765) + (1,660×1,240×765)
Machine wei	ight	kg	227	231	232	281	323	35	57	40	)9	232+281	232+323	232+357	232+357	281+357
Sound level	•	dB(A)	56	57	59	63	62	61	65	67	68	6	54	63	66	67
Sound powe	r	dB(A)	8	30		83		85	89	90		8	36	87		90
	Cooling	°CDB				-5 to 49							-5 to 49		1	
Operation	Heating	°CWB				-25 to 15.5							-25 to 15.5			
	Туре					R-410A							R-410A			
Refrigerant	Charge	kg	10	0.6	10.9		11	.7		11	.7			+11.7		11.7+11.7
	Liquid	mm		Brazing)	1 2 2 2	∮ 12.7 (Brazing)		φ 15.9 (I	Brazing)	φ 15.9 (E	Brazing)	φ 19.1 (Brazing)				
Piping	Gas			∮ 22.2 (Brazing)		()/			· 9/	φ 28.6 (Brazing)	- 3/	φ 34.9 (Brazing)				
connections	High and low pressure gas				(Brazing)											

Notes: Specifications are based on the following conditions;

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

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

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

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

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

\* Values based on GEMS determination 2019.

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

In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.

Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures\* as stipulated in AS/NZS 3823.4.1:2014.

Further, the annual outdoor temperatures are based on zoning Australia/New Zealand into three distinct climate zones (Hot/Average/Cold).

This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSPF within the same climate zone.

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

## Outdoor Units

#### **VRV** R Series

#### Specifications

Heat Recovery

									13				I			
Model			-	-	REYQ40BYM9	_	-		REYQ48BYM9	REYQ50BYM9	REYQ52BYM9	REYQ54BYM9	REYQ56BYM9	REYQ58BYM9	REYQ60BYM9	
Combinatio	units		REYQ16BYM9 REYQ20BYM9	REYQ18BYM9 REYQ20BYM9	REYQ20BYM9 REYQ20BYM9	REYQ18BYM9 REYQ24BYM9	REYQ20BYM9 REYQ24BYM9	REYQ22BYM9 REYQ24BYM9	REYQ24BYM9 REYQ24BYM9	REYQ12BYM9 REYQ18BYM9 REYO20BYM9	REYQ12BYM9 REYQ20BYM9 REYO20BYM9	REYQ14BYM9 REYQ20BYM9 REYO20BYM9	REYQ16BYM9 REYQ20BYM9 REYO20BYM9	REYQ18BYM9 REYQ20BYM9 REYO20BYM9	REYQ20BYM9 REYQ20BYM9 REYQ20BYM9	
Power supply					3-phase 4-wire		V/380 V, 50/60 Hz			KETQZOBTIVIS	NET Q20011VIS		80-415 V/380 V, 50/60 Hz	KETQZOBTWIS	ILT Q20011VIS	
		Btu/h	345,000	362,000	382,000	399,000	420,000	440,000	457,000	478,000	498,000	519,000	536,000	553,000	573,000	
Cooling capa	City	kW	101	106	112	117	123	129	134	140	146	152	157	162	168	
	ita	Btu/h	386,000	406,000	430,000	447,000	471,000	491,000	512,000	536,000	560,000	583,000	601,000	621,000	645,000	
Heating capa	city	kW	113	119	126	131	138	144	150	157	164	171	176	182	189	
Power	Cooling	kW	30.4	31.9	35.0	35.7	38.8	40.2	42.6	40.9	44.0	46.2	47.9	49.4	52.5	
consumption	Heating	kW	30.8	31.7	34.4	36.7	39.4	41.8	44.4	41.8	44.5	47.2	48.0	48.9	51.6	
Capacity con	rol	%				2-100					2-100			1-100		
AEER*	Cooling		3.13	3.13	3.03	3.10	3.00	3.04	2.98	3.22	3.13	3.10	3.09	3.09	3.03	
ACOP*	Heating		3.50	3.58	3.50	3.42	3.36	3.31	3.25	3.58	3.51	3.45	3.50	3.55	3.50	
TCSPF* (Coolin	Hot		5.06 / 4.50	5.04 / 4.48	4.99 / 4.43	4.90 / 4.37	4.87 / 4.34	4.85 / 4.33	4.77 / 4.26	5.17 / 4.59	5.12 / 4.55	5.15 / 4.56	5.04 / 4.47	5.02 / 4.46	4.99 / 4.43	
Commercial /	Average		5.17 / 3.87	5.14 / 3.87	5.13 / 3.84	5.01 / 3.80	5.00 / 3.79	4.98 / 3.80	4.90 / 3.74	5.27 / 3.96	5.25 / 3.94	5.27 / 3.92	5.15 / 3.86	5.14 / 3.86	5.13 / 3.84	
Residential	Cold		5.70 / 3.90	5.68 / 3.90	5.68 / 3.90	5.53 / 3.84	5.54 / 3.85	5.52 / 3.85	5.43 / 3.80	5.82 / 3.99	5.82 / 3.99	5.84 / 3.97	5.70 / 3.90	5.68 / 3.90	5.68 / 3.90	
HSPF* (Heatin	) Hot		4.02 / 4.02	3.95 / 3.96	3.89 / 3.90	3.99 / 4.00	3.93 / 3.93	3.99 / 3.91	3.97 / 3.89	3.99 / 4.00	3.94 / 3.95	3.97 / 3.98	3.97 / 3.98	3.93 / 3.94	3.89 / 3.90	
Commercial /	Average		3.09 / 2.90	3.34 / 2.87	2.99 / 2.81	3.04 / 2.84	2.99 / 2.79	3.02 / 2.48	2.99 / 2.45	3.38 / 2.90	3.33 / 2.85	3.07 / 2.88	3.05 / 2.86	3.32 / 2.85	2.99 / 2.81	
Residential	Cold		2.71 / 2.36	2.68 / 2.34	2.63 / 2.29	2.67 / 2.31	2.62 / 2.27	2.64 / 2.06	2.61 / 2.03	2.71 / 2.37	2.67 / 2.33	2.70 / 2.36	2.68 / 2.34	2.66 / 2.32	2.63 / 2.29	
Casing colou					- Iv	vory white (5Y7.5/	1)					Ivory whit	e (5Y7.5/1)			
	Туре				Herm	etically sealed scro	oll type					Hermetically s	ealed scroll type			
Compressor	Motor output	kW	(4.44+5.03)+ (4.51+7.37)	(4.04+6.56)+ (4.51+7.37)	(4.51+7.37)+ (4.51+7.37)	(4.04+6.56)+ (7.80+8.11)	(4.51+7.37)+ (7.80+8.11)	(7.06+7.37)+ (7.80+8.11)	(7.80+8.11)+ (7.80+8.11)	7.67+(4.04+6.56)+ (4.51+7.37)	7.67+(4.51+7.37)+ (4.51+7.37)	8.45+(4.51+7.37)+ (4.51+7.37)	(4.44+5.03)+(4.51+7.37)+ (4.51+7.37)	(4.04+6.56)+(4.51+7.37)+ (4.51+7.37)	(4.51+7.37)+(4.51+7.37)+ (4.51+7.37)	
A: (I	'	l/s	4,428+5,095	4,293+5,095	5,095+5,095	4,293+7,170	5,095+7,170	7,170+	+7,170	3,015+4,293+5,095	3,015+5,095+5,095	4,327+5,095+5,095	4,428+5,095+5,095	4,293+5,095+5,095	5,095+5,095+5,095	
Airflow rate		m³/min	266+306	258+306	306+306	258+430	306+430	430+	+430	181+258+306	181+306+306	260+306+306	266+306+306	258+306+306	306+306+306	
Dimensions (I	l×W×D)	mm	(1,660×1,24	10×765) + (1,660)	×1,240×765)		240×765) + ,750×765)	(1,660×1,7 (1,660×1,		(1,660×930×765) + (1,660×1	(1,660×1,240×765) + ,240×765)	(1,	560×1,240×765) + (1,660×1,	,240×765) + (1,660×1,240×	765)	
Machine wei	ht	kg	323+357	357	+357	357	+409	409+	+409	232+3	57+357	281+357+357	323+357+357	357+3	57+357	
Sound level		dB(A)	67	66	68	69	70	7	1	67			59		70	
Sound power		dB(A)	90	90	92	91		93		91			93		94	
Operation	Cooling	°CDB				-5 to 49						-5	-5 to 49			
Operation L	Heating	°CWB				-25 to 15.5							o 15.5			
	Гуре					R-410A						R-4	10A			
Refrigerant	Charge	kg				11.7+11.7				10.9+1	1.7+11.7		11.7+11	1.7+11.7		
Distinct	_iquid	mm				₱ 19.1 (Brazing)						<i>φ</i> 19.1	(Brazing)			
Pining -	Gas	mm											(Brazing)			
COMMECTIONS	High and low pressure gas	mm				φ34.9 (	(Brazing)					φ 34.9	(Brazing)			

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

Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

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

\* Values based on GEMS determination 2019.

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

In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.

Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures\* as stipulated in AS/NZS 3823.4.1:2014.

Further, the annual outdoor temperatures are based on zoning Australia/New Zealand into three distinct climate zones (Hot/Average/Cold).

This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSPF within the same climate zone.

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

## VRV H SERIES

## Significant improvement in total performance









Promotion Movie

Single outdoor units
RXYQ8-24BYM

Double outdoor units
RXYQ26-48BYM

Triple outdoor units
RXYQ50-60BYM





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

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

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

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



## New Casing

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

8, 10, 12 class



RXYQ8BYM RXYQ12BYM RXYQ10BYM

14, 16, 18, 20 class



RXYO14BYM RXYO18BYM RXYQ16BYM RXYQ20BYM

#### 22, 24 class



RXYQ24BYM

#### Outdoor unit combination

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

#### ■ Large-capacity single module

Single module reduces installation space



Installation space 1.44 m<sup>2</sup>

Machine weight 400 kg

Installation space 1.34 m<sup>2</sup>

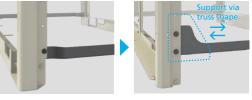
Machine weight 385 kg

#### ■ New reinforced design

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



#### 1 Minimises horizontal wobbling



**Conventional models** 

**VRV** H SERIES

2 Minimises vibration from various angles



Conventional models

## **Energy Savings**

#### High TCSPF / HSPF

Energy savings during actual operation have been further improved by the evolution of software and hardware technologies.

Achieved high values for TCSPF and HSPF in all series.

#### TCSPF (for commercial use)



#### HSPF (for commercial use)



#### Hardware technology High Efficiency Compressor

New technologies increase seasonal efficiency and enable a compact design.

#### Improvement of the discharge port

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

#### Optimising the back pressure control / New oil control function

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

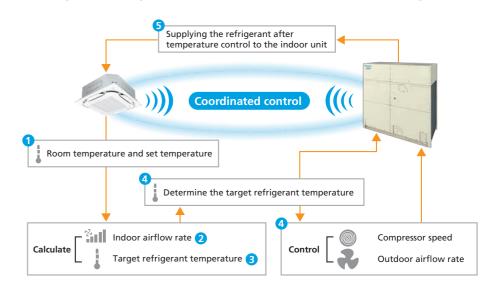
#### Adoption of a high-performance concentrated motor

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

#### Software technology VRT Smart II control

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

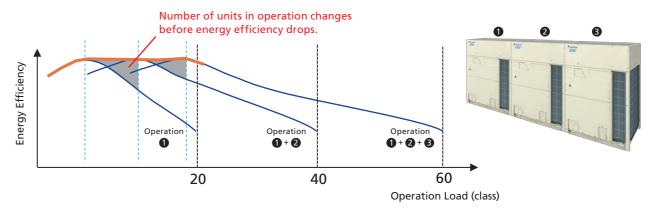
#### Optimal supply exactly meets the required capacity of indoor units



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

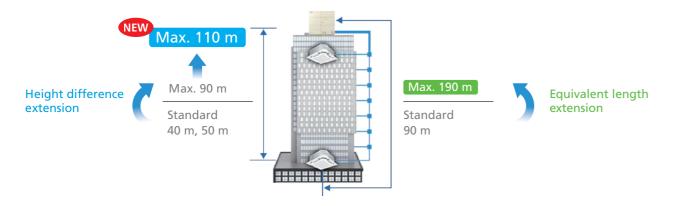
#### Optimal operating unit number in multi-system

- In outdoor multi-systems, the number of units operated is automatically controlled to ensure the best total efficiency according to the air-conditioning load.
- As the operating efficiency at low loads has been dramatically improved, the system controls
  each unit automatically in order to maintain operation at a lower load, operating at the highest
  possible efficiency.
- Overview of multi-unit control for triple units (60 class)



#### ■ Simultaneous extension of height difference and equivalent length

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



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

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

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

The minimum connection capacity index of the indoor unit shall be 63 or more (Outdoor units above indoor units only).

#### • Equivalent length Max. 190 m

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

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

#### ■ REFNET header downstream branching supported

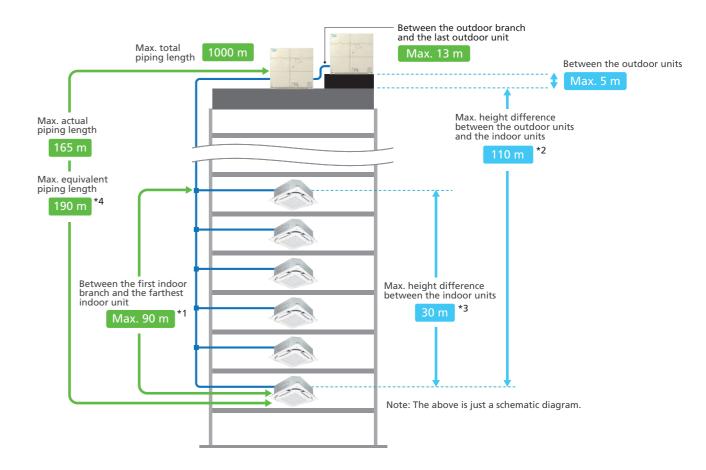
Piping branch by REFNET joint is possible downstream of REFNET header. The indoor unit arrangement can be more flexible.



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

#### Long piping length

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



	Actual piping length (Equivalent)	165 m (190 m)*4
Andrews allowable winters because	Total piping length	1000 m
Maximum allowable piping length	Between the first indoor branch and the farthest indoor unit	90 m*1
	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)
	Between the outdoor units (Multiple use)	5 m
Maximum allowable height difference	Between the indoor units	30 m* <sup>3</sup>
	Between the outdoor units and the indoor units	110 m*2

<sup>\*1.</sup> No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. Various conditions and requirements have to be met to

allow utilisation of 90 m piping length. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.

\*2. When Height differences above 50 m if the outdoor unit is above the indoor unit and 40 m if the outdoor unit is below the indoor unit, a dedicated setting on the outdoor

unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

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

\*4. If equivalent piping length from outdoor unit to indoor unit is 90 m or more, make sure to size up the liquid and gas pipes of the main piping.

## / H Series

48

## Design Flexibility

#### Connection ratio

Connection capacity at maximum is 200%.



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

#### Conditions of VRV indoor unit connection capacity

			Indo	or units		
Applicat <b>VRV</b> ind	ole oor units	FXDQ	FXSQ	FXMQ-PA	FXAQ	Other <b>VRV</b> indoor unit models*1
Single	8 - 20 class					200%
outdoor units	22, 24 class		20	000		180%
Double o	outdoor units		20	0%		160%
Triple ou	tdoor units					130%

<sup>\*1</sup> For the FXF(S)(T)Q25 models, maximum connection ratio is 130 % for the entire range of outdoor units.

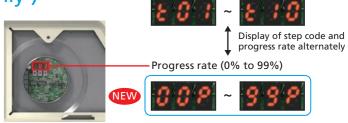
## Easy Installation



#### Process visualization (Test run only\*)

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

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



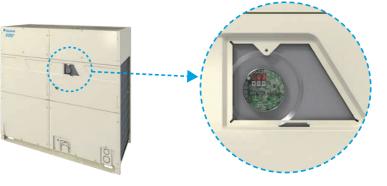
Step code (t01 to t10)

#### ■ Electrical component service window

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

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

You can also quickly check the error code during service.



#### Improved refrigerant piping workability

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

#### **Conventional models**



Working in closed place is difficult





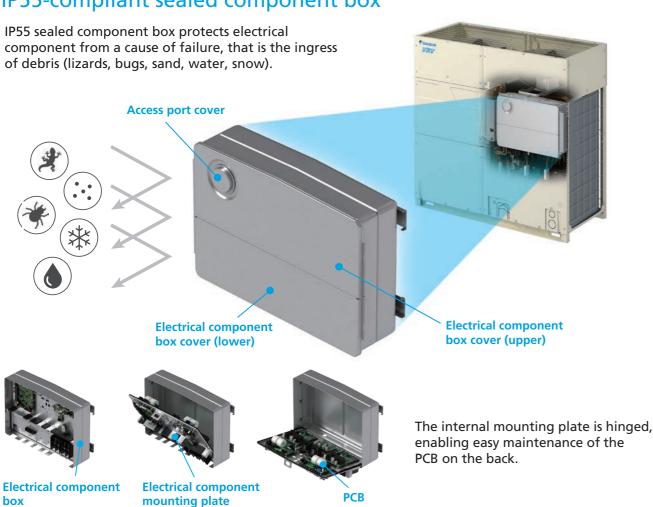
Work becomes easier with sufficient space

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

\*Refer to page 53 for outdoor unit combination details.

## Reliability

#### ■ IP55-compliant sealed component box



#### What is IP55?

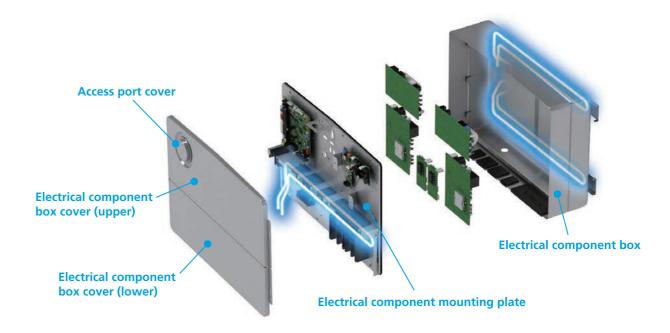
IP55 is the degrees of dust and water protection for the electrical component box equipped on the product.



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

#### ■ Enables operation in high outdoor temperature

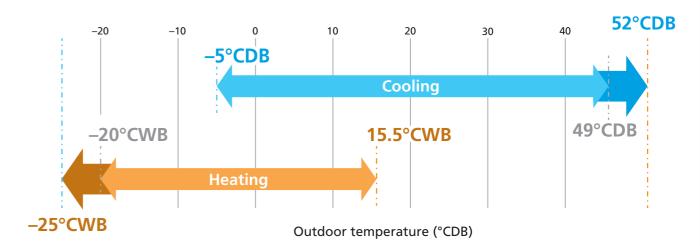
Three refrigerant cooling circuits enable stable operation even in high outdoor temperatures by suppressing a temperature rise for the PCB mounted in the sealed electrical component box.



#### ■ Extended operation temperature range

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

Upper limit up to 52°CDB in Cooling mode Lower limit down to –25°CWB in Heating mode

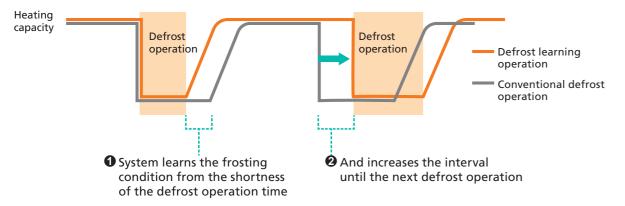




#### ■ Defrost learning function

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

#### Heating operation time improved by up to 10%!

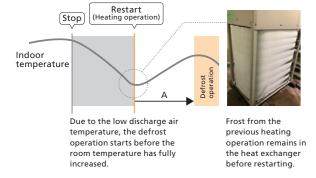


#### ■ Defrost before stop

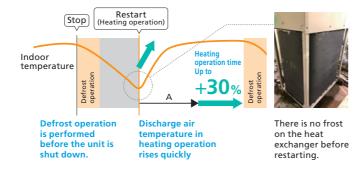
Defrost operation before the equipment is shut down speeds up the increase of discharge air temperature of the next heating operation, and extends the continuous heating operation time after restarting, thereby improving comfort.

Heating operation time is improved by up to 30%!

#### **Conventional defrost operation**



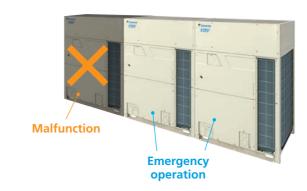
#### Defrost before stop



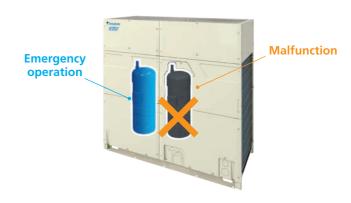
 $<sup>^{\</sup>star}$  Conditions for effectiveness estimation : Outdoor air temperature 2°C Round flow cassette with sensing operating at 100% capacity

#### ■ Double backup operation functions

#### Unit backup operation function

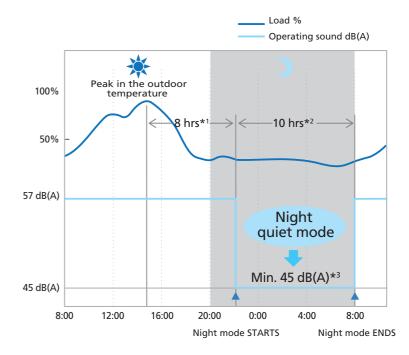


#### Compressor backup operation function



#### ■ Nighttime quiet operation function

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



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

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

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

## Outdoor Unit Lineup

#### **VRV** H Series

#### ■ Capacity range from 8 to 60 class

#### Lineup

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

#### Outdoor unit combinations

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

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

## Indoor Unit Lineup



#### ■ Enhanced range of choices

New lineup Indoor units subject to VRT smart co
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									INCVVI	псир	~	mac	or um	its subj	ect to	V I \ I \ 31	man t co	JIICIOI
			20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
Туре	Model Name		2.2	2.8	3.6		5.6								18		22.4	
		Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM	0							 					 				
Round Flow Cassette with Sensing	FXFSQ-AVM								1									
Round Flow Cassette	FXFQ-AVM	00							1					 				
Compact Multi Flow Cassette	FXZQ-BVM								 	1				 				
Double Flow Cassette	FXCQ-BVM								 					1 1 1 1 1				
Single Flow Cassette	FXEQ-AV36								1					 				
Clim Duct (Standard)	FXDQ-PDVE	(700 mm width type)							 	 				 				
Silili Duct (Stalidard)	FXDQ-NDVE	(900/1,100 mm width type)							 	! ! !				1 1 1 1				
Slim Duct (Compact)	FXDQ-TV1C(A)								1 1 1 1 1	 								
Middle Static	FXSQ-PAVE	- 1							 					 				i ! !
Pressure Duct	FXDYQ-MAV1								1									
Middle-High Static Pressure Duct	FXMQ-PAVE								 					 				
High Static Pressure Duct	FXMQ-PV1A													 				
Outdoor-Air	FXMQ-MFV1								 	1				 				
Processing offic	FXMQ-AFVM								 					 				
4-Way Flow Ceiling Suspended	FXUQ-AVEB									! ! !				 				
Ceiling Suspended	FXHQ-MAVE								 					 				
4-Way Flow Ceiling Suspended  Ceiling Suspended  Ceiling Suspended	FXHQ-BVM								 	 				 				
Mounted	FXAQ-AVM								 	1				1				
Floor Standing	FXLQ-MAVE								1 1 1 1	 				1				
Concealed Floor Standing	FXNQ-MAVE								1	! ! !				1				
Floor Standing FXLQ-MAVE  Concealed Floor Standing FXNQ-MAVE  Heat Reclaim Ventilator VAM-HVE  Airflow rate 150-2000 m³/h																		
	Round Flow Cassette with Sensing and Streamer Round Flow Cassette with Sensing Round Flow Cassette Compact Multi Flow Cassette Double Flow Cassette Single Flow Cassette Slim Duct (Standard) Slim Duct (Compact) Middle Static Pressure Duct Middle-High Static Pressure Duct High Static Pressure Duct Outdoor-Air Processing Unit 4-Way Flow Ceiling Suspended Ceiling Suspended Mounted Floor Standing Concealed Floor Standing	Round Flow Cassette with Sensing and Streamer  Round Flow Cassette with Sensing  Round Flow Cassette FXFQ-AVM  Compact Multi Flow Cassette  Double Flow Cassette  FXEQ-BVM  FXEQ	Round Flow Cassette with Sensing and Streamer  Round Flow Cassette with Sensing and Streamer  Round Flow Cassette with Sensing  Round Flow Cassette FXFQ-AVM  Compact Multi Flow Cassette FXZQ-BVM  Double Flow Cassette FXZQ-BVM  Single Flow Cassette FXZQ-BVM  FXDQ-PDVE  FXDQ-NDVE  Slim Duct (Standard)  FXDQ-PDVE  FXDQ-NDVE  FXDQ-N	Round Flow Cassette with Sensing and Streamer  Round Flow Cassette with Sensing and Streamer  Round Flow Cassette FXFQ-AVM  Round FXDQ-PDVE  Round Flow Cassette FXFQ-AVM  Round FXDQ-PDVE  Round FION Cassette FXFQ-AVM  Round FXDQ-PDVE  Round FION Cassette FXFQ-AVM  Round FXAQ-PVI  Round FION Cassette FXFQ-AVM  Round FXAQ-AVE  Round FION Cassette FXFQ-AVM  Round FXAQ-AVM  Rou	Round Flow Cassette with Sensing and Streamer  Round Flow Cassette with Sensing and Streamer  Round Flow Cassette with Sensing  Round Flow Cassette FXFQ-AVM  Round FIOW Cassette FXFQ-AVA36  FXDQ-PVE  Round Flow Cassette FXFQ-AVM  Round FXDQ-PVE  Round Flow Cassette FXFQ-AVM  Round FXDQ-PVE  Round FIOW Cassette FXFQ-AVM  Round FXQ-PAVE  Round FIOW Cassette FXFQ-AVM  Round FXQ-PAVE  Round FIOW Cassette FXFQ-AVM  Round FXMQ-PAVE  Round FIOW Cassette FXFQ-AVM  Round FXMQ-AVEB  Round FIOW Cassette FXFQ-AVM  Round FXMQ-AVM  Round FXAQ-AVM  Round FX	Round Flow Cassette with Sensing and Streamer Round Flow Cassette with Sensing and Streamer Round Flow Cassette with Sensing Round Flow Cassette RXFSQ-AVM ROUND Flow Cassette FXFQ-AVM ROUND Flow Cassette FXFQ-AVM ROUND Flow Cassette FXEQ-BVM ROUND FIND FIND FROM FIND FROM FIND FIND FIND FIND FIND FIND FIND FIND	Round Flow Cassette with Sensing and Streamer Round Flow Cassette with Sensing and Streamer Round Flow Cassette With Sensing Round Flow Cassette FXFQ-AVM Round FX	Type	Round Flow Cassette with FXFQ-AVM FXFQ-	Type	Type	Type	Type	Type	Type	Type    Model Name   Capacity Range(W)   22   28   32   40   50   63   71   80   100   125   140   145   160	Type    Model Name   Capachy Rangel W   22   28   36   45   56   71   80   100   125   140   145   160   120	Type    Model Name   Capacity Range(W)   22   28   32   40   50   33   71   80   100   125   140   145   160   180   200     Round Flow Cassette with Sensing and Streamer   FXFTQ-AVM

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





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

<sup>\*2.</sup> Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for RXYQ8-20BYM, 180% for RXYQ22/24BYM, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 47 for note on connection capacity of indoor units.

## Outdoor Unit Specifications

#### Specifications

★ Values based on GEMS determination 2019.

TCSPF: Total Cooling Seasonal Performance Factor

In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.

Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures\* as stipulated in AS/NZS 3823.4.1:2014.

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

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

Heat Pump

VRV H Series

							J		Man A						
Model		RXYQ8BYM	RXYQ10BYM	RXYQ12BYM	RXYQ14BYM	RXYQ16BYM	RXYQ18BYM	RXYQ20BYM	RXYQ22BYM	RXYQ24BYM	RXYQ26BYM				RXYQ34BYM
Combination units					_	_		_	_	<u> </u>	RXYQ12BYM RXYQ14BYM	RXYQ12 RXYQ16		`	RXYQ14BYM RXYQ20BYM
Power supply				3-phase 4-wire	system, 380-415 V/	/380 V, 50/60 Hz	1						)-415 V/380 V, 50/60 Hz		1011 Q2 05 1111
Cooling capacity	Btu/h kW	76,400	95,500 28.0	114,000 33.5	136,000 40.0	154,000 45.0	171,000 50.0	191,000 56.0	210,000	229,000	250,000	268,0			327,000
	Btu/h	22.4 85.300	107,000	128,000	154,000	171,000	191.000	215,000	61.5 235,000	67.0 256,000	73.5 282,000	78.5 299,0		89.5 0 343,000	96.0 369,000
Heating capacity	kW	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	75.0	82.5	87.5	93.5	100	108
Power Cooling Heating	kW kW	5.17 5.33	6.81	8.70 9.67	10.7 11.0	13.3 13.5	14.3 14.9	16.9 17.0	18.6 19.6	21.6	19.4 20.7	22.0		25.6 26.7	27.6 28.0
Capacity control	% %	11-100	13-100	12-100	7-100		14.9	4-100	19.6	22.2	20.7	23.2	7-100	26.7	6-100
AEER Cooling		4.00	3.83	3.61	3.49	3.18	3.29	3.12	3.12	2.94	3.53	3.35	3.40	3.29	3.26
ACOP Heating		4.33	4.20	3.66	3.82	3.49	3.54	3.50	3.33	3.21	3.74	3.58		3.58	3.65
TCSPF (Cooling) Hot Commercial/ Average		6.55/5.69 6.55/4.63	6.17/5.42 6.24/4.55	6.02/5.26 6.17/4.48	5.88/5.07 5.97/4.20	5.37/4.77 5.47/4.04	5.45/4.86 5.55/4.14	5.49/4.18 5.67/4.13	5.03/4.53 5.14/3.95	4.85/4.37 4.99/3.84	5.94/5.16 6.06/4.33	5.63/4 5.75/4			5.65/4.92 5.79/4.16
Residential Cold		7.25/4.58	6.90/4.53	6.92/4.52	6.73/4.19	5.99/4.09	6.05/4.19	6.36/4.21	5.60/4.01	5.45/3.93	6.82/4.34	6.36/4			6.51/4.21
HSPF (Heating) Hot		4.51/4.53	4.46/4.47	4.28/4.29	4.18/4.19	4.30/4.30	4.35/4.35	4.26/4.26	4.03/3.96	3.95/3.88	4.23/4.24	4.29/4			4.23/4.23
Commercial/ Average Cold		4.28/4.17 3.78/3.54	4.12/3.99 3.64/3.32	3.65/3.16 2.95/2.60	3.24/3.05 2.84/2.48	3.58/3.03 2.83/2.45	3.60/3.03 2.83/2.44	3.17/2.94 2.75/2.36	3.05/2.51	2.98/2.44	3.60/3.11	3.61/3			3.21/2.99
Casing colour		3.76/3.34	3.04/3.32		vory white (5Y7.5/1		2.03/2.44	2.75/2.50	2.67/2.08	2.61/2.03	2.89/2.54	2.88/2 Ivory white (		51 2.82/2.44	2.79/2.41
Compressor				He	rmetically sealed so	roll						Hermetically seal	led scroll type		
Motor output	kW	4.3	6.2	7.7	3.9+4.4	4.4+5.0	4.0+6.6	4.5+7.4	7.0+7.3	7.7+8.0	7.7+(3.9+4.4)	,	, ,	, , ,	(3.9+4.4)+(4.5+7.4)
Airflow rate	ℓ/s m³/min	2,583 155	2,817 169	3,017 181	4,333 260	4,433 266	4,300 258	5,100 306	7,10		3,017+4,333 181+260	3,017+4 181+2			4,333+5,100 260+306
Dimensions (LL-M/-D)		155	1,660×930×765	101	200		.240×765	300	1,660×1,7		1017200				(1,660×1,240×765)+
Dimensions (H×W×D)	mm	245		25		,		10					930×765)+(1,660×1,240×7		(1,660×1,240×765)
Machine weight Sound level (Cooling/Heating)	kg dB(A)	215 56/56	57/58	60/62	31	10 61/61	] 3	40 65/66	67/67	5 68/68		225+310 64/6	5	225+340	310+340 66/67
Sound power	dB	78	79	00/02	83	01/01	85	90	90			86	87		91
Operation Cooling	°CDB			1	−5 to 52							−5 to			
range Heating	°CWB				-25 to 15.5				-25 to 15.5						
Refrigerant Type Charge	kg	6.9	7.1	7.2	R-410A 9.7	9.9	1	1.7	R-410A 11.7 7.2+9.7 7.2+9.9					7.2+11.7	9.7+11.7
Piping Liquid	mm		Brazing)	7.2		3.3		(Brazing)	∮15.9 (Brazing) ∮19.1 (Brazing)					3.7 1 11.7	
connections Gas	mm	₱ 19.1 (Brazing)	<i>ϕ</i> 22.2 (Brazing)			₱ 28.6 (Brazing)									
													1	ij	
Model		RXYQ36BYM	RXYQ38BYM	RXYQ40BYM	RXYQ42BYM	RXYQ44BYM	RXYQ46BYM	RXYQ48BYM	RXYQ50BYM	RXYQ52BY		Q54BYM	RXYQ56BYM	RXYQ58BYM	RXYQ60BYM
Combination units		RXYQ16BYM RXYQ20BYM	RXYQ18BYM	RXYQ20BYM RXYQ20BYM	RXYQ20BYM RXYQ22BYM	RXYQ20BYM RXYQ24BYM	RXYQ22BYM RXYQ24BYM	RXYQ24BYM RXYQ24BYM	RXYQ12BYM RXYQ18BYM	RXYQ12BYN RXYQ20BYN		'Q14BYM 'Q20BYM	RXYQ16BYM RXYQ20BYM	RXYQ18BYM RXYQ20BYM	RXYQ20BYM RXYQ20BYM
Combination units		— KX1Q20B1IVI	RXYQ20BYM —	— KATQZUBTIVI	— KATQZZBTIVI	— KATQ24bTIVI	- KATQ24BTIVI	- KATQ24bTIVI	RXYQ20BYM	RXYQ20BYN		Q20BYM	RXYQ20BYM	RXYQ20BYM	RXYQ20BYM
Power supply				3-phase 4-wire	system, 380-415 V	/380 V, 50/60 Hz				(2001)		•	)-415 V/380 V, 50/60 Hz	<===	<====
Cooling capacity	Btu/h	345,000	362,000	382,000	401,000	420,000	439,000	458,000	476,000	496,000	5	18,000	536,000	553,000	573,000
	kW Btu/h	101 386,000	106 406,000	430,000	117 450,000	123 471,000	128 491,000	134 512,000	139 534,000	145 558,000		152 84,000	157 601,000	162 621,000	168 645,000
Heating capacity	kW	113	119	126	132	138	144	150	156	163		171	176	182	189
Power Cooling	kW	30.2	31.2	33.8	35.5	38.5	40.2	43.2	39.9	42.5		44.5	47.1	48.1	50.7
consumption Heating	kW	30.5	31.9	34.0	37.1	39.2	41.8	44.4	41.6	43.7		45.0	47.5	48.9	51.0
Capacity control  AEER Cooling	%	3.15	3.20	3.13	4-100 3.13	3.03	3.03	2.94	3.29	6-100		3.21	5-100 3.14	3.17	3.13
ACOP Heating		3.53	3.56	3.54	3.45	3.37	3.31	3.25	3.58	3.57		3.61	3.53	3.55	3.54
TCSPF (Cooling) Hot		5.44/4.80	5.47/4.84	5.49/4.82	5.23/4.66	5.12/4.57	4.93/4.44	4.85/4.37	5.59/4.93	5.60/4.91		59/4.88	5.46/4.81	5.48/4.83	5.49/4.82
Commercial/ Average Cold		5.58/4.10 6.19/4.16	5.61/4.14 6.21/4.21	5.67/4.13 6.36/4.22	5.38/4.03 5.94/4.11	5.28/3.97 5.83/4.06	5.06/3.89 5.52/3.97	4.99/3.84 5.45/3.93	5.73/4.22 6.37/4.28	5.78/4.21 6.48/4.28		75/4.15 45/4.21	5.61/4.11 6.25/4.18	5.63/4.14 6.26/4.21	5.67/4.13 6.36/4.22
HSPF (Heating) Hot		4.28/4.28	4.30/4.30	4.26/4.26	4.14/4.14	4.09/4.09	4.00/3.92	3.96/3.88	4.30/4.30	4.27/4.27		24/4.24	4.27/4.27	4.29/4.29	4.26/4.26
Commercial/ Average		3.21/2.98	3.55/2.99	3.18/2.95	3.12/2.90	3.07/2.85	3.02/2.48	2.98/2.45	3.58/3.03	3.54/2.99	3.	20/2.98	3.20/2.97	3.54/2.98	3.18/2.95
Residential Cold		2.79/2.40	2.79/2.40	2.76/2.36	2.72/2.35	2.68/2.30	2.64/2.06	2.61/2.03	2.83/2.44	2.80/2.41	2.	78/2.40	2.78/2.39	2.78/2.39	2.76/2.36
Casing colour Type					vory white (5Y7.5/1 letically sealed scro	·						Ivory white ( Hermetically seal			
Compressor Motor output	kW	(4.4+5.0)+	(4.0+6.6)+	(4.5+7.4)+	(4.5+7.4)+	(4.5+7.4)+	(7.0+7.3)+	(7.7+8.0)+	7.7+(4.0+6.6)+(4.5+7.4	4) 7.7+(4.5+7.4)+	5+7 (3.9+4.	1)+(4.5+7.4)+	(4.4+5.0)+(4.5+7.4)+	(4.0+6.6)+(4.5+7.4)+	(4.5+7.4)+(4.5+7.4)+
iviotor output		(4.5+7.4)	(4.5+7.4)	(4.5+7.4)	(7.0+7.3)	(7.7+8.0)	(7.7+8.0)	(7.7+8.0)	, , ,		(2	.5+7.4)	(4.5+7.4)	(4.5+7.4)	(4.5+7.4)
Airflow rate	ℓ/s m³/min	4,433+5,100 266+306	4,300+5,100 258+306	5,100+5,100 306+306	5,100+7 306+4			+7,167 +430	3,017+4,300+5,100 181+258+306	3,017+5,100+5 181+306+30		5,100+5,100 +306+306	4,433+5,100+5,100 266+306+306	4,300+5,100+5,100 258+306+306	5,100+5,100+5,100 306+306+306
Dimensions (H×W×D)	mm		240×765)+(1,660×	<u> </u>	1 1 1			+(1,660×1,750×765)	 (1,660×930×765)+(1,660×		40×765)			,240×765)+(1,660×1,240×7	· · · · · · · · · · · · · · · · · · ·
Machine weight	kg	310+340		+340		+385		+385		+340+340		310+340		340+3	40+340
Sound level (Cooling/Heating)	dB(A)		/67	68/69	69/70	70/70	71	/71	67/68			69/7	0	0.4	70/71
Sound power Operation Cooling	°CDB	9	)1	I	-5 to 52	93		-	92			93 -5 to	52	94	95
range Heating	°CWB				-25 to 15.5							–25 to	15.5		
Refrigerant Type					R-410A							R-410			
Charge	kg mm	9.9+11.7	<u> </u>		410.1 (Prazing)	<u>+11.7</u>			7.2+	11.7+11.7	9.7+	11.7+11.7	9.9+11.7+11.7	11.7+1	1.7+11.7
Piping Liquid Gas	mm				∮19.1 (Brazing)  ∮41.3 (Brazing)			-				φ 19.1 (Br			
		1			, (5.02mig)				1			(DI	J.		

Notes: Specifications are based on the following conditions;

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

Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a Height of 1.5 m.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.

## IN S High Seasonal Efficiency SERIES

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



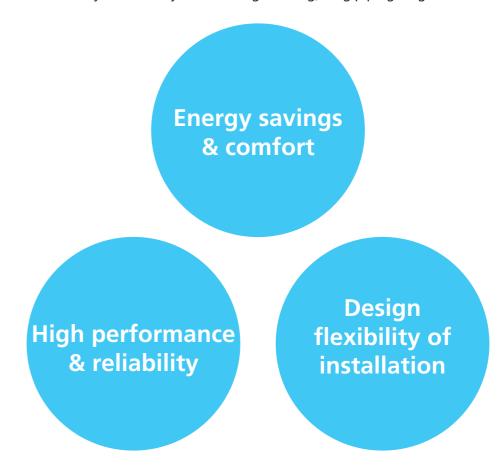


Presentation Movie



#### The VRV S High Seasonal Efficiency Series concept

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



#### ■ Energy savings & comfort

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

#### ■ High performance & reliability

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

#### Design flexibility of installation

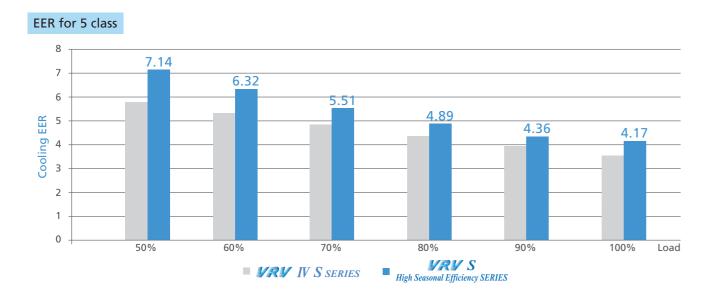
- ✓ The high external static pressure of 40 Pa enables installation in small installation spaces where the airflow direction needs to be diverted to avoid short circuits.
- ✓ Low height casing design
- √ Increased actual piping length up to 120 m

## **Energy Savings & Comfort**

#### **Energy savings**

#### ■ High seasonal efficiency

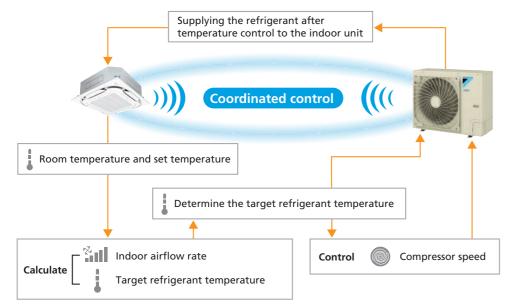
The VRT Smart Control enables improvements on efficiency during low load operation, achieving high seasonal efficiency.



#### VRT Smart Control

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

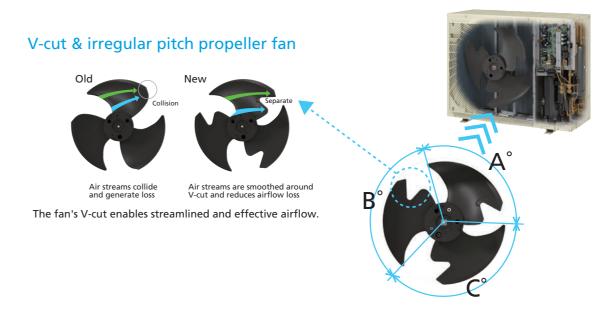




- Notes: For the classification of indoor units (VRT smart control and VRT control), refer to the indoor unit lineup.
   If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
  - If a system has both outdoor-air processing air conditioners (FXMQ-MF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

#### Comfort

#### Quiet operation

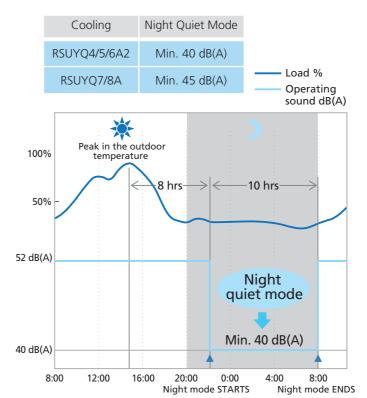


Irregular blade pitch also contributes to reduced airflow noise.

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

#### Nighttime quiet operation function

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





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

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

   In case of 4-6 class outdoor unit

## High Performance & Reliability

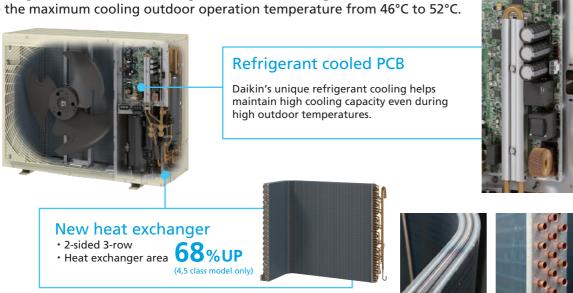
#### High temperature operation

#### ■ Extended operation range up to 52°C

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



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



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

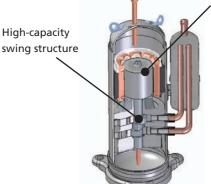
Rated cooling capacity can be maintained even when outdoor temperature is up to 43°C.



#### New swing compressor

High efficiency, high capacity DC inverter swing compressor

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



(high wire-efficiency winding/ high-efficiency magnet)

#### Improved performance

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

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

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



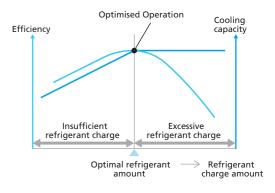
\* Continuous operation range is 198 to 264 V.

#### Automatic refrigerant charge function

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

#### Optimised operation efficiency

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



#### ■ Higher quality and easier installation

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



Calculation of necessary refrigerant







No recalculation of charge amounts due to minor design changes locall

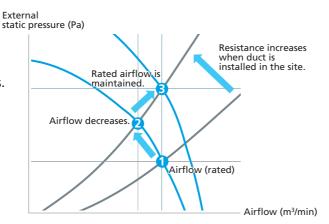
## Design Flexibility of Installation

#### No short circuits

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

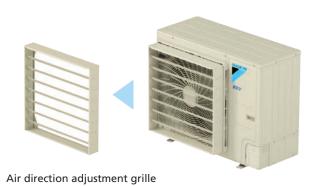
The new *VRV* S High Seasonal Efficiency Series outdoor unit has been achieved high external static pressure up to 40 Pa, realizing stable operation in small installation sites where the air direction adjustment grille or duct is used to avoid short circuits.

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.



Wind is diverted upwards.





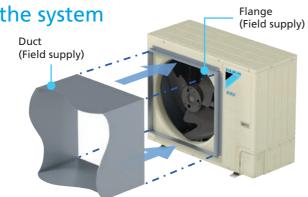
Wind is diverted sideways.





#### ■ 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

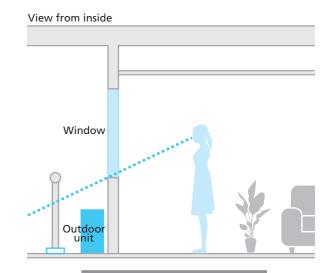
The new design has been optimised for the *VRV* S High Seasonal Efficiency Series with the height of all models reduced to only 870 mm. This low height casing design provides occupants with a clear, unobstructed view of the scenery.

#### Previous **VRV** IV S series



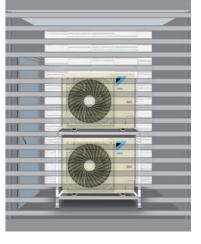
- Ideal solution that minimises both visual and sound impact
- Can be installed in a wide variety of locations and applications
- No space required for multiple outdoor units





#### 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

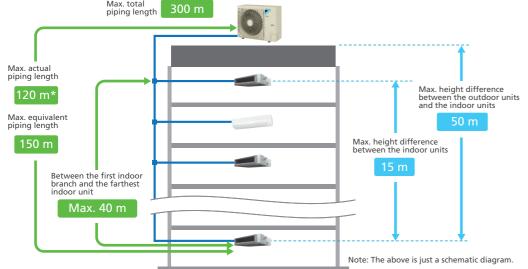
#### ■ Increased actual piping length up to 120 m\*

allows for various installation! Previous VRV IV S series High Seasonal Efficiency SERIES 100 m

Actual piping length increased by 20%

Installation on the rooftop of residential apartments





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

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

#### Installation on balconies of residential apartments



#### One outdoor unit can provide comfort for the whole house

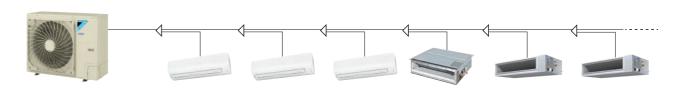


#### ■ Wide variety of indoor unit

Indoor Unit Lineup

W	ide varie	ty of inc	loor ur	nit															
										New I	ineup	VRI	Indo	or un	its sub	ject to	VRT s	mart co	ontrol
ory				20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
Category	Туре	Model Name	Capacity Range(kW)	2.2	2.8	3.6		5.6			9	11.2			16.2			22.4	28
Ů			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM								 					 				
ssette	Round Flow Cassette with Sensing	FXFSQ-AVM								1					 				
ited Ca	Round Flow Cassette	FXFQ-AVM	60												 				
Ceiling Mounted Cassette	Compact Multi Flow Cassette	FXZQ-BVM							 	 	1 1 1 1 1	 			 	 			
Ceiling	Double Flow Cassette	FXCQ-BVM								1					! ! !				
	Single Flow Cassette	FXEQ-AV36									! ! !				 				
	Slim Duct (Standard)	FXDQ-PDVE	(700 mm width type)					1 1 1 1	1 1 1 1	 	1 1 1 1 1	 			1 1 1 1 1	 			
	Jiiii Duct (Staridard)	FXDQ-NDVE	(900/1,100 mm width type)		 	 				 	1 1 1 1 1				 				
uct	Slim Duct (Compact)	FXDQ-TV1C(A)								1	1				1				
aled [	Middle Static	FXSQ-PAVE	-							! !					 	 			
Conce	Pressure Duct	FXDYQ-MAV1			! ! !	 		! ! !	! ! !										
Ceiling Concealed Duct	Middle-High Static Pressure Duct	FXMQ-PAVE								 					 	 			
O	High Static Pressure Duct	FXMQ-PV1A			! ! ! !	 		 	 		! ! !				1 1 1 1				
	Outdoor-Air	FXMQ-MFV1			 	 		 	 	1	 	 			 				
	Processing Unit	FXMQ-AFVM			! ! !	 		! !	! !	1						1			
papua	4-Way Flow Ceiling Suspended	FXUQ-AVEB			1	 		 	 		1				! ! !	 			
g Suspe	Suspe	FXHQ-MAVE			1					1					 	1			
Ceiling	Ceiling Suspended	FXHQ-BVM			 	 		 	 	 	! ! ! !				! ! ! !	 			
Wa	ll Mounted	FXAQ-AVM								1	1 1 1				 				
Floor Standing	Floor Standing	FXLQ-MAVE								1	I I I				 				
-loor St	Concealed Floor Standing	FXNQ-MAVE									1				 				

VAM-HVE



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

Airflow rate 150-2000 m<sup>3</sup>/h

## **Outdoor Units**

#### **VRV** S High Seasonal Efficiency Series

#### Specifications

**Heat Pump** 

N	10DEL		RSUYQ4A2VMA	RSUYQ5A2VMA	RSUYQ6A2VMA	RSUYQ7AYM	RSUYQ8AYM				
Power supply			1-ph	ase, 220-240/220-230 V, 50/6	3-phase, 380-415	V/380 V, 50/60 Hz					
		Btu/h	38,200	47,800	54,600	68,200	76,400				
Cooling capacity		kW	11.2	14.0	16.0	20.0	22.4				
		Btu/h	42,700	54,600	61,400	76,400	85,300				
Heating capacity		kW	12.5	16.0	18.0	22.4	25.0				
Power	Cooling	kW	2.48	3.36	3.95	5.46	6.61				
consumption	Heating	kW	2.51	3.28	3.90	5.10	5.92				
Capacity control		%	23 to 100	15 t	o 100	9 to	100				
AEER*	Cooling		4.07	3.81	3.73	3.42	3.19				
ACOP*	Heating		4.46	4.42	4.22	4.09	3.95				
	Hot		5.85 / 5.29	6.04 / 5.45	6.10 / 5.51	5.34 / 4.87	5.18 / 4.71				
TCSPF* (Cooling) Commercial / Residential	Average		5.57 / 4.21	5.91 / 4.47	6.04 / 4.60	5.30 / 4.13	5.19 / 4.06				
	Cold		5.78 / 4.09	6.23 / 4.45	6.39 / 4.63	5.60 / 4.15	5.53 / 4.14				
HSPF* (Heating) Commercial / Residential	Hot		4.96 / 4.98	4.69 / 4.71	4.37 / 4.39	5.00 / 5.00	4.83 / 4.82				
	Average		4.81 / 4.74	4.55 / 4.50	4.25 / 4.22	4.74 / 4.58	4.58 / 4.41				
	Cold		4.56 / 4.47	4.28 / 4.18	4.02 / 3.95	4.42 / 4.22	4.27 / 4.07				
Casing colour			lvory white (5Y7.5/1)								
	Туре		Hermetically sealed swing type								
Compressor	Motor output (Cooling / Heating)	kW	2.0/2.4	3.1/3.6	3.5/4.0	1.9/2.3	3.2/3.2				
		l/s	1,450	1,400	1,450	2,	050				
	Cooling	m³/min	87	84	87	1	23				
Airflow rate		l/s	1,500	1,400	1,567	2,283	2,417				
	Heating	m³/min	90	84	94	137	145				
Dimensions (H×W×	D)	mm			870×1,100×460						
Machine weight		kg	95	9	98	1	20				
Sound pressure leve (Cooling/Heating)	el	dB(A)	52/54	53/54	55/56	58/61	59/63				
Sound power level (Cooling/Heating)		dB(A)	73/75	74/75	76/77	79/82	80/84				
Operation	Cooling	°CDB			-5 to 52						
range	Heating	°CWB			-20 to 15.5						
Refrigerant	Туре		R-410A								
gerant	Charge	kg	4.0		4.2 5.4						
Piping	Liquid	mm			φ9.5 (Flare)						
connections	Gas	mm	ф15.9	(Flare)	φ19.1 (Brazing)						

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

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
   During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.
- When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

   Refrigerant charge is required.

★ Values based on GEMS determination 2019.

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

In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed

by the air-conditioner during the Total Cooling & Heating operation periods in a year.

Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures\* as stipulated in AS/NZS 3823.4.1:2014.

Further, the annual outdoor temperatures are based on zoning Australia/ New Zealand into three distinct climate zones (Hot/Average/Cold).

This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSPF within the same climate zone.

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

#### Outdoor unit combinations

	MODEL		RSUYQ5A2VMA	RSUYQ4A2VMA	RSUYQ6A2VMA	RSUYQ7AYM	RSUYQ8AYM	
kW			11.2	14.0	16.0	20.0	22.4	
Class			4	5	6	7	8	
Capacity index			100	125	150	175	200	
Total capacity			50%	50	62.5	75	87.5	100
index of connectable indoor units	Combination(%)	100%	100	125	150	175	200	
		130%	130	162.5	195	227.5	260	
Maximum number of connectable indoor units			6	8	9	11	13	

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

## IN S SERIES

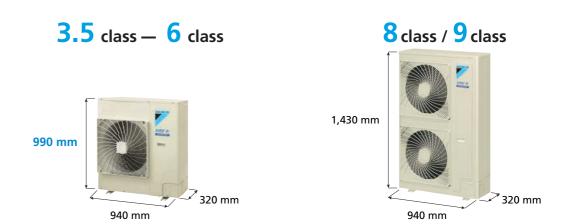
The Ideal Air Conditioning System for Residential Houses, Small Offices and Shops





#### ■ Compact & lightweight design

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

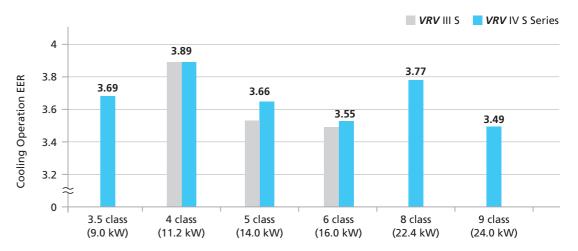


	3.5 class / 4 class	5 class	6 class	8 class / 9 class
Height	990 mm	990 mm	990 mm	1,430 mm
Product Weight	71 kg	78 kg	80 kg	138 kg
Footprint	0.30 m <sup>2</sup>	0.30 m <sup>2</sup>	0.30 m <sup>2</sup>	0.30 m <sup>2</sup>

#### Energy saving

#### High Energy Efficiency Ratio (EER)

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



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

## Comfort and Simplified Installation

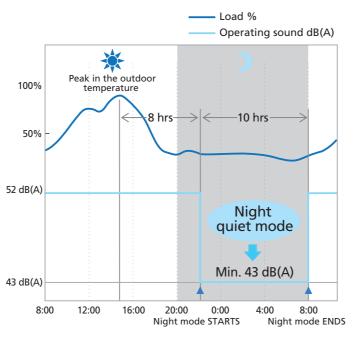
### Quiet operation

### Nighttime quiet operation function

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

This function is suitable for use in residential areas.



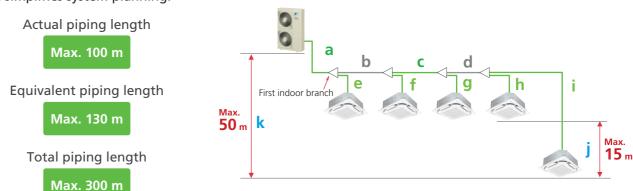


Notes: • This function is available in setting at site.

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

### ■ Makes the long piping design possible

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



				3.5,4 class	5,6 class	8,9 class
	Actual refrigerant piping le	ngth (Equivalent)	a+b+c+d+i	70 m (90 m)	70 m (90 m)	100 m (130 m)
Max. allowable piping length	Total piping length		a+b+c+d+e+f+g+h+i	250 m	300 m	300 m
	Between the first indoor br	anch and the farthest indoor unit	b+c+d+i	40 m	40 m	40 m
NASS Allers alle	Between the indoor units		j	10 m	15 m	15 m
Max. allowable height difference	Between the outdoor unit	If the outdoor unit is above	k	30 m	30 m	50 m
g dtererice	and the indoor unit	If the outdoor unit is below	k	30 m	30 m	40 m

## ■ Technologies for efficient and quiet operation

#### Swing compressor (3.5-6 class model only)

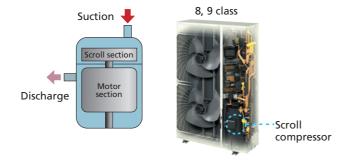
Daikin swing compressor has integrated the rotor with the blade, completely solving the refrigerant leakage and the wear problem caused by the mechanical friction between the rotor and the blade, which enhances the compressor efficiency and makes the compressor more quiet and durable.





### The structural scroll (8-9 class model only)

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



## Smooth air inlet bell mouth and aero spiral fan

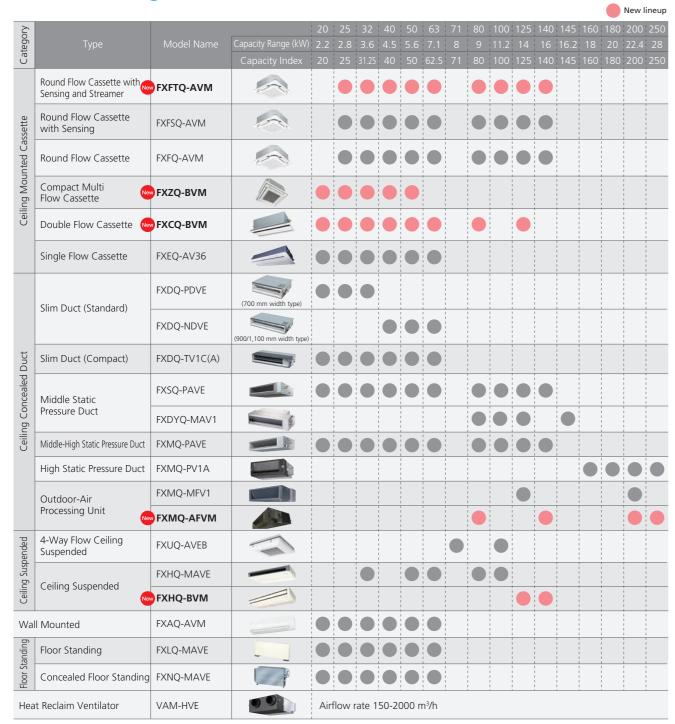
The smooth air inlet bell mouth and the aero spiral fan work to minimize turbulence in the airflow and reduce sound.

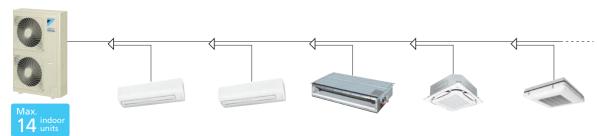
### DC fan motor

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

# Indoor Unit Lineup

## ■ Enhanced range of choices





















## Outdoor Units

## **VRV** IV S Series

## Specifications

Specifica	itions							Heat Pump
				9	Mar.		00	1
M	ODEL		RXYMQ3A2V4A	RXYMQ4A2V4A	RXYMQ5B2VM	RXYMQ6B2VM	RXYMQ8AY1	RXYMQ9AY1
Power supply			1-phase, 220-	-230 V, 50 Hz	1-phase, 220-240 V/	220-230 V, 50/60 Hz	3-phase, 380-	-415 V, 50 Hz
Caaling canacity		Btu/h	30,700	38,200	47,800	54,600	76,400	81,900
Cooling capacity		kW	9.0	11.2	14.0	16.0	22.4	24.0
Heating capacity		Btu/h	34,100	42,700	47,800	54,600	85,300	88,700
пеації Сарасіту		kW	10.0	12.5	14.0	16.0	25.0	26.0
Power consumption	Cooling	kW	2.44	2.88	3.83	4.51	5.94	6.88
rower consumption	Heating	KVV	2.28	2.60	3.04	3.59	6.25	6.82
Capacity control		%	24 to	100	15 to	100	20 to	100
AEER*	Cooling		_	_	3.39	3.31	_	_
ACOP*	Heating		_	_	4.20	4.09	_	_
TCSPF* (Cooling)	Hot		_	_	5.38 / 4.87	5.16 / 4.70	_	_
Commercial / Residential	Average		_	_	5.29 / 4.02	5.11 / 3.97	_	_
residential	Cold		_	_	5.58 / 4.01	5.40 / 3.99	_	_
LICDE+ (II )	Hot		_	_	4.33 / 4.35	4.28 / 4.30	_	_
HSPF* (Heating) Commercial /	Average		_	_	4.20 / 4.16	4.14 / 4.08	_	_
Residential	Cold		_	_	3.91 / 3.80	3.84 / 3.71	_	_
Casing colour					Ivory white	e (5Y7.5/1)		
Compressor	Туре			Hermetically se	aled swing type		Hermetically se	ealed scroll type
Compressor	Motor output (Cooling/Heating)	kW	1.9	92	3.2/3.5	3.7	3.8	4.8
Airflow rate		l/s	1,2	167	1,350	1,333	2,3	333
All How Tate		m³/min	7	6	81	80	14	40
Dimensions (H×W×D)		mm		990×94	40×320		1,430×9	940×320
Machine weight		kg	7	1	78	80	13	38
Sound level (Cooling/F	leating)	dB(A)	51/52	52/54	53/54	55/56	57/58	58/59
Sound power		dB(A)	69	70	74	76	75	76
Operation range	Cooling	°CDB			-5 to	o 46		
орегацон гапуе	Heating	°CWB			-20 to	15.5		
Refrigerant	Туре				R-4	10A		
nenigerani.	Charge	kg	2	.9	3.4	4.0	5	.8
	Liquid			φ 9.5	(Flare)		φ9.5 (E	Brazing)

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27° CDB, 19° CWB, Outdoor temp.: 35° CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Heating: Indoor temp.: 20° CDB, Outdoor temp.: 7° CDB, 6° CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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

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

φ 19.1 (Brazing)

• Refrigerant charge is required.

Piping connections

★ Values based on GEMS determination 2019.

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

In simple terms, TCSPF & HSPF represents the ratio of the Total Cooling & Heating capacity of the air-conditioner relative to the Total energy consumed by the air-conditioner during the Total Cooling & Heating operation periods in a year.

Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures\* as stipulated in AS/NZS 3823.4.1:2014.

φ 15.9 (Flare)

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

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

## Outdoor unit combinations

M	ODEL		RXYMQ3A2V4A	RXYMQ4A2V4A	RXYMQ5B2VM	RXYMQ6B2VM	RXYMQ8AY1	RXYMQ9AY1
kW			9.0	11.2	14.0	16.0	22.4	24.0
class			3.5	4	5	6	8	9
Capacity index			80	100	125	150	200	215
Total capacity index		50%	40	50	62.5	75	100	107.5
of connectable	Combination(%)	100%	80	100	125	150	200	215
indoor units	oor units		104	130	162.5	195	260	280
Maximum number of connectable indoor units			5	6	8	9	13	14

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

# IN Q SERIES

For Quick & High Quality Replacement Use

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



### **Standard Type**

Single outdoor units RQYQ6-16TY1A(E)

Double outdoor units ROYO18-32TNY1A(E)

Triple outdoor units RQYQ34-48TNY1A(E)

### **Space Saving Type**

Single outdoor units RQYQ18-20TY1A(E)

Double outdoor units RQYQ30-40TSY1A(E)

Triple outdoor units RQYQ42-48TSY1A(E)

\* (E): anti-corrosion model

# VRVIII-O

Heat Recovery

10 class—30 class

RQCEQ280-848PY1

## The VRV IV Q Series concept

Reusing existing refrigerant piping minimizes installation time and cost

An automatic refrigerant charge function enables high quality installation

Improvement
in capacity
and greater number
of indoor units

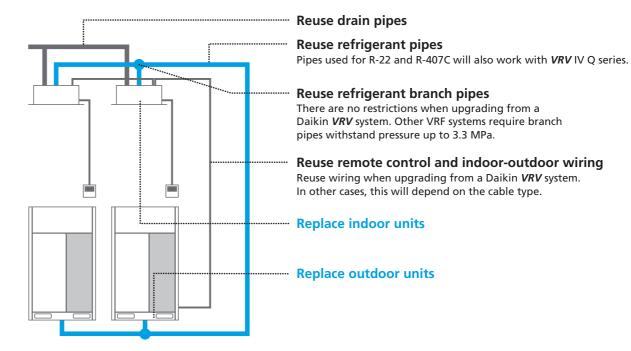
## Quick, quality and economical replacement

### Reuse

### Simple use of existing refrigerant piping

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

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



## Benefits of System Replacement

### Automatic

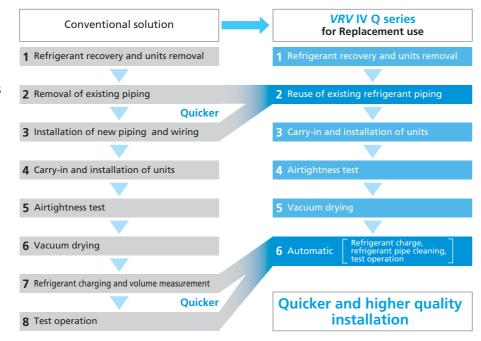
Refrigerant charging, cleaning and test operation done with just a single switch.

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.

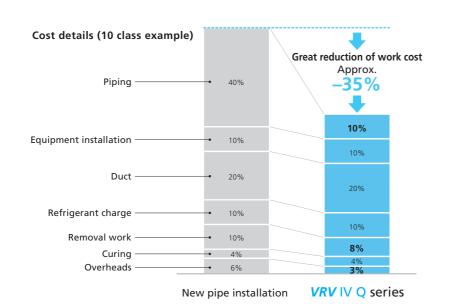
## ■ Time saving

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.



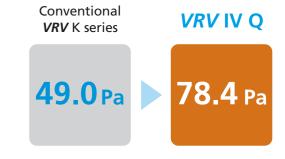
### Design flexibility

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

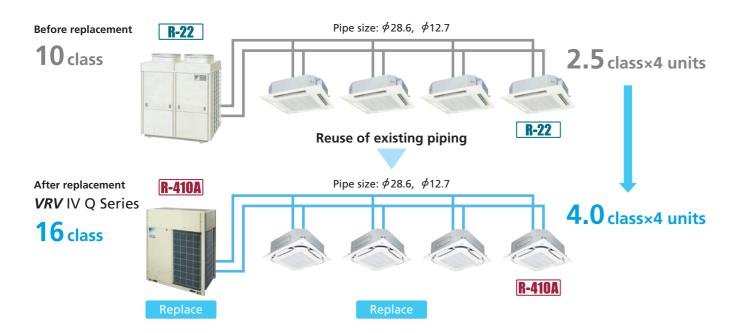
More indoor units can be connected in a single system, enabling consolidation of existing piping!



## 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 class VRV IV Q series using the refrigerant piping of an 10 class R-22 system.

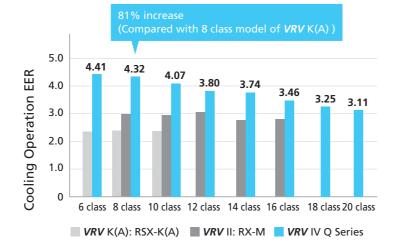


## **Energy saving**

### Higher Energy Efficiency Ratio (EER)

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

<sup>\*</sup> 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.



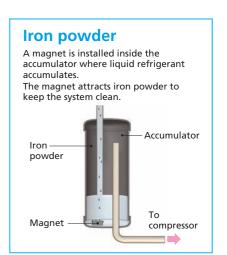
## New technology that enables use of existing piping

#### New tested contamination collection method

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

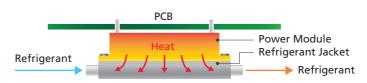
## **Impurities** An acid neutraliser agent is added to A generously sized filter is provided disable acids (chlorine ions), which cause corrosion. Acid (chlorine ion) Refrigerant Iron powder, **Impurities**

**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

### Outer Rotor DC Motor (ODM)

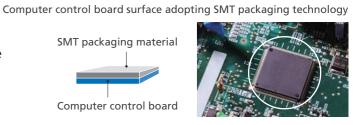
Only Daikin has adapted an ODM with the feature of stable rotation and volumetric efficiency.

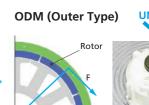


HIGH TORQUE

**MORE** efficient

Conventional Motor





## Guidelines for Reuse of Existing Refrigerant Piping

## Piping limits for reuse of existing piping

### **VRV** IV Q Series Heat Pump

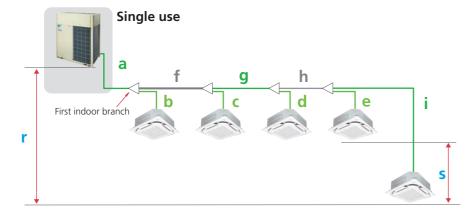


Actual piping length

Max. 150 m

Equivalent piping length

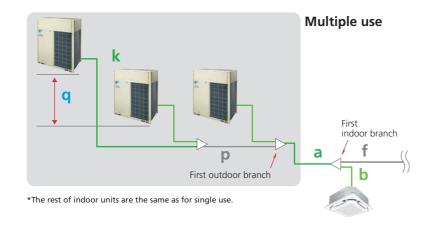
Max. 175 m



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

Total piping length

Max. 300 m



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

			Height Difference	Example
	Between the outdoor units (Mu	ltiple use)	5 m	q
Maximum allowable	Between the indoor units		15 m	S
height difference	Between the outdoor units	If the outdoor unit is above.	50 m	r
neight afficience	and the indoor units	If the outdoor unit is below.	40 m	r

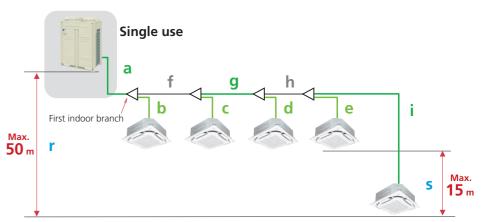
## **VRV** III Q Series Heat Recovery

Actual piping length

Max. 150 m

Equivalent piping length

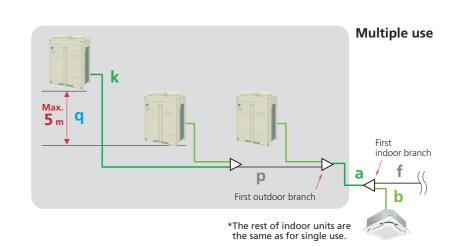
Max. 175 m



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

Total piping length

Max. 300 m



			Piping length	Example
	Actual refrigerant piping length	RQYQ8-48P	150 m (175 m)	
Maximum .	(Equivalent)	RQYQ140P, RQCEQ-P	120 m (150 m)	a+f+g+h+i
allowable	Total piping length		300 m	a+b+c+d+e+f+g+h+i
piping length	Between the first indoor branch and	the farthest indoor unit	40 m	f+g+h+i
	Between the outdoor branch and th	e last outdoor unit	10 m (13 m)	k+p
			Height Difference	Example
	Between the outdoor units (Multiple	use)	5 m	q
Maximum	Between the outdoor units (Mult Between the indoor units		15 m	S
allowable height difference	Between the outdoor units	If the outdoor unit is above.	50 m	r
g a.merenee	and the indoor units	If the outdoor unit is below.	40 m	r

## Guidelines for Reuse of Existing Refrigerant Piping

## Reusability of existing piping

### **VRV** IV Q series Heat Pump

									iping siz							
Type of piping	Capacity			Liq	uid							Gas				
		φ 6.4	<i>φ</i> 9.5	φ 12.7	<i>φ</i> 15.9	φ 19.1	φ 22.2	<i>φ</i> 12.7	φ 15.9	φ 19.1	φ 22.2	φ 25.4	φ 28.6	φ 34.9	φ 41.3	φ <b>54.1</b>
	6 class	X	SOO			Х	Х	Х	Х	SO	•			Х	X	Х
	8 class	X	SO	•		Х	X	X	X	SO		•	•	Х	X	X
	10 class	X	SO	•		Х	X	Х	X	X	SO		•	Х	X	X
	12 class	X	X	SO	•	X	X	Х	X	X	X	X	SO	•	Х	X
	14 class	X	X	S O	•	X	X	X	X	X	X	X	S O	•	Х	X
	16 class	X	X	SO	•	X	X	Х	X	X	X	X	SO	•	Х	X
	18 class	X	X	X	S O	•	Х	Х	X	X	X	X	SO	•	Х	Х
	20 class	X	X	X	SO	•	X	X	X	X	X	X	SO	•	Х	X
	22 class	X	X	X	SO	•	Х	X	X	X	X	X	SO	•	X	X
	24 class	X	X	X	SO	•	X	Х	X	X	X	X	X	SO	•	Х
Main piping	26 class	X	Х	X	X	SO	•	Х	Х	X	X	X	X	SO	•	Х
Ividin piping	28 class	X	X	X	X	SO	•	Х	X	X	X	X	X	S O	•	Х
	30 class	X	X	X	X	SO	•	X	X	X	X	X	X	SO	•	Х
	32 class	X	X	X	X	SO	•	X	X	X	X	X	X	SO	•	Х
	34 class	X	X	X	X	SO	•	Х	X	X	X	X	X	SO	•	Х
	36 class	X	X	X	X	SO	•	X	X	X	X	X	X	X	SO	•
	38 class	X	Х	X	X	S O	•	X	X	X	X	X	X	X	SO	•
	40 class	X	X	X	X	SO	•	Х	X	X	X	X	X	X	S O	•
	42 class	X	X	X	X	S O	•	Х	X	X	X	X	X	Х	S O	•
	44 class	X	X	X	X	SO	•	X	X	X	X	X	X	X	S O	•
	46 class	X	X	X	X	SO	•	X	X	X	X	X	X	X	SO	•
	48 class	X	X	X	X	SO	•	X	X	X	X	X	X	X	SO	•
	< 100	X	SO		Х	Х	Х	X	S O O		Х	X	X	X	X	X
	100 ≤ X < 150	X	SOO		Х	X	X	X	SO	•	X	X	X	X	X	X
	150 ≤ X < 160	X	SO		Х	X	X	Х	X	S O •			X	X	X	X
_	160 ≤ X < 200	X	SO	•	X	X	X	Х	Х	S O		•	Х	X	X	X
From	200 ≤ X < 290	X	SO	•		X	X	X	X	X	SO	•		Х	X	X
REFNET	290 ≤ X < 330	X	X	S O O		X	X	X	X	X	X	•	S O		Х	X
	330 ≤ X < 420	X	X	SO	•	X	X	Х	X	X	X	X	S O	•	Х	X
to REFNET *1	420 ≤ X < 480	X	X	X	S O O		Х	Х	X	X	X	X	S O	•	Х	Х
	480 ≤ X < 640	X	Х	Х	SO	•	Х	Х	X	X	X	X	SO	•	Х	X
	640 ≤ X < 900	X	X	X	X	S O O		X	X	X	X	X	X	S O	•	
	900 ≤ X < 920	X	X	X	X	SO	•	Х	X	X	X	X	X	SO		•
	920 ≤	Х	X	X	X	SO	•	X	X	X	X	X	X	X	SO	•
_	20-40 class	SOO		Х	X	X	X	S		Х	X	X	X	X	X	X
rom	50 class	S O	•	Х	X	X	X	S O	•	Х	X	X	X	X	X	X
	63-80 class	X	SOO		X	X	X	X	S O •		X	Х	Х	X	X	X
REFNET	100-125 class	X	SO		Х	X	X	X	SO	•			Х	X	X	X
	140-145 class	X	SO		Х	X	X	Х	SO				Х	X	X	X
to indoor unit*2	180 class	X	SO		Х	X	X	Х	X	SO			Х	X	X	X
	200 class	X	SO	•	Х	X	X	X	X	SO		•		Х	X	X
	250 class	X	S O		X	X	X	X	X	X	SO			X	X	X

- : Piping size of conventional R-22, R-407C model
   : Piping size of conventional R-410A model
   : Standard piping size of *VRV* IV Q series
- Piping size of conventional R-22, R-407C model
   Piping size of conventional R-10A model
   Standard piping size of VRV IV Q series. However, when equivalent piping length between outdoor unit and indoor unit is 90 m or more, size of main piping must be increased.
   Not possible
   Piping between REFNETs depends on total capacity index of indoor units on indoor unit depends on the capacity of the connected below each REFNET. It cannot exceed piping size of upstream side.

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

### **VRV** III Q series Heat Recovery

												Pipin	g size										
Type of piping	Capacity			Lic	uid						Suctio	n ga					Hig	gh an	id low	pres	sure	gas	
		φ 6.4	φ 9.5	φ 12.7	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 9.5			φ 19.1				φ 34.
	10 class	X	SO	•	Х	Х	Х	Х	Х	X	SO		•	Х	Х	Х	X	Х	S 🔾 🌑		Х	Х	Х
	13 class	X	X	S		Х	X	Х	X	X	X	S		Х	Х	Χ	X	X	S		Х	Х	Х
	16 class	X	X	SO	•		Х	X	X	X	X	Х	SO	•	Х	Χ	X	X	Х	SO	•	Х	Х
	18 class	X	X	X	SO	•	X	X	X	X	X	X	SO	•	X	X	X	X	X	SO	•	Х	X
Main piping	20 class	X	X	X	SO	•	Х	X	X	X	X	X	SO		Х	Х	X	X	X	S	•	0	Х
Iviairi pipirig	22 class	X	X	X	SO		Х	Х	X	X	X	X	SO		Х	Х	X	X	X	Х	S	0	Х
	24 class	X	X	X	SO	•	Х	X	X	X	X	X	S	0	X •	Χ	X	X	X	X	S	0	Х
	26 class	X	X	X	X	SO	•	Х	X	Х	X	Х	Х	SO	•	Х	X	X	X	Х	S	0	Х
	28 class	X	X	X	X	SO	•	Х	X	X	X	X	Х	SO	•	Х	X	X	X	Х	Х	SO	X •
	30 class	X	X	X	X	SO	•	Х	X	X	X	X	Х	SO	•	Х	X	X	X	X	Х	SO	X •
	< 50	S	0	X	X	X	Х	S •	0	X	X	X	Х	Х	Х	S	0	Х	X	X	Х	Х	X
	50 ≤ X < 100	X	S O •		X	Х	Х	Х	S 🔾 🗨		Х	X	Х	Х	X	Х	S O •		Х	Х	X	Х	X
	100 ≤ X < 150	X	S 🔾 🗨		X	Х	X	Х	SO	•			Х	Х	Х	X	SO	•	Х	Х	Х	Х	X
	150 ≤ X < 160	X	SO		X	X	X	X	Х	SO			Х	Х	Х	Х	X	SO		Х	Х	Х	Х
	160 ≤ X < 200	X	SO	•	X	X	Х	Х	X	SO		•	Х	Х	X	Х	X	SO	•	X	Х	Х	X
From	200 ≤ X < 290	X	SO	•		Х	Х	Х	X	X	SO	•		Х	Х	Х	X	X	SO		Х	Х	X
REFNET	290 ≤ X < 330	X	Х	S O C		Х	Х	Х	X	X	X	S •	0	Х	Х	Χ	X	X	S 🔾 🌑		Х	Х	X
to REFNET *1	330 ≤ X < 420	X	X	SO	•	Х	Х	X	X	X	X	X	S O	X •	Х	Χ	X	X	SO		•	Х	X
LO KEFINET " I	420 ≤ X < 480	X	X	X	SO		Х	X	X	X	X	Х	SO	•	Х	Х	X	X	X	Х	S	0	Х
	480 ≤ X < 640	X	X	X	SO	•	Х	X	X	X	X	X	S O	•	Х	Χ	X	X	X	X	S	0	Х
	640 ≤ X < 700	X	X	X		S 🔾 🔵		Х	X	X	X	X	Х	SO	•	X	X	X	X	X	S	0	Х
	700 ≤ X < 900	X	X	X		S 🔾 🌑		Х	X	X	X	Х	Х	SO	•	Χ	X	Х	X	Х	S	0	X •
	900 ≤	X	X	X	X	S 🔾 🌑		Х	X	X	X	X	Х	S	0	Χ	X	X	X	X	X	SO	X •
	20-40 class	S O •		Х	X	X	Х	S O •	)	Х	X	Х	X	X	X								$\overline{}$
	50 class	SO	•	Х	X	X	Х	SO	•	Х	X	X	Х	Х	X								
	63 class		S O •		X	X	X		S O •		Х	X	X	X	X								
From	80 class		S O •		X	Х	Х		S 🔾 🗨		Х	Х	Х	X	X								
BS	100-125 class	X	S 🔾 🔵		Х	X	Х	X	SO	•			Х	Х	X								
to indoor unit*2	140-145 class	X	SO		X	X	Х	Х	SO				Х	Х	X								
to muoor unit"2	180 class	X	SO		X	Х	Х	Х	Х	S O			Х	Х	X			/					
	200 class	X	SO	•		Х	X	X	X	SO		•		Х	X		/						
	250 class	Х	SO	•		Х	Х	Х	X	Х	SO		•	Х	Х								

- Piping size of conventional R-2, R-407C model
   Piping size of conventional R-410A model
   Standard piping size of VRV III Q series. However, when equivalent piping length between outdoor unit is 90 m or more, size of main piping must be increased.
   X: Not possible
   Piping between REFNETs depends on total capacity index of indoor units connected below each REFNET. It cannot exceed piping size of upstream side.
   Piping from BS to indoor unit depends on the capacity of the connected indoor unit. It cannot exceed piping size of upstream side.

## Outdoor Unit Lineup

## **VRV** IV Q Series Heat Pump

### ■ Enhanced lineup to 2 types

#### Lineup

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

### Outdoor unit combinations

### Standard Type

class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*3	Maximum number of connectable indoor units*2
6	16.0	150	RQYQ6T	RQYQ6T	_	75 to 195	9
8	22.4	200	RQYQ8T	RQYQ8T	_	100 to 260	13
10	28.0	250	RQYQ10T	RQYQ10T	_	125 to 325	16
12	33.5	300	RQYQ12T	RQYQ12T	_	150 to 390	19
14	40.0	350	RQYQ14T	RQYQ14T	_	175 to 455	22
16	45.0	400	RQYQ16T	RQYQ16T	_	200 to 520	26
18	50.4	450	RQYQ18TN	RQYQ8T + RQYQ10T		225 to 585	29
20	55.9	500	RQYQ20TN	RQYQ8T + RQYQ12T		250 to 650	32
22	61.5	550	RQYQ22TN	RQYQ10T + RQYQ12T		275 to 715	35
24	67.0	600	RQYQ24TN	RQYQ12T × 2	BHFP22P100	300 to 780	39
26	73.5	650	RQYQ26TN	RQYQ12T + RQYQ14T	BHFFZZF1UU	325 to 845	42
28	78.5	700	RQYQ28TN	RQYQ12T + RQYQ16T		350 to 910	45
30	85.0	750	RQYQ30TN	RQYQ14T + RQYQ16T		375 to 975	48
32	90.0	800	RQYQ32TN	RQYQ14T + RQYQ18T		400 to 1,040	52
34	95.0	850	RQYQ34TN	$RQYQ10T + RQYQ12T \times 2$		425 to 1,105	55
36	101	900	RQYQ36TN	RQYQ12T × 3		450 to 1,170	58
38	106	950	RQYQ38TN	RQYQ8T + RQYQ12T + RQYQ18T		475 to 1,235	61
40	112	1,000	RQYQ40TN	RQYQ12T × 2 + RQYQ16T	DUIED22D1E1	500 to 1,300	
42	119	1,050	RQYQ42TN	RQYQ12T + RQYQ14T + RQYQ16T	BHFP22P151	525 to 1,365	
44	124	1,100	RQYQ44TN	RQYQ12T + RQYQ16T × 2		550 to 1,430	64
46	130	1,150	RQYQ46TN	RQYQ14T × 2 + RQYQ18T		575 to 1,495	
48	135	1,200	RQYQ48TN	RQYQ14T + RQYQ16T + RQYQ18T		600 to 1,560	

Notes: \*1. For multiple connection of 18 class systems and above, the outdoor unit multi connection piping kit (separately sold) is required. \*2. Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor units.

### Space Saving Type

class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*3	Maximum number of connectable indoor units*2
18	50.0	450	RQYQ18T	RQYQ18T	_	225 to 585	29
20	56.0	500	RQYQ20T	RQYQ20T	_	250 to 650	32
30	83.5	750	RQYQ30TS	RQYQ12T + RQYQ18T		375 to 975	48
32	89.5	800	RQYQ32TS	RQYQ12T + RQYQ20T		400 to 1,040	52
34	95.0	850	RQYQ34TS	RQYQ16T + RQYQ18T	BHFP22P100	425 to 1,105	55
36	100	900	RQYQ36TS	RQYQ18T x 2	BHFFZZF100	450 to 1,170	58
38	106	950	RQYQ38TS	RQYQ18T + RQYQ20T		475 to 1,235	61
40	112	1,000	RQYQ40TS	RQYQ20T x 2		500 to 1,300	
42	117	1,050	RQYQ42TS	RQYQ12T x 2 + RQYQ18T		525 to 1,365	
44	123	1,100	RQYQ44TS	RQYQ12T x 2 + RQYQ20T	BHFP22P151	550 to 1,430	64
46	129	1,150	RQYQ46TS	RQYQ12T + RQYQ16T + RQYQ18T	DHFFZZPISI	575 to 1,495	
48	134	1,200	RQYQ48TS	RQYQ12T + RQYQ18T x 2		600 to 1,560	

Notes: \*1. For multiple connection of 30 class and above the outdoor unit multi connection piping kit (separately sold) is required \*2. Total capacity index of connectable indoor units must be 50%–130% of the capacity index of the outdoor units.

\*3. When outdoor-air processing units and standard indoor units are connected, the total connection capacity index of the outdoor-air processing units

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

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

## Outdoor Unit Lineup

## **VRV** III Q Series Heat Recovery

## Outdoor unit lineup

class	10	13	16	18	20	22	24	26	28	30
<b>VRV</b> III Q Series										

## Outdoor unit combinations

class	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	connectal	apacity in ole indoor bination	units*2 *3	Maximum number of connectable indoor units
					KIL	50%	100%	130%	
10	28.0	250	RQCEQ280P	RQEQ140P+RQEQ140P	BHFP26P36C	125	250	325	16
13	36.0	325	RQCEQ360P	RQEQ180P+RQEQ180P	BHIFZOF30C	162.5	325	422.5	21
16	46.0	400	RQCEQ460P	RQEQ140P+RQEQ140P +RQEQ180P		200	400	520	26
18	50.0	450	RQCEQ500P	RQEQ140P+RQEQ180P +RQEQ180P	BHFP26P63C	225	450	585	29
20	54.0	500	RQCEQ540P	RQEQ180P+RQEQ180P +RQEQ180P	BHFF20F03C	250	500	650	32
22	63.6	550	RQCEQ636P	RQEQ212P+RQEQ212P +RQEQ212P		275	550	715	35
24	71.2	600	RQCEQ712P	RQEQ140P+RQEQ180P +RQEQ180P+RQEQ212P		300	600	780	39
26	74.4	650	RQCEQ744P	RQEQ140P+RQEQ180P +RQEQ212P+RQEQ212P	DUED26D946	325	650	845	42
28	81.6	700	RQCEQ816P	RQEQ180P+RQEQ212P +RQEQ212P+RQEQ212P	BHFP26P84C	350	700	910	45
30	84.8	750	RQCEQ848P	RQEQ212P+RQEQ212P +RQEQ212P+RQEQ212P		375	750	975	48

<sup>\*1</sup> The outdoor unit multi connection piping kit (separately sold) is required for multiple connections.

# Indoor Unit Lineup

## ■ Wide variety of indoor units

N	lew	lineu

																		IVEVVI	ineup
ory				20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
Category	Туре	Model Name	Capacity Range (kW)	2.2	2.8		4.5	5.6		8	9	11.2	14		16.2	18	20	22.4	28
0	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM	Capacity Index	20	25	31.25	40	50	62.5	/1	80	100	125	140	145	160	180	200	250
sette	Round Flow Cassette with Sensing	FXFSQ-AVM		 							•				1				
Ceiling Mounted Cassette	Round Flow Cassette	FXFQ-AVM			•	•			•			•			 		 		
ng Mou	Compact Multi Flow Cassette	FXZQ-BVM									1	1	 		1		1		
Ceili	Double Flow Cassette New	FXCQ-BVM			•							1			1		1		
	Single Flow Cassette	FXEQ-AV36									! ! ! ! !	 	 		1		 		
	Slim Duct (Standard)	FXDQ-PDVE	(700 mm width type)								 	 	 		 				
	Jiiii Bucc (Standard)	FXDQ-NDVE	(900/1,100 mm width type)		 	 					 	 	 	 	1 1 1 1 1 1		 		
Duct	Slim Duct (Compact)	FXDQ-TV1C(A)									 	1	 		1		1		
Ceiling Concealed Duct	Middle Static	FXSQ-PAVE															 		
g Co	Pressure Duct	FXDYQ-MAV1		! !										į					
Ceilin	Middle-High Static Pressure Duct	FXMQ-PAVE													1		 		
	High Static Pressure Duct	FXMQ-PV1A		! !									! !						
	Outdoor-Air	FXMQ-MFV1		 	1	 					! ! !	1			1		1		
	Processing Unit	FXMQ-AFVM		 	1	 						1	1 1 1				1		
pepued	4-Way Flow Ceiling Suspended	FXUQ-AVEB		 	1	1					1		 		1		1		
Ceiling Suspended	Ceiling Suspended	FXHQ-MAVE			 								 		1		1		
Ceilli		FXHQ-BVM		! !															
Wal	ll Mounted	FXAQ-AVM									 	 	 				 		
Floor Standing	Floor Standing	FXLQ-MAVE									 	1 1 1 1	1 1 1 1		1		1		
Floor St	Concealed Floor Standing	FXNQ-MAVE									1 1 1 1	1	1		1		1		
Heat Reclaim Ventilator VAM-HVE Airflow rate 150-2000 m³/h																			
			•																

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

<sup>\*2</sup> Total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outdoor units.
\*3 For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the

<sup>\*4</sup> 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%

## Outdoor Units

## Specifications

## **VRV** IV Q Series

Heat Pump	
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Standard	d Type			*						Management							
	MODEL		RQYQ6TY1A(E)	RQYQ8TY1A(E)	RQYQ10TY1A(E)	RQYQ12TY1A(E)	RQYQ14TY1A(E)	RQYQ16TY1A(E)	RQYQ18TNY1A(E)	RQYQ20TNY1A(E)	RQYQ22TNY1A(E)	RQYQ24TNY1A(E)	RQYQ26TNY1A(E)	RQYQ28TNY1A(E)	RQYQ30TNY1A(E)	RQYQ32TNY1A(E)	
									RQYQ8TY1A(E)	RQYQ8TY1A(E)	RQYQ10TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ14TY1A(E)	RQYQ14TY1A(E)	
Combination	units		_	_	_	_	_	_	RQYQ10TY1A(E) —	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E) —	RQYQ14TY1A(E)	RQYQ16TY1A(E)	RQYQ16TY1A(E)	RQYQ18TY1A(E) —	
Power supply					3-phase 4-wire syste	m, 380-415 V, 50 Hz				ı	1	3-phase 4-wire syste	m, 380-415 V, 50 H:	Z			
Caalin na aana	ate .	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	
Cooling capa	city	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	
Heating cana	city	Btu/h	61,400	85,300	107,000	128,000	154,000	171,000	193,000	213,000	235,000	256,000	281,000	299,000	324,000	345,000	
Heating capa	city	kW	18.0	25.0	31.5	37.5	45.0	50.0	56.5	62.5	69.0	75.0	82.5	87.5	95.0	101	
Power	Cooling	kW	3.63	5.21	7.29	9.01	10.9	13.0	12.5	14.2	16.3	18.0	19.9	22.0	23.9	26.3	
consumption	Heating	kW	3.99	5.69	7.29	9.06	11.1	12.8	13.0	14.8	16.4	18.1	20.2	21.9	23.9	26.2	
Capacity cont	rol	%	20-	100	16-100	15-100	11-100	10-100		8-1	100		6-1	100	5-1	00	
Casing colour					Ivory white	e (5Y7.5/1)						Ivory white	e (5Y7.5/1)				
	Туре				Hermetically Se	aled Scroll Type					Hermetically Sealed Scroll Type						
Compressor	Motor output	kW	2.4×1	3.4×1	4.1×1	5.2×1	(2.9×1)+(3.3×1)	(3.6×1)+(3.7×1)	(3.4×1)+ (4.1×1)	(3.4×1)+ (5.2×1)	(4.1×1)+ (5.2×1)	(5.2×1)+ (5.2×1)	(5.2×1)+(2.9×1)+ (3.3×1)	(5.2×1)+(3.6×1)+ (3.7×1)	(2.9×1)+(3.3×1)+ (3.6×1)+(3.7×1)	(2.9×1)+(3.3×1)+ (4.4×1)+(4.0×1)	
		l/s	1,983	2,616	2,749	2,966	3,8	883	2,616+2,749	2,616+2,966	2,749+2,966	2,966+2,966	2,966-	+3,883	3,883-	-3,883	
Airflow rate		m³/min	119	157	165	178	23	33	157+165	157+178	165+178	178+178	178-	+233	233-	-233	
Dimensions (H	H×W×D)	mm		1,657X9	)30X765		1,657X1,	240X765		(1,657×930×765)-	+(1,657×930×765)		(1,657×930×765)+	(1,657×1,240×765)	(1,657×1,240×765)-	(1,657×1,240×765)	
Machine weig	ght	kg	18	35	1:	95	28	35	185	+195	195-	+195	195	+285	285+285	285+300	
Sound level		dB(A)	55	56	57	59	60	61	60	6	51	62	6	53	6	4	
Sound power		dB(A)	75	76	78	79	80	83	80	81	8	2	83	84	8	5	
Operation	Cooling	°CDB			-5 t	o 49						-5 to	o 49				
range	Heating	°CWB			-20 to	o 15.5					-20 to	15.5					
Refrigerant	Туре				R-4	10A					R-4	10A					
Kemgerant	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	10.3+11.7	
Piping	Liquid	mm	·	ø 9.5(Brazing)			₱ 12.7(Brazing)		φ		(Brazing)		<i>ø</i> 19		Brazing)		
connections	Gas	mm	<i>ϕ</i> 19.1(	Brazing)						₱ 28.6(Brazing)							

	MODEL		RQYQ34TNY1A(E)	RQYQ36TNY1A(E)	RQYQ38TNY1A(E)	RQYQ40TNY1A(E)	RQYQ42TNY1A(E)	RQYQ44TNY1A(E)	RQYQ46TNY1A(E)	RQYQ48TNY1A(E)	
			RQYQ10TY1A(E)	RQYQ12TY1A(E)	RQYQ8TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ14TY1A(E)	RQYQ14TY1A(E)	
Combination	units		RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ14TY1A(E)	RQYQ16TY1A(E)	RQYQ14TY1A(E)	RQYQ16TY1A(E)	
			RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ18TY1A(E)	RQYQ16TY1A(E)	RQYQ16TY1A(E)	RQYQ16TY1A(E)	RQYQ18TY1A(E)	RQYQ18TY1A(E)	
Power supply					3-phase 4-wire syste	em, 380-415 V, 50 Hz			3-phase 4-wire system	m, 380-415 V, 50 Hz	
Cooling capac	city	Btu/h	324,000	345,000	362,000	382,000	406,000	423,000	444,000	461,000	
Cooming capac	Lity	kW	95.0	101	106	112	119	124	130	135	
Heating capac	city	Btu/h	200/200 200/200 100/200 100/200 100/200 100/200					471,000	498,000	515,000	
пеації у сарас	Lity	kW 107 113 119				125	133	138	146	151	
Power	Cooling	kW	25.3	27.0	29.6	31.0	32.9	35.0	37.2	39.3	
consumption	Heating	kW	25.4	27.2	29.9	30.9	33.0	34.7	37.3	39.0	
Capacity cont	rol	%	5-1	00		4-1	00		3-1	00	
Casing colour			lvory white (5Y7.5/1)						Ivory white	(5Y7.5/1)	
	Туре		Hermetically Sealed Scroll Type						Hermetically Se	aled Scroll Type	
Compressor	Motor output	kW	(4.1×1)+(5.2×1)+ (5.2×1)	(5.2×1)+(5.2×1)+ (5.2×1)	(3.4×1)+(5.2×1)+ (4.4×1)+(4.0×1)	(5.2×1)+(5.2×1)+ (3.6×1)+(3.7×1)	(5.2×1)+(2.9×1)+ (3.3×1)+(3.6×1)+ (3.7×1)	(5.2×1)+(3.6×1)+ (3.7×1)+(3.6×1)+ (3.7×1)	(2.9×1)+(3.3×1)+ (2.9×1)+(3.3×1)+ (4.4×1)+(4.0×1)	(2.9×1)+(3.3×1)+ (3.6×1)+(3.7×1)+ (4.4×1)+(4.0×1)	
A: ()		ℓ/s	2,749+2,966+2,966	2,966+2,966+2,966	2,616+2,966+3,883	2,966+2,966+3,883	2,966+3,8	83+3,883	3,883+3,8	83+3,883	
Airflow rate		m³/min	165+178+178	178+178+178	157+178+233	178+178+233	178+23	33+233	233+23	33+233	
Dimensions (H	l×W×D)	mm	(1,657×930×765)+ (1,657×9		(1,657×930×765)+ (1,657×1,	. ,	(1,657×930×765)+( (1,657×1,		(1,657×1,240×765)+ (1,657×1,		
Machine weig	ght	kg	19	95+195+195	185+195+300	195+195+285	195+28	35+285	285+2	85+300	
Sound level		dB(A)	63	6	4		65		6	6	
Sound power						86		87	8	37	
Operation	Cooling	°CDB			-5 t	o 49			-5 to 49		
range	Heating °CWB -20 to 15.				15.5			-20 to 15.5			
Refrigerant	Туре				R-4	10A			R-410A		
Charge kg 6.0+6.3+6.3 6.3+6.3+6.3 5.9+6.3+11.7 6.3+6.3+10.4 6.3+10.3+10.4 6.3+10.4+10.4					10.3+10.3+11.7 10.3+10.4+11.7						
Piping	Liquid mm \$\phi\$ 19.1(Brazing)						φ 19.1(Brazing)				
connections	Gas	mm							φ41.3(	Brazing)	

### Space Saving Type

#### Heat Pump

	MODEL		RQYQ18TY1A(E)	RQYQ20TY1A(E)
Combination	units		-	-
Power supply			3-phase 4-wire system	m, 380-415 V, 50 Hz
Cooling capac	city.	Btu/h	171,000	191,000
Cooling Capac	ity	kW	50.0	56.0
Heating capac	rity.	Btu/h	191,000	215,000
ricating capat	ity	kW	56.0	63.0
Power	Cooling	kW	15.4	18.0
consumption	Heating	kW	15.1	17.5
Capacity cont	rol	%	10-100	8-100
Casing colour			Ivory white	e (5Y7.5/1)
	Туре		Hermetically Se	aled Scroll Type
Compressor	Motor output	kW	(4.4×1)+(4.0×1)	(4.6×1)+(5.5×1)
A: (1 .		ℓ/s	3,883	4,466
Airflow rate		m³/min	233	268
Dimensions (H	l×W×D)	mm	1,657×1,	240×765
Machine weig	jht	kg	300	320
Sound level		dB(A)	62	65
Sound power		dB(A)	84	87
Operation	Cooling	°CDB	-5 to	49
range	Heating	°CWB	-20 to	15.5
Refrigerant	Туре		R-4	10A
nemgerant	Charge	kg	11.7	11.8
Piping	Liquid	mm	<i>∮</i> 15.9(	Brazing)
connections	Gas	mm	φ 28.6(l	Brazing)

Notes:

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

Please refer to
Engineering Data Book for details.
Specifications are based on
the following conditions;
Cooling: Indoor temp.: 27°CDB,
19°CWB,
Outdoor temp.: 35°CDB,
Equivalent piping length

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

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

During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

## **Outdoor Units**

## Specifications

## **VRV** IV Q Series

Heat Pump

Space Sa	ving Typ	e																
	MODEL		RQYQ30TSY1A(E)	RQYQ32TSY1A(E)	RQYQ34TSY1A(E)	RQYQ36TSY1A(E)		RQYQ38TSY1A(E)	RQYQ40TSY1A(E)	RQYQ42TSY1A(E)	RQYQ44TSY1A(E)	RQYQ46TSY1A(E)	RQYQ48TSY1A(E)					
			RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ16TY1A(E)	RQYQ18TY1A(E)		RQYQ18TY1A(E)	RQYQ20TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)					
Combination	units		RQYQ18TY1A(E)	RQYQ20TY1A(E)	RQYQ18TY1A(E)	RQYQ18TY1A(E)		RQYQ20TY1A(E)	RQYQ20TY1A(E)	RQYQ12TY1A(E)	RQYQ12TY1A(E)	RQYQ16TY1A(E)	RQYQ18TY1A(E)					
			_	_	_	_		_	_	RQYQ18TY1A(E)	RQYQ20TY1A(E)	RQYQ18TY1A(E)	RQYQ18TY1A(E)					
Power supply				3-phase 4-wire syste	m, 380-415 V, 50 Hz					3-phase 4-wi	re system, 380-415 V, 50 Hz							
Cooling capa	city	Btu/h	285,000	305,000	324,000	341,000		362,000	382,000	399,000	420,000	440,000	457,000					
cooming capa	city	kW	83.5	89.5	95.0	100		106	112	117	123	129	134					
Heating capa	city	Btu/h	319,000	345,000	362,000	382,000		406,000	430,000	447,000	471,000	491,000	512,000					
ricating capa	city	kW	93.5	101	106	112		119	126	131	138	144	150					
Power	Cooling	kW	24.2	26.8	28.4	30.8		33.4	36.0	33.0	35.6	37.2	39.6					
consumption	Heating	kW	24.2	26.6	27.9				35.0	33.2	35.6	37.0	39.3					
Capacity cont	rol	%	6-100		5-100	5-100			4-100									
Casing colour	*			Ivory white (5Y7.5/1)				lvory white (5Y7.5/1)										
	Type			Hermetically Sealed Scroll Type				Hermetically Sealed Scroll Type (4.4×1)+(4.0×1)+(4.6×1)+(5.5×1)   (4.6×1)+(5.5×1)+(4.6×1)+(5.5×1)   (5.2×1)+(5.2×1)+(4.4×1)+(4.0×1)   (5.2×1)+(5.2×1)+(4.6×1)+(5.5×1)   (5.2×1)+(3.6×1)+(3.6×1)+(4.4×1)+(4.0×1)   (5.2×1)+(4.4×1)+(4.0×1)   (5.2×1)+(4.6×1)+(5.5×1)   (5.2×1)+(4.4×1)+(4.0×1)   (5.2×1)+(4.6×1)+(5.5×1)   (5.2×1)+(4.4×1)+(4.0×1)   (5.2×1)+(4.6×1)+(5.5×1)   (5.2×1)+(4.6×1)+(4.0×1)   (5.2×1)+(4.6×1)+(5.5×1)   (5.2×1)+(4.6×1)+(4.0×1)   (5.2×1)+(4.0×1)   (5.2×1)+(5.2×1)+(5.2×1)+(5.2×1)+(5.2×1)+(5.2×1)+										
Compressor	Motor output	t kW	$(5.2\times1)+(4.4\times1)+(4.0\times1)$	(5.2×1)+(4.6×1)+(5.5×1)	$(3.6\times1)+(3.7\times1)+(4.4\times1)+(4.0\times1)$	(4.4×1)+(4.0×1)+(4.4×1)+(4.0×1)		(4.4×1)+(4.0×1)+(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		l/s	2,966+3,883	2,966+4,466	3,883-	+3,883		3,883+4,466	4,466+4,466	2,966+2,966+3,883	2,966+2,966+4,466	2,966+3,8	883+3,883					
All llow rate		m³/min	178+233	178+268	233-	+233		233+268	268+268	178+178+233	178+178+268	178+233+233						
Dimensions (H	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)+ ,240×765)	(1,657×930×765)+( (1,657×1,						
Machine weig	ght	kg	195+300	195+320	285+300	300+300		300+320	320+320	195+195+300	195+195+320	195+285+300	195+300+300					
Sound level		dB(A)	64	66	6	5		67	68	65	67	6	6					
Sound power		dB(A)	85	88	8	7		89	90	86	87	8	8					
Operation	Cooling	°CDB		-5 t	o 49					-5 t	o 49							
range	Heating	°CWB		-20 to 15.5						-20 t	o 15.5							
Refrigerant	Туре			R-410A						R-4	10A							
Kenigerani	Charge	kg	6.3+11.7	6.3+11.8	10.4+11.7	11.7+11.7		11.7+11.8	11.8+11.8	6.3+6.3+11.7	6.3+6.3+11.8	6.3+10.4+11.7 6.3+11.7+11.7						
Piping	Liquid	mm		<i>\$</i> 19.10				∮ 19.1(Brazing)										
connections	Gas	mm	\$\phi\$ 19.1(Brazing)       \$\phi\$ 34.9(Brazing)     \$\phi\$ 41.3(Brazing)							φ 41.3	(Brazing)							
Notes: 1 Mod	lals with (F) are	e the outdoo	or units with anti-corrosion specific	ations. Please refer to Engineering I	Data Rook for details			Cooling: Indoor temp.: 27°Cl	DR 19°CWR Outdoor temp : 3	S°CDB Equivalent piping leng	th: 7.5 m. Height difference: 0 n	n						

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;

dB(A)

°CDB

Cooling

Heating

**VRV** III Q Series

Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures. **Heat Recovery** 

#### MODEL RQCEQ712PY1 RQCEQ744PY1 RQCEQ816PY1 RQCEQ848PY1 RQCEQ280PY1 RQCEQ360PY1 RQCEQ460PY1 RQCEQ500PY1 RQCEQ540PY1 RQCEQ636PY1 RQEQ140PY1 RQEQ140PY1 RQEQ180PY1 RQEQ212PY1 RQEQ212PY1 RQEQ140PY1 RQEQ140PY1 RQEQ180PY1 RQEQ180PY1 RQEQ140PY1 RQEQ140PY1 RQEQ140PY1 RQEQ180PY1 Combination units RQEQ180PY1 RQEQ180PY1 RQEQ180PY1 RQEQ212PY1 RQEQ180PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1 RQEQ212PY1 3-phase 4-wire system, 380-415 V, 50 Hz 3-phase 4-wire system, 380-415 V, 50 Hz Power supply 96,200 124,000 218,000 158,000 172,000 245,000 Cooling capacity (\*1) (\*2) 28.2 36.3 46.3 50.4 50.0 54.4 64.0 71.7 74 9 82.2 85.4 28.0 36.0 54.0 63.6 71 2 46 N 74.4 81.6 24.2 136,000 177,000 191,000 205,000 229,000 109,000 268,000 276,000 298,000 306,000 Heating capacity 32.0 40.0 89.6 kW 7 04 10.3 12.2 13.9 15.5 21.9 21.2 23.3 27 1 29.2 Cooling(\*2) kW consumption Heating 8.00 10.7 13.4 14.7 16.1 17.7 23.6 13-100 10-100 7-100 Capacity contro Ivory white (5Y7.5/1) Ivory white (5Y7.5/1 Casing colou Hermetically sealed scroll type Hermetically sealed scroll type Compressor kW 2.8X2+3.3 2.8+3.3X2 2.8+3.3+3.6X2 1583+1833+1833+1833 583+1583 1833+1833 1833+1833+1833+1833 l/s Airflow rate 95+95 110+110 95+110+110 110+110+110 95+110+110+110 110+110+110+110 Dimensions (HXWXD) mm (1,680X635X765)+(1,680X635X765 (1,680X635X765)+(1,680X635X765)+(1,680X635X765) (1,680X635X765)+(1,680X635X765)+(1,680X635X765)+(1,680X635X765) 175+175+175+179 175+175+179+179 179+179+179+179 179+179+179 175+179+179+179 Machine weight kg

Cooling & Heating °CWB R-410A Type Refrigerant 10.3+10.6+10.6+11.2 10.3+10.6+11.2+11.2 10.6+11.2+11.2+11.2 11.2+11.2+11.2+11.2 Charge 10.6+10.6 kg *ϕ*12.7 (Brazing) *ϕ*15.9 (Brazing) ₱15.9 (Brazing) ₱ 19.1 (Brazing) Liquid connections Suction gas *ϕ*28.6 (Brazing) φ 22.2 (Brazing) *ϕ*22.2 (Brazing) φ25.4 (Brazing) High and low pressure gas Note: Specifications are based on the following conditions: • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

-20 to 15.5

-20 to 15.5

Sound level

Operation

Cooling:(\*1) Indoor temp.: 27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 (\*2) Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.

# VRV IV W SERIES

Water Cooled System Suitable for Tall Multi-Storied Buildings

Heat Pump
Heat Recovery

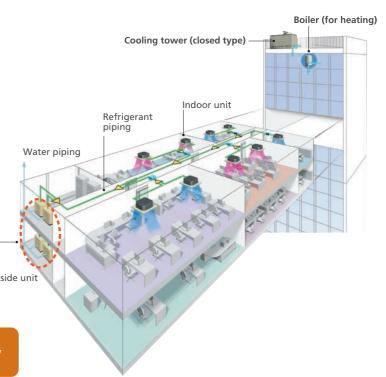
6 class—36 class



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

High installation flexibility

**Design flexibility** 

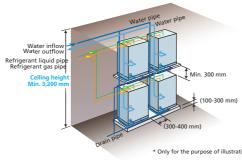


## Design flexibility

### High-rise buildings

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

### No balcony required



## Condominiums and detached houses

We offer an extensive lineup of small capacity outside units.

## Underground shopping malls and subway

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





## 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 outside units

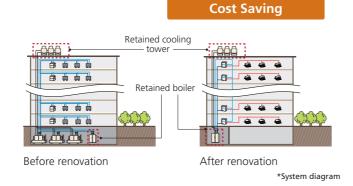
It is possible to place the outside unit inside the building, it makes easier to adapt to different type of buildings and open to various kinds of creative building exteriors.



**Easy Installation** 

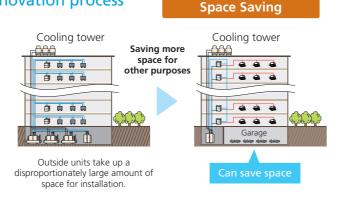
### Part of the old system can be retained

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



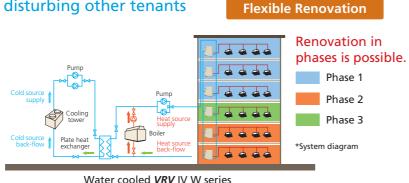
### The compact outside units facilitate the renovation process

- 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.



### Floor by floor renovation without disturbing other tenants

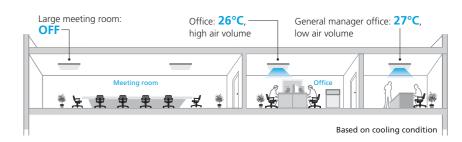
Because equipment can be replaced in phases, installation adapts to the renovation plans of the customers and ensures that work performed on some floors and zones will not affect other tenants.



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

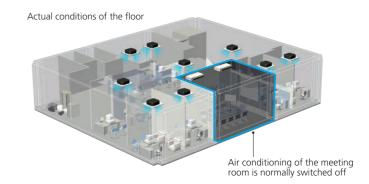
### Independent control provides greater comfort and convenience.

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



### Higher efficiency with partial load

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

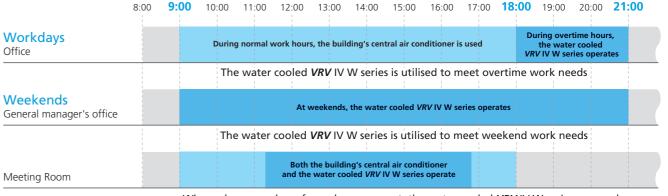


### Flexibly satisfies conditions for working overtime and times of insufficient load

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

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

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



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

# Easy Installation & Energy Saving

## ■ Compact and lightweight



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

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



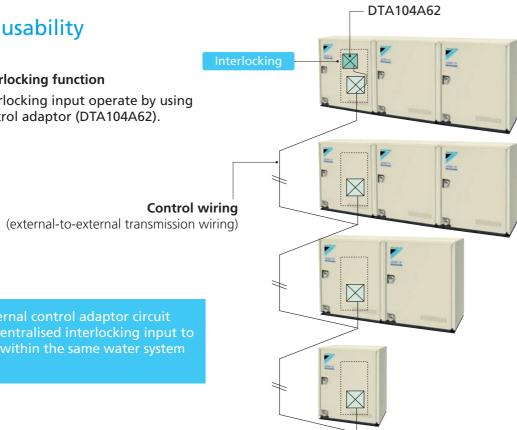
## Enhanced usability

### **Centralised interlocking function**

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

**Control wiring** 

Using one external control adaptor circuit board makes centralised interlocking input to



## ■ Enhanced lineup

## **URY IV W SERIES**

Wider capacity 6 to 36 class



6 class, 8 class, 10 class, 12 class

### 6, 8, 10, 12 class



RWEYQ6T2YM RWEYQ10TYM RWEYQ12TYM RWEYQ8TYM

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



RWEYQ14TYM RWEYQ20TYM RWEYQ16TYM RWEYQ22TYM RWEYQ18TYM RWEYQ24TYM

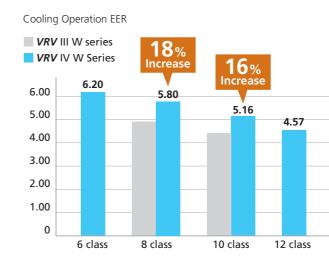
#### 26, 28, 30, 32, 34, 36 class



RWEYQ26TYM RWEYQ32TYM RWEYQ28TYM RWEYQ34TYM RWEYQ30TYM RWEYQ36TYM

### Energy saving

### Higher Energy Efficiency Ratio (EER)



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

### VRT control for optimal annual efficiency

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



100

## Maximum Comfort via Simultaneous Cooling and Heating

## VRV IV W Series

### ■ Flexibility by simultaneous cooling and heating operation

#### Situation

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



#### Need

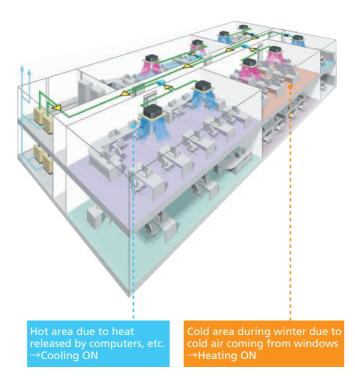
These buildings require flexible cooling and heating operation.



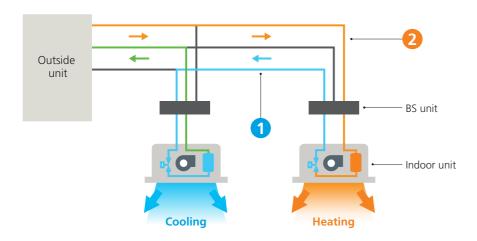
#### Solution

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

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



## ■ The heat recovery system improves energy efficiency by recycling waste heat.



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

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

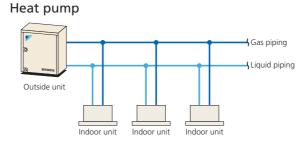
## BS unit (Single type/Multi type) See page 159 - 162

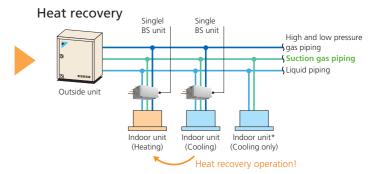
By adding suction gas piping and a BS unit (sold separately), simultaneous cooling and heating operation can be provided by a single system.



Single BS unit

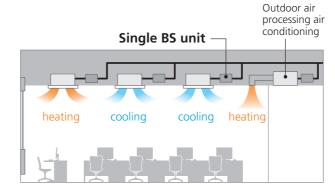
Multi BS unit





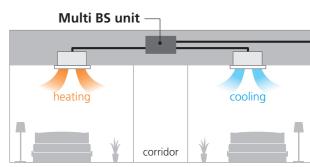
<sup>\*</sup> For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outside units.

## Application reference



### Winter season (Office Building)

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



#### Winter season (Hotel)

Able to cater to individual heating and cooling requirement

# Flexible System Design

# Advanced Technologies

## **VRV IV W** Series

### Long piping length

Actual piping length

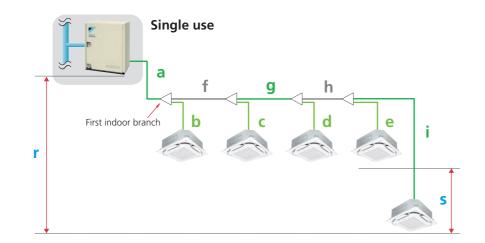
Max. 120 m

Equivalent piping length

Max. 140 m

Total piping length

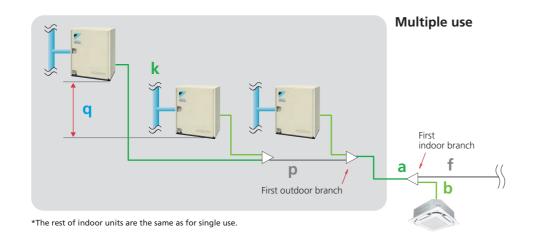
Max. 300 m



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

			Actual piping length	Example	Equivalent piping length
	Refrigerant piping length		120 m	a+f+g+h+i	140 m
Maximum	Total piping length		300 m	a+b+c+d+e+f+g+h+i	<del></del>
allowable piping longth	Between the first indoor bran	nch and the farthest indoor unit	90 m*1	f+g+h+i	<del></del>
piping length	Between the first outside bra	nch and the last outside unit	10 m	k+p	13 m
Maximum	Between the outside units (n		2 m	q	_
allowable	Between the indoor units		15 m	S	_
height difference	Determine the excitation with	If the outside unit is above.	50 m	r	_
	and the indoor units	40 m	r	<del></del>	

<sup>\*1</sup> 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 requirement



### High efficiency compressor to achieve a high performance

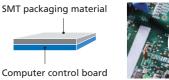
The reluctance DC motor uses 2 different types of torque, neodymium magnet and reluctance torque. It generates more power with a smaller electric power and saves energy. Reluctance DC motor

### SMT\* packaging technology

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

\*SMT: Surface mounted technology

Computer control board surface adopting SMT packaging technology





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

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

exchanger.



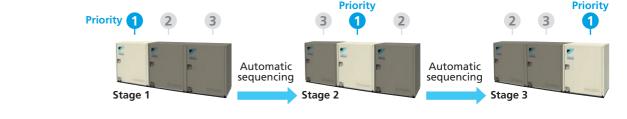
### Function of information display by luminous digital tube

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

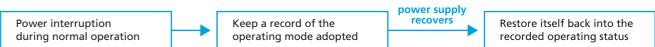


Displays system operation information directly

### Automatic sequencing operation



### Auto-restart technology



### Refrigerant pressure detection technology

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

# Outside Unit Lineup

## **VRV** IV W Series

## Lineup

Capacity	class	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Range	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 S	ERIES																

### Outside unit combinations

class	kW	Capacity index	Model	Combination	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units
6	16.0	150	RWEYQ6T2	RWEYQ6T2 × 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	RWEYQ6T2 + 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

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

Indoor Unit Lineup

## ■ Enhanced range of choices

																New	lineu
yory			C	20	25	32	40	50	63	71	80	100	-		 	200	
Category	Туре	Model Name	Capacity Range (kW)  Capacity Index	2.2		3.6 31.25		5.6 50	7.1 62.5			11.2 100		16.2 145		22.4 200	
	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM			•		•	•	•	1	•		•	1			
ssette	Round Flow Cassette with Sensing	FXFSQ-AVM		1						1 1 1 1 1							
Ceiling Mounted Cassette	Round Flow Cassette	FXFQ-AVM	60			•		•	•	1	•		•	1			
ng Mou	Compact Multi Flow Cassette	FXZQ-BVM							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1		1				
Ceili	Double Flow Cassette	FXCQ-BVM					•			 			1	 			
	Single Flow Cassette	FXEQ-AV36								 	 		1	 			
	Slim Duct (Standard)	FXDQ-PDVE	(700 mm width type)							1	1		1 1 1 1 1				
	Siiiii Duct (Staildaid)	FXDQ-NDVE	(900/1,100 mm width type)	1		1		•		1	1		1				
Duct	Slim Duct (Compact)	FXDQ-TV1C(A)						•	•	 	! ! ! !		1 1 1 1	 			
Ceiling Concealed Duct	Middle Static	FXSQ-PAVE						•	•	1 1 1 1 1	•		•	 			
o) gu	Pressure Duct	FXDYQ-MAV1		1	1	 			1								
Ceilir	Middle-High Static Pressure Duct	FXMQ-PAVE												1			
	High Static Pressure Duct	FXMQ-PV1A		 	 	 		 	1	1	 		1	 			
	Outdoor-Air	FXMQ-MFV1		1	! ! !	! ! !		 	! ! !	! ! !	 		 	 			
	Processing Unit	FXMQ-AFVM		1	 	 		 	 	 				 			
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB		1	1	 		1	1		 		1	 			
sns bu	Ceiling Suspended	FXHQ-MAVE		 	 												
Ceilir	Ne	FXHQ-BVM		1	1	1			1					1			
Wal	l Mounted	FXAQ-AVM									1		1	 			
Floor Standing	Floor Standing	FXLQ-MAVE								 	 		 	 			
Floor S	Concealed Floor Standing	FXNQ-MAVE								1	1		1				
Hea	t Reclaim Ventilator	VAM-HVE	00	Airf	flow r	ate 1	50-20	000 n	n³/h								
5	-	4	4				<b>←</b>			4			<b>—</b>		 	-	





## Outside Units

## **VRV** IV W Series

## Specifications

Heat Pump / Heat Recovery

				B						F				
	MODEL		RWEYQ6T2YM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ12TYM		RWEYQ14TYM	RWEYQ16TYM	RWEYQ18TYM	RWEYQ20TYM	RWEYQ22TYM	RWEYQ24TYM	
Combination units			-	-	-	-		RWEYQ6T2YM	RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	
Combination units	,		-	_	-	_		RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM	
Power supply				3-phase 4-wire system, 3	80-415 V/380 V, 50/60 Hz					3-phase 4-wire system, 38	30-415 V/380 V, 50/60 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	
Cooming capacity		kW	16.0	22.4	28.0	33.5		38.4	44.8	50.4	56.0	61.5	67.0	
Heating capacity		Btu/h	61,400	85,300	107,000	128,000		147,000	171,000	193,000	215,000	235,000	256,000	
neating capacity		kW	18.0	25.0	31.5	37.5		43.0	50.0	56.5	63.0	69.0	75.0	
Power	Cooling	kW	2.58	3.86	5.43	7.33		6.44	7.72	9.29	10.9	12.8	14.7	
consumption	Heating	kW	2.69	3.98	5.60	7.87		6.67	7.96	9.58	11.2	13.5	15.7	
Casing colour				lvory whit	e (5Y7.5/1)		lvory white (5Y7.5/1)							
Dimensions (H × W	V × D)	mm		1,000 × 1	780 × 550					(1,000 × 78	0 × 550) × 2			
Compressor	Туре			Hermetically se	ealed scroll type					Hermetically se	aled scroll type			
Compressor	Motor output	kW	1.9	2.8	3.7	4.7		1.9 + 2.8	2.8 × 2	2.8 + 3.7	3.7 × 2	3.7 + 4.7	4.7 × 2	
	Liquid			₱ 9.5 (Flare)		₱ 12.7 (Flare)		φ 12.7 (Flare) φ 15.9 (Flare) φ 19.1 (Flare)						
Refrigerant piping connections	Suction gas *1	mm	φ 19.1 (E	Brazing)	φ 22.2 (	Brazing)				<i>ϕ</i> 28.6 (E	Brazing)			
COMPECTIONS	High and low pressure g	as	φ 15.9*², φ 19.	1*3 (Brazing)	\$\phi\$ 19.1*2,\$\phi\$ 22	.2*3 (Brazing)				φ 22.2*², φ 28.	6*3 (Brazing)			
	Water inlet			PT1 1/4B in	tenal thread					(PT1 1/4B) x 2	intenal thread			
Water piping connections	Water outlet		<u> </u>	PT1 1/4B in	tenal thread					(PT1 1/4B) × 2	intenal thread			
CONTRECTIONS	Drain outlet			PS1/2B int	enal thread					(PS1/2B) × 2	intenal thread			
Machine weight (C	Operating weight)	kg	146	(148)	147	(149)		146 × 2	(148 × 2)	146 + 147 (148 + 149)		147 × 2 (149 × 2)		
Sound level		dB(A)	49	50	51	53		5	3	5	4	55	56	
Operation range (I	nlet water temp.)	°C		10 t	o 45					10 t	o 45			
Capacity control		%	23-	100	19-	-100		23-	100	20-100		19-100		
Refrigerant	Туре			R-4	10A					R-4	10A			
Kenigerani	Charge	kg	3	.5	4	1.2		3.5 -	+ 3.5	3.5 + 4.2		4.2 + 4.2		

				E E				B B			
	MODEL		RWEYQ26TYM	RWEYQ28TYM	RWEYQ30TYM		RWEYQ32TYM	RWEYQ34TYM	RWEYQ36TYM		
			RWEYQ8TYM	RWEYQ8TYM	RWEYQ10TYM		RWEYQ10TYM	RWEYQ10TYM	RWEYQ12TYM		
Combination units		•	RWEYQ8TYM	RWEYQ10TYM	RWEYQ10TYM		RWEYQ10TYM	RWEYQ12TYM	RWEYQ12TYM		
			RWEYQ10TYM	RWEYQ10TYM	RWEYQ10TYM		RWEYQ12TYM	RWEYQ12TYM	RWEYQ12TYM		
Power supply			3-pha	se 4-wire system, 380-415 V/380 V, 50	0/60 Hz		3-pha	se 4-wire system, 380-415 V/380 V, 50	/60 Hz		
Cooling conscitu		Btu/h	248,000	268,000	287,000		305,000	324,000	345,000		
Cooling capacity		kW	72.8	78.4	84.0		89.5	95.0	101		
Heating conscitu	Btu/h		278,000	300,000	322,000		345,000	365,000	386,000		
Heating capacity	kW		81.5	88.0	94.5		101	107	113		
Power			13.2	14.7	16.3		18.2	20.1	22.0		
consumption	Heating	kW	13.6	15.2	16.8		19.1	21.3	23.6		
Casing colour				lvory white (5Y7.5/1)				lvory white (5Y7.5/1)			
Dimensions (H × W	/ × D)	mm		(1,000 × 780 × 550) × 3				(1,000 × 780 × 550) × 3			
Compressor	Туре			Hermetically sealed scroll type			Hermetically sealed scroll type				
Compressor	Motor output	kW	2.8 × 2 + 3.7	2.8 + 3.7 × 2	3.7 × 3		$3.7 \times 2 + 4.7$	3.7 + 4.7 × 2	4.7 × 3		
_ ,	Liquid			∮ 19.1 (Flare)				₱ 19.1 (Flare)			
Refrigerant piping connections	Suction gas *1	mm									
connections	High and low pressure gas	5		φ 28.6*², φ 34.9*³ (Brazing)				φ 28.6*², φ 34.9*³ (Brazing)			
	Water inlet			(PT1 1/4B) × 3 intenal thread				(PT1 1/4B) × 3 intenal thread		7	
Water piping	Water outlet			(PT1 1/4B) × 3 intenal thread			(PT1 1/4B) × 3 intenal th			3	
connections	Drain outlet			(PS1/2B) × 3 intenal thread				(PS1/2B) × 3 intenal thread			
Machine weight (C	perating weight)	kg	146 × 2 + 147 (148 × 2 + 149)	146 + 147 × 2 (148 + 149 × 2)	147 × 3 (149 × 3)			147 × 3 (149 × 3)			
Sound level		dB(A)	55		56			57	58		
Operation range (In	nlet water temp.)	°C		10 to 45				10 to 45			
Capacity control		%	21-100	20-100	19-100			19-100			
Refrigerant	Туре			R-410A				R-410A			
neifigerani	Charge	kg	3.5 + 3.5 + 4.2	3.5 + 4.2 + 4.2	4.2 + 4.2 + 4.2			4.2 + 4.2 + 4.2		7	

- Notes: 1. Specifications are based on the following
- conditions:

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

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

  2. This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).
- 3. Hold ambient temperature at 0 40°C and humidity at 80%RH or less. Heat rejection from the casing: 0.51 kW / 6 8 class / hour, 0.58 kW /
- 10 12 class / hour.

  4. Connectable to closed type cooling tower only.

  \*1: In the case of heat pump system, suction gas \*2: In the case of heat recovery system.

  \*3: In the case of heat pump system.

  \* Be sure to refer to the Engineering Data Book for
- facility design.

# **UNIVERSITY** WS SERIES

Water Cooled System Suitable for Residential Houses





## Easy Installation & Energy Saving

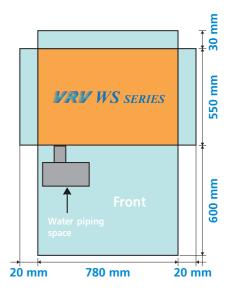
## ■ Compact and lightweight





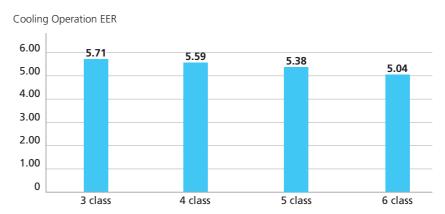
## ■ Service space (Single installation)

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



## Energy saving

### Higher Energy Efficiency Ratio (EER)

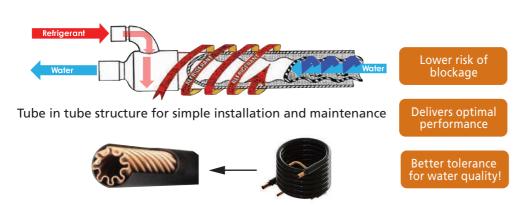


\*Cooling : Indoor temp.: 27°CDB, 19°CWB/inlet water temp.: 30°C,

# Advanced Technologies

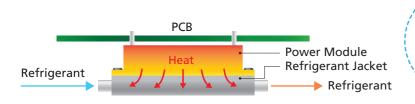
### ■ Tube-in-Tube Type Heat Exchanger

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



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

## ■ Refrigerant cooling technology



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



Control board failure ratio at stable operation is reduced.

### This enables

- Suitability for high ambient temperatures
- Miniaturization of electronic components

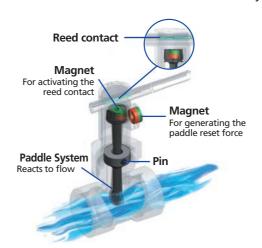
## Easy maintenance

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



### ■ Built in water flow switch

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



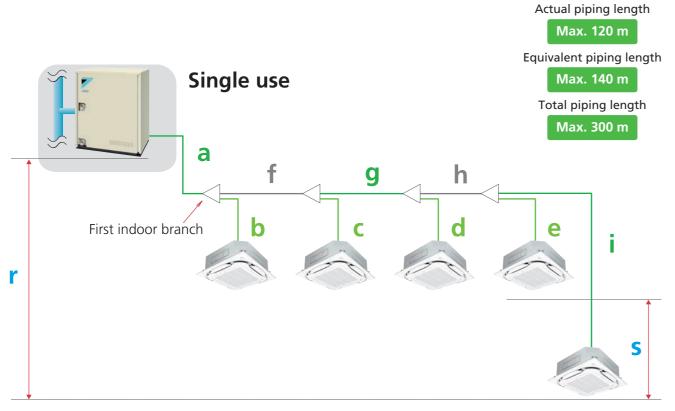
### Standard water strainer

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



# Flexible System Design

## ■ Long piping length



\*Colours in the diagram above are merely for identifying pipes referenced with symbols such as  ${\bf a}$ 

		Actual piping length	Example	Equivalent piping length
Maximum	Refrigerant piping length	120 m	a+f+g+h+i	140 m
allowable	Total piping length	300 m	a+b+c+d+e+f+g+h+i	<del></del>
piping length	Between the first indoor branch and the farthest indoor unit	40 m	f+g+h+i	<del></del>
Maximum	Between the indoor units	15 m	S	_
allowable height difference	Between the outside units and the indoor units	30 m	r	_

## ■ Enhanced range of choices

Indoor Unit Lineup

																New	lineup
ory				20	25	32	40	50	63	71	80	100	125	140	145	160	180
Category	Туре	Model Name	Capacity Range (kW)	2.2	2.8	3.6		5.6		8		11.2	14		16.2	18	20
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180
	Round Flow Cassette with Sensing and Streamer	FXFTQ-AVM		 												 	
ssette	Round Flow Cassette with Sensing	FXFSQ-AVM		 												1	
Ceiling Mounted Cassette	Round Flow Cassette	FXFQ-AVM	0	 												 	
ing Mou	Compact Multi Flow Cassette	FXZQ-BVM							1							1	
Ceil	Double Flow Cassette New	FXCQ-BVM														1	
	Single Flow Cassette	FXEQ-AV36														 	
	Slim Duct (Standard)	FXDQ-PDVE	(700 mm width type)													 	
Suct	Jiiii Duct (Standard)	FXDQ-NDVE	(900/1,100 mm width type)	1												1	
realed [	Slim Duct (Compact)	FXDQ-TV1C(A)														 	
Ceiling Concealed Duct	Middle Static	FXSQ-PAVE														1	
Ceilir	Pressure Duct	FXDYQ-MAV1		 	1				1							1	
	Middle-High Static Pressure Duct	FXMQ-PAVE														1	
	High Static Pressure Duct	FXMQ-PV1A		1	! ! !												
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB			1												
ng Sus	Ceiling Suspended	FXHQ-MAVE		 	 											1	
Ceili		FXHQ-BVM		! !	 				! !							 	
	ll Mounted	FXAQ-AVM														 	
Floor Standing	Floor Standing	FXLQ-MAVE														 	
Floor St	Concealed Floor Standing	FXNQ-MAVE														1	

## Outside Units

## **VRV** WS Series

## Specifications

						Heat Pump					
				B	disease						
	MODEL		RWXYQ3AV1 RWXYQ4AV1 RWXYQ5AV1 RWXYQ6AV								
Power supply			1-Phase, 220-240 V, 50 Hz								
Cooling capacity		Btu/h	27,300	38,200	47,800	54,600					
Cooling capacity		kW	8.0	11.2	14.0	16.0					
Heating constitu		Btu/h	30,700	42,700	54,600	61,400					
Heating capacity		kW	9.0	12.5	16.0	18.0					
Power	Cooling	kW	1.40	2.00	2.60	3.17					
consumption	Heating	kW	1.60	2.10	2.60	2.80					
Casing colour				Ivory white	e (5Y7.5/1)						
Dimensions (H×V	V×D)	mm		1,000×7	80×550						
Compressor	Туре		Hermetically sealed swing type								
Compressor	Motor output	kW	1.92								
Refrigerant piping	Liquid	mm		φ9.5	(Flare)						
connections	Suction gas			<i>φ</i> 15.9	(Flare)						
	Water inlet			PT1B external thread		PT1 1/4B external thread					
Water piping connections	Water outlet			PT1B external thread		PT1 1/4B external thread					
Commocations	Drain outlet			PS1/2B inte	rnal thread						
Machine weight		kg	90	9	4	99					
Sound level dB(A			48		50						
Sound power		dB(A)	66		68						
Operation range	(Inlet water temp.)	°C		15 to 45 (Range for	continuous operation)						
Capacity control		%		20-	100						
Туре				R-4	10A						
Refrigerant	Charge	kg	2.2	2	.4	2.7					
Rated water flow	(Range of water flow)	L/min	30 (15 to 45)	40 (20 to 60)	50 (25 to 75)	57 (28.5 to 85.5)					

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

  - . Specifications are based on the following conditions;

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

    'Heating: Indoor temp.: 20°CDB / inlet water temp.: 20°C, Equivalent piping length: 7.5 m, Height difference: 0 m.

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

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

    When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing
  - 2. This unit cannot be installed in the outdoors. Install indoors (Machine room, etc).

  - 2. This difficult is a finite behavior at 0-40°C and humidity at 80% RH or less.

    Heat rejection from the casing: 0.21 kW/3 class /hour, 0.28 kW/4 class /hour, 0.31 kW/5 class /hour, 0.35 kW/6 class /hour

### Outside Unit Combinations

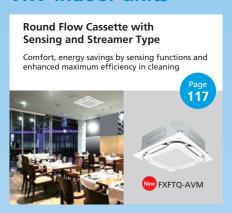
Model name	kW	class	Capacity index	Total capacity	rindex of connectable Combination (%)	e indoor units	Maximum number of connectable indoor units
			illucx	50%	100%	130%	connectable indoor dring
RWXYQ3A	8.0	3	75	37.5	75	97.5	4
RWXYQ4A	11.2	4	100	50	100	130	6
RWXYQ5A	14.0	5	125	62.5	125	162.5	8
RWXYQ6A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

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

## **INDOOR UNIT LINEUP**

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

### **VRV** indoor units











**Middle Static Pressure Duct Type**Middle static pressure and slim design allow flexible installations.







**Double Flow Cassette Type** 

Slim Duct (Compact) Type











Middle Static Pressure Duct Type



















### Air treatment equipment



**VRV** Indoor Units

## Round Flow Cassette with Sensing and Streamer Type



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



## Introducing Streamer technology to VRV Indoor unit

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



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

Streamer filter clean unit built-in inside the indoor unit



#### Remarks

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



Stylish Remote Controller BRC1H63W/K



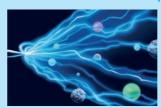
Streamer ON/OFF setting and status icon are available.

## **Streamer Technology**



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

### Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.



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

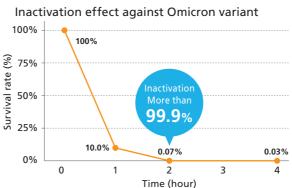


The decomposing elements provide decomposition pow

### 99.93% Inactivation of Omicron variant in 2 hours

#### Experimental Results

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



#### Test Method

hCoV-19/Japan/ TY38-873/2021 strain (Omicron variant) was used. Two acrylic boxes of about 31L were placed in a safety cabinet in the BSL-3 facility, and Streamer discharge device was installed in



one of the acrylic boxes. Seesaw shakers with a 6-well plate were placed in both boxes, and 0.5 mL of virus solution was placed in each well of the plate. Streamer irradiation was performed on one 6-well plate while stirring with a seesaw shaker. After 1, 2, and 4 hours, the virus solution was collected, and the virus titer was measured by the TCID50 method using Vero E6/TMPRSS2 cells.

#### **■ Test Organization**

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

\*This result was obtained by using a Streamer discharge device for testing in lab conditions.

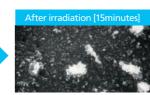
The effect of products equipped with Streamer technology or results in actual use environments may differ.

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

### Demonstration of mould

Picture of mould





#### Test Method

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

#### ■ Test Organization

Demonstration test was performed at Wakayama Medical University.

### Why Daikin Streamer?

Recognized as clean technology by public bodies

Winner of the 2005 Progress Award, Institute of Electrostatics Japan

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

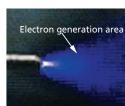
105 Patents Acquired

Patents acquired relating to Streamer technology

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

Note:

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

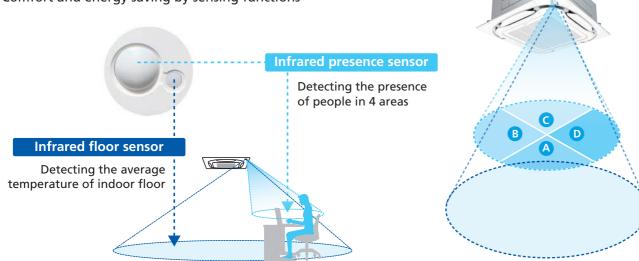


## Round Flow Cassette with Sensing and Streamer Type

Daikin advanced sensing technology dual sensors

Round flow with sensing

Comfort and energy saving by sensing functions



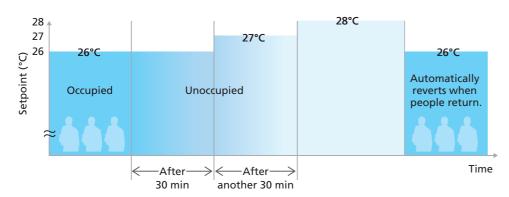
Sensing sensor mode Energy saving

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

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

#### Example

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



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

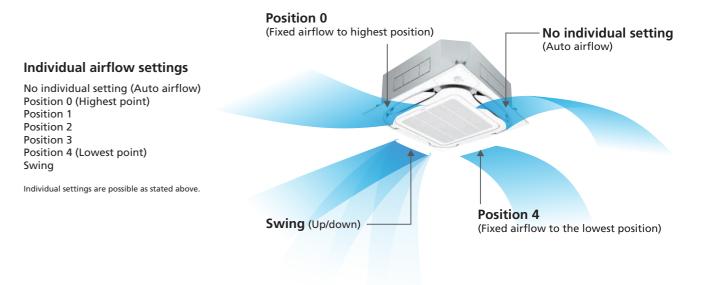
Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

## Individual airflow direction control

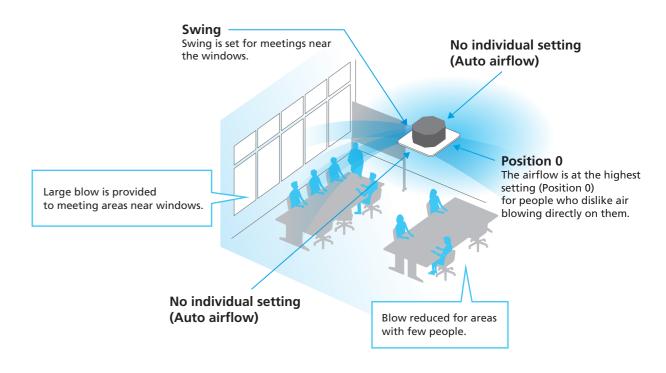
■ Comfortable air conditioning for all room layouts and conditions

Easy setting is possible with a wired remote controller

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



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



<sup>\*</sup>Adjustment is possible for shift time and set temperature by local setting.

## Round Flow Cassette with Sensing and Streamer Type

## Other functions

### Quick and easy installation

### Installable in tight ceiling spaces

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

\* For FXFTQ25-80A models.

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



## Easy maintenance

### Drain pan and drain water check

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

### Just open the suction grille!

Drain outlet <-(with rubber plug)



### Cleanliness

### Silver ion anti-bacterial drain pan

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

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

Filter has anti-mould and antibacterial treatment





### High Performance Prefilter (MERV 8) (Option) See page 209

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



### ■ Panel (Option)



Standard panel with sensing

BYCQ125EEF (Fresh White)



Standard panel with sensing

BYCQ125EEK (Black)

### Specifications

	MOD	EL		FXFTQ25AVM	FXFTQ32AVM	FXFTQ40AVM	FXFTQ50AVM	FXFTQ63AVM	FXFTQ80AVM	FXFTQ100AVM	FXFTQ125AVM	FXFTQ140AVM
Power supply							1-phase, 22	0-240 V/220-230	V, 50/60 Hz			
Cooling canac	Cooling capacity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
Cooling capacity		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0	
Heating capacity			Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,	600
Heating capacity k		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16	5.0	
Rower consumption Cooling		kW	0.0	0.028		0.056	0.061	0.092	0.164	0.170	0.194	
Power consumption Heating		KVV	0.026		0.034	0.056	0.060	0.092	0.144	0.159	0.183	
Casing							G	alvanised steel pla	ite			
A : £1 /1	101114014	(h 41 (l )	l/s	217/208/192/183/167		283/225/208/200/183	383/342/317/242/183	392/350/333/267/225	408/367/342/333/250	558/508/450/392/350	575/525/475/425/383	592/542/492/442/383
Airflow rate (H	H/HIVI/IVI/	'IVIL/L)	m³/min	13/12.5/11.5/11/10		17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
Sound level (H	I/HM/M/	ML/L)	dB(A)	30/29.5/2	8.5/28/27	35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35
Dimensions (H	l×W×D)		mm			256×84	40×840					
Machine weight		kg		19		24	2	2	25 26			
Liquid (Flare)				φ 6	5.4				<b>∮</b> 9.5			
Piping connections	Gas (Fla	re)	mm		<i>φ</i> 1	2.7	•			<i>ϕ</i> 15.9	•	•
	Drain						VP25 (Exte	rnal Dia. 32/Interr	nal Dia. 25)			

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
   During actual operation, these values are normally somewhat higher as a result of ambient condition

### Panel (Option)

	Model		BYCQ125EEF (Fresh White)
Standard	Dimensions(H×W×D)	mm	50×950×950
panel	Weight	kg	5.5
with	Model		BYCQ125EEK (Black)
sensing	Dimensions(H×W×D)	mm	50×950×950
	Weight	kg	5.5

#### **Function List**

Wired remote controller	BRC1H63W(K)
Streamer function unit	0
Dual sensors *1	0
Auto airflow function (Draft prevention) *1	0
Sensing sensor low mode *1	0
Sensing sensor stop mode *1	0
Individual airflow direction control	0
Switchable 5 step fan speed	0
Auto airflow rate	0
Auto swing	0
High ceiling application	0

<sup>\*1.</sup> Applicable when sensing panel is installed.

## Round Flow Cassette with Sensing Type

**FXFSQ-A** 

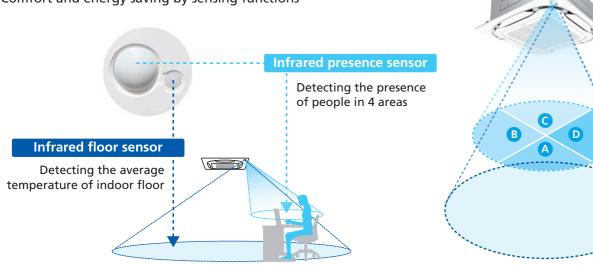
Comfort and energy saving by sensing functions



# Daikin advanced sensing technology dual sensors

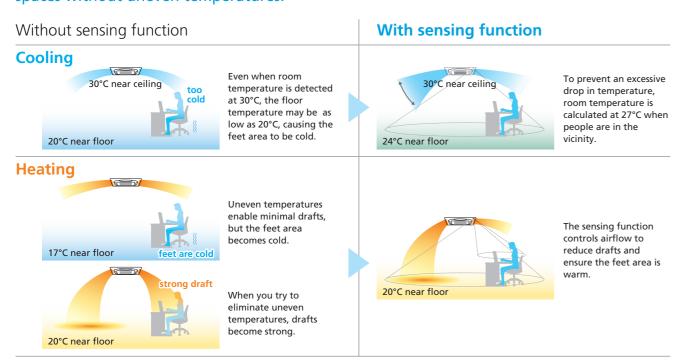
Round flow with sensing

Comfort and energy saving by sensing functions



■ Comfort and energy saving preventing over cooling/heating Comfort

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



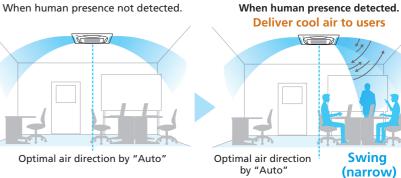
Auto airflow function Comfort

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

### Direct Airflow (default: OFF)

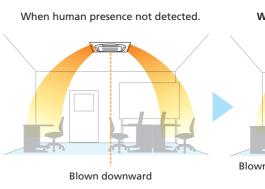
Cooling





Draft prevention function (default: OFF)

Heating



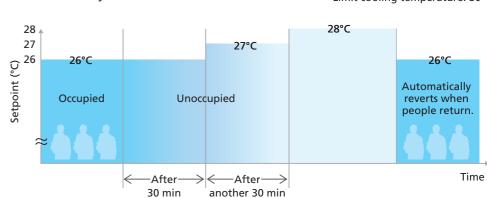


Sensing sensor mode Energy saving

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

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

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



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

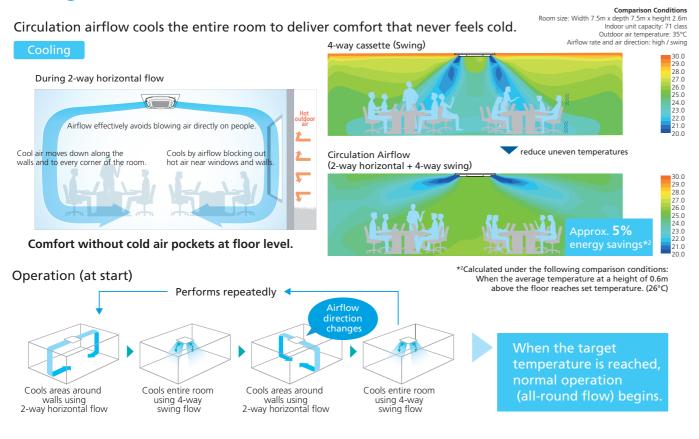
Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

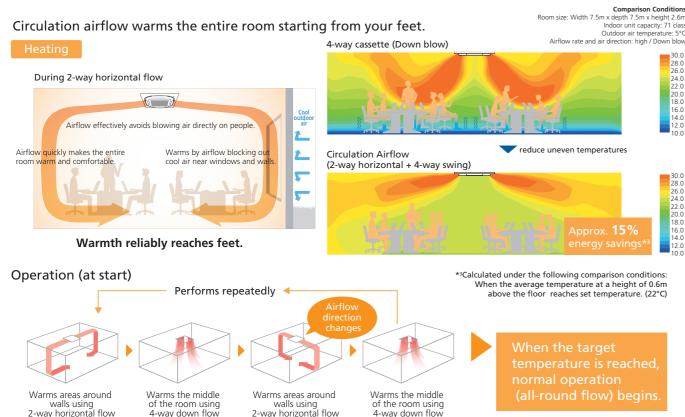
<sup>\*</sup>Adjustment is possible for shift time and set temperature by local setting.

## Round Flow Cassette with Sensing Type

### Circulation airflow\*1

Configurations of circulation airflow





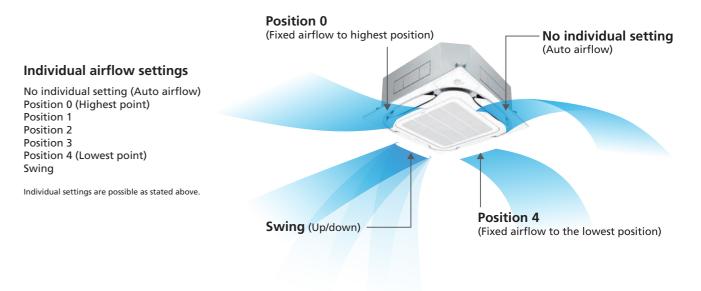
## Individual airflow direction control

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

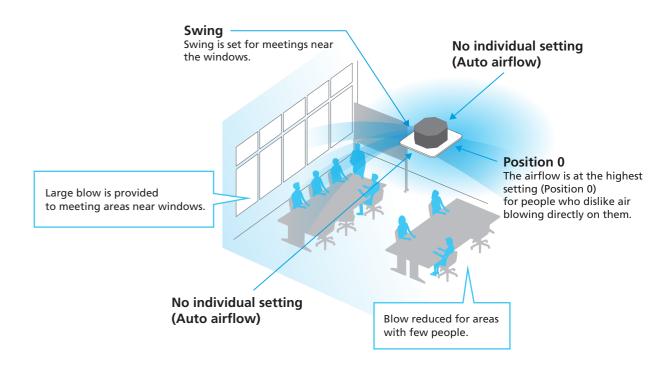
### ■ Comfortable air conditioning for all room layouts and conditions

### Easy setting is possible with a wired remote controller

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



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

3-way flow

L-shaped 2-way flow

Opposite 2-way flow

(E.g., installed in middle of ceiling)

(E.g., installed in a corner)

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

### Suitable for high ceilings

4-way flow also possible.

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.



### Cleanliness

### Silver ion anti-bacterial drain pan

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

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

Filter has anti-mould and antibacterial treatment

High Performance Prefilter (MERV 8) (Option) See page 209

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









### Panel (Option)



Standard panel with sensing
BYCO125EEF (Fresh White)



Standard panel with sensing
BYCO125EEK (Black)

#### **Specifications**

Specification	13												
IOM	DEL		FXFSQ25AVM	FXFSQ32AVM	FXFSQ40AVM	FXFSQ50AVM	FXFSQ63AVM	FXFSQ80AVM	FXFSQ100AVM	FXFSQ125AVM	FXFSQ140AVM		
Power supply						1-phase, 22	nase, 220-240 V/220-230 V, 50/60 Hz						
Cooling capacity		Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	38,200 47,800			
		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0		
Heating capacity		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	54,	600		
Heating capacity		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0			
Power consumption	Cooling	kW	0.028		0.035	0.056	0.061	0.092	0.164	0.170	0.194		
rower consumption	Heating	KVV	0.0	026	0.034	0.056	0.060	0.092	0.144	0.159	0.183		
Casing				Galvanised steel plate									
A:=fle rete /11/11/4/A	1/5.41.71.)	l /s	217/208/1	92/183/167	283/225/208/200/183	383/342/317/242/183	392/350/333/267/225	408/367/342/333/250	558/508/450/392/350	575/525/475/425/383	592/542/492/442/383		
Airflow rate (H/HM/M/ML/L) m³/r		m³/min	13/12.5/1	1.5/11/10	17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23		
Sound level (H/HM/M/ML/L) dB(A		dB(A)	30/29.5/2	8.5/28/27	35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35		
Dimensions (H×W×D) mm					256×8	40×840			298×840×840				

Notes: Specifications are based on the following conditions;

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

*∮* 6.4

φ 12.7

- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

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

#### Panel (Option)

Liquid (Flare)

Gas (Flare) Drain

	Model		BYCQ125EEF (Fresh White)
Standard	Dimensions(H×W×D)	mm	50×950×950
panel	Weight	kg	5.5
with	Model		BYCQ125EEK (Black)
sensing	Dimensions(H×W×D)	mm	50×950×950
	Weight	kg	5.5

#### **Function List**

VP25 (External Dia. 32/Internal Dia. 25)

Remote controller	Wi	red	Wireless
Remote controller	BRC1E63	BRC1H63W(K)	BRC7M634F(K)
Dual sensors *1	0	0	_
Auto airflow function (Direct airflow) *1	0	_	_
Auto airflow function (Draft prevention) *1	0	0	_
Sensing sensor low mode *1	0	0	_
Sensing sensor stop mode *1	0	0	_
Circulation airflow	0	_	_
Individual airflow direction control	0	0	_
Switchable 5 step fan speed	0	0	0
Auto airflow rate	0	0	0
Auto swing	0	0	0
Selectable airflow pattern	0	_	0
High ceiling application	0	0	_

φ9.5

*∮* 15.9

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

<sup>\*1.</sup> Applicable when sensing panel is installed.

## Round Flow Cassette Type

## **FXFQ-A** 360° airflow for improved comfort

Circulation airflow\*1 **ROUND FLOW** 

Configurations of circulation airflow

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



Comfort without cold air pockets at floor level.

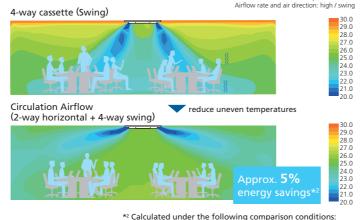
Cools entire room

Operation

Cools areas around

walls using 2-way horizontal flow

(at start)



When the average temperature at a height of 0.6m above the floor reaches set temperature (26°C) When the target temperature is reached, Cools entire room (all-round flow) begins

> Indoor unit capacity: 71 class Outdoor air temperature: 5°C

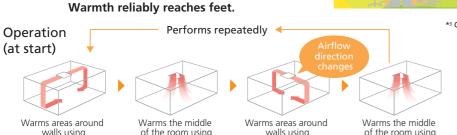
Airflow rate and air direction: high / Down blow

### Circulation airflow warms the entire room starting from your feet.

Performs repeatedly

Cools areas around





4-way cassette (Down blow) Circulation Airflow (2-way horizontal + 4-way swing) Approx. **15**%

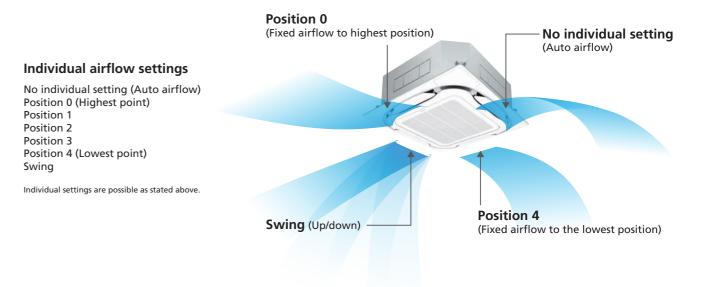
> \*3 Calculated under the following comparison conditions When the average temperature at a height of 0.6m above the floor reaches set temperature. (22°C)

## Individual airflow direction control

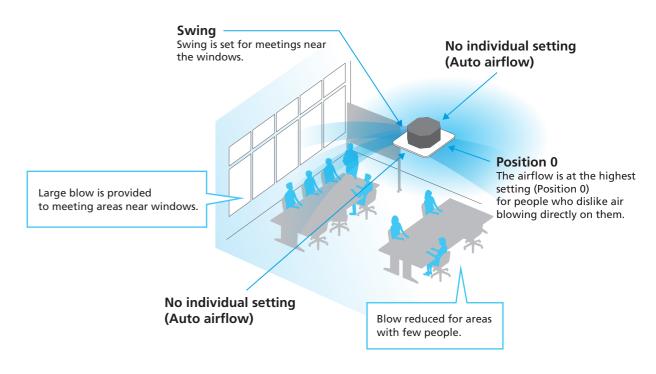
■ Comfortable air conditioning for all room layouts and conditions

### Easy setting is possible with a wired remote controller

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



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



## Round Flow Cassette Type

## Other functions

### Comfort

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

All-round flow

3-way flow

L-shaped 2-way flow

Opposite 2-way flow

(E.g., installed in middle of ceiling)

(E.g., installed in a corner)

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

### Suitable for high ceilings

4-way flow also possible.

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.



### Cleanliness

### Silver ion anti-bacterial drain pan

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

 $\ensuremath{^{\star}}$  Drain pan should be changed once every two to three years.

Filter has anti-mould and antibacterial treatment

### High Performance Prefilter (MERV 8) (Option) See page 209

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









### Decoration Panel (Option)

### Standard panel



**Standard panel** BYCQ125EAF (Fresh White)



Standard panel BYCO125EAK (Black)

### Auto grille panel

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

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



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

#### Specifications

MODEL		FXFQ25AVM	FXFQ32AVM	FXFQ40AVM	FXFQ50AVM	FXFQ63AVM	FXFQ80AVM	FXFQ100AVM	FXFQ125AVM	FXFQ140AVM			
Power supply				1-phase, 220-240 V/220-230 V, 50/60 Hz									
Cooling capa	city		Btu/h	9,600 12,300		15,400	19,100	24,200	30,700	38,200	47,800	54,600	
Cooling capa	icity		kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0	
Heating capa	city		Btu/h	10,900	13,600	17,100	21,500	27,300	34,100	42,700	47,800	54,600	
ricating capa	icity		kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	14.0	16.0	
Power consur	motion	Cooling	kW	0.0	29	0.036	0.040	0.063	0.096	0.158	0.178	0.203	
rower consul	приоп	Heating	NVV	0.0	27	0.036	0.040	0.063	0.096	0.150	0.166	0.191	
Casing					Galvanised steel plate								
Ainflancemate /	11/11/15/4/5/4	(N. 41. (I.)	l/s	217/208/192/183/167		283/225/208/200/183	383/342/317/242/183	392/350/333/267/225	408/367/342/333/250	558/508/450/392/350	575/525/475/425/383	592/542/492/442/383	
Airflow rate (	H/HIVI/IVI/	IVIL/L)	m³/min	13/12.5/11.5/11/10		17/13.5/13/12/11	18/17/13.5/12.5/11	21/20/16/15/13.5	22.5/21.5/21/20/15	32/29/26/23/21	33/30.5/28/25.5/21	35.5/32.5/29.5/26.5/23	
Sound level (	H/HM/M/	ML/L)	dB(A)	30/29.5/28.5/28/27		35/29.5/29/28/27	35/33.5/29.5/28.5/27	36/35.5/31.5/31/28	37/36.5/36/35.5/29.5	43/40.5/37.5/35/33	44/41.5/39/36.5/33	46/43.5/40.5/38/35	
Dimensions (	H×W×D)		mm		256×840×840 298×840×840								
Machine wei	ght		kg		1	9		2	2	2	5	26	
n: :	Liquid (F	lare)			φ	6.4				<b>♦</b> 9.5			
Piping connections	Gas (Fla	re)	mm		φ 12.7			φ 15.9					
connections	Drain						VP25 (Exte	rnal Dia. 32/Interr	nal Dia. 25)				

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m. Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
   During actual operation, these values are normally somewhat higher as a result of ambient conditions.

#### **Decoration Panel (Option)**

Model		BYCQ125EAF (Fresh White ) / BYCQ125EAK (Black)			
Dimensions(H×W×D)	mm	50×950×950			
Weight	kg	5.5			
Model		BYCQ125EBSF (Fresh White)			
Dimensions(H×W×D)	mm	105×950×950			
Weight	kg	8			
	Dimensions(H×W×D) Weight Model Dimensions(H×W×D)	Dimensions(H×W×D) mm Weight kg Model Dimensions(H×W×D) mm			

### Function List

Remote controller	W	ired	Wireless	
Remote controller	BRC1E63	BRC1H63W(K)	BRC7M634F(K)	
Circulation airflow	0	_	_	
Individual airflow direction control	0	0	_	
Switchable 5 step fan speed	0	0	0	
Auto airflow rate	0	0	0	
Auto swing	0	0	0	
Selectable airflow pattern	0	0	0	
High ceiling application	0	0	_	

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

## Compact Multi Flow Cassette Type



Quiet, compact, and designed for user comfort

## Compact & elegant design

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



## Efficiency & comfort

### **Dual sensors (Option)**

- Two optional intelligent sensors improve energy efficiency and comfort.
- An optional presence and floor sensor kit can be fitted to the cassette for draught prevention, energy-saving operation and to provide optimal control of airflow.

### Individual airflow direction control\*

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

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

#### Auto swing (up/down)

Possibility to select automatic vertical moving of the air discharge flaps for efficient air and temperature distribution throughout the room.

## Cleanliness



Daikin Stre powerful c for better

1) Only the stylish

2) The Streamer



#### BAPW55A61



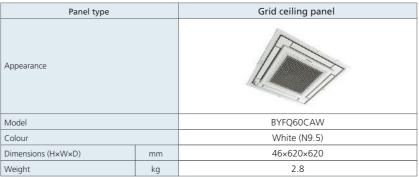




#### Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.) • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
- During actual operation, these values are normally somewhat higher as a result of ambient conditions

### Panel (Option)







### **Specifications**

	MODEL		FXZQ20BVM	FXZQ25BVM	FXZQ32BVM	FXZQ40BVM	FXZQ50BVM		
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz						
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100		
		kW	2.2	2.8	3.6	4.5	5.6		
Heating canacity		Btu/h	8,500	10,900	13,600	17,100	21,500		
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3		
Power	Cooling	kW	0.0	)43	0.045	0.059	0.092		
consumption	Heating	KVV	0.0	36	0.038	0.053	0.086		
Casing			Galvanised steel plate						
Airflow rate (H/M/L	`	l/s	145/125/108	150/133/108	167/142/117	192/158/133	242/208/167		
Alfilow rate (H/IV/L	.)	m³/min	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.5/12.5/10.0		
Sound level (H/M/L	)	dB(A)	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0		
Sound power (H)		dB(A)	49	50	51	54	60		
Dimensions (H×W×	(D)	mm	260×575×575 (For depth add 63 mm for electrical box)						
Machine weight		kg	15	5.5	16	5.5	18.5		
B	Liquid (Flare)				<i>ϕ</i> 6.4				
Piping connections	Gas (Flare)	mm		·	<i>ϕ</i> 12.7		·		
	Drain			VP20 (E	ixternal Dia. 26/Internal Dia. 20)				

reamer filter clean unit (Option) See page 5-6		Appearance		
treamer technology enhances maximum efficiency in cleaning, which uses I decomposition properties to decompose substances captured by the filter	STREAMER	Model		BYFQ60CAW
er air quality.		Colour		White (N9.5)
/lish remote controller BRC1H63W(K) can be connected for ON/OFF operation of the streamer.		Dimensions (H×W×D)	mm	46×620×620
er function operates only when the fan and air conditioning operation are stopped. The maximum operation of Streamer is		Weight	kg	2.8
s per day.				

Ceiling soiling prevention

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

## Double Flow Cassette Type



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

## Stylish design

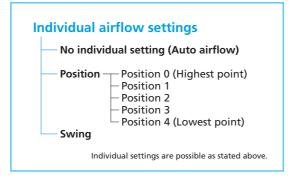
- Stylish unit blends easily with any interior.
- The flat flaps close entirely when the unit is not operating and there are no air intake grilles visible.
- Depth of all units is 620 mm, ideal for narrow spaces

## Comfort

### Individual airflow direction control\*

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





### 5-step & auto airflow control

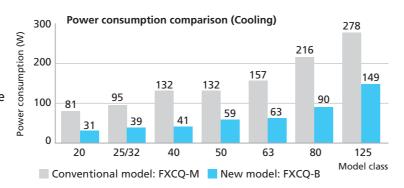
• Control of airflow rate has been improved from 3-step to 5-step. Auto airflow rate is newly available.

### Suitable for high ceilings

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

## **Energy saving**

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



## Easy maintenance

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





## Flexible installation

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

### Cleanliness



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



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



BAPW55A61

### Silver ion anti-bacterial drain pan

- Prevents the growth of slime, bacteria, and mould that cause odours and clogging.
- \* Drain pan should be changed once every two to three years.

#### Filter has anti-mould and antibacterial treatment



#### **Specifications**

MODEL				FXCQ20BVM	FXCQ25BVM	FXCQ32BVM	FXCQ40BVM	FXCQ50BVM	FXCQ63BVM	FXCQ80BVM	FXCQ125BVM	
Power supply				1-phase, 220-240 V/220-230 V, 50/60 Hz								
Caaling canacit	to c		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	47,800	
Cooling capacit	Ly		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0	
Heating capacit	t.		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	34,100	54,600	
пеанну сарасн	Ly		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0	
Power consum	ntion	Cooling	kW	0.031	0.0	39	0.041	0.059	0.063	0.090	0.149	
Tower consum	ption	Heating	KVV	0.028	0.0	35	0.037	0.056	0.060	0.086	0.146	
Casing					Galvanised steel plate							
Airflow voto /III	// I I A // A // A	1.71	l/s	175/158/150/133/125	192/175/158/142/133		200/183/175/158/142	250/233/217/192/175	267/250/233/208/192	433/400/375/342/308	533/492/458/417/375	
Airflow rate (H/	/HIVI/IVI/IVI	L/L)	m³/min	10.5/9.5/9/8/7.5	11.5/10.5/9.5/8.5/8		12/11/10.5/9.5/8.5	15/14/13/11.5/10.5	16/15/14/12.5/11.5	26/24/22.5/20.5/18.5	32/29.5/27.5/25/22.5	
Sound level (H/	HM/M/MI	L/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	$\times$ W $\times$ D)		mm	305×775×620				305×990×620		305×1,445×620		
Machine weigh	nt		kg	19				22	25	33	38	
D	Liquid (	(Flare)			<b>\$\phi\</b> 6.4					φ 9.5		
Piping connections	Gas (Fla	are)	mm		φ12.7					φ15.9		
Connections	Drain					VP2	5 (External Dia.	32/Internal Dia.	25)			
	Model			BYBCQ40CF				BYBC	Q63CF	BYBCC	)125CF	
Panel	Colour			Fresh white (6.5Y 9.5/0.5)								
(Option)	Dimension	ns (H×W×D)	mm		55×1,0	55×1,070×700			55×1,285×700		55×1,740×700	
	Weigh	t	kg		1	0		11		13		

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m. • Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
   Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

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

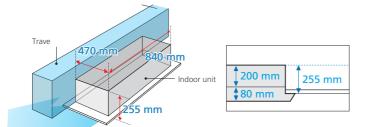
Single Flow Cassette Type

**FXEQ-A** 

Slim design for flexible installation

## Slim design

• The body features a compact design with a height of just 200 mm and depth 470 mm, making the installation possible in tight ceiling spaces.



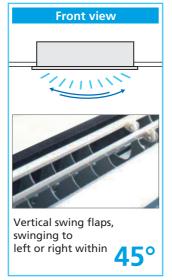
• The novel smooth panel design makes dust difficult to accumulate, thus causing the cleaning more conveniently.

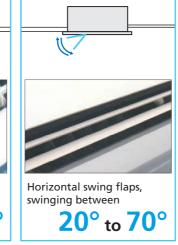


Side view

## Comfort

- The swinging of horizontal and vertical swing flaps can be adjusted freely with the remote controller, providing 3D airflow to every corner of the room.
- Control of airflow rate can be selected from 5-step control, Automatic and quiet operation mode, which provides comfortable airflow.
- DC motor is adopted both in the fan and drain pump of the indoor unit, not only enhancing the energy saving performance, but also reducing the operating sound and the vibration incurred to the unit.
- While creating a cozy indoor environment, the unit can prevent the suspended ceiling from being soiled by adjusting its louvre angle.

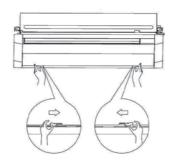




## Easy maintenance

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

 Maintenance operations can be performed by removing the front panel.







### Specifications

	MODEL		FXEQ20AV36	FXEQ25AV36	FXEQ32AV36	FXEQ40AV36	FXEQ50AV36	FXEQ63AV36		
Power supply	,		1-phase, 220-240 V, 50 Hz							
Cooling capacity  Btu/h kW		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200		
		kW	2.2	2.8	3.6	4.5	5.6	7.1		
Heating cana	eit.	Btu/h	8,500	10,900	13,600	17,100	21,500	27,300		
Heating capa	city	kW	2.5	3.2	4.0	5.0	6.3	8.0		
Power	Coolin	g kW	0.026	0.027	0.034	0.046	0.048	0.067		
consumption	Heatin	g KVV	0.022	0.023	0.030	0.042	0.044	0.063		
Casing					Galvanised	steel plate				
	Coolin	l/s	100/90/82/73/67	115/107/97/88/80	133/125/117/105/92	163/147/130/117/103	208/190/173/158/145	150/227/203/183/163		
Airflow rate	Coolii	m³/min	6.0/5.4/4.9/4.4/4.0	6.9/6.4/5.8/5.3/4.8	8.0/7.5/7.0/6.3/5.5	9.8/8.8/7.8/7.0/6.2	12.5/11.4/10.4/9.5/8.7	15.0/13.6/12.2/11.0/9.8		
(H/HM/M/ML	/L) Heatin	l/s	100/93/85/78/70	120/112/102/93/83	143/133/123/112/100	170/155/140/127/113	233/213/193/178/163	282/255/227/205/183		
	пеаш	m³/min	6.0/5.6/5.1/4.7/4.2	7.2/6.7/6.1/5.6/5.0	8.6/8.0/7.4/6.7/6.0	10.2/9.3/8.4/7.6/6.8	14.0/12.8/11.6/10.7/9.8	16.9/15.3/13.6/12.3/11.0		
Sound level	Coolin	g JD(A)	30/29/28/27/26	32/31/30/29/28	35/34/33/32/30	38/37/35/33/31	38/37/35/33/31	43/41/39/37/35		
(H/HM/M/ML	/L) Heatin	g dB(A)	33/31/29/28/26	35/33/31/30/28	38/36/34/33/31	41/39/37/35/33	41/39/37/36/34	46/44/42/40/38		
Dimensions (	H×W×D)	mm		200×84	200×1,240×470					
Machine wei	ght	kg		17	2	3				
D	Liquid (Flare	)		φ 6.4						
Piping connections	Gas (Flare)	mm			<i>∮</i> 12.7			<i>ф</i> 15.9		
	Drain				PVC26 (External Dia	. 26/Internal Dia. 20)				
	Model			BYEP40AW1 BYEP6						
Panel	Colour			Fresh white						
(Option)	Dimensions(H×W	D) mm		80×950×550						
	Weight	kg	8.0					0.0		

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height differencee: 0 m.
   Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward

## Slim Duct (Standard) Type

**FXDQ-PD / ND** 

Slim design, quietness and ideal for drop-ceilings

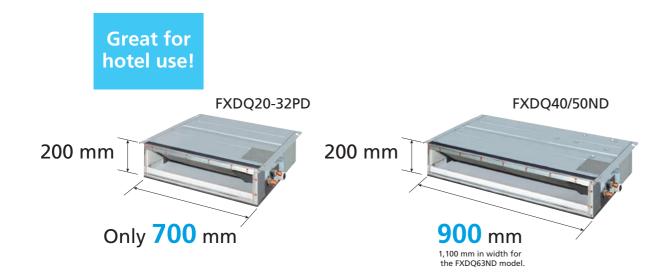


## Comfort

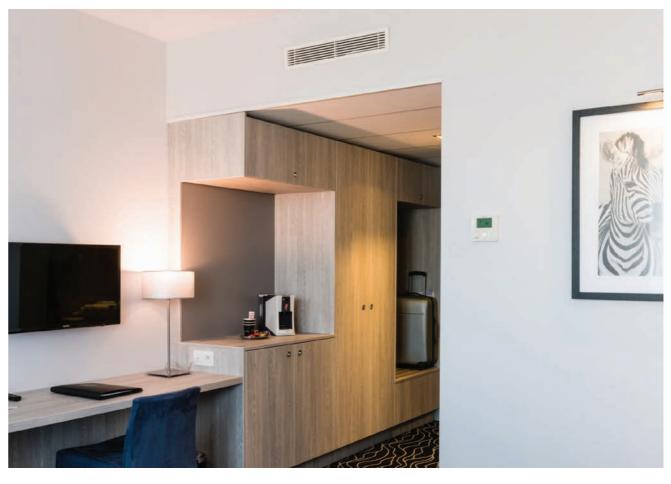
- Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller.
- Low operation sound level: down to 23 dB(A)

## Installation flexibility

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



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



#### **Specifications**

MODEL				FXDQ20PDVE	FXDQ25PDVE	FXDQ32PDVE	FXDQ40NDVE	FXDQ50NDVE	FXDQ63NDVE		
Power supply				1-phase, 220-240 V/220 V, 50/60 Hz							
Caaliaa aaaaib			Btu/h	7,500	9,600	12,300	15,400	19,100	24,200		
Cooling capacity			kW	2.2	2.8	3.6	4.5	5.6	7.1		
			Btu/h	8,500	10,900	13,600	17,100	21,500	27,300		
Heating capacity			kW	2.5	3.2	4.0	5.0	6.3	8.0		
Power consumption	on Co	oling		0.0	186	0.089	0.160	0.165	0.181		
	He	ating	kW	0.0	167	0.070	0.147	0.152	0.168		
Casing					Galvanised steel plate						
A: (1 . /1111/1	10)		ℓ/s	133/120/106			175/158/141	208/183/166	275/241/216		
Airflow rate (HH/H	I/L)		m³/min		8.0/7.2/6.4		10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0		
External static pres	sure		Pa	30-10 *²			44-15 *²				
Sound level (HH/H	/L) *1 *3		dB(A)	28/2	6/23	28/26/24	30/28/26	33/30/27	33/31/29		
Sound power (HH/	H/L)		dB(A)	56/5	4/51	56/54/52	58/56/54	61/58/55	61/59/57		
Dimensions (H×W	×D)		mm		200×700×620		200×90	00×620	200×1,100×620		
Machine weight			kg	23			27	28	31		
	Liquid (Fla	are)				<b>♦</b> 9.5					
Piping connections	Gas (Flare)	)	mm			<b>∮</b> 12.7			<b>∮</b> 15.9		
connections	Drain					VP20 (External Dia.	26/Internal Dia. 20)				

- Notes: Specifications are based on the following conditions;

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

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

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

   Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

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

    \*1: Values are based on the following conditions: FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: external static pressure of 15 Pa.

    \*2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure Standard". (Factory setting is 10 Pa for FXDQ-PD models and 15 Pa for FXDQ-ND models.)
  - \*3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

## Slim Duct (Compact) Type

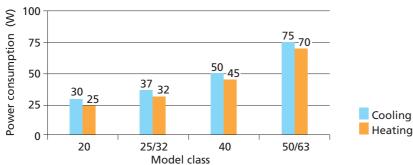
### **FXDQ-T**

Slim and compact design for easy and flexible installation



## **Energy saving**

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



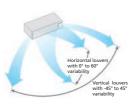
## Comfort

### 5-step & auto airflow control

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

### 3-D auto swing discharge grille (Option)

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

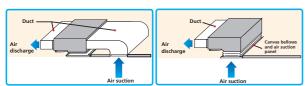


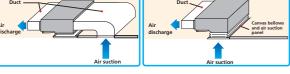


	Model	Compatibility	HxWxD (mm)		
rs .	BDG20A09	20-32 Class	180x722x70		
	BDG20A15	40-50 Class	180x922x70		
	BDG20A20	63 Class	180x1,122x70		

## Installation flexibility

- Slim and compact design with a height of only 200 mm and the depth of only 450 mm which is suitable to install in limited spaces.
- Features rear or bottom return to suite site constraints.





#### Air filter included

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

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

## Easy maintenance

### Auto clean air filter module (Option)

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





which is collected in the dust

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



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

## Design flexibility

### Two series available

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

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

#### **Specifications**

	MOD	EL		FXDQ20TV1C(A)	FXDQ25TV1C(A)	FXDQ32TV1C(A)	FXDQ40TV1C(A)	FXDQ50TV1C(A)	FXDQ63TV1C(A)	
Power supply	/			1-phase, 220-240/220-230 V, 50/60 Hz						
Cooling cana	Cooling capacity  Btu/h kW			7,500	9,600 12,300		15,400	19,100	24,200	
Cooling Capa				2.2	2.8	3.6	4.5	5.6	7.1	
Heating capa	city		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	
Tleating Capa	icity		kW	2.5	3.2	4.0	5.0	6.3	8.0	
Power consu	mntion *1	Cooling	kW	0.030	0.0	)37	0.050	0.0	)75	
Tower consu	приоп	Heating	KVV	0.025	0.0	)32	0.045	0.0	)70	
Casing				Galvanized steel plate						
Airflow rate			l/s	135	150		210	250	325	
7 til How Tate			m³/min	8.1	9	.0	12.6	15.0	19.5	
External stati	c pressure		Pa	40-10*2		50-10*2	60-10*2	45	-10 <sup>*2</sup>	
Sound level (	HH/H/L)*1 *3	:	dB(A)	32/30/28	33/30	).5/28	34/31.5/29	35/32.5/30	37/35/33	
Dimensions (	H×W×D)		mm		200×700×450		200×90	00×450	200×1,100×450	
Machine wei	ght		kg		18		2	.1	24	
p	Liquid (Flare)					<b>φ</b> 6.4		·	<b>♦</b> 9.5	
Piping connections	Gas (Flare	)	mm			<b>\$</b> 12.7		<b>♦</b> 15.9		
cornections	Drain				P	VC26 (External Dia.	26 / Internal Dia. 20	0)		

Notes: Specifications are based on the following conditions:

- •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 5 m, Height difference: 0 m.
- •Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 5 m, Height difference: 0 m.
  •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre
  - During actual operation, these values are normally somewhat higher as a result of ambient conditions
- \*1: Values are based on external static pressure of 10 Pa. For FXDQ-TV1CA models, +0.0005kW on top of cooling/heating power consumption values.
- \*2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure Standard". (Factory setting is 10 Pa )
  \*3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A)

## Middle Static Pressure Duct Type

**FXSQ-PA** 

Middle static pressure and slim design allow flexible installations



### Installation flexibility

### Slim design

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



### Standard DC drain pump

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

### Bottom suction possible

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



### Design flexibility

### Adjustable external static pressure

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

#### Adjustable external static pressure

30 Pa\*

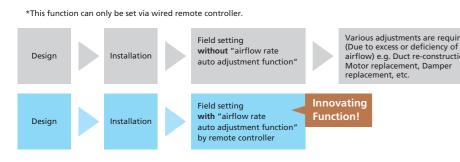
**150** Pa

30 Pa-150 Pa for FXSQ20-40PAVE 50 Pa-150 Pa for EXSO50-125PAVE

### Easy installation

### "Airflow rate auto adjustment function" at field setting

(local setting by remote controller)



- . 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. Actual duct resistance is calculated according to 1 and 2.
- 4. Fan speed is automatically adjusted to produce rated airflo

(Refer to Engineering Data Book for details)

### 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**

Cooling Heating	Btu/h kW Btu/h kW	7,500 2.2 8,500 2.5	1-phase, 2 9,600 2.8 10,900 3.2	20-240 V/220 V, 12,300 3.6 13,600	15,400 4.5	19,100 5.6	
	kW Btu/h kW	2.2 8,500 2.5	2.8	3.6	4.5		
	Btu/h kW	8,500 2.5	10,900			5.6	
	kW	2.5		13.600	17 100		
			2.2	.,	17,100	21,500	
	L\M		5.2	4.0	5.0	6.3	
Heating		0.058	3* <sup>1</sup>	0.066*1	0.101*1	0.075*1	
	NVV	0.053	3* <sup>1</sup>	0.061*1	0.096*1	0.070*1	
Casing			Galvanised steel plate				
	l/s	150/12	25/108	158/133/116	250/208/175	283/242/192	
	m³/min	9/7.5	5/6.5	9.5/8/7	15/12.5/10.5	17/14.5/11.5	
ure	Pa	30-150 (50) * <sup>2</sup> 50-15				50-150 (50) *2	
	dB(A)	33/3	0/28	34/32/30	36/33/30	34/32/29	
	dB(A)	6	1	62	64	62	
0)	mm		245×550×800		245×700×800	245×1,000×800	
Machine weight kg			25 27 35				
Liquid (Flare)		φ6.4					
Piping . Gas (Flare) mm				<i>ϕ</i> 12.7			
onnections Drain			VP25 (Exter	rnal Dia. 32/Inter	nal Dia. 25)		
d	(Flare)	dB(A) ) mm kg (Flare)	dB(A) 6 ) mm kg (Flare)	dB(A) 61 ) mm 245×550×800 kg 25 (Flare) lare) mm	dB(A)   61   62     62	dB(A) 61 62 64 ) mm 245×550×800 245×700×800 kg 25 27 (Flare) \$\phi 6.4\$	

	MODE	L		FXSQ63PAVE	FXSQ80PAVE	FXSQ100PAVE	FXSQ125PAVE	FXSQ140PAVE		
Power supply					1-phase, 220-240 V/220 V, 50/60 Hz					
C lin	· .		Btu/h	24,200	30,700	38,200	47,800	54,600		
Cooling capaci	kW			7.1	9.0	11.2	14.0	16.0		
Heating capacity Btu/h			27,300	34,100	42,700	54,600	61,400			
neating capaci	ity		kW	8.0	10.0	12.5	16.0	18.0		
Power Cooling			kW	0.106*1	0.126*1	0.151*1	0.206*1	0.222*1		
consumption Heating			NVV	0.101*1	0.121*1	0.146*1	0.201*1	0.217*1		
Casing				Galvanised steel plate						
Airflow rate (H	/N/// )		l/s	350/292/242	383/325/267	533/450/375	617/525/433	650/558/467		
All How rate (I)	/1V1/L)		m³/min	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26	39/33.5/28		
External static	pressure		Pa		50-150 (50) * <sup>2</sup> 50-1					
Sound level (H	/M/L)		dB(A)	36/32/29	37.5/34/30	39/35/32	42/38.5/35	43/40/36		
Sound power (	(H)		dB(A)	64	65.5	67	70	71		
Dimensions (H	×W×D)		mm	245×1,0	008×000	245×1,4	100×800	245×1,550×800		
Machine weight kg		kg	35	37	46	47	52			
	Liquid (Fl	lare)				φ9.5				
Piping connections	Piping Gas (Flare)		mm			<i>ф</i> 15.9				
CONNECTIONS	Drain				VP25 (Exte	rnal Dia. 32/Inter	nal Dia. 25)			

Specifications are based on the follow Cooling: Indoor temp.: 27°CDB, 19°CWB,

- Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference • Heating: Indoor temp.: 20°CDB, Outdoor
- temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
  • Capacity of indoor unit is only for reference. Actual capacity of indoor unit
- is based on the total capacity index. (See Engineering Data Book for details.) Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre
- During actual operation, these values are normally somewhat higher as a result of ambient conditions. \*1: Power consumption values are based
- on conditions of rated external static pressure
- \*2: External static pressure can be modified using a remote controller that offers thirteen (FXSQ20-40PA), eleven (FXSO50-125PA) or ten (FXSQ140PA) levels of control. These values indicate the lowest and highest possible static pressures. The rated

## Middle Static Pressure Duct Type

### **FXDYQ-MA**

Middle static pressure allows for flexible duct design.

### **Energy saving**

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



### Installaion flexibility

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

### **Specifications**

N	IODEL		FXDYQ80MAV1	FXDYQ100MAV1	FXDYQ125MAV1	FXDYQ145MAV1
Power supply				1-phase, 220	-240 V, 50 Hz	
Cooling capacity		Btu/h	30,000	38,200	47,400	54,600
Cooling Capacity		kW	8.8	11.2	13.9	16.0
Heating capacity  Btu/h			33,800	42,700	54,600	62,800
kW			9.9	12.5	16.0	18.4
Power consumpti	Power consumption Cooling kW		0.415	0.700	0.780	0.880
rower consumpti	Heating		0.415	0.700	0.780	0.880
Casing				Galvanised	steel plate	
Airflow rate (H)		l/s	510	778	852	957
All llow rate (11)		m³/min	30.6	46.7	51.1	57.4
External static pre	ssure	Pa		1:	20 *1	
Sound level (H)	240 V	dB(A)	45	46	48	51
Dimensions (H×W	/×D)	mm	360×1168×869		360×1478×899	
Machine weight kg		kg	50	60	65	66
D	Liquid (Flare)		·	$\phi$ !	9.5	
Piping connections	ias (Flare)	mm		<i>φ</i> 1	5.9	
	rain			VP25 (External Dia.	32/Internal Dia. 25)	

- Note: Specifications are based on the following conditions;

  •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
  - Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
     Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
     Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
     During actual operation, these values are normally somewhat higher as a result of ambient conditions.

<sup>\*1:</sup> External static pressure is changeable to change over the connectors inside electrical box (High static pressure-Standard static pressure). The data above is for high static pressure setting.

## Middle-High Static Pressure Duct Type

**FXMQ-PA** 

Middle and high static pressure allows for flexible duct design



### Design flexibility

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

Adjustable external static pressure

3() Pa\*

200 Pa

\*30 Pa – 100 Pa for FXMQ20PA-32PA \*30 Pa - 160 Pa for FXMO40PA \*50 Pa - 200 Pa for FXMQ50PA-125PA \*50 Pa - 140 Pa for EXMO140PA

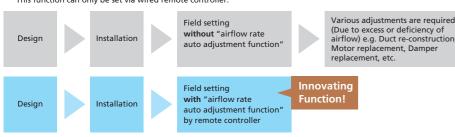


### Easy installation

### "Airflow rate auto adjustment function" at field setting

(local setting by remote controller)

\*This function is not available with FXMQ140PAVE. \*This function can only be set via wired remote controller



- 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 FXMO-PA has table of external static pressure vs. power input of DC fan.
- 4. Fan speed is automatically adjusted to produce rated airflov
- Notes: "Airflow rate auto adjustment function" can be adjusted within  $\pm 10\%$  of rated airflow. (Refer to Engineering Data Book for details)
- 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**

N	ИODEL		FXMQ20PAVE	FXMQ25PAVE	FXMQ32PAVE	FXMQ40PAVE	FXMQ50PAVE		
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz						
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100		
Cooling Capacity		kW	2.2 2.8		3.6	4.5	5.6		
Heating capacity Bt		Btu/h	8,500 10,900		13,600	17,100	21,500		
Heating Capacity kV		kW	2.5	3.2	4.0	5.0	6.3		
Power consumption Cooling kW			0.056	j *1	0.060 *1	0.151 *1	0.128 *1		
Power consumption Heating kW			0.044	0.044 *1 0.048 *1			0.116 *1		
Casing					Galvanised steel plate				
Airflow rate (HH/H	1/1 /	l/s	150/12	5/108	158/133/116	267/216/183	300/275/250		
All llow rate (I ll I/I	V L)	m³/min	9/7.5	5/6.5	9.5/8/7	16/13/11	18/16.5/15		
External static pre-	ssure	Pa	30-100 (50) *2			30-160 (100) *2	50-200 (100) *2		
Sound level (HH/H	/L)	dB(A)	33/3	1/29	34/32/30	39/37/35	41/39/37		
Sound power (H)		dB(A)	5	1	52	57	59		
Dimensions (H×W	×D)	mm		300x550x700		300x700x700	300x1,000x700		
Machine weight kg		kg		25	27	35			
Liquid (Flare)					<i>ϕ</i> 6.4		-		
Piping Gas (Flare)		mm			φ 12.7				
	Drain			VP25 (	External Dia. 32/Internal I	Dia. 25)			

M	DEL		FXMQ63PAVE	FXMQ80PAVE	FXMQ100PAVE	FXMQ125PAVE	FXMQ140PAVE
Power supply				1-pha	se, 220-240 V/220 V, 50/	60 Hz	
Caaling canasity		Btu/h	24,200	30,700	38,200	47,800	54,600
Cooling capacity		kW	7.1	9.0	11.2	14.0	16.0
		Btu/h	27,300	34,100	42,700	54,600	61,400
Heating capacity		kW	8.0	10.0	12.5	16.0	18.0
Cooling LAA		kW	0.138 *1	0.185 *1	0.215 *1	0.284 *1	0.405 *1
Power consumption Heating kW		T KVV	0.127 *1	0.173 *1	0.203 *1	0.272 *1	0.380 *1
Casing					Galvanised steel plate		
Airflow rate (HH/H/I	\	l/s	32.5/292/267	417/375/333	533/450/383	650/550/466	767/649/533
All llow rate (HH/H/t	)	m³/min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
External static press	ıre	Pa		50-200	50-140 (100) *2		
Sound level (HH/H/L	)	dB(A)	42/40/38	43/4	11/39	44/42/40	46/45/43
Sound power (H)		dB(A)	60	6	51	62	64
Dimensions (H×W×I	))	mm	300×1,0	)00×700		300×1,400×700	
Machine weight kg		kg	3	5	4	.5	46
	Liquid (Flare)				φ9.5		
Piping Gonnections	s (Flare)	mm			<i>ϕ</i> 15.9		
	ain			VP25	(External Dia. 32/Internal	Dia. 25)	

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m. Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
   Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation,
- these values are normally somewhat higher as a result of ambient conditions \*1: Power consumption values are based on conditions of rated external static pressure
- \*2: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32PA), thirteen (FXMQ40PA), fourteen (FXMQ50-125PA) or

These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa for FXMQ20-32PA and 100 Pa for FXMQ40-140PA

## High Static Pressure Duct Type

**FXMQ-P** 

High static pressure allows for flexible duct design.



### Design flexibility

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

Adjustable external static pressure

**50** Pa

**250** Pa

\*60 Pa - 217 Pa for FXMQ160P

\*50 Pa - 210 Pa for FXMQ180P

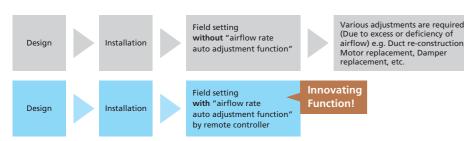
\*50 Pa - 250 Pa for FXMQ200P-250P

### Easy installation

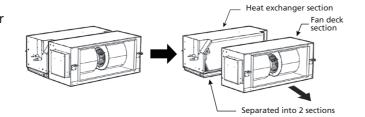
### "Airflow rate auto adjustment function" at field setting

(local setting by remote controller)

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



- 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.
- 3. Actual duct resistance is calculated according to 1 and 2.
- Notes: "Airflow rate auto adjustment function" can be adjusted within  $\pm 10\%$  of rated
  - airflow. (Refer to Engineering Data Book for details)
    "Airflow rate auto adjustment function" should be used at field setting only.
- Drain pump kit is available as optional accessory with 750 mm lift.
- Each model can be separated into 2 sections for convenient handling and easier installation through openings in the ceiling.





### Specifications

	MODEL		FXMQ160PV1A	FXMQ180PV1A	FXMQ200PV1A	FXMQ250PV1A	
Power supply				1-phase, 220	-240 V, 50 Hz		
Cooling capaci	oling capacity  Btu/r		61,400	68,200	76,400	95,500	
Cooling Capaci	ity	kW	18.0 20.0		22.4	28.0	
Hosting capaci	ating capacity Btu/h		68,200 76,400		85,300	107,500	
kW		kW	20.0	22.4	25.0	31.5	
Dower consum	ower consumption*1 Cooling kW		0.6	50	0.640	0.810	
rower consum	Heating KVV		0.6	550	0.640 0.810		
Casing				Galvanized	steel plate		
Airflow rato (U	irflow rate (HH/H/L)		1,120/955/790	1,160/995/820	1,200/1,025/850	1,400/1,200/1,000	
All llow rate (11	11 1/1 1/L)	m³/min	67.2/57.3/47.4	69.6/59.7/49.2	72.0/61.5/51.0	84.0/72.0/60.0	
External static	pressure *2	Pa	60-217 (138)	50-210 (130)	50-25	0 (150)	
Sound level (HI	H/H/L)	dB(A)	45/41	.5/38	44/40.5/37	46/42.5/39	
Sound power (	(H)	dB(A)	7	3	72	74	
Dimensions (H×W×D) mm		mm	470x1,1	33x919	470x1,	333x919	
Machine weight kg		kg	7	0	79	85	
Dining	Liquid		<b>φ</b> 9.5 (Flare)		φ 9.5 (Brazing)		
Piping connections	Gas	mm	<b>φ</b> 15.9 (Flare)	<b>\$\phi\$</b> 19.1	(Brazing)	φ 22.2 (Brazing)	
COLLIECTIONS	Drain			BSP 3/4 internal t	hread (OD <b>∮</b> 32.7)		

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
   Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
- During actual operation, these values are normally somewhat higher as a result of ambient condition:

  \*1: Power consumption values are based on conditions of rated external static pressure.
- \*2: These values indicate the lowest and highest possible static pressures. The rated static pressure is 138 Pa for FXMQ160P,

130 Pa for FXMQ180P and 150 Pa for FXMQ200-250P.

## 4-way Flow Ceiling Suspended Type

### **FXUQ-A**

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

### Slim and stylish design

- Unit body and suction panel have round shapes that form a slim design, that fits various locations such as the ceilings without cavity.
- Flaps close automatically when the unit stops, which gives a simple appearance.
- All models have a unified slim height of 198 mm that gives a similar impression even when models with different capacities are installed in the same area.

### Comfort

- Airflow direction adjustment can be individually adjusted for each air discharge outlet to deliver optimal air distribution. 5 directions of airflow and auto-swing can be selected with BRC1E63 or BRC1H63W(K).
- Control of the airflow rate can be selected from 3-step control. Auto airflow rate control can be selected with wired remote controller.

### Flexible installation

- Drain pump is equipped as a standard accessory with 600 mm lift.
- Depending on installation site requirements or room conditions, 2-way, 3-way and 4-way discharge patterns are available.



### Cleanliness

### Silver ion anti-bacterial drain pan

- Prevents the growth of slime, bacteria, and mould that cause odours and clogging.
- \* Drain pan should be changed once every two to three years.

Filter has anti-mould and antibacterial treatment





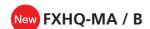


#### **Specifications**

	MODEL			FXUQ71AVEB	FXUQ100AVEB	
Power supply				1-phase, 220-240 V/2	220-230 V, 50/60 Hz	
Cooling capacity -		Btu/h	27,300	38,200		
			kW	8.0	11.2	
Btu/h		Btu/h	30,700	42,700		
Heating capacity kW			kW	9.0	12.5	
Douge consumntia		Cooling	kW	0.090	0.200	
Power consumption	on	Heating	KVV	0.073	0.179	
Casing				Fresh	white	
Airflow rate (H/M/	1\		l/s	375/325/267	517/433/350	
Alfilow fale (H/IVI/	L)		m³/min	22.5/19.5/16	31/26/21	
Sound level (H/M/	L)		dB(A)	40/38/36	47/44/40	
Sound power (H/N	Λ/L)		dB(A)	58/56/54	65/62/58	
Dimensions (H×W	×D)		mm	198×95	0×950	
Machine weight kg		kg	26	27		
Liquid (Flare)			φ9	.5		
Piping connections	Gas (Flar	e)	mm	φ1!	5.9	
connections	Drain			VP20 (External Dia. 26/Internal Dia. 20)		

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions

## Ceiling Suspended Type



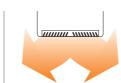
Slim body with quiet and wide airflow



### Comfort

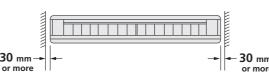
- Auto swing (up and down) and louvers (left and right by hand) bring comfort to the room.
- Louver manually adjusts for straight or wide angle airflow.



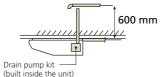


### Installation flexibility

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

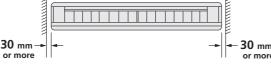


\*Water used in the test-run can be drained from the air discharge

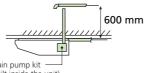


### New 125 / 140 models provide greater capacity for large spaces

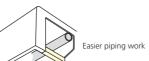
- The technology of the DC fan motor, wide sirocco fan, and large heat exchanger combine for greater airflow and quiet operation.
- Sophisticated design: Flap neatly closes when not in use.
- Control of the airflow rate can be selected from 3-step control.
- The rear side removable frame allows ease of access for piping work.



opening rather than from the side as was formerly the case.



- Suitable for high ceilings: maximum 4.3 m
- 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.



### Cleanliness



### New Streamer filter clean unit (Option) for new 125 / 140 models See page 5-6

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

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



BAPW55A61





#### **Specifications**

	MODEL		FXHQ32MAVE	FXHQ50MAVE	FXHQ63MAVE	FXHQ80MAVE	FXHQ100MAVE	FXHQ125BVM	FXHQ140BVM	
Power supply				1-phase, 2	220-240 V/220 V	, 50/60 Hz		1-phase, 220-240 V/	220-230 V, 50/60 Hz	
		Btu/h	12,300	19,100	24,200	30,700	38,200	48,000	52,900	
Cooling capacit	capacity kW		3.6	5.6	7.1	9.0	11.2	14.1	15.5	
		Btu/h	13,600	21,500	27,300	34,100	42,700	54,600	58,000	
Heating capacit	у	kW	4.0	6.3	8.0	10.0	12.5	16.0	17.0	
Power Cooling			0.111	0.100	0.115	0.126	0.135	0.168	0.181	
consumption	Heating	kW	0.111	0.100	0.115	0.126	0.135	0.168	0.181	
Casing				Sheet Metal /	White (10Y9/0.5)		Sheet Metal / Wl	nite		
A:-fl4- /11/	N 4 (1 )	l/s	200/-/166	250/-/200	291/-/233	392/-/283	416/-/325	567/433/333	600/450/333	
Airflow rate (H/	M/L)	m³/min	12/-/10	15/-/12	17.5/-/14	23.5/-/17	25/-/19.5	34/26/20	36/27/20	
Sound level (H/I	M/L)	dB(A)	36/-/31	37/-/32	39/-/34	43/-/35	45/-/37	46/41/37	48/42/37	
Dimensions (H	× W × D)	mm	195×960×680	195×1,1	60×680	195×1,400×680		235×1,5		
Machine weight kg			24	2	8	3	3	41		
	Liquid (Flare)		<i>\$</i> 6	.4			φ9.5			
Piping connections	Gas (Flange)	mm	<i>\$</i> 12	2.7			<i>ϕ</i> 15.9			
Drain				VP20 (External Dia. 26/Internal Dia. 20)						

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
   Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
  - During actual operation, these values are normally somewhat higher as a result of ambient conditions

## Wall Mounted Type

### **FXAQ-A**

Stylish flat panel design harmonised with your interior décor



### Comfort

### **Higher airflow**





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

### Lower sound level

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

### Stylish design and cleanliness

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

### Flexible installation

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



### External EV kit (for heating operation) (Option)

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

RFV15/30D

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

#### **Specifications**

	MODEL		FXAQ20AVM	FXAQ25AVM	FXAQ32AVM	FXAQ40AVM	FXAQ50AVM	FXAQ63AVM		
Power supply				1	-phase, 220-240 V/	220-230 V, 50/60 H	Z			
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100	24,200		
Cooling Capacity	.ooiing capacity		2.2	2.8	3.6	4.5	5.6	7.1		
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300		
neating capacity	Heating capacity kW		2.5	3.2	4.0	5.0	6.3	8.0		
Power	Cooling	kW	0.040	0.040	0.040	0.050	0.060	0.100		
consumption	Heating	KVV	0.040	0.040	0.050	0.050	0.070	0.110		
Casing			Resin / White N9.5							
Airflow rate (H/L)		l/s	151/116	156/116	163/116	203/161	250/200	316/233		
All IIOW Tate (H/L)		m³/min	9.1/7.0	9.4/7.0	9.8/7.0	12.2/9.7	15.0/12.0	19.0/14.0		
Sound level	Cooling	dB(A)	33.0/28.5	35.0/28.5	37.5/28.5	37.0/33.5	41.0/35.5	46.5/38.5		
(H/L)	Heating	UD(A)	34.0/28.5	36.0/28.5	38.5/28.5	38.0/33.5	42.0/35.5	47.0/38.5		
Dimensions (H × V	V × D)	mm		290×795×266			290×1,050×269			
Machine weight kg		kg		12			15			
	Liquid (Flare)				<b>φ</b> 6.4			<b>φ</b> 9.5		
Piping connections					<b>φ</b> 12.7			<b>\$</b> 15.9		
	Drain				VP13 (External Dia.	18/Internal Dia. 15)		·		

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
   Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.

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

## Floor Standing Type

### **FXLQ-MA**

Suitable for perimeter zone air conditioning



- Floor Standing types can be hung on the wall for easier cleaning. Running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.
- The adoption of a fibre-less discharge grille featuring an original design to prevent condensation also helps prevent staining and makes cleaning easier.
- A long-life filter (maintenance free up to one year\*) is equipped as standard accessory. \*8 hr/day, 25 day/month. For dust concentration of 0.15 mg/m³

#### **Specifications**

157

r	MODEL		FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE		
Power supply			1-phase, 220-240 V/220 V, 50/60 Hz							
Cooling capacity  Btu/h kW		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		
Btu/h		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300		
Heating capacity kW		2.5	3.2	4.0	5.0	6.3	8.0			
Power	Power Cooling kW			)49	0.0	)90	0.110			
consumption	Heating	l KVV	0.0	)49	0.0	0.090				
Casing		-			Ivory white	e (5Y7.5/1)				
Airflow rate (H/L)		l/s	116/100		133/100	183/141	233/183	266/200		
All now rate (17/L)		m³/min	7.	/6	8/6	11/8.5	14/11	16/12		
Sound level (H/L)	240 V	dB(A)		37/34		40/35	41/36	42/37		
Dimensions (H × V	V × D)	mm	600×1,0	000×222	600×1,1	40×222	600×1,4	120×222		
Machine weight kg		kg	2	5	3	0	3	6		
Liquid (Flare)					<i>ϕ</i> 6.4			φ 9.5		
Piping connections	Piping Gas (Flare)				φ 12.7			φ 15.9		
	Drain				210	O.D.				

Notes: Specifications are based on the following conditions:

- Specifications are based on the following Containtions,
   Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m.
   During actual operation, these values are normally somewhat higher as a result of ambient conditions.

## Concealed Floor Standing Type

### **FXNQ-MA**

Designed to be concealed in the perimeter skirting-wall



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

### **Specifications**

1	MODEL		FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE	
Power supply					1-phase, 220-240	V/220 V, 50/60 Hz			
Cooling capacity	Cooling capacity  Btu/h  kW		7,500 9,600		12,300	15,400	19,100	24,200	
Cooling Capacity			2.2	2.8	3.6	4.5	5.6	7.1	
Heating capacity Btu/h		Btu/h	8,500	10,900	13,600	17,100	21,500	27,300	
Heating capacity kW			2.5	3.2	4.0	5.0	6.3	8.0	
Power	Cooling	kW	0.0	)49	0.0	)90	0.1	110	
consumption	Heating	KVV	0.0	)49	0.0	)90	0.1	0.110	
Casing					Galvanised	steel plate			
Airflow rate (H/L)		l/s	116	/100	133/100	183/141	233/183	266/200	
Airilow fate (H/L)		m³/min	7.	/6	8/6	11/8.5	14/11	16/12	
Sound level (H/L)	240 V	dB(A)		37/34		40/35	41/36	42/37	
Dimensions (H × V	V × D)	mm	610×9	30×220	610×1,0	)70×220	610×1,3	350×220	
Machine weight		kg	19	0.0	23	3.0	27.0		
	Liquid (Flare)			φ 6.4					
Piping connections	Gas (Flare)	mm		φ 12.7					
connections	Drain			210.D.					

Notes: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Height difference: 0 m.
   Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m.
   During actual operation, these values are normally somewhat higher as a result of ambient conditions.

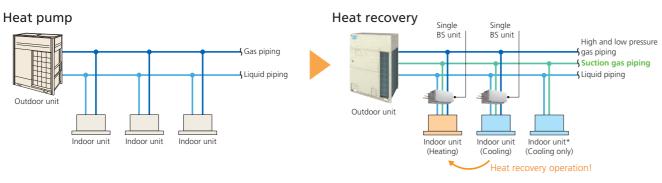
## **BS** Units

### **BS** Units for Heat Recovery

### ■ BS unit (Single type/Multi type)

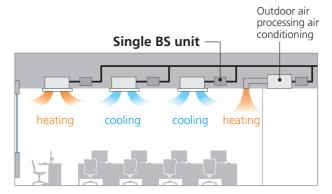
By adding suction gas piping and a BS unit (sold separately), simultaneous cooling and heating operation can be provided by a single system.





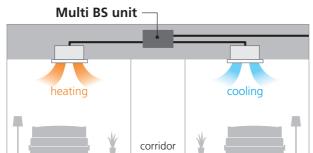
<sup>\*</sup> For indoor units used for cooling only (do not connect to BS unit when using for heat recovery), total capacity index must be 50% or less than the capacity index of the outdoor units.

### Application reference



### Winter season (Office Building)

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



### Winter season (Hotel)

• Able to cater to individual heating and cooling

### **BS Unit Lineup**

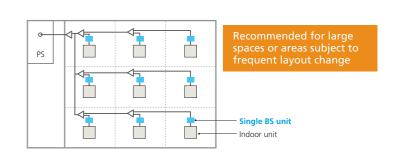
■ Single and multi BS unit allow greater design flexibility

### Single BS unit



**Drainless Type** BSQ100AVE BSQ160AVE BSQ250AVE

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



### Specifications —— Single BS Unit

	MOD	DEL						
				BSQ100AVE	100AVE BSQ160AVE BSQ250A			
Power supply					1-phase, 220-240/220 V, 50/60 Hz			
No. of branches				1				
Total capacity index of	connectable indo	oor units		20 to 100	More than 100 but 160 or less			
No. of connecta	ble indoor u	nits		Max. 5	Max. 8	Max. 8		
Casing				Galvanised steel plate				
Dimensions (Hx)	N×D)		mm	207×388×326				
	Indoor	Liquid	mm	<b>φ</b> 9.5 (Brazing) ★1	φ9.5 (Brazing)	<b>∮</b> 9.5 (Brazing)		
Dining and the second	Unit	Gas	111111	φ15.9 (Brazing) ★1	φ15.9 (Brazing) *2	φ22.2 (Brazing) ★ <sup>3</sup>		
Piping connections	0	Liquid		φ9.5 (Brazing)	φ9.5 (Brazing)	<b>∮</b> 9.5 (Brazing)		
	Outdoor	Suction gas	mm	φ15.9 (Brazing)	φ15.9 (Brazing) *2	<b>φ</b> 22.2 (Brazing) ★ <sup>3</sup>		
	Offic	High and low pressure gas		φ12.7 (Brazing)	φ12.7 (Brazing) φ12.7 (Brazing) *2 φ19.1 (Brazing)			
Machine weight			kg	11	11	14		
Sound level			dB(A)	35(40) * <sup>4</sup>	41(45) *4	41(45) *4		

Note: 🛨 1. When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe.

(Braze the connection between the attached and field pipe.)

★ 2. When connecting with indoor units with total capacity indexes 150 or more and 160 or less, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)

3. When connecting with indoor units with a capacity index of 200, or with total capacity indexes more than 160 and less than

200, connect the attached pipe to the field pipe. (Braze the connection between the attached and field pipe.)

4. Figures in brackets () indicate maximum value of transient sound (the change of cooling and heating).

• Do not install at the place such as bed room. Small sound of refrigerant will be made, which may be disturbing

### **BS** Units

#### **Multi BS unit**



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

Standard Type BS16Q14AVM (16-branch)

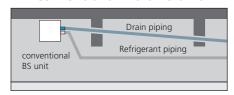
- No need for drain piping (Drainless type only)
- Easy installation
- Less risk of water leakage
- **■** Wide range lineup
- Max. 16 branches with a single unit up to 30 class
- Individual control and cooling/heating changeover for each branch
- Installation cost reduction by reduction of brazing points.

### Drainless function enables a drastic reduction of on-site work

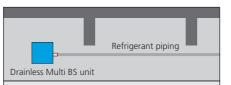
Drain is eliminated with the use of foam insulation inside the casing.



#### Conventional Multi BS unit

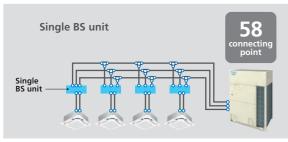


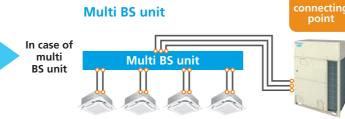
#### New Drainless Multi BS unit



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





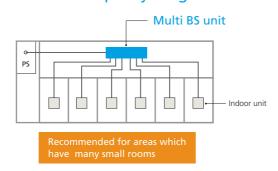


\* 16-branch model requires drain pipe

### Greater design flexibility achieved by increasing the connection capacity range







#### - Multi BS Unit Specifications -

	MODI	EL								
				BS4Q14BVM	BS6Q14BVM	BS8Q14BVM	BS10Q14BVM	BS12Q14BVM	BS16Q14AVM	
Power supply					1-p	hase, 220-240 V /	220-230 V,50 / 60	) Hz		
No. of branche	S			4	6	8	10	12	16	
Capacity index of conn	ectable indoor units	of branch				Max	. 140			
Capacity index of	connectable indo	oor units		Max. 400	Max. 600		Max.	. 750		
No. of connectable	indoor units pe	r branch		5						
Casing				Galvanised steel plate						
Dimensions (H	×W×D)		mm	298×370×480 298×580×480 298×820×480				298×1060×430		
	Indoor Liquid	mm	φ6.4, φ9.5 Brazing *1							
	Unit	Gas	] ''''''	1-phase, 220-240 V / 220-230 V,50 / 60 Hz  4 6 8 10 12  Max. 140  Max. 400 Max. 600 Max. 750  5  Galvanised steel plate  298×370×480 298×580×480 298×820×480  \$\frac{\phi}{6.4, \phi 9.5 \text{ Brazing *1}}\$ \text{ \$\phi 12.7 \text{ Brazing *1}}\$  \$\phi 12.7, \phi 15.9 \text{ Brazing *1}\$  \$\phi 12.7 \text{ Brazing *2}\$ \$\phi 12.7 \text{ Brazing *1}\$  \$\phi 22.2 \text{ Brazing } \phi 28.6 \text{ Brazing *2}\$ \$\phi 28.6 \text{ Brazing *2}\$  \$\phi 28.6 \text{ Brazing *2}\$ \$\phi 28.6 \text{ Brazing *2}\$  \$\phi 28.6 \text{ Brazing *2}\$ \$\phi 28.6 \text{ Brazing *2}\$ \$\phi 28.6 \text{ Brazing *2}\$						
Piping		Liquid		<b>φ</b> 9.5 Brazing ★2	<b><i>ϕ</i></b> 12.7 Brazing ★2	φ 12.7 Brazing (φ 15.9) *2	<i>ϕ</i> 15.9 Brazing * <sup>2</sup>	φ15.9 Brazing (φ19.1)* <sup>2</sup>	<b><i>ϕ</i></b> 19.1 Brazing <sup>★2</sup>	
connections	Outdoor Unit	Suction gas	mm	φ22.2 Brazing (φ19.1)*2	φ28.6 Bi	razing *2	<b>ø</b> 28.6 Braziı	12  750  20×480  \$\psi 15.9 \text{ Brazing} (\phi 19.1)*2} \text{ng}(\phi 34.9)*2  \$\psi 28.6 \text{ Brazing}*  48	<b>φ</b> 34.9 Brazing ★2	
		High and low pressure gas				φ19.1 Brazing (φ22.2,28.6)*2		<i>ϕ</i> 28.6 Brazing *²	!	
Machine weigh	nt		kg	22	31	33	46	48	50	
Sound level			dB(A)	38(45)*3	39(47)	k3	40(4	!8) <sup>★3</sup>	41(49)*3	
Drain pipe size			mm			Not necessary			VP20 (External Dia. 26/Internal Dia.20)	

- Note: 

  1. When connecting with an indoor unit with a capacity index between 20 and 50, connect the attached pipe to the field pipe.

  (Braze connection between the attached and field pipe.) In case of others, cut the outlet pipe and connect to the connecting pipe.

  2. Reducer may be required (obtain locally) if joint diameter does not fit on the triple piping side. Figures in brackets () is the
  - size when using the attached reducer. Insulators are necessary (obtain locally) for piping connections on the outdoor unit side.

    3. Figures in brackets () indicate maximum value of transient sound (the change of cooling and heating).
  - Must be installed in locations where the noise generated by the BS unit does not cause any problem

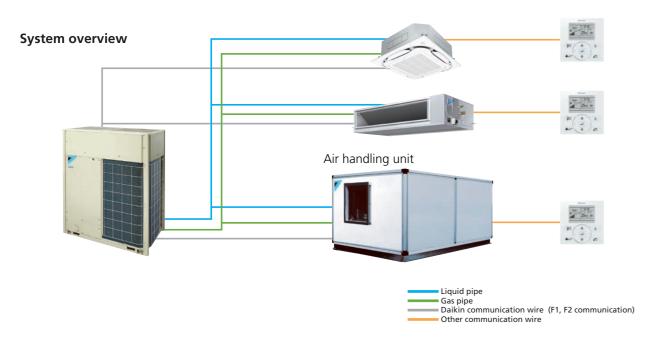
## Air Handling Unit

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

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

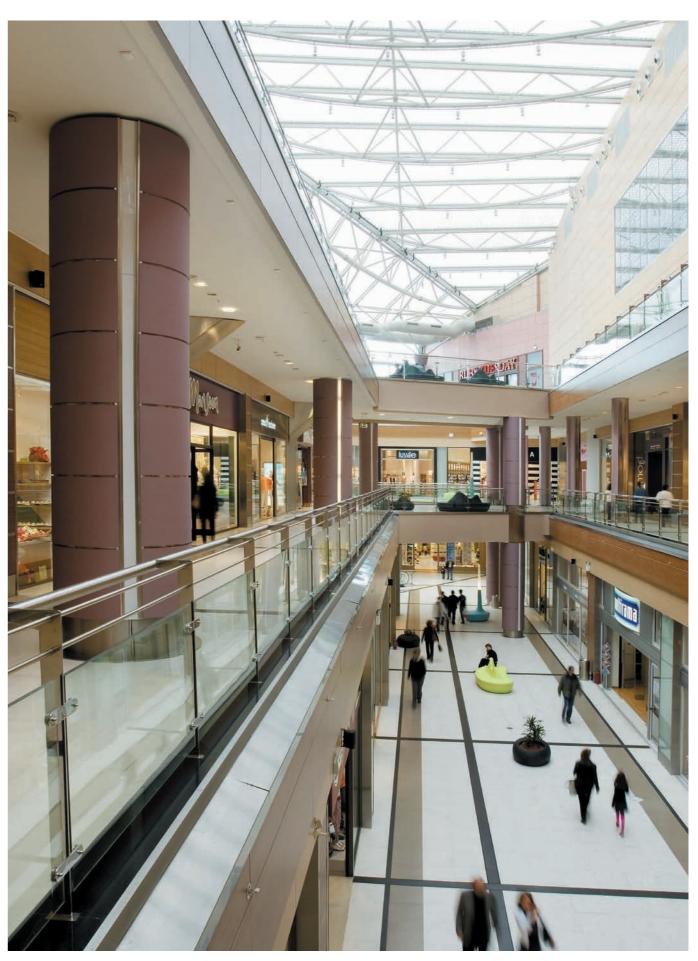


AHUR Capacity range : 6 – 60 class



Daikin air handling units can be connected to VRV systems.

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



### Daikin's air treatment systems creating a higher IAQ

Air Conditioning +

Ventilation Filtration

Air Processing

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

### Our Solutions for Indoor Air Quality Problems

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









## Ventilation equipment can be selected according to suit purpose and circumstances

		Outdoor Air P	rocessing Unit	Heat Reclaim Ventilator
		FXMQ-MF series	FXMQ-AF series	VAM-H series
		Ventilation Filtration *1  Air Processing *2	Ventilation Filtration *1  Air Processing *2	Ventilation *1  Air Processing *2
	Refrigerent Diving	Connectable	Connectable	Not connectable
Connections	Refrigerant Piping			
with <b>VRV</b> systems	Wiring	Connectable	Connectable	Connectable
with the systems	After-cool & After-heat Control	Available	Available	Not available
		Class 2	Class 2	Class 1
Ventilation class		Air supply only	Air supply only	Air supply & air exhaust
Heat Exchange Element		_	_	Energy savings obtained
High Efficiency Filter (Op	ption)	Available	_	Available
PM2.5 Filter (Option)		_	_	Available
MERV8/14 Filter (Option	1)	_	Available	_
Airflow Rate		1,080 - 2,100 m³/h	690 - 2,160 m³/h	150 - 2,000 m³/h

- \*1. Optional filter is necessary. Refer to option list for details.
- \*2. Refers to bringing outdoor air to near indoor temperature and delivering to a room.

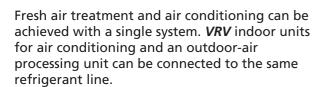
### Ventilation class

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

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

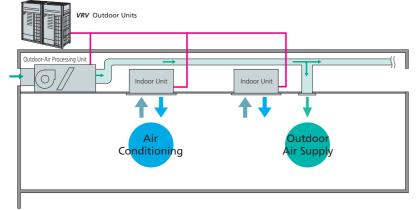
### **FXMQ-MF Series**

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



#### Lineup

Model Name	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1	
Capacity index	125	200	250	
Airflow rate	1,080 m³/h	1,680 m³/h	2,100 m³/h	

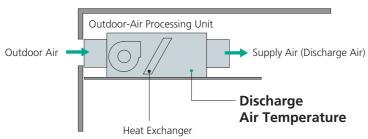


#### **Connection Conditions**

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

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

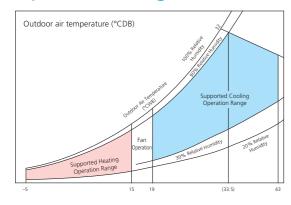
The unit supplies outdoor fresh air controlling discharge air temperature from the unit.



- \* The default setting of the discharge air temperature is 18°C for
- cooling operation, and 25°C for heating operation.

  \* While in unit protection mode and depending on outdoor air conditions, discharge air temperature may not be at the set temperature.
- \* The fan stops in defrosting, oil returning and hot start operations due to mechanical protection control.

### Operation range



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

Notes: 1. The operation range shown in the graph is under the following conditions. Equivalent piping length: 7.5 m, Height difference: 0 m.

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

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

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

### Specifications

	Туре				Ceiling Mounted Duct Type	
	MODEL			FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Power suppl	у				1-phase 220-240 V, 50 Hz	
Caalina san	acity #1		Btu/h	47,800	76,400	95,500
Cooling capa	acity ^1		kW	14.0	22.4	28.0
Heating capa	acity *1		Btu/h	30,400	47,400	59,400
neating cape	acity		kW	8.9	13.9	17.4
Power consu	ımption		kW	0.359	0.548	0.638
Casing					Galvanised steel plate	
Dimensions	$(H \times W \times D)$		mm	470 × 744 × 1,100	470 × 1,38	0 × 1,100
	Motor output		kW		0.380	95,500 28.0 59,400 17.4
Fan	Airflow rate		l/s	300	466	583
	Allilow rate		m³/min	18	28	35
	External static pressure	220 V/240 V	Pa	185/225	225/275	205/255
Air filter					*2	
D-f-:	Liquid				∮9.5 (Flare)	
Refrigerant piping	Gas		mm	∮15.9 (Flare)	₱ 19.1 (Brazing)	
	Drain				PS1B female thread	
Machine we	ight		kg	86	12	3
Sound level	*3	220 V/240 V	dB(A)	42/43	47/4	48
Connectable	outdoor units *4			6 class and above	8 class and above	10 class and above
Operation ra	inge		Cooling		19 to 43°C	
(Fan mode o	peration between 15 and	19°C)	Heating		-5 to 15°C	
(Fan mode operation between 15 and 19°C)			Cooling		13 to 25°C	
kange of the	e discharge temperature *5		Heating		18 to 30°C	

\*1. Specifications are based on the following conditions

Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
 Heating: Outdoor temp. 0°CDB, -2.9°CWB (50% RH), and discharge temp. of 25°CDB.

Equivalent reference piping length: 7.5 m (0 m horizontal)

\*2. An intake filter is not supplied, so be sure to install the optional long-life filter or high-efficiency filter.

\*3. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

These values are normally somewhat higher during actual operation as a result of ambient conditions.

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

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

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

### Options

	MOI	DEL	FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1			
2	Operation remote controller		BF	C1H63W(K) / BRC1E63 / BRC2E	61			
Operation/contr	Central remote controller			DCS302CA61				
jon/	Unified ON/OFF controller			DCS301BA61				
erat	Schedule timer		DST301BA61					
g	Wiring adaptor for electrical app	pendices (2)	KRP4AA51					
	Long-life replacement filter		KAF371N140	KAF37	1N280			
Filters	High-efficiency filter	Colourimetric method 65%	KAF372M140	KAF372M280				
畫	nigh-efficiency filter	Colourimetric method 90%	KAF373M140	KAF37	3M280			
	Filter chamber *		KDJ3705L140 KDJ3705L280					
Dr	ain pump kit			KDU30L250VE				
Ad	aptor for wiring			KRP1B61				

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

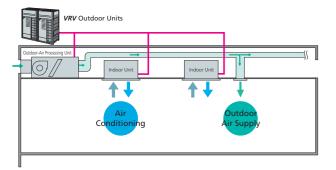
- Dimensions and weight of the equipment may vary depending on the options used.
  Some options may not be usable due to the equipment installation conditions, so please confirm prior to ordering.
- Some options may not be used in combination
- Operating sound may increase somewhat depending on the options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

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



Improve IAQ with fresh air ventilation and precise room temperature control

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





#### Lineup

Model Name	FXMQ80AFVM	FXMQ140AFVM	FXMQ200AFVM	FXMQ250AFVM
Capacity index	80	140	200	250
Airflow rate	690 m³/h	1,230 m³/h	1,740 m³/h	2,160 m³/h

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

Total capacity index of the indoor units Capacity index of the outdoor units

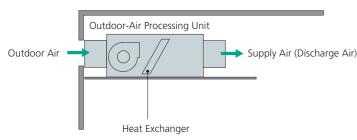
### Larger connection ratio

Maximum connection ratio increased from 100% to 130%. When outdoor-air processing units and standard VRV indoor units are combined,

the total connection capacity index of the outdoor-air processing units must not exceed 40% of the capacity index of the outdoor units.

### Outdoor-air processing / Room temperature control

The unit improves IAQ with fresh air ventilation and precise room temperature control.



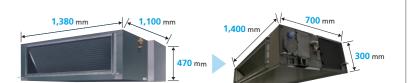


Set point temperature can be selected similar to standard VRV indoor unit. Maintains comfortability and precise temperature control in large areas with the remote sensor option BRCS01A-6.

- \* This unit cannot be used to handle internal heat loads.
- \* The discharge air temperature changes depending on the air conditioning load, outside air temperature, When the protection function is activated, unprocessed outside air maybe sent directly
- \* The fan stops in defrosting, oil returning and hot start operations due to mechanical protection control.

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





### Lower power consumption

3-step airflow control

Slim & compact design

design flexibility.

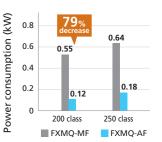
The change from AC motor to DC motor resulted in lower power consumption and more energy efficiency.

The new FXMQ200AF requires 79% less power consumption making it the perfect choice for small commercial applications.

## Refrigerant

**T**emperature

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



#### VRT control

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

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

### New small capacity model

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

### Adjustable external static pressure

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

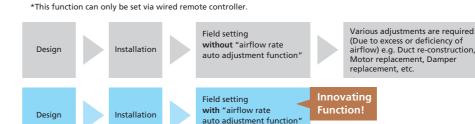
Adjustable external static pressure

50 Pa

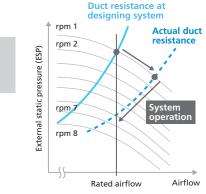
200 Pa

### "Airflow rate auto adjustment function" at field setting

(local setting by remote controller)



- 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 FXMO-AF has table of external static pressure vs. power input of DC fan.
- 4. Fan speed is automatically adjusted to produce rated airflow



- Notes: "Airflow rate auto adjustment function" can be adjusted within ±10% of rated airflow
  - "Airflow rate auto adjustment function" should be used at field setting only

172

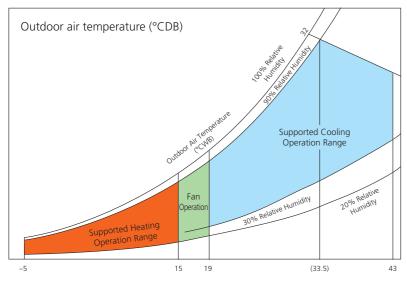
## Air Treatment Equipment

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

### Extended operation range

The outdoor operation temperature range extended from 19 to 15°CDB during cooling operation and from 15 to 19°CDB during heating operation\*.

This enables reliable operation even under wider temperature conditions.



Extended operation range: Cooling: 15°CDB to 43°CDB Heating: -5°CDB to 19°CDB

- \* Thermo-off (fan) operation starts automatically when cooling 19°CDB or less / heating15°CDB or more.
- In case of cooling mode, operation range can be extended to 15°CDB by field setting. In case of heating mode, operation range can be extended to 19°CDB by field setting

### High efficiency filter (MERV8/MERV14) (Option)

The filter options of MERV8 and MERV14 are available. The high efficiency filter can help remove infectious aerosol in the air.





**MERV8** filter

MERV14 filter

### Specifications

Power supply	FXMQ140AFVM	FXMQ200AFVM	FXMQ250AFVM				
Power supply				1 phase, 220-23	0-240 V, 50/60 Hz		
Cooling capacity *1  Heating capacity *1  Power consumption Cooling Heating  Casing  Dimensions (H×W×D)		Btu/h	30,700	54,600	76,400	95,500	
Cooling capacity		kW	9.0	16.0	22.4	28.0	
Heating appeals, *1		Btu/h	27,600	47,800	68,200	85,300	
Heating Capacity		kW	8.1	14.0	20.0	25.0	
Power consumption	Cooling	Is\A/	0.080	1 phase, 220-230-240 V, 50/60 Hz  30,700 54,600 76,400  9.0 16.0 22.4  27,600 47,800 68,200  8.1 14.0 20.0  0.080 0.100 0.115  0.095 0.125 0.155  Galvanised steel plate  00×700×700 300×1,000×700 300×1,400×700  0.140 0.350  192/143/97 342/257/172 483/363/242  11.5/8.6/5.8 20.5/15.4/10.3 29.0/21.8/14.5  Rated 100 (200-50)  *2  \$\psi 9.5 (Flare)\$  \$\psi 15.9 (Flare)\$  \$\psi 15.9 (Flare)\$  \$\psi 15.9 (External dia. 32, Internal dia. 25)  29 37 47	0.180		
rower consumption	Heating	KVV	0.095	0.125	0.155	0.225	
Casing				Galvanised	d steel plate	95,500 28.0 85,300 25.0 0.180 0.225	
Dimensions (H×W×D)		mm	300×700×700	300×1,000×700 300×1,400×700			
	Motor output	kW	0.140		0.350		
Ean	Airfless rate (11/A4/I)	l/s	192/143/97	342/257/172	483/363/242	600/450/300	
rdII	AITHOW Fale (H/IVI/L)	m³/min	11.5/8.6/5.8	20.5/15.4/10.3	29.0/21.8/14.5	36.0/27.0/18.0	
	External static pressure	Pa		Rated 10	0 (200-50)		
Air filter				i	*2		
	Liquid			φ9.5	(Flare)		
Refrigerant piping	Gas	mm	<b>∮</b> 15.9	(Flare)	20.0  0.115  0.155  nised steel plate  300×1,400×700  0.350  483/363/242  29.0/21.8/14.5  d 100 (200-50)  *2  9.5 (Flare)  \$\psi 19.1 (Brazing)\$  dia. 32, Internal dia. 25)  47  42/35/26  15 to 43	<b>≠</b> 22.2 (Brazing)	
	Drain			VP25 (External dia.	32, Internal dia. 25)		
Machine weight		kg	29	37	47	28.0 85,300 25.0 0.180 0.225 1,400×700 600/450/300 36.0/27.0/18.0	
Sound level (H/M/L) *3		dB(A)	37.5/30/23	41/34/25	42/35/26	8/14.5 36.0/27.0/18.0  brazing) \$\phi 22.2 (Brazing)  25)  7 48	
Onesetion *4	Cooling	totor output kW  l/s  irflow rate (H/M/L)  ternal static pressure  quid  as mm  rain  kg  dB(A)  oooling  °CDB		15 1	to 43		
Operation range	Heating	CDB		-5 t	o 19		

- \*1. The capacity is the maximum value under the following conditions:
- Cooling: Indoor temp. of 33°CDB, 28°CWB, Outdoor temp. of 33°CDB.

  Heating: Indoor temp. 0°CDB, -2.9°CWB, Outdoor temp. 0°CDB, -2.9°CWB.

  Equivalent reference piping length: 7.5 m (0 m horizontal)
- The rated external static pressure and air volume are set in (). \*2. An intake filter is not supplied, so be sure to install the optional filter.
- \*3. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

  These values are normally somewhat higher during actual operation as a result of ambient conditions.
- \*4. The operation range can be extended to 15°C in cooling operation and 19°C in heating operation by field setting.

  When fresh air intake mode is enabled during cooling operation, operation range cannot be extended. (limit at 19 to 43°C)

### Options

	Model	FXMQ80AFVM	FXMQ140AFVM	FXMQ200AFVM	FXMQ250AFVM				
	Wired remote controller		BRC1H63W(K) / BF	RC1E63 / BRC2E61					
irrol	Wireless remote controller		BRC4C65						
Vcor	Remote sensor (for indoor temperature)		BRCSO	01A-6					
atio	Central remote controller		DCS30	2CA61					
Operation/control	Unified ON/OFF controller		DCS30	1BA61					
Ŭ	Schedule timer		DST30	1BA61					
	MERV8 filter	BAF376B56	BAF376B80	BAF37	'6B160				
ers	MERV14 filter	BAF377B56	BAF377B80	BAF37	77B160				
Filters	Filter chamber for MERV8/14 filter	KDDF37AB56	KDDF37AB80	KDDF3	7AB160				
	Long life replacement filter	KAF371B56	KAF371B80	KAF37	71B160				
Se	ervice panel	KTBJ25K56F	KTBJ25K80F	KTBJ2	5K160F				
Α	ir discharge adaptor	KDAJ25K56A	KDAJ25K71A	KDAJ2	5K140A				
Α	daptor for wiring (operation status output)		★ BRP	11B62					
V	/iring adaptor for electrical appendices (1)		★ KRF	2A61					
W	/iring adaptor for electrical appendices (2)		★ KRP4	4AA51					
In	stallation box for adaptor PCB 🌣 *1		★ KRP4	A96 * <sup>2,3</sup>					
E	xternal control adaptor for outdoor unit		★ DTA1	04A61					
Α	daptor for multi tenant (24V type)		★ DTA1	114A61					
N	Iulti tenant unit for indoor (24V free type)	★ BRP114A61							
N	Iulti tenant unit Booster (24V free type)		★ BRP1	14A63	·				
D	igital input adaptor for hotel application		★ BRF	7A53					

- \*1 Installation Box & is necessary for each adaptor marked \* \*2. Up to 2 adaptors can be fixed for each installation box.
- \*3. Only one installation box can be installed for each indoor unit.

# Vir Treatment Equipn

## Air Treatment Equipment

### Heat Reclaim Ventilator

### **VAM-H Series**

Daikin VAM series ensures fresh air intake and energy savings

	Lineup	
VAM150HVE	VAM250HVE	VAM350HVE
VAM500HVE	VAM650HVE	VAM800HVE
VAM1000HVE	VAM1500HVE	VAM2000HVE

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





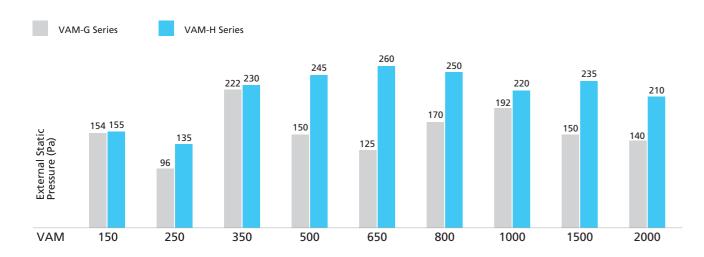
### New features

### **Design flexibility**

By significantly improving external static pressure, support for a variety of duct layouts is possible, and installation flexibility has been improved.

The 1000-2000 class model has become more compact, and ease of installation has improved.

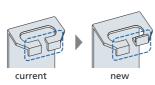
■ Comparison of external static pressure



### Improvement of installation workability

### Improved workability by changing dimensions and shape of lifting lug

The structure that prevents nut slippage eliminates the need to replace the lifting lug even when installed upside down.

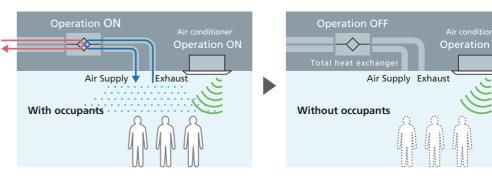


### **Energy saving**

#### Sensing sensor stop mode

In situation of no human occupancy is detected, the operation is turned off.

When the "Sensing sensor" installed on the air conditioner detects no occupancy in the room, the ventilation system and air conditioner system is turned off automatically to reduce energy wastage.

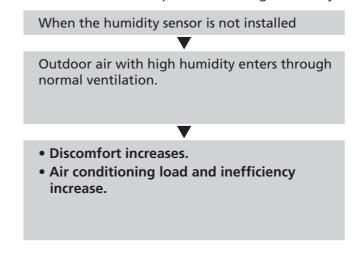


- \* During group controlling of air conditioner, no occupancy stop mode cannot be used.
- \* During 24-hours ventilation mode is turned on, the normal operation mode is changed to 24-hours
- \* Once the absence is detected and stopped, the operation will not be performed automatically again.

### **Humidity sensor (Option)**

A humidity sensor (option) can be installed for greater comfort and energy-saving ventilation.

Conditions of low temperature and high humidity... Example, a rainy day, etc.



When the humidity sensor is installed

When outdoor air with high humidity is detected, the system automatically switches to ventilation mode and prevents the humid outdoor air from entering.

- Air conditioning load is reduced.
- Comfort greatly improves.
- Energy savings are also increased.
- Moreover, ventilation amount is also controlled according to humidity conditions.

#### Stylish remote controller

#### NEW Stylish Remote Controller BRC1H63W (K) combining many VAM-dedicated functions

- Sensor results can be displayed up to 3 item on the information screen.
- Sensor results can be shared to the remote controller group.
- New icons such as 24-Hour Ventilating, Fresh Up, Nighttime Free Cooling Operation (Night Purge) have been added to the Information screen.





Note:

3 items selected by remote controller setting.

### Heat Reclaim Ventilator

### ■ Energy saving / Heat recovery functions

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

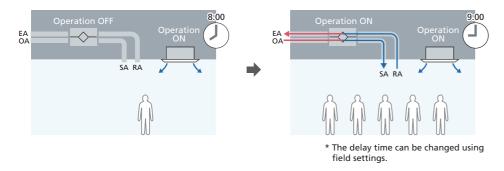
The system can be interlocked with Daikin air conditioners to provide energy saving ventilation solution for various situation.



### Pre-cool, Pre-heat control

### Intentional delay of the start-up time

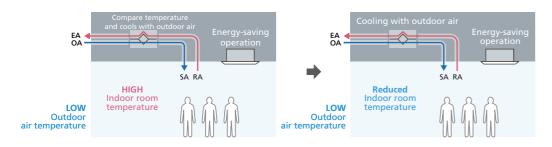
When the air conditioner is started up, the ventilation start-up is delayed to reduce load caused by the outside air. This reduces power consumption of air conditioners.



### Auto-ventilation mode changeover switching

### Automatically determine the appropriate ventilation for each situation

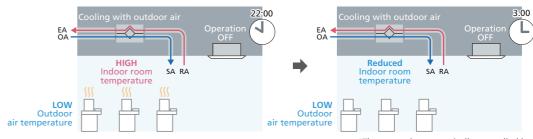
Indoor temperature and the outdoor temperature are detected, and the system automatically switches to the ventilation mode which has higher energy-saving effect.



### Nighttime free cooling operation

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

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



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

### CO2 sensor control (Option) \*Refer to pages 179 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.

### ■ Improvement of IEQ (Indoor Environmental Quality)

### PM2.5 filter (Option) \*Refer to pages 180 - 182 for details.

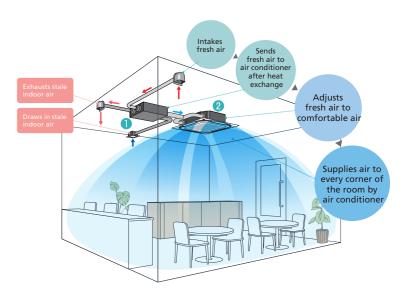
Removes PM2.5 particulate matter present in the outdoor air, as well as sulfur oxides and nitrogen oxides, providing clean fresh air to the indoor ambient.

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

### Fresh Air Comfort

Round Flow Cassette indoor units can be connected to a duct to provide fresh outdoor air for comfortable air from the air conditioner. Installation is also possible for existing indoor units.

- 1 Heat Reclaim Ventilator
- 2 Round Flow Cassette (including with sensing type)



## Air Treatment Equipment

### Heat Reclaim Ventilator

### Specifications

	Model			VAM150HVE	VAM250HVE	VAM350HVE	VAM500HVE	VAM650HVE	VAM800HVE	VAM1000HVE	VAM1500HVE	VAM2000HVE
Power Supply							Single phase	, 220-240 V/220	V, 50/60 Hz			
		Ultra-High		66.0/66.0	60.5/60.5	65.0/65.0	61.5/61.5	59.5/59.5	61.5/61.5	58.0/58.0	61.5/61.5	58.5/58.5
Tomporatura	For	High	%	66.0/66.0	60.5/60.5	65.0/65.0	61.5/61.5	59.5/59.5	61.5/61.5	58.0/58.0	61.5/61.5	58.5/58.5
Power Supply  Temperature exchange efficiency (50/60 Hz)  Enthalpy exchange efficiency (50/60 Hz)  Power Consumption (50/60 Hz)  Sound Level (50/60 Hz)  Casing Insulation Material	Cooling	Low		69.0/69.5	65.0/65.5	70.0/70.0	63.0/64.0	62.5/63.0	64.0/65.0	61.5/62.0	65.5/66.0	65.5/65.5
		Ultra-High		77.0/77.0	76.5/76.5	79.5/79.5	80.0/80.0	74.5/74.5	77.5/77.5	74.0/74.0	77.5/77.5	73.5/73.5
(50/60 Hz)	For	High	%	77.0/77.0	76.5/76.5	79.5/79.5	80.0/80.0	74.5/74.5	77.5/77.5	74.0/74.0	77.5/77.5	73.5/73.5
	Heating	Low		78.5/79.0	78.5/79.0	81.5/82.0	81.5/82.5	76.5/77.0	78.5/79.5	76.0/76.5	79.5/80.0	76.5/77.0
		Ultra-High		63.5/63.5	60.0/60.0	62.5/62.5	62.5/62.5	60.0/60.0	63.0/63.0	60.0/60.0	63.0/63.0	60.0/60.0
	For	High	%	63.5/63.5	60.0/60.0	62.5/62.5	62.5/62.5	60.0/60.0	63.0/63.0	60.0/60.0	63.0/63.0	60.0/60.0
	Cooling	Low		66.0/66.5	61.5/62.0	64.5/65.0	64.0/65.0	62.5/63.0	64.5/65.5	62.0/62.5	65.5/66.0	64.5/64.5
		Ultra-High		71.5/71.5	69.5/69.5	72.0/72.0	71.0/71.0	68.0/68.0	72.0/72.0	68.5/68.5	72.0/72.0	68.0/68.0
(50/60 Hz)	For	High	%	71.5/71.5	69.5/69.5	72.0/72.0	71.0/71.0	68.0/68.0	72.0/72.0	68.5/68.5	72.0/72.0	68.0/68.0
	Heating	Low	-	76.5/77.0	73.0/73.5	74.5/75.0	72.5/73.5	69.5/71.5	74.0/75.0	72.0/72.5	74.0/75.0	71.0/71.5
	Llast	Ultra-High		96-103/132	126-141/172	178-193/231	296-326/390	381-426/472	664-684/829	683-736/883	1,274-1,353/1,645	1,365-1,471/1,76
	Heat exchange	High	w	90-93/118	114-123/144	163-170/207	248-261/329	307-319/413	603-612/712	621-656/763	1,207-1,225/1,423	
Power	mode	Low		68-73/67	75-83/79	132-142/145	223-233/268	264-276/332	504-544/562	539-569/594	1,008-1,089/1,125	1,079-1,138/1,18
		Ultra-High		96-103/132	126-141/172	178-193/231	296-326/390	381-426/472	664-684/829	683-736/883	1,274-1,353/1,645	
Temperature exchange efficiency (50/60 Hz)  Enthalpy exchange efficiency (50/60 Hz)  Power (50/60 Hz)  Sound Level (50/60 Hz)  Casing	Bypass	H-	w	90-93/118	114-123/144	163-170/207	248-261/329	307-319/413	603-612/712	621-656/763	1,207-1,225/1,423	
	mode	Low	\ vv	68-73/67	75-83/79	132-142/145	223-233/268	264-276/332	504-544/562	539-569/594	1,008-1,089/1,125	1,079-1,138/1,18
		Ultra-High		33.0-34.0/34.0	33.0-34.0/33.5	32.0-33.0/34.5	36.0-37.0/38.5	37.5-38.0/38.0	41.5-42.5/41.0	42.0-43.0/42.5	43.0-44.0/44.0	43.5-44.0/44.
	Heat exchange mode	High	dB(A)	30.5-32.0/28.0	31.5-32.5/28.0	30.0-31.5/27.5	35.0-36.0/35.0	36.0-36.5/37.0	39.5-41.0/37.0	40.0-41.0/38.0	41.0-42.5/39.0	41.5-43.0/40.0
Sound		Low	ub(A)	23.0-25.5/20.0	23.0-25.5/21.0	26.5-28.5/22.0	32.0-34.0/31.0	34.0-35.0/32.5	36.0-38.5/33.0	38.0-39.5/34.5	38.0-40.5/35.0	39.0-41.0/36.5
		Ultra-High		33.5-34.0/36.0	33.0-34.0/34.5	32.5-33.5/34.5	36.0-37.0/38.5	39.5-40.0/42.0	41.5-42.5/41.0	42.0-43.0/42.5	43.0-44.0/44.0	43.5-44.0/44.5
(50/60 Hz)	Bypass	High	dB(A)	31.5-33.0/28.5	31.0-32.5/29.0	31.0-32.0/27.5	35.0-36.0/35.0	38.0-38.5/39.0	39.5-41.0/37.0	40.0-41.0/38.0	41.0-42.5/39.0	41.5-43.0/40.0
	mode	Low	ub(A)	23.0-25.5/20.5	23.5-25.5/21.5	27.0-29.0/23.0			36.0-38.5/33.0	38.0-39.5/34.5	38.0-40.5/35.0	39.0-41.0/36.
Casina		LOW		23.0-23.3/20.3	23.3-23.3/21.3	27.0-23.0/23.0		alvanised steel pl		30.0-33.3/34.3	36.0-40.3/33.0	39.0-41.0/30
	al											
				270 5	Self-extinguishable polyurethane foam  278 × 551 × 810							12 1110
	VV × D)		mm	2/8 × 55		306 × 800 × 879	338 × 83	32 × 973		12 × 1,110	785 × 1,0	12 × 1,110
			kg			31		43		13	1.	33
								ocessed nonflam				
Heat Exchange E		rial					Multidi	rectional fibrous	fleeces			
	Туре		I					Sirocco fan				
	Airflow	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
	(50/60 Hz)	High	m³/h	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000
Fan	,	Low		100/80	165/145	275/235	470/420	570/495	720/610	880/835	1,350/1,250	1,650/1,580
	External static	Ultra-High		125-140/155	115-130/135	170-185/230	165-190/245	185-190/260	210-235/250	205-225/220	195-215/235	190-210/210
	pressure	High	Pa	100-120/100	80-90/60	145-165/80	140-175/180	140-155/210	170-215/140	155-195/100	150-180/125	140-180/85
	(50/60 Hz)	Low		44-80/28	35-75/20	90-102/36	124-155/127	108-119/122	138-174/81	115-150/70	123-146/88	96-123/53
	Motor Out	out	kW	0.03	0 × 2	0.060 × 2	0.100 × 2	0.170 × 2	0.19	0 × 2	0.19	0 × 4
Effective ventilati	on rate	Ultra-High	%					90				
Connection duct	diameter	Indoor side	mm	<b>Φ</b> 100	Φ1	50	φ2	00	φ2	50	<b>φ</b> 250	) × 4
		Outdoor side	mm	Ψ100	Ψ1	JU	Ψ2		Ψ2	JU	□(680 ×	290) × 2
Unit ambient cor	dition						-15°C to	50°CDB, 80%F	2H or loss			

#### Notes:

- 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.
- 4. In conformance with JIS standards (JIS B 8628), operating sound level is based on the value when one unit is operated, with the value converted for an anechoic chamber. This is transmission sound from the main unit, and does not include sound from the discharge grille. Thus it is normal for the sound to be louder than the indicated value when the unit is actually installed.

### ■ Remote controller function for Heat Reclaim Ventilator

		BRC1H63W(K)	BRC1E63	BRC2E61
Function	Detail	25	2(9);	Size.
Air conditioner interlock	Interlock Heat Reclaim Ventilator with air conditioner by one remote controller	•	•	•
Ventilation mode	Switch the ventilation mode (Automatic, Heat exchange, Bypass)	•	•	_
Ventilation airflow rate	When using CO <sub>2</sub> sensor, ventilation volume can be changed	•	•	•
Fresh up indication	Indicates that fresh up operation is being carried out	•	_	_
CO <sub>2</sub> indication	Indicates value of CO <sub>2</sub> sensor	0	_	_
Outdoor temperature indication	Indicates outdoor air temperature (OA)	0	_	_
Nighttime free cooling indication	Indicates that night purge operation is set	0	_	_
24 hour ventilating indication	Indicates that 24 hour ventilating operation is set	0	_	_
Ventilating operation indication	Indicates that ventilating operation is being carried out even when night purge operation and 24 hour ventilating operation is being carried out	•	•	_
Ventilating standby indication	Indicates that ventilating operation has been stopped temporarily during pre-cool / pre-heat control	0	=	_
Sharing CO <sub>2</sub> data	Share the CO <sub>2</sub> data to submit from main unit with in the group	0	_	_

○ : New functions / ● : Installed functions

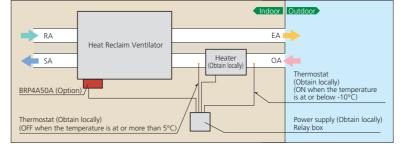
### Options

Item	MODEL	VAM150HVE	VAM250HVE	VAM350HVE	VAM500HVE	VAM650HVE	VAM800HVE	VAM1000HVE	VAM1500HVE	VAM2000HVE
	Silencer	_				KDDM24B100 KDDM24B100 × 2				
Additiona	Nominal pipe mm	_			φ2	.00		Φ2	50	
function	High efficiency filter	KAF24	2J25M	KAF242J50M	KAF24	2J65M	KAF242	K100M	KAF242K100M × 2	
	Air filter for replacement	KAF241L25M		KAF241L35M	KAF24	1L65M	KAF241	L100M	KAF241L	100M × 2
Flexible of	exible duct (1m) K-FDS101E K-FDS151E				K-FDS	5201E		K-FDS	5251E	
Flexible o	uct (2m)	K-FDS102E	K-FDS	5152E	K-FDS	5202E		K-FDS	5252E	
CO <sub>2</sub> sens	or* <sup>2</sup>	BRYC2	4A25M	BRYC24A35M		4A65M		BRYC24	A100M	
Humidity	sensor			BF	RYH241A100 (f	or RA) / BRYH2	42A100 (for O	Δ)		
	tration unit*3			BAF249A350		_		BAF42		
PM2.5 with	ctivated carbon filtration unit*3	BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C	_		BAF429	A20AC	
Wired re	mote controller			BRC1H63	3W (White) / BI	RC1H63K (Black	<) / BRC1E63 / E	BRC2E61		
	Residential central					DCS303A51*1				
Centr	Terriote controller					DC3303A31				
ised	Central remote					DCS302CA61				
인 con-	controller									
con-	*					DCS301BA61				
device	controller Schedule timer					DST301BA61				
<u> </u>	ing adapter for electrical					DSTSUTBAUT				
Controlling April Mi	endices	kRP2A62								
	KRP2A62 appendices nstallation box for adaptor PCB  KRP1C18A90									
A PC	3	KRP1C18A90								
® Fo	heater control kit					BRP4A50A				
PCB adaptor for wiring KRP1C18										

\*2. Refer to pages 179 for details. \*3. Refer to pages 180 - 182 for details.

### ■ PCB adaptor for heater control kit [BRP4A50A] (Option)

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



Notes when installing:

Examine fully an installation place and specification for using the electric heater based on the standard and regulation of each country.

•Supply the electric heater and safety production devices such as a relay and a thermostat, etc of which qualities satisfy the standard and regulation of each country at site.

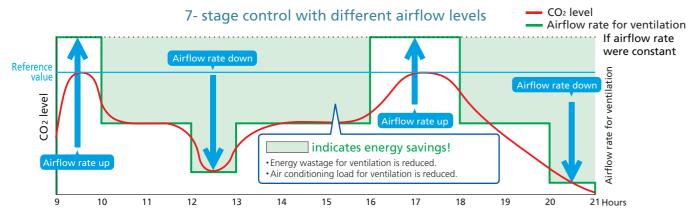
•Use a non-inflammable connecting duct to the electric heater. Be sure to use 2 m or more between the electric heater and the Heat Reclaim Ventilator for safety.

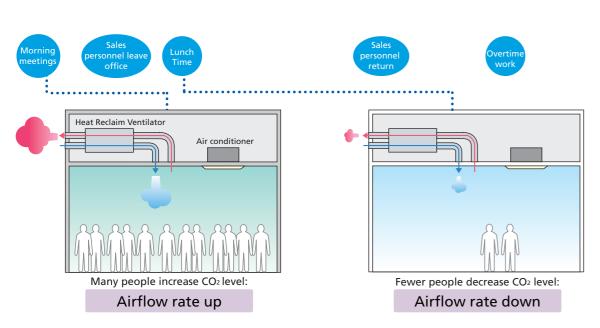
•For the Heat Reclaim Ventilator, use a different power supply from that of the electric heater and install a circuit breaker for each.

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

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

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





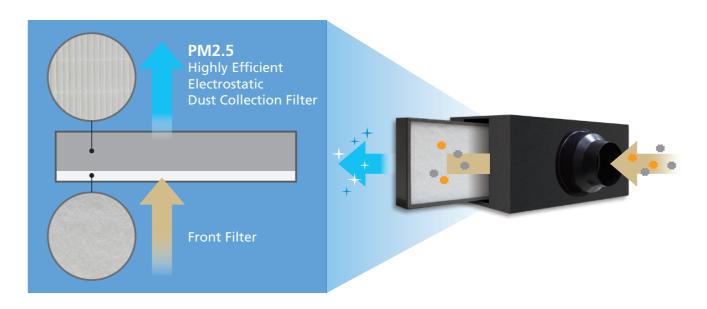
### PM2.5 filtration unit (Option) for VAM series

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

### Double-layered efficient filtration

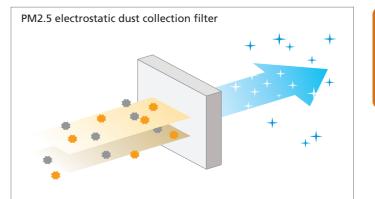
PM2.5 filters are double-layered.

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



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

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

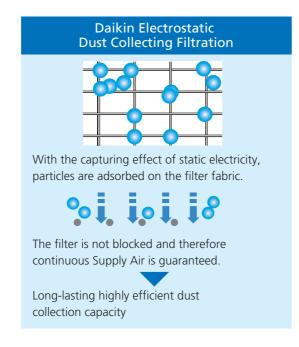


PIVI2.5
Removal Rate
99%

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

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

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



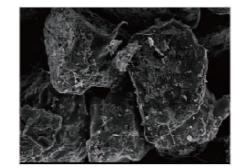
### ■ PM2.5 with activated carbon filtration unit (Option) for VAM series Extra-high performance filter against sulfur oxides and nitrogen oxides

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



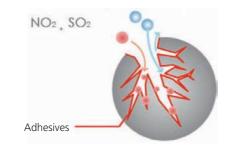


#### Intelligent Identification, Super-effective Adhesion

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

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

#### **Unidentified Gases**



### Specifications

#### PM2.5 filtration unit

	MODEL			BAF249A300	BAF249A350	BAF249A500	BAF429A20A		
Dimensions (H ×	Dimensions (H × W × D) mm		220×603×366	220×603×366	300×623×366	300×623×366	470×971×370		
Connection Duct	Connection Duct Diameter mm		<i>∲</i> 100	<i>∲</i> 150	<i>∲</i> 150	<i>∲</i> 200	580×348		
Airflow Rate	Airflow Rate m³/h		150	250	350	500	2,100		
	Initial Pressure Drop	Pa	34	30	31	42	less than 40		
D142 F F'II	Filter Lifetime *1			1 year					
PM2.5 Filter Filtration Efficiency *2				99% or higher					
Filter Material No. *3			BAF24	4A300	BAF24	4A500	BAF424A20A		

Notes: 1. Annual usage: 400 hrs/month x 12 months = 4,800 hrs 2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 µm or more.

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

#### PM2.5 with activated carbon filtration unit

	MODEL		BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C	BAF429A20AC	
Dimensions (H × W × D) mm		220×603×366	220×603×366	300×623×366	300×623×366	470×971×370		
Connection Duct I	Diameter	mm	<i>∲</i> 100	<i>ϕ</i> 150	<i>∲</i> 150	φ200	580×348	
Airflow Rate		m³/h	150 250 350 500			2,100		
Total Initial Pressur with Activated Car	re Drop for PM2.5 rbon Filtration Unit	Pa	37	35	36	51	less than 50	
	Initial Pressure Drop	Pa	34	30	31	42	less than 40	
D142 F F'l	Filter Lifetime *1		1 year					
PM2.5 Filter	Filtration Efficiency *2			99% or higher				
	Filter Material No. *3		BAF24	4A300	BAF24	4A500	BAF424A20A	
	Initial Pressure Drop Pa		3	5	5	9	less than 10	
Activated Carbon Filter Filter Lifetime					1 year			
Filter Material No. <sup>3</sup>			BAF244	1A300C	BAF244	1A500C	BAF424A20AC	

Notes: 1. Annual usage: 400 hrs / month  $\times$  12 months = 4,800 hrs. 2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5  $\mu$ m 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.

### Individual control systems for VRV systems

### ■ Stylish remote controller (Option) New









BRC1H63W

Black BRC 1H63K

A complete redesigned controller focused to enhance user experience





- Combines refinement and simplicity
- Echoes the distinct blue circle and simplicity of design
- Two attractive colours to match any interior
- Compact, measures only 85 x 85 mm







### User-friendly interface

- Just three buttons and a large-figure display
- Customisable display
- Direct access to basic functions (ON/OFF, Operation mode, Temperature setting, Airflow rate, Airflow direction)
- Timer functions (OFF timer, Weekly schedule timer)
- Simple screen for hotel display

## ON / OFF button Display Easy and direct access to main functions

### Easy setting via smartphone application using Bluetooth® wireless technology (for Installer/Facility manager)

### Keep hotel room comfortable

- Improved setback function by setting the lower temperature limit in cooling and higher temperature in heating mode.
- Window/door contact interlock function is available via optional Digital Input Adaptor BRP7A\*.



<App screen image>

### Shorter installation time

- Easy to create multiple remote control and field settings via App
- Prepare a setting in advance at the office and immediately send it to the on-site remote controller
- Save and reuse settings
- Remote update function (OTA: Over The Air)

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





### A series of user friendly functions that can be individually selected

### **Energy saving**

#### Setpoint range set

- Avoids excessive cooling or heating by limiting the min. and max. set temperature.
- Convenient for use at a place where any number of people may operate it.

#### Setpoint auto reset

- Even if the set temperature is changed, the new set temperature returns to the previous preset value after a preset duration of time.
- Period selectable from 30, 60, 90, or 120 min.

### Off timer

• Period can be preset from 30 to 180 minutes in 10-minute increments.

### Convenience

#### Setback (default: OFF)

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

### Weekly schedule

- 5 actions per day can be scheduled for each day of the week.
- The holiday function will disable schedule timer for the days that have been set
- 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.







### 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.



• 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)





- The wireless remote controller is supplied in a set with a signal • 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



BRC-C. E series

185







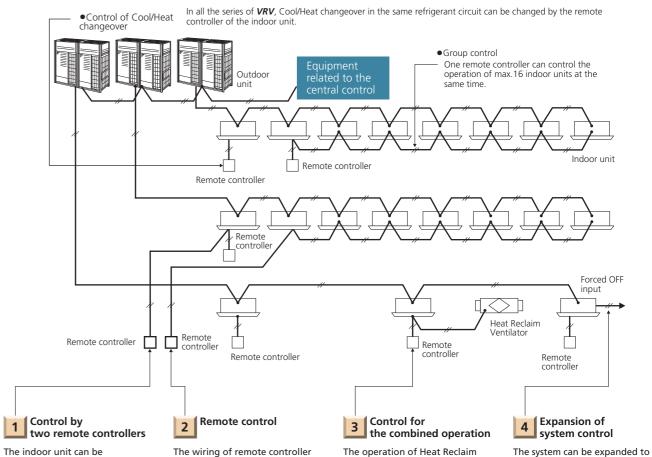
• A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.

Pressing the backlight button

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

MODEL	FXFTQ	FXFSQ	FXFQ	FXZQ	FXCQ	FXEQ	FXDQ	FXDYQ	FXSQ	FXMQ	FXUQ	FXHQ	FXAQ	FXL(N)Q
Stylish remote controller (BRC1H62W / BRC1H62K)		•		•				•		•		•		•
"Nav Ease" remote controller (BRC1E63)		•		•				•		•		•		•
"Nav Ease" remote controller (BRC1F61)						•								
Simplified remote controller (BRC2E61)				•	•			•		•	•	•		•
Wireless remote controller* (Installed type signal receiver unit)		•		•	•						•	•		
Wireless remote controller* (Separate type signal receiver unit)							•	•		•				•

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



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

controllers is also possible

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

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

add several controllers, such as BMS, Forced OFF input and etc.

<sup>\*</sup> Wireless remote controller and signal receiver unit are sold as a set.

### Integrated building monitoring system

DIII-NET Line BACnet®/Ethernet or LonWorks® The high speed transmission of DIII-NET enables more advanced control of the VRV system, providing The DIII-NET system provides for: Network Communication Line you with enhanced comfort. • Close control and monitoring by integrating a wide variety of Contact Signal Line air-conditioners in the entire building. • Saves the in-building cabling using non-polar, two-wire cables. Easier wiring RS485 Modbus® Line work with tremendously fewer wiring errors. • Additional setups readily up and running. An extendable cabling up to 2 km • Different control equipment flexibly joined in the system for hierarchical **Building Control System** risk diversification. • Daikin's total heat exchangers and other devices under integral control. ntelligent Manager **Controllers for Centralised Control** (DCS601C51) Heat Reclaim Ventilator (DCM601B51) Residential central DⅢ-NET Via internet remote controller Interface Adaptor for SkyAir Series (DCS303A51) SkyAir (High Speed Multiple (DTA112BA51) Transmission) Via internet **Control /Connection Interface** ACC Centre \* No adaptor is required for some Air Conditioning Network Service System DIII-NET, Daikin's unique (There are restrictions in applicable areas and release Central Control Adaptor Kit Unification adaptor **Packaged** high speed multiple times, therefore please consult us separately for details.) (DTA107A55) for computerised control Air-conditioner (Optional Maintenance Service) transmission system, (DCS302A52) links air conditioners and various other building equipment — ir accordance with Interface Adaptor for DIII-NET use Master Controller applications, scale and (KRP928BB2S) conditions — and transmits vast amounts Modbus® Communication Residential Air-conditioner Adaptor (DTA116A51) of information between them. (Obtain locally) Di unit (DEC101A51) Interface for use in BACnet® Dio unit (DEC102A51) **Building services equipment** (DMS502B51) • Electrical equipment • Supply water and drainage equipment Automatic fire alarm Parking equipment Ventilation equipment Interface for use in LONWORKS® Lighting
Crime and fire prevention equipment (DMS504B51) VRV Caution: Limitation may apply to some models and functions. Please contact your local sales office for details.

Wiring adaptor for electrical appendices

(KRP2A61/62/51/53)

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.

### Advanced control systems for *VRV* systems





DCM601B51

Various types of equipment in a building

### 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. With Remote controller

9:00-17:00

With Control System



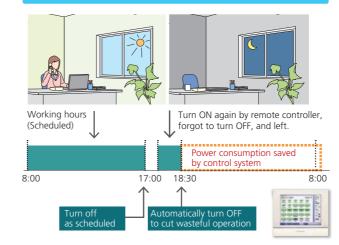
This heat is killing me.

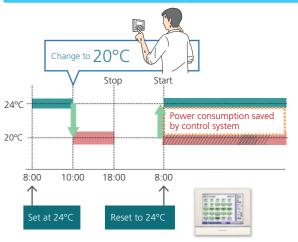
Very cold.

quiet operation function is also possible

#### Turn the unit OFF if a user didn't

Setting the I-demand function and nighttime





### External contact demand control function

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

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



### ■ Lighting control (Option)

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

Connection to DALI-compatible lighting control system

DALI-compatible Please contact your local sales office for details.

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

### Lighting control achieved by the intelligent Touch Manager

#### [Operation]

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

#### [Monitoring]

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

## efficiently controlled to promote energy conservation and cost reduction! DCM009A51 (BACnet® Client option) WAGO I/O system 753-647 750-831

Air conditioning and lighting for which power consumption is high can be

#### 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

### based on a schedule to cut wasteful power consumption. • Failing to switch off lights is prevented.

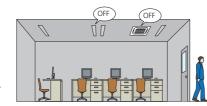
Case 1

Switch-on / switch-off and

illuminance are controlled

#### 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.



### 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)

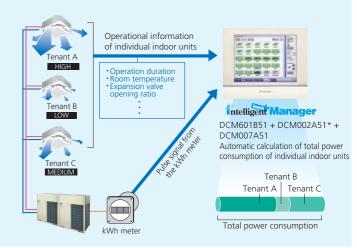
The energy consumption is proportionally calculated for each indoor unit. The data can be used for energy management and calculation of air conditioning usage fees for respective tenants.

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



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

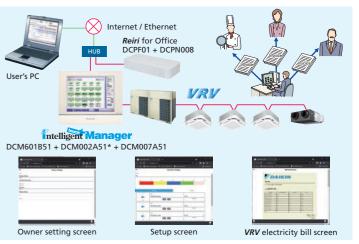
### Air conditioning bills can be issued by one click (PPD\* Option)

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

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

#### Main functions

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



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

### Effective service functions offered to tenants

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

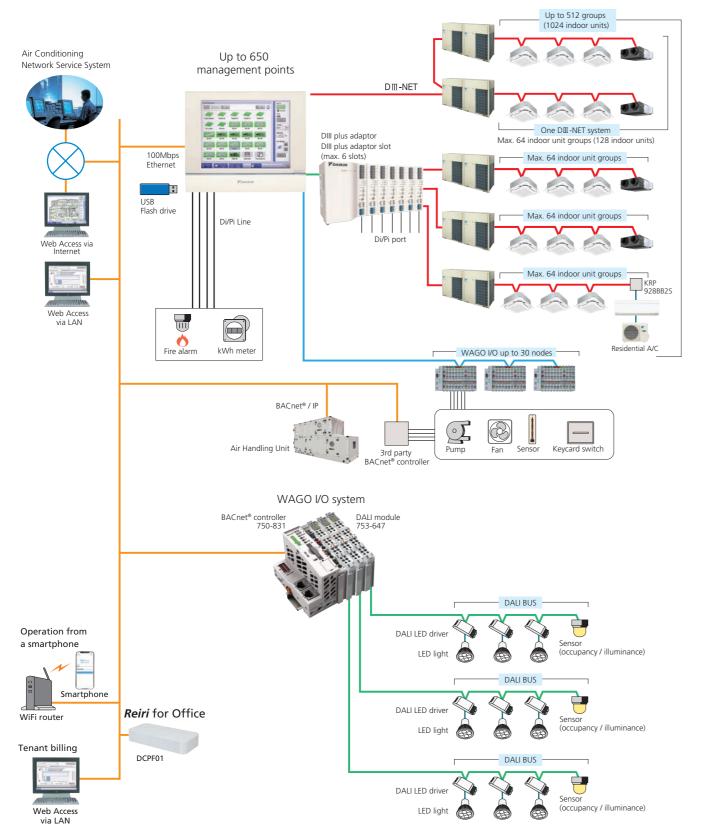
Users can operate and check the status of **VRV** system from their smartphones via the internet.

It is not necessary to move where a remote controller is located with this feature.

**VRV** system in other rooms can be operated, and their status can be checked. It is also possible to check if air conditioners in other rooms remain switched on etc., helping achieve energy saving.



### **intelligent Touch Manager** system overview



#### Air conditioning network service system

#### **Preventive maintenance**

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

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

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



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

#### Daikin offers a variety of control systems

### Convenient controllers that offer more freedom to administrators

#### Ease of use and expanded control functions

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

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

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

Dedicated interfaces make Daikin air conditioners freely compatible with open networks



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



Intelligent Controller

DCS601C51

DMS502B51 (Interface for use in BACnet®) DMS504B51 (Interface for use in LonWorks®)

Notes: 1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

2. LonWorks® is a trademark of Echelon Corporation registered in the United States

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







Reiri for Office

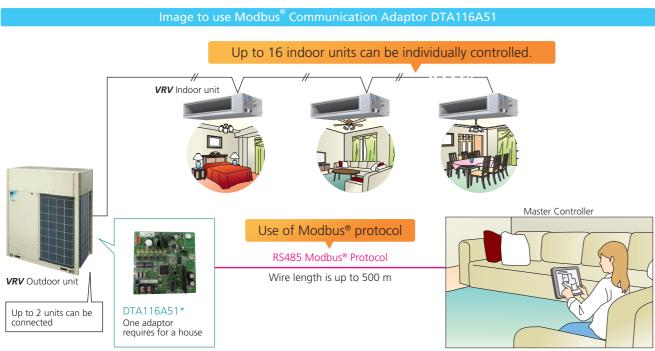


• Reiri for Office

· Reiri for Home

· Reiri for Office

### Modbus® Communication Adaptor



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

### **Functions** Monitor

On/Off	On/Off status of indoor units				
Operation made	Cooling, Heating, Fan, Dry, Auto				
Operation mode	(depend on indoor unit capability)				
Setpoint	Setpoint of indoor units				
Room temperature	Suction temperature of indoor units				
Fan direction	Swing, Flap direction				
ran 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				
Operation mode	(depend on indoor unit capability)				
Setpoint	Cooling/Heating setpoint				
Fan direction	Swing, Stop, Flap direction				
ran unection	(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.

<sup>\*</sup> Modbus® is a registered trademark of Schneider Electric S.A.

### ■ Complete control system for *VRV* systems

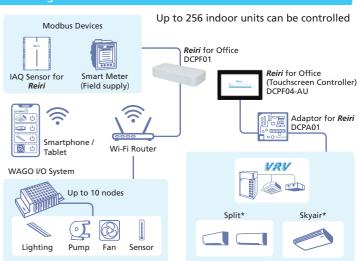


### Office Air Conditioning Solution (Reiri for Office: DCPF01 / Reiri for Office (Touchscreen Controller): DCPF04-AU)

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



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



#### **Specifications**

Category	Function	Description				
	Status monitoring	On/Off, setpoint, operation mode, fan step, flap, error, error code, Room temperature				
Monitoring &	Manual Operation	On/off, setpoint, operation mode, fan step, flap, scene control <sup>1</sup>				
Control	Remote control prohibition	Individually prohibit operation of each local remote-control function				
	Setpoint range limitation	To limit setpoint range for each indoor unit management point				
	Automatic changeover <sup>1</sup>	Number of changeover groups: 100				
Automatic	Off timer	Off timer duration can set from 5min to 120min with every 5min interval				
Control	Setback <sup>1</sup>	Setback setpoint can selected within 24-35°C in cooling mode and 5-20°C in heating mode.				
functions	Schedule	Number of programmes: 100; Up to 20 actions can be registered per pattern.				
	Interlock <sup>1</sup>	Interlock operation depending on equipment status				
	History, Report <sup>1</sup>	Operation data (latest information and operation report) and error report on daily/monthly basis.				
Data Management	Trend graph <sup>1</sup> , energy graph <sup>1</sup>	Chart on environmental changes and energy (and other meter) values.				
Wanagement	Real time energy display <sup>1,2</sup>	Daily/ Monthly real time energy consumption status on screen.				
P.P.D Billing <sup>1,2</sup>		Generate Bill with Power Proportional Distribution data retrieved from the system.				
System Setting		Language, Password setting, Account setting, Notification, Email Notification				

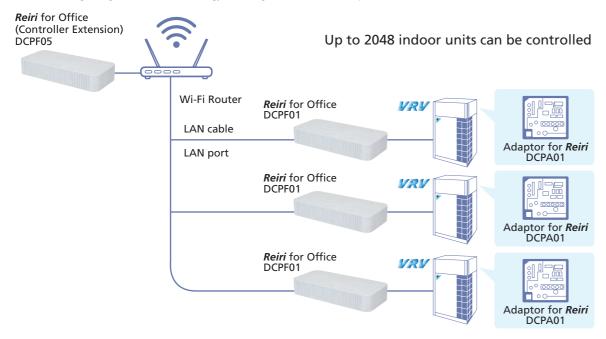
<sup>1</sup> Optional software for *Reiri* for Office, DCPF01

<sup>2</sup> Optional software for *Reiri* for Office (Touchscreen Controller), DCPF04-AU

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

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

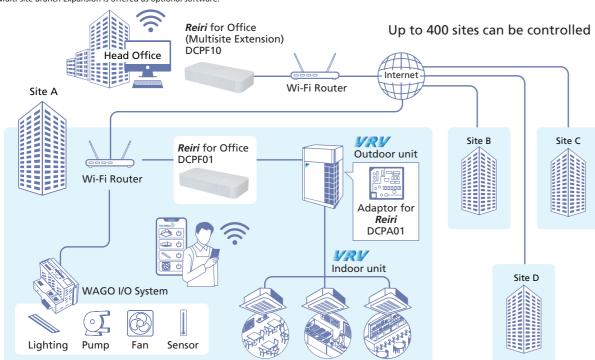
Note: P.P.D. & Tenant Billing Management and Real-Time Energy Monitoring (R.E.M.) are offered as optional software.



### Multi Site Management Solution (*Reiri* for Office (Multisite Extension): DCPF10)

Centralised control and remote access for all devices in multiple buildings across different locations conveniently located on one secured platform.

Note: Multi-site Branch Expansion is offered as optional software.



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

The complete smart home air conditioning solution for every homeowners with integration capabilities to allow ease and convenience of control for almost every smart devices

#### **Complete Smart Home Solution**

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

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

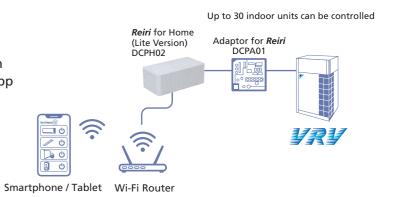
Up to 64 indoor units can be controlled



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

Designed to enhance the comfort and convenience for homeowners, offering complete control of core functions in Daikin Airconditioning system remotely through app access

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

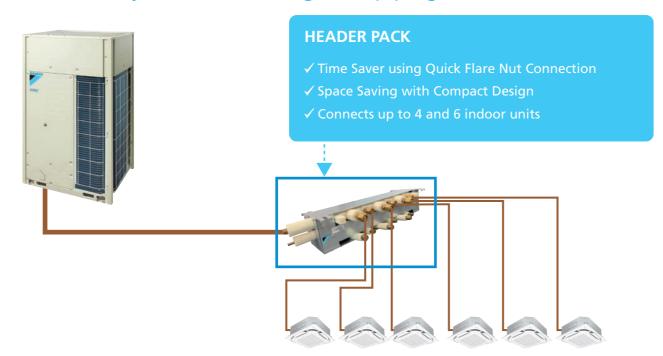


## Header Pack (Packaged Refnet Headers)

Save installation time Indoor unit piping work can be easier and quicker.



A smarter way to connect refrigerant piping



### Reliability improvement

Easy piping installation that anyone can do

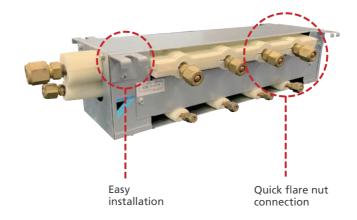
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Installation improvement

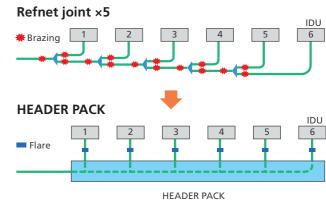
Faster work with simplified installation using basic tools

### ■ Suitable luxions residence | Simple & Quick!

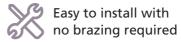
### Easy piping connection / Easy installation

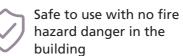


### Reduction of connection points by elimination of refnet joints



### Advantages







Save more than 60% installation time



Space saving with attic height reduced by 300 mm

### • Connectable up to 4 & 6 IDU

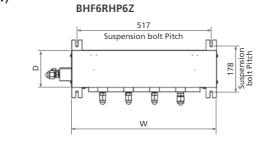




#### **HEADER PACK Lineup**

Mardal	Outdoor unit side		Indoor unit	t side (Flare)	Indoor unit total	Dimension (mm)		
Model name	Liquid / Gas (mm)		Port	Liquid / Gas (mm)	capacity index	Н	D	W
BHF6RHP6Z	9.5 / 15.9	4	Large ×1	φ9.5 / φ 15.9	<b>/1</b> F0	135	143	559
DHLOVHLOT	(Flare)	4	Small ×3	φ6.4/φ12.7	≤150	133	143	229
BHF6ARHP6Z	9.5 / 15.9	6	Large ×2	φ9.5 / φ 15.9	Z 1F0	135	143	623
DHFOANHFOL	(Flare)	0	Small ×4	φ6.4/φ12.7	≤150		145	023
BHF8RHP6Z	9.5 / 19.1	6	Large ×3	φ9.5 / φ 15.9	< 200	135	143	623
DHLOVHLOT	(Daikin Gas Tight Joint)	0	Small ×3	φ6.4/φ12.7	≤200	155		023
BHF10RHP6Z	9.5 / 22.2	6	Large ×3	φ9.5 / φ 15.9	< 290	135	143	623
DITI TOMITOL	(Daikin Gas Tight Joint)	0	Small ×3	φ6.4/φ12.7	₹290	133	143	023
BHF16RHP6Z	12.7 / 28.6	6	Large ×3	φ9.5 / φ 15.9	< 420	135	143	623
BITI TOMITEOZ	(Daikin Gas Tight Joint)	0	Small x3	φ6.4 / φ 12.7	<420	133		023

#### Dimensions (Top view)



# BHF6ARHP6Z,BHF8/10/16RHP6Z

### Outdoor units

### VRV R SERIES

No.	Item		Туре	REYQ8B REYQ10B REYQ12B REYQ14B REYQ14B REYQ16B	REYQ26B REYQ28B REYQ30B REYQ32B REYQ34B REYQ36B	REYQ40B REYQ42B REYQ44B REYQ46B	REYQ50B REYQ52B REYQ54B	REYQ56B REYQ58B REYQ60B		
			REFNET header	KHRP25	KHRP25M33H(Max. 8 branch), KHRP25M72H(Max. 8 branch), KHRP25M73H(Max. 8 branch)					
		3 Pipes	REFNET joint	BHRP25A22T, BHRP25A33T, BHRP25A72T, BHRP25A73T						
1	Distributive		Pipe size reducer	KHRP25M72TP, KHRP25M73TP						
·	piping*1		REFNET header			KHRP26M33H(Max. 8 KHRP26M73H(Max. 8				
		2 Pipes	REFNET joint	BHRP26/	BHRP26A22TA, BHRP26A33TA, BHRP26A72TA, BHRP26A73TA					
			Pipe size reducer	KHRP26M73HP						
2	Outdoor unit	multi conne	ection piping kit	_	BHFP2	26R135	BHFP2	6R168		

Note: \*1. The appropriate REFNET parts should be selected to match the total capacity index of indoor units connected below each REFNET, based on the installation manual.

**REFNET joint** (BHRP25A22/33/72/73T, BHRP26A22/33/72/73TA)



### Option PCB

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

### **VRV H** SERIES

No.	Type		RXYQ8B RXYQ10B RXYQ12B RXYQ14B RXYQ14B RXYQ16B	RXYQ26B RXYQ38B RXYQ28B RXYQ40B RXYQ30B RXYQ42B RXYQ32B RXYQ44B RXYQ34B RXYQ46B RXYQ36B RXYQ48B	RXYQ50B RXYQ56B RXYQ52B RXYQ58B RXYQ54B RXYQ60B	
		REFNET header		/I22H(Max. 4 branch), KHRP26M33H(Max. 8 branch), /I72H(Max. 8 branch), KHRP26M73H(Max. 8 branch)		
1	Distributive piping*1	REFNET joint	BHRP26A22TA, BHRP26A33TA, BHRP26A72TA, BHRP26A73TA  KHRP26M73HP			
'	Distributive piping 1	Pipe size reducer				
2	Outdoor unit multi conne	ection piping kit	-	BHFP22R135	BHFP22R168	

Note: \*1. The appropriate REFNET parts should be selected to match the total capacity index of indoor units connected below each REFNET, based on the installation manual.

REFNET joint (BHRP26A22/33/72/73TA)



### Option PCB

No.	Type	RXYQ8B RXYQ16B RXYQ24B RXYQ32B RXYQ40B RXYQ48B RXYQ56B RXYQ10B RXYQ18B RXYQ26B RXYQ34B RXYQ42B RXYQ50B RXYQ58B RXYQ12B RXYQ20B RXYQ28B RXYQ36B RXYQ44B RXYQ52B RXYQ60B RXYQ14B RXYQ22B RXYQ30B RXYQ38B RXYQ46B RXYQ54B			
1	DIII-NET expand adaptor + Wire harness adaptor kit	DTA109A51 + BER11A			
2	External control adaptor	DTA104A62			

### Optio

## Option List

### Outdoor units

### **URV** S High Seasonal Efficiency SERIES

No.	Туре	RSUYQ4A2 RSUYQ5A2	RSUYQ6A2	RSUYQ7A RSUYQ8A		
1	Header pack	BHF6RHP6Z, BHF6ARHP6Z, BHF8RHP6Z				
2	REFNET header	KHRP26M22H (Max. 4 branch) , KHRP26M33H (Max. 8 branch)				
3	REFNET joint	BHRP26A22TA	26A22TA BHRP26A22TA, BHRP26A33TA			
4	Drain plug	BKP082A41				
5	Air direction adjustment grille	KPW082A41				

### Option PCB

No.	Type	RSUYQ4A2 RSUYQ5A2 RSUYQ6	A2 RSUYQ7A RSUYQ8A	
1	DIII-NET expander adaptor ★	_	DTA109A51	
2	External control adaptor ★	_	DTA104A61	
3	Modbus® Communication Adaptor ★	_	DTA116A51	
4	Option plate for control adaptor	_	BKS26C*1	

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

### VRV IV S SERIES

No.	Item	RXYMQ3A2 RXYMQ4A2	RXYMQ5B2 RXYMQ6B2	RXYMQ8A RXYMQ9A		
1	Header pack	BHF6RHP6Z, BHF6ARHP6Z, BHF8RHP6Z				
2	Cool/Heat selector	KRC19-26A —				
2-1	Fixing box	KJB111A —				
3	REFNET header	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)				
4	REFNET joint	KHRP26A22T		KHRP26A22T, KHRP26A33T		
5	Central drain plug	KKPJ5H280				
6	Fixture for preventing overturning	KKTP5B112				
7	Wire fixture for preventing overturning	_	-	K-KYZP15C		

### **VRV** IV Q SERIES Standard Type

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

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

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

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

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

N	lo.	Type		RQYQ30TS(E) RQYQ32TS(E) RQYQ34TS(E)			RQYQ46TS(E) RQYQ48TS(E)	
	1	Distributive piping REFNET header		KHRP26M22H, KHRP26M33H, KHRP26M72H, KHRP26M73H (Max.4 branch) (Max.8 branch) (Max.8 branch) (Max.8 branch)				
			REFNET joint	BHRP26A22TA, BHRP26A33TA, BHRP26A72TA, BHRP26A73TA				
	2	Pipe size reducer		KHRP26M73HP				
	3	Outdoor unit connection piping kit		BHFP22P100 BHFP22P151			P151	
	4	Cool / Heat selector		KRC19-26A				

### Outdoor units

### **VRVIII**-Q

No.	Item	Туре	RQCEQ280P RQCEQ360P	RQCEQ460P RQCEQ500P	RQCEQ540P RQCEQ636P	RQCEQ712P RQCEQ744P RQCEQ816P RQCEQ848P
		REFNET header	KHRP25M72H KHRP26M22H	(Max. 8 branch) (Max. 8 branch) (Max. 4 branch) (Max. 8 branch)	KHRP25M33H (Max. 8 branch) KHRP25M72H (Max. 8 branch) KHRP25M73H (Max. 8 branch) KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch)	KHRP25M33H (Max. 8 branch) KHRP25M72H (Max. 8 branch) KHRP25M73H (Max. 8 branch) KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch) KHRP26M72H (Max. 8 branch)
1	Distributive piping	REFNET joint	BHRP25A33T ( BHRP25A72T ( BHRP26A22TA	Max. 4 branch) Max. 8 branch) Max. 8 branch) (Max. 4 branch) (Max. 8 branch)	BHRP25A22T (Max. 4 branch) BHRP25A33T (Max. 8 branch) BHRP25A72T (Max. 8 branch) BHRP25A73T (Max. 8 branch) BHRP26A22TA (Max. 4 branch) BHRP26A33TA (Max. 8 branch)	BHRP25A22T (Max. 4 branch) BHRP25A33T (Max. 8 branch) BHRP25A72T (Max. 8 branch) BHRP25A73T (Max. 8 branch) BHRP26A22TA (Max. 4 branch) BHRP26A33TA (Max. 8 branch) BHRP26A72TA (Max. 8 branch)
2	Outdoor unit multi connection piping kit		BHFP26P36C	BHFP2	6P63C	BHFP26P84C
3	Digital pressure gauge kit		BHGP26A1×2	BHGP2	6A1×3	BHGP26A1×4

### VRV IV W SERIES

No.	Type		RWEYQ8T RWEYQ6T2 RWEYQ10T RWEYQ12T		RWEYQ14T RWEYQ16T RWEYQ18T RWEYQ20T RWEYQ22T RWEYQ24T	RWEYQ26T RWEYQ28T RWEYQ30T RWEYQ32T RWEYQ34T RWEYQ36T	
1	Cool/heat selector			KRC19-26A (Applies to heat	pump type only)		
1-1	Fixing box			KJB111A (Applies to heat p	ump type only)		
2	Distributive piping	REFNET header	KHRP25M33H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)		KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch)	KHRP25M33H (Max. 8 branch), KHRP25M72H (Max. 8 branch), KHRP25M73H (Max. 8 branch), KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch)	
		REFNET joint	BHRP25A22T, BHRP25A33T, BHRP26A22TA, BHRP26A33TA		BHRP25A22T, BHRP25A33T, BHRP25A72T, BHRP26A22TA, BHRP26A33TA, BHRP26A72TA	BHRP25A22T, BHRP25A33T, BHRP25A72T, BHRP25A73T, BHRP26A22TA, BHRP26A33TA, BHRP26A72TA, BHRP26A73TA	
3	Outside unit multi	For heat pump	-	_	BHFP22MA56	BHFP22MA84	
3	connection piping kit	For heat recovery	-	_	BHFP26MA56	BHFP26MA84	
4	External control adapt	or	_		DTA104A62		
5	Strainer kit			BWU26A15, BWU26A20			

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

### **IN W SERIES** Strainer kit specifications

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

### **VRV WS** SERIES

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

### **VRV** indoor units

### Round Flow Cassette with Sensing and Streamer Type



No.	Item	Item		Туре	FXFTQ25A FXFTQ32A FXFTQ40A	FXFTQ50A         FXFTQ100A           FXFTQ63A         FXFTQ125A           FXFTQ80A         FXFTQ140A		
		Standard panel with	Fresh whit	te	BYCQ125EEF			
	D	sensing	Black		BYCQ125EEK			
1	Decoration panel	Standard panel	Fresh whit	te		BYCQ125EAF *		
	parier	Stariuaru parier	Black			BYCQ125EAK *	*	
	Auto grille panel 1,2		Fresh whit	te	BYCQ125EBSF *			
2	Panel spacer				KDB55J160F			
		Chan		Without T-duct joint	KDDP55C160 (Components: KDDP55C160-1, KDDP55C160-2) 7		KDDP55C160-2) 7	
3	Fresh air intak	ke kit	type 4,5	With T-duct joint	KDDP55C160K (Components: KDDP55C160-1, KDDP55C160K2) 7		KDDP55C160K2) 7	
			Direct inst	allation type <sup>6</sup>	KDDP55X160A			
4	High perform	ance prefilter (MERV 8) 8				BAF552A160		
5	Replacement	long-life filter				KAF5511D160		
6	Replacement	long-life filter (Auto grille	panel)			KAF5512D160		
7	Branch duct of	:hamber			KDJP5	KDJP55C80 KDJP55C16		
8	Insulation kit	for high humidity 10			KDTP5	5K80B	KDTP55K160B	

### Round Flow Cassette with Sensing Type



No.	Item			Туре	FXFSQ25A FXFSQ32A FXFSQ40A	FXFSQ50A FXFSQ63A FXFSQ80A	FXFSQ100A FXFSQ125A FXFSQ140A
		Standard panel with	Fresh whi	e BYCQ125EEF			
		sensing	Black			BYCQ125EEK	
1	Decoration panel		Fresh white			BYCQ125EAF *	
	parier	Stariuaru parier	Black		BYCQ125EAK *		
		Auto grille panel 1,2	Fresh white			BYCQ125EBSF *	
2	Saaling materi	al of air discharge outlet <sup>3</sup>	For usage	of 3-, 4-way flow		KDBH551C160	
2	Sealing materi	For		of 2-way flow	KDBH552C160		
3	Panel spacer					KDB55J160F	
	4 Fresh air intake kit		Chamber	Without T-duct joint	KDDP55C160 (Cd	KDDP55C160 (Components: KDDP55C160-1, KDDP55C1	
4			type 4,5	With T-duct joint	KDDP55C160K (Co	omponents: KDDP55C160-1,	KDDP55C160K2) 7
		Direct inst	tallation type <sup>6</sup>		KDDP55X160A		
5	High-efficienc	y filter unit 8	(Colorime	tric method 65%)	5%) KAF556D80		KAF556D160
5	(Including filte	er chamber)	(Colorimetric method 90%)		KAF5	57D80	KAF557D160
6	Poplacoment	high-efficiency filter 8,9	(Colorimetric method 65%)		KAF5	52D80	KAF552D160
O	Replacement	nigh-efficiency filter	(Colorime	tric method 90%)	KAF5	KAF553D80 KAF553	
7	Filter chambe	r			KDDFP55C160		
8	High perform	ance prefilter (MERV 8) 8				BAF552A160	
9	Replacement	long-life filter				KAF5511D160	
10	Replacement	long-life filter (Auto grille	panel)			KAF5512D160	
11	Ultra long-life	filter unit (Including filter	chamber) 8			KAF555D160	
12	Replacement	ultra long-life filter 8,9				KAF550D160	
13	Branch duct c	hamber <sup>3</sup>			KDJP:	55C80	KDJP55C160
14	Insulation kit	for high humidity 8,10			KDTPS	55K80B	KDTP55K160B

Notes: 1. A dedicated wireless remote controller for the auto grille panel is included for lowering and raising the suction grille.

2. When installing auto grille panel, body height (ceiling required dimension) is 55 mm higher than standard panel.

3. Circulation airflow is not available with this option.

4. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.

- 4. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
  5. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.
  6. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.
  7. Please order using the names of both components instead of set name.
  8. This option cannot be installed auto grille panel.
  9. Filter chamber is required.
  10. Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.
  \*These panels do not contain the sensing function.

### **VRV** indoor units

### Round Flow Cassette Type

No.	Item Fresh white			Туре	FXFQ25A FXFQ32A FXFQ40A	FXFQ50A FXFQ63A FXFQ80A	FXFQ100A FXFQ125A FXFQ140A		
1	Decoration	Standard panel	Fresh whit	te		BYCQ125EAF *			
'	panel	Stariuaru parier	Black		BYCQ125EAK *				
		Auto grille panel 1,2	Fresh whit	te	BYCQ125EBSF *				
2	Soaling materia	al of air discharge outlet <sup>3</sup>	For usage	of 3-, 4-way flow		KDBH551C160			
	Sealing material of all discharge outlet		For usage of 2-way flow			KDBH552C160			
3	Panel spacer					KDB55J160F			
	4 Fresh air intake kit		Chamber	Without T-duct joint	KDDP55C160 (Co	KDDP55C160 (Components: KDDP55C160-1, KDDP55C160-2) 7			
4			type 4,5			DP55C160K (Components: KDDP55C160-1, KDDP55C160K2) 7			
			Direct inst	allation type <sup>6</sup>		KDDP55X160A			
5	F High-efficiency filter unit 8		(Colorime	tric method 65%)	KAF5!	56D80	KAF556D160		
,	(Including filte	er chamber)	(Colorimetric method 90%)		KAF5	57D80	KAF557D160		
6	Poplacoment	high-efficiency filter 8,9	(Colorimetric method 65%)		KAF5	52D80	KAF552D160		
0	Replacement	night-efficiency filter	(Colorimet	tric method 90%)	KAF5	53D80	KAF553D160		
7	Filter chamber	r				KDDFP55C160			
8	High performa	ance prefilter (MERV 8) 8				BAF552A160			
9	Replacement	long-life filter				KAF5511D160			
10	Replacement	long-life filter (Auto grille	panel)			KAF5512D160			
11	Ultra long-life	filter unit (Including filter	chamber) <sup>8</sup>			KAF555D160			
12	Replacement	ultra long-life filter 8,9				KAF550D160			
13	Branch duct c	hamber <sup>3</sup>			KDJP5	55C80	KDJP55C160		
14	Insulation kit t	for high humidity 8,10			KDTP5	5K80B	KDTP55K160B		

- Notes: 1. A dedicated wireless remote controller for the auto grille panel is included for lowering and raising the suction grille.
  - 2. When installing auto grille panel, body height (ceiling required dimension) is 55 mm higher than standard panel
  - 3. Circulation airflow is not available with this option.
  - 4. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
  - Introducing higher quantities will increase the operating sound and may also influence temperature sensing.
  - 6. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.

    7. Please order using the names of both components instead of set name.

  - 8. This option cannot be installed to auto grille panel. Filter chamber is required.
  - 10. Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.
  - \*These panels do not contain the sensing function

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

#### Options required for specific operating environments

### Ultra long-life filter unit

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



#### Dusty area: annual filter change

- \*For dust concentration of 0.3 mg/m³ (Requires separately sold Air purifier.) 1 year (Approx. 5,000 hr): About 15 hr/day x 28 day/month x 12 month/year
- Ordinary store or office: filter change every 4 years
- \*For dust concentration of 0.15 mg/
- 4 years (Approx. 10,000 hr): About 8 hr/day x 25 day/month x 12 month/years x 4 years

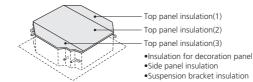
#### **High-efficiency filter unit**

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



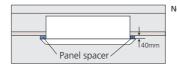
#### Insulation kit for high humidity

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.



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

#### Sealing material of air discharge outlet

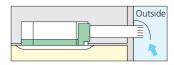
By using this option, 2-way, 3-way, or 4-way flow can be selected.

#### **Branch duct chamber**

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

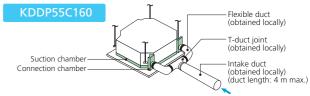
#### Fresh air intake kit 1,2

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

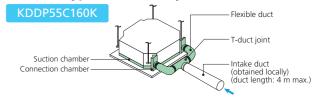


The units can be installed in the following different ways:

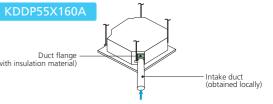
### Chamber type (without T-duct joint) 3, 4, 5



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



### Direct installation type 6



Notes: 1. Use of options will increase operating sound.

- 2. Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be obtained locally.

  3. When a local-obtained fan is used, an interlock with air conditioner is
- necessary. Optional PCB (BRP11B62) is required for interlocking.

  4. When installing a fresh air intake kit (chamber type), two air outlet
- corners are closed.
- 5. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.
- 6. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow.
- The chamber type is recommended when more fresh air is necessary

### **VRV** indoor units

### High Performance Prefilter (MERV 8)

### Features and Benefits

### **MERV 8 Rating**

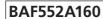
This filter is a high performance prefilter that has achieved MERV 8 rating.

#### PM2.5 Filtration

This filter can catch fine particles that could not be removed by the existing prefilter, capturing 97% of 1.0-3.0  $\mu$ m particles and 99% of 3.0-10  $\mu$ m particles when air passes through filter 10 times.

### Filter Exchange Twice a Year

Replace the filter twice a year in order to maintain the filter's high performance.





### **Chamberless Filter**

Additional parts and difficult installation works are unnecessary. Just replace the existing prefilter.

### Retrofit to Existing Indoor Unit

Attachable to your current round flow cassette for IAQ improvement.

### Specifications

Model Name			BAF552A160			
Brand		DAIKIN				
Production Base	AAF Malaysia					
Performance	MERV 8					
Dimensions	mm	526 x 523 x 35				
Airflow rate	m³/min	13.0	37.0			
Initial Pressure Drop*2	Pa	18.1	35.8	81.4		
Weight	g		520			
Lifetime *3	6 months (1,250 hours)					
Reuse			Non-reusable			

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

\*2. This result is based on the test of the filter only The results may be different in the actual use environment where the filter is installed in the indoor unit.

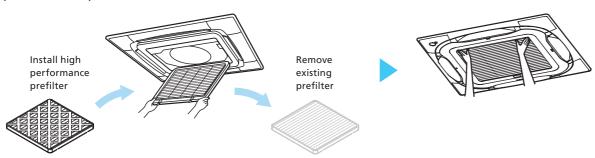
\*3. Filter lifetime may vary depending on the condition of the operating environment.

Certain instances such as high traffic areas, pets or smokers in a residence, or other situations may require more frequent changes.

### Easy Replacement

The existing prefilter can be replaced easily\*.

Since it's a chamberless filter, the installer will remove the existing prefilter and replace it with the high performance prefilter.

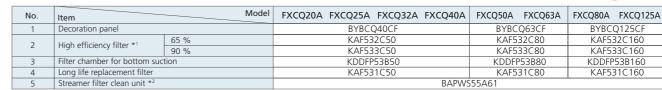


### Compact Multi Flow Cassette Type

No.	Item Type	FXZQ20A	FXZQ25A	FXZQ32A	FXZQ40A	FXZQ50A
1-1	Grid ceiling panel			BYFQ60CAW		
1-2	Sensor kit for grid ceiling panel			BRYQ60AAW		
1-3	Sealing material of air discharge outlet for grid ceiling panel			BDBHQ44C60		
2	Replacement long life filter			KAF441C60		
3	Fresh air intake kit			KDDQ44XA60		
4	Streamer filter clean unit *2			BAPWS55A61		

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

### **Double Flow Cassette Type**



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

\*2. Available only when stylish remote controller (BRC1H63W/K) is connecte

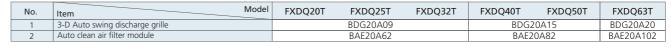
#### Single Flow Cassette Type

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

### Slim Duct (Standard) Type

No.	Type Type	FXDQ20PD	FXDQ25PD	FXDQ32PD	FXDQ40ND	FXDQ50ND	FXDQ63ND
1	Insulation kit for high humidity		KDT25N32		KDT2	5N50	KDT25N63

### Slim Duct (Compact) Type



### Middle Static Pressure Duct Type



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



### ■ *VRV* indoor units

### Middle Static Pressure Duct Type



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

### Middle-High Static Pressure Duct Type



No.	Item	Туре	FXMQ20PA FXMQ25PA FXMQ32PA	FXMQ40PA	FXMQ50PA FXMQ63PA	FXMQ80PA	FXMQ100PA FXMQ125PA FXMQ140PA
1	1 High efficiency filter	65%	KAF372AA36	KAF372B56	KAF372B80		KAF372B160
1	Trigit efficiency litter	90%	-	KAF373B56	KAF373B80		KAF373B160
2	Filter chamber		-	KDDF37AB56	KDDF37AB80		KDDF37AB160
3	Long life replacement filter		-	KAF371B56	KAF371B80		KAF371B160
4	Long life filter chamber kit		-	KAF375C56	KAF37	75C80	KAF375C160
5	Service panel (Fresh white)		KTBJ25K36F	KTBJ25K56F	KTBJ25K80F		KTBJ25K160F
6	Air discharge adaptor		KDAJ25K36A	KDAJ25K56A	KDAJ2	5K71A	KDAJ25K140A

### High Static Pressure Duct Type



No.	Item Туре	FXMQ160P	FXMQ180P	FXMQ200P	FXMQ250P	
1	Drain nump kit	PD11274.250				

### 4-Way Flow Ceiling Suspended Type



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

### Ceiling Suspended Type



No.	Item Type	FXHQ32MA	FXHQ50MA	FXHQ63MA	FXHQ80MA FXHQ100MA	FXHQ125B FXHQ140B
1	Drain pump kit	KDU50	N60VE		KDU50N125VE	KDUP50P160
2	Replacement long-life filter	KAFJ501D56	KAFJ5	01D80	KAFJ501D112	KAF501B160
3	L-type piping kit (for upward direction)	KHFP	5M63		KHFP5M160	KHFP5N160
4-1	Streamer filter clean unit *1,2		_			BAPWS55A61
4-2	Mounting kit for streamer option			BERPW50A61		

### Wall Mounted Type



No.	Item Type	FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
1	Drain pump kit			K-KDU	572KVE		
2	External EV kit (for heating operation)*1		BEV	15D		BEV	30D

Note:\*1. This option is only effective for reducing operation sound during heating operation.

Therefore it is ineffective when connected to cooling only outdoor units.

### Floor Standing Type



No.	Item Type	FXLQ20MA	FXLQ25MA	FXLQ32MA	FXLQ40MA	FXLQ50MA	FXLQ63MA
1	Long life replacement filter	KAF361L28		KAF3	61L45	KAF3	61L71

### Concealed Floor Standing Type



No.	Item Type	FXNQ20MA	FXNQ25MA	FXNQ32MA	FXNQ40MA	FXNQ50MA	FXNQ63MA
1	Long life replacement filter	KAF36	51L28	KAF30	61L45	KAF36	61L71

Notes: \*1. Mounting kit for streamer option (BERPW50A61) is necessary.

\*2. Available only when stylish remote controller (BRC1H63W/K) is connected.

### ■ BS Units for Heat Recovery

### Single BS Unit



No.	Item Type	BSQ100A	BSQ160A	BSQ250A
1	Quiet kit		KDDN26A1	
2	External control adaptor for outdoor units		DTA104A61	
3	Adaptor for multi tenant		DTA114A61	

### Multi BS Unit



No.	Item Type	BS4Q14B	BS6Q14B BS8Q14B	BS10Q14B BS12Q14B	BS16Q14A			
1	Closed pipe kit	KHFP26A100C						
2	Joint kit	KHRP26A250T						
3	Quiet kit	KDDN26C4	KDDN26C8	KDDN26C12	KDDN26B16			

### Header Pack

No.	Item Type	4 port type	6 port type
1	HEADER PACK	BHF6RHP67	BHE6ARHP67 BHE8RHP67 BHE10RHP67 BHE16RHP67

### ■ Control systems Operation control system optional accessories



### For **VRV** indoor unit use

No.	Type Item	FXFTQ-A	FXFSQ-A	FXFQ-A	FXZQ-B	FXCQ-B	FXEQ-A	FXDQ-PD FXDQ-ND	FXDQ-T	FXSQ-PA
1	Stylish remote controller *5				BRC1H63V	V (White) / BRC1H	63K (Black)			
2	"Nav Ease" remote controller *5	_		BRC1E63			BRC1F61	BRC1F61 BRC1E63		
3	Simplified remote controller	_	_				BRC2E61			
4	Wireless remote controller	_	BRC7M634F BRC7M63		BRC7M530W	BRC7M65	BRC4M61	M61 BRC4C65		
5-1	Adaptor for wiring (operation status output)	★BRP11B62				-	— ★BRP11B61			★BRP11B62
5-2	Adaptor for wiring	_				★KRP1C14A	_		★KRP1C64	_
6-1	Wiring adaptor for electrical appendices (1)		— ★KRP2A62			★KRP2A51	_	— ★KRP2A53 ★KRP2A61		2A61
6-2	Wiring adaptor for electrical appendices (2)		★KRP	4AA53		★KRP4AA51	_	★KRP4A54	<b>★</b> KRP4	1AA51
7	Remote sensor (for indoor temperature)		BRCS01A-5		BRCS	01A-6	BRCS01A-4	BRCS01A-1	BRCS	01A-4
8	Installation box for adaptor PCB 🖈		KRP1H98A *2,3		KRP1BB101 *4	KRP1C96 *2, 3	_	KRP1BB101 *4	BRP9A90	KRP4A98 *2,3
9	External control adaptor for outdoor unit		<b>★</b> DTA	104A62		★DTA104A61	_	<b>★</b> DTA104A53	<b>★</b> DTA1	04A61
10	Adaptor for multi tenant	— ★DTA114A61								
11	Multi tenancy kit		-			_			KRP114A3*2	_
12	Digital input adaptor		★BRP7A52		★BRP7A53	★BRP7A51	_	★BRP7A54	★BRF	7A51

No.	Item	FXDYQ-MA	FXMQ-PA	FXMQ-P	FXUQ-A	FXHQ-MA	FXHQ-B	FXAQ-A	FXLQ-MA FXNQ-MA
1	Stylish remote controller *5		BRC1H63W (White) / BRC1H63K (Black)						
2	"Nav Ease" remote controller *5				BRC	1E63			
3	Simplified remote controller		BRC2E61						
4	Wireless remote controller	BRC4C62	BRC	4C65	BRC7CB58	BRC7EA63W	BRC7M53	BRC7M675	BRC4C62
5-1	Adaptor for wiring (operation status output)	_	★BRP11B62	_	_	★BRP11B61	BRP11B61-1	_	BRP11B62
5-2	Adaptor for wiring	KRP1B61	_	★KRP1C67			_		
6-1	Wiring adaptor for electrical appendices (1)	KRP2A61	★KRP2A61	★KRP2A62	_	★KRP2A62	_	★KRP2A61	KRP2A61
6-2	Wiring adaptor for electrical appendices (2)	KRP4AA51	★KRP4AA51	★KRP4AA52	★KRP4AA53	★KRP4AA52		★KRP4AA51	KRP4AA51
7	Remote sensor (for indoor temperature)	BRCS01A-1		BRCS01A-4		BRCS	01A-1	BRCS01A-6	BRCS01A-1
8	Installation box for adaptor PCB 🌣	_	KRP4A97 *2,3	BRP9A90	KRP1BA97	KRP1CA93 *3	KRP1D93A *3	KRP4B93 *2, 3	_
9	External control adaptor for outdoor unit	DTA104A61	★DTA104A61	_		<b>★</b> DTA104A62		★DTA104A61	DTA104A61
10	Adaptor for multi tenant	_	<b>★</b> DTA1	114A61			_		
11	Digital input adaptor	BRP7A52	★BRP7A51	★BRP7A52	★BRP7A53	★BRF	P7A52	★BRP7A51	BRP7A51

- Notes: 1. Installation box☆ is necessary for each adaptor marked ★.
  - 2. Up to 2 adaptors can be fixed for each installation box.
     3. Only one installation box can be installed for each indoor unit.

  - 4. Up to 2 installation boxes can be installed for each indoor unit.
- 5. Some functions can be set only via the stylish or "Nav Ease" remote controller. They cannot be set via other remote controllers. Please refer to each indoor unit and remote controller page for function details.

  6. Since the control panel is equipped as standard, use the option of BRC1E63
- for 2 remote control system.

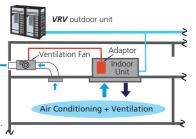




### Adaptor for wiring (operation status output)

By installing it in the indoor unit with a simple wire connection, this adaptor takes out the operating signals for the indoor unit fan BRP11B61 BRP11B62 and the compressor and enables the interlocking of equipment such as the ventilation fan.

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



### 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 SkyAir-series	★DTA112BA51 *3	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.
3	Central control adaptor kit   For UAT(Y)-K(A),FD-K	★DTA107A55	, , , , , , , , , , , , , , , , , , , ,
4	Wiring adaptor for other air-conditioner	★DTA103A51	* To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
5	DIII-NET expander adaptor	DTA109A51 + BER11A *4	Up to 1024 units can be centrally controlled in 64 different groups.  Wiring restrictions (max. length: 1,000m, total wiring length: 2,000m, max. number of branches: 16) apply to each adaptor.
5-1	5-1 External control adaptor		Demand control of individual or multiple systems.     Low noise option for individual or multiple systems.

Notes: 1. Installation box for \* adaptor must be obtained locally.

2. For residential use only. Cannot be used with other centralised control equipment.

3. No adaptor is required for some indoor units.

4. BER11A is necessary when connecting DTA109A51 to the main PCB (VRV R/H).

### Building management system

No.			Item		Model No.	Function	
1		Basic	Hardware	intelligent Touch Controller	DCS601C51	Air-Conditioning management system that can be controlled by a compact all-in-one unit.	
1-1	intelligent Touch Controller		Hardware	DIII-NET plus adaptor	DCS601A52	Additional 64 groups (10 outdoor units) is possible.	
1-2	Controller	Option	Software	Web software	DCS004A51	VRV system that is connected to intelligent Touch Controller can be operated from the user's PC via a web page.	
1-3	Electrical box with	n earth t	terminal (4 blocks)		KJB411A	Wall embedded switch box.	
2		Basic	Hardware	intelligent Touch Manager	DCM601B51	Air-conditioning management system that can be controlled by touch scre	
2-1				DIII plus adaptor	DGE601A52	Additional 64 groups (10 outdoor units) is possible.	
2-2			Hardware	DIII plus adaptor slot	DGE601A53	DIII plus adaptor and Max. 6 DIII plus adaptor slots can be connected to intelligent Touch Manager.	
2-3	intelligent Touch Manager	Option		iTM power proportional distribution	DCM002A51	<ul> <li>Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measures kWh metre.</li> </ul>	
2-4			Software	iTM energy navigator	DCM008A51	Building energy consumption is visualised.     Wasted air-conditioning energy can be found out.	
2-5				BACnet® client	DCM009A51	• BACnet® equipment can be managed by intelligent Touch Manager.	
2-6				HTTP Interface	DCM007A51	Interface for intelligent Touch Manager by HTTP	
2-7				<b>Reiri</b> for Office	DCPF01	VRV smart controller (website or mobile app via smart phone or tablet) for small to medium scale building	
2-8				<b>Reiri</b> for Office (Touchscreen Controller)	DCPF04-AU *1	VRV smart controller with touch panel (website or mobile app via smartphone or tablet) for small to medium scale building	
2-9		Basic	Hardware	<b>Reiri</b> for Office (Controller Extension)	DCPF05	• VRV smart controller for large scale building	
2-10				<b>Reiri</b> for Office (Multisite Extension)	DCPF10	• Control all <b>VRV</b> units via <b>Reiri</b> for Office on multisite	
2-11				<b>Reiri</b> for Home	DCPH01	VRV smart home automation and smart control solution	
2-12				<b>Reiri</b> for Home (Lite Version)	DCPH02	• VRV smart centralised controller	
2-13			Hardware	Adaptor for <i>Reiri</i>	DCPA01	• Interface adaptor for <i>Reiri</i>	
2-14	Smartphone/		Tidi dividi C	Adaptor for New 1	DCPA01B	• Interface adaptor for <i>Reiri</i> with installation box	
2-15	Tablet control			IAQ Sensor DC for <i>Reiri</i>	DCPE02S	• IAQ Sensor for <i>Reiri</i> (24V AC/DC)	
2-16				Commercial Automatic Control	DCPN001	Set back, Scene, Interlock Automatic Changeover functions for individu- controller	
2-17	_				Commercial Data Analytics	DCPN002	Operation Report, Error Report; Trend Graph, Energy Graph functions for individual controller
2-18		Option	Software	PPD & Tenant Billing Management	DCPN003	Power Proportional Distribution and billing function for individual control	
2-19		Орион	(Commercial)	Realtime Energy Monitoring (REM)	DCPN004	Real Time Energy Display function for individual controller	
2-20				Multisite Branch Expansion	DCPN005	To expand the multisite control limit by 1 site	
2-21				iTM Tenant Billing Management	DCPN008	Billing function for iTM Power Proportional Distribution data	
2-22			Software (Residential)	Residential Automatic Control	DCPN006	Setback, Setpoint Range, Remote Control Prohibition, Automatic Changeover functions for individual controller	
2-23			(Nesidefilidi)	Residential System Report	DCPN007	Operation Report, Error Report functions for individual controller	
2-24	Di unit				DEC101A51	8 pairs based on a pair of ON/OFF input and abnormality input.	
2-25	Dio unit				DEC102A51	• 4 pairs based on a pair of ON/OFF input and abnormality input/output.	
3		Interf	face for use	in BACnet® *2	DMS502B51	Interface unit to allow communications between <i>VRV</i> and BMS.     Operation and monitoring of air-conditioning systems through BACnet® communication.	
3-1	Option		Optional DIII board		DAM411B51	Expansion kit, installed on DMS502B51, to provide 2 more DIII-NET communication ports. Not usable independently.	
3-2	Communication interface	Optional Di board		d	DAM412B51	Expansion kit, installed on DMS502B51, to provide 16 more wattmeter pulse input points. Not usable independently.	
4				in LONWORKS® *3	DMS504B51	Interface unit to allow communications between <i>VRV</i> and BMS.     Operation and monitoring of air-conditioning systems through LonWork communication.	
5		Modi	odbus® Communication Adaptor		DTA116A51	Use of the Modbus® protocol enables the connection of the <i>VRV</i> system with a variety of home automation systems from other manufacturers.	
6	Contact/ analogue signal	Unifi		otor for computerised	<b>★</b> DCS302A52	Interface between the central monitoring board and central control unit	

Notes: \*1. Reiri for Office (Touchscreen Controller) DCPF04-AU includes built-in Commercial Automatic Control functions (Set back, Scene, Interlock Automatic Changeover).

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

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

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

\*5. Modbus® is a registered trademark of Schneider Electric S.A.

## **Engineering Supports**

### Design assistance and sales proposal

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

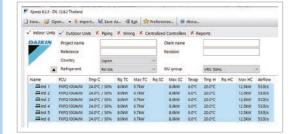
Model Selection

Drawing Supports

Analysis and Simulation

#### **Model Selection**

### **VRV** Xpress



### **Model Selection**

• Refrigerant charge calculation

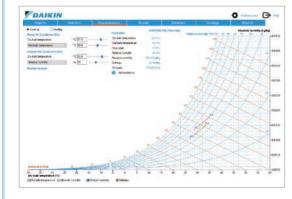
#### Standard VRV model selection software

The optimum system is automatically selected just by inputting the design conditions.

Refrigerant piping and additional refrigerant charge amount are automatically selected.

In addition, it supports the preparation of a quotation.

### **Ventilation** Xpress



#### **Model Selection for ventilation products**

#### Ventilation products selection software

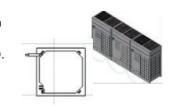
Heat Reclaim Ventilator (VAM series) or Outdoor Air Processing Unit (OAPU) can be selected by inputting conditions such as ventilation volume and external static pressure.

In addition, the air temperature and humidity conditions at each point of the selected system are displayed on the psychrometric chart.

### **Drawing Supports**

### 3D Revit data / 2D CAD symbol

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

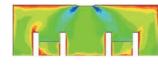


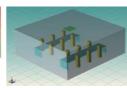


### **Analysis and Simulation**

### DT-FLOW2 (Airflow simulation)

■ IEQ simulation



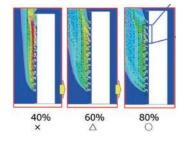


### Indoor air environment analysis software

Simulates temperature and humidity, CO<sub>2</sub>, dust, and air age.

Creates model of the property with Filder Cube (equipment CAD software), calculates with IconCFD (analysis software), and automatically outputs the report.

#### **■**Outdoor airflow simulation



#### Outdoor airflow analysis software

Simulates the short circuit of the outdoor unit and uses it as a reference for optimal installation. Creates model of the property with Filder Cube (equipment CAD software), calculates with IconCFD (analysis software), and automatically outputs the report.





- 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.



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

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

#### Cautions on product corrosion

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

VRV is a trademark of Daikin Industries. Ltd.

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