

NEW

VRV join EGAT No. 5 Energy Saving Label

from 1 Jan 2024 onward. Become Daikin Highest SEER Series, Ultra High Energy Efficiency.

*SEER will cover all VRV model under 100,000 BTU/h

**VRV
EGAT No.5 Label**



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

VRV X SERIES

Heavy anti-corrosion model
VRV X MAX
RXUQ-AW



New heights in energy efficiency during actual operation

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

Lineup

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




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

VRV A SERIES

Heavy anti-corrosion model
VRV A MAX
RXQ-AW



Saves space and delivers excellent performance

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

Lineup

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




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

VRV S High Seasonal Efficiency SERIES

Especially designed for residential houses, small office and shops

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

Lineup

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




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

VRV IV S SERIES

Especially designed for residential houses, small offices and shops

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

Lineup

HP	4	5	6	8	9
Cooling Only	●	●	●	●	●



Exceeding Boundaries with Innovative Energy Savings

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

VRV + VRT + VAV



VRV
X series / A series
movie

VRV



Energy savings & comfort

- Uniting VRV, VRT and VAV technologies
- Quiet operation

Design flexibility & easy installation

- Automatic refrigerant charge function
- Varied lineup of models

High reliability

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

Design Your Own Clean Air Solution

Daikin Air Filtration Solution

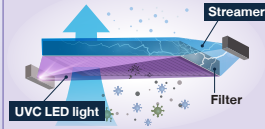
Triple Action, Ensure Absolute Clean Atmosphere

PM2.5 + Virus

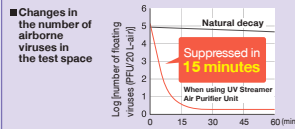
**Daikin VRV
4 ways Cassette**



Removes bacteria¹ and suppresses viruses² Captures in the filter by more than 99% in 30 minutes.³



Suppresses floating viruses⁴ and floating bacteria⁵ by more than 99% in 15 minutes.⁶



*1 Japan Food Research Laboratories Test Number 21051979001-0201

*2 Shokukanken Inc Test number 217500N

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

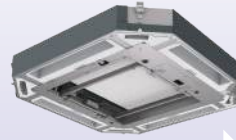
*4 Kitasato Research Center for Environmental Space Test number 2021_0375

*5 Japan Food Research Laboratories Test number 21051979001-0101

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

+ Built- In PM2.5 Filter
BAEF125DWS

**UV Streamer
Air Purifier Unit**



**UVC
265nm**

STREAMER

**Antibacterial/
Antiviral filter**
MERV 13 rating



NEW

This product has been certified by Thailand OCPB to be Non harmful UVC product



Chamberless High Performance Filter, Easy Installation
97%*7 of 1.0 -3.0 µm is captured Equivalent range as PM1.0-PM3.0

PM2.5

**Daikin VRV
4 ways Cassette**



FXFQ-AV2S, FXFSQ-AV2S

PM2.5 + Virus

**Daikin VRV Streamer
4 ways Cassette**



FXFTQ-AVS, FXFRQ-AVS

+ MERV8 Filter
BAF552A160

Air Purification Demonstration Test

Air Purification capacity was compared using the same amount of smoke.

Standard pre-filter
Indoor unit maximum airflow 36.5 m³/min Fan/Powerful operation



MERV 8 DAIKIN AIRFILTER
Indoor unit maximum airflow 36.5 m³/min Fan/Powerful operation



Experiment conditions: In a space of 5 m width x 3 m depth x 2.4 m height, a smoke machine was run for 50 seconds at 31 m³/min and the smoke suctioned into the filter. Test product: Indoor unit FXYFP140EA, high ceiling mode (setting), swing airflow direction

*7 Air passes through filter 10 times.

Virus

**Daikin VRV
Streamer Line up**

*8 Option part is required.



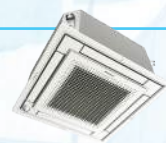
FXFTQ-AVS, FXFRQ-AVS



FXCQ-BVMS*⁸



FXHQ125/140BVMS*⁸



FXZQ-BVMS*⁸

+ STREAMER TECHNOLOGY



Irradiate streamers when the fan and air conditioning operation is stopped. The streamer fumigates the cabin and sterilizes the filter.

Why Daikin Streamer?

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



The decomposing elements provide decomposition power.

Daikin Air Ventilation Solution

Air Treatment Product, Better Air Better Life

CO2 + PM2.5 + Virus + Humidity



VKM-GCVE



FXMQ-MFV1



FXMQ-BFV2S

Daikin Ventilator/OAPU

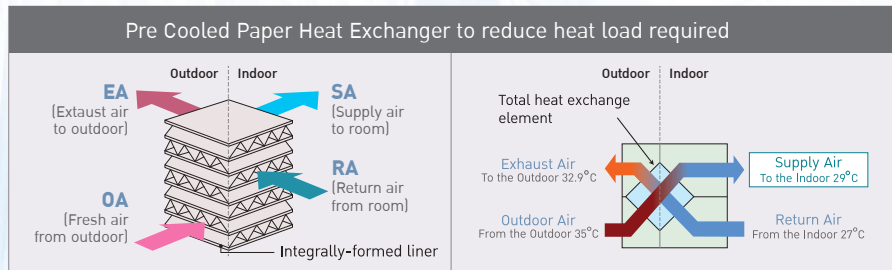
Intaking Pre Cooled Fresh air. Improve system energy efficiency, Lessen required heat load to cool the intake fresh air.

CO2 + PM2.5 + Virus

Daikin Ventilator VAM



VAM-HVE

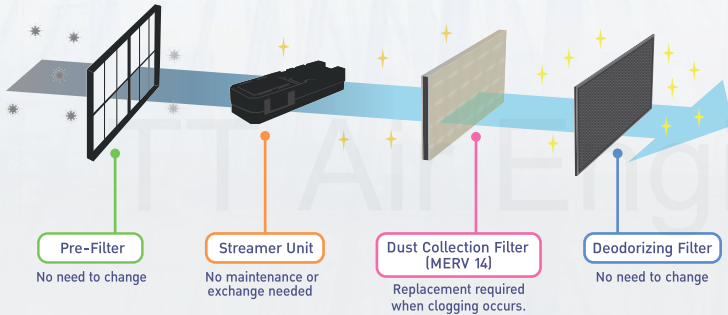


+ Streamer Duct Chamber

BDEZ500A-VE



Filters Mechanism



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

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

CO2 + PM2.5

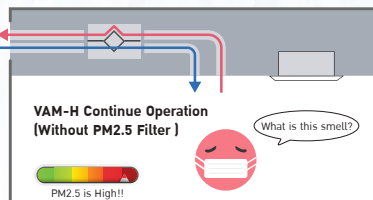
Daikin Ventilator VAM



VAM150/250/350HVE

Without PM2.5 Filter

In case, outdoor condition are polluted...



Ventilation is needed to provide fresh air!

Ventilation is needed when outdoor condition good in order to reduce Co2 and bring fresh air to avoid peoples cause feel stuffy, and others more. However, when outdoor condition is polluted, VAM-H have to stop operation to avoid from bring dirty air to indoor.

+ Built- In PM2.5 Filter

BAFH510A250 /350

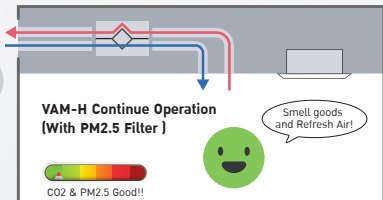
NEW



No Filter Box Required!!

With PM2.5 Filter

In case, outdoor condition are polluted...

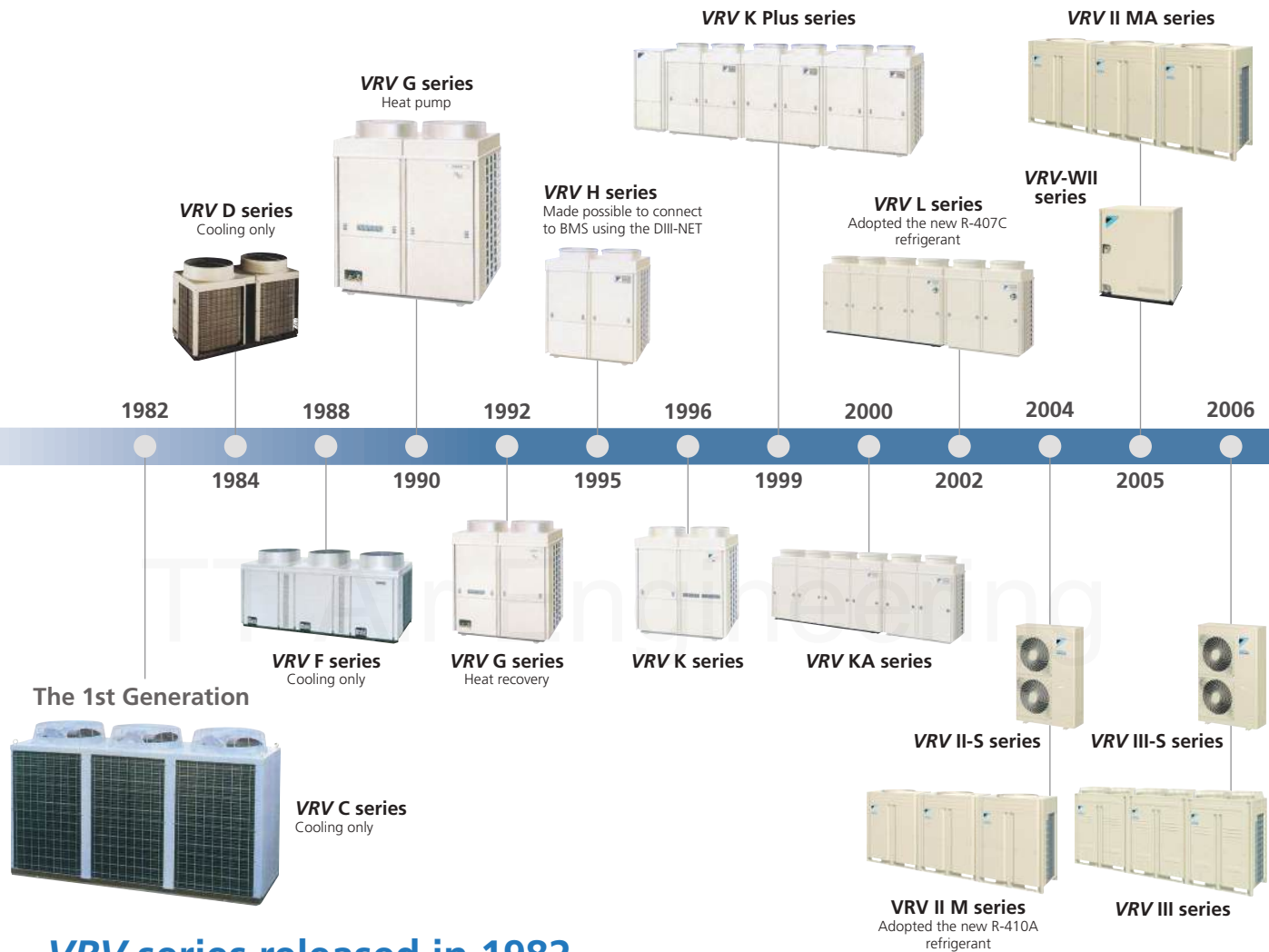


Clean Air to improve your healthy life!

With an optimal PM2.5 filter, say goodbye to interruptions in ventilation operation, as this innovative filter ensures a continuous flow of fresh air by 90% shutdown (MERV14 filter).

VRV Development History

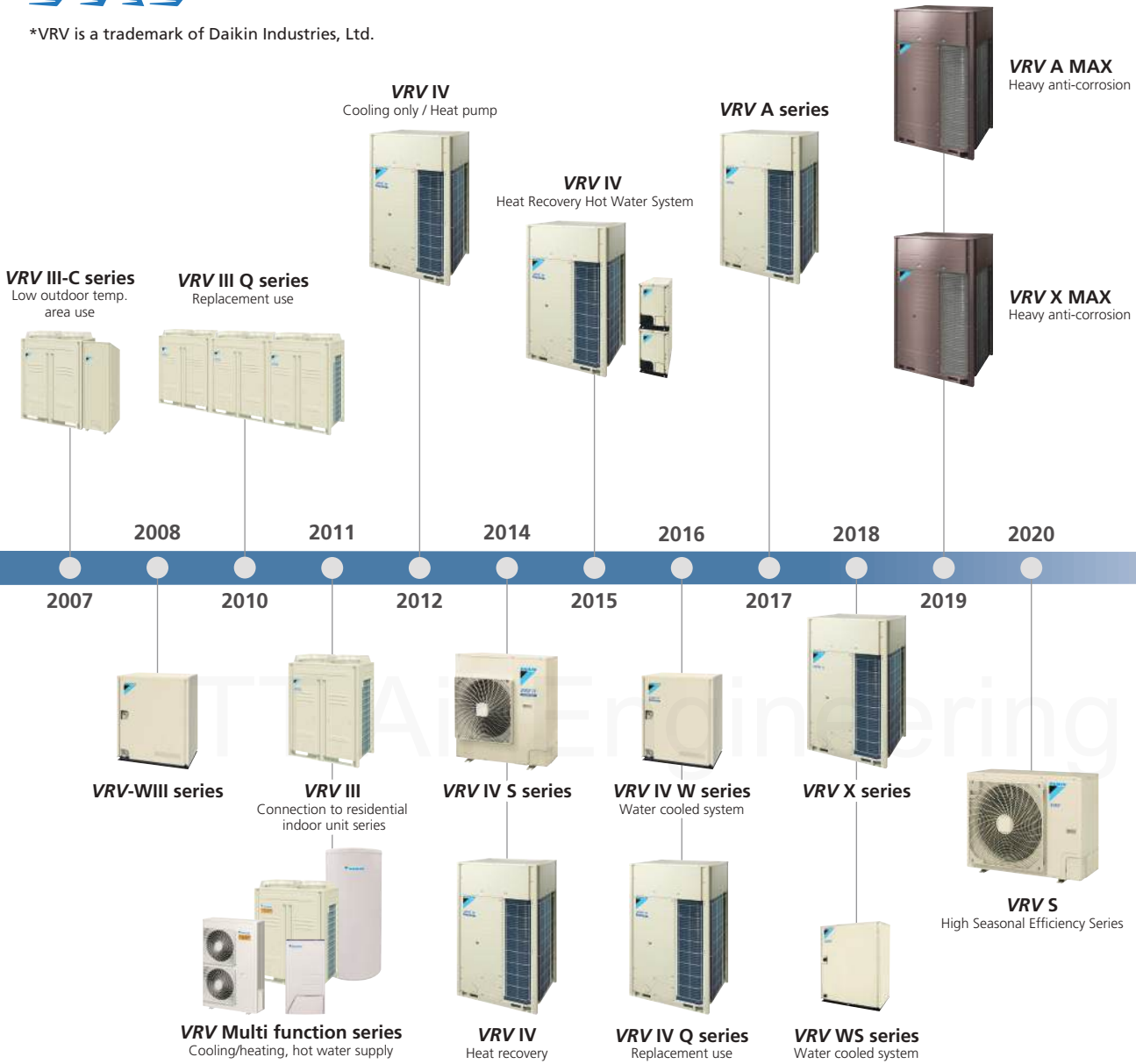
To meet the needs of the times, we've been continuously developing technologies as the leading air conditioning manufacturer in the world.



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



*VRV is a trademark of Daikin Industries, Ltd.



Wide Variety of Series Models to Supply Total Air Solutions



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

VRV X SERIES

Heavy anti-corrosion model
VRV X MAX
RXUQ-AV



New heights in energy efficiency during actual operation

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



Lineup

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



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

VRV A SERIES

Heavy anti-corrosion model
VRV A MAX
RXQ-AV



Saves space and delivers excellent performance

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



Lineup

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



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

VRV S High Seasonal Efficiency SERIES

Especially designed for residential houses, small office and shops

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



Lineup

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



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

VRV IV S SERIES

Especially designed for residential houses, small offices and shops

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



Lineup

HP	4	5	6	8	9
Cooling Only	●	●	●	●	●

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.



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

VRV IV Q SERIES

For quick & high quality replacement use

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

Lineup

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



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

VRV IV W SERIES

Water cooled system suitable for tall multi-storied buildings

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

Lineup

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



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

VRV WS SERIES

Water cooled system suitable for residential houses

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

Lineup

HP	4	5	6
Cooling Only	●	●	●



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

VRV IV HEAT RECOVERY HOT WATER SYSTEM

Comfortable air conditioning and energy-efficient
hot water heating

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

Lineup

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

VRV X SERIES

New Heights in Energy Efficiency
During Actual Operation

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



Single outdoor units
RXUQ6-20AY1S(W)

Double outdoor units
RXUQ12-40AMY1S(W)

Triple outdoor units
RXUQ18-20AM1Y1S(W)
RXUQ42-60AMY1S(W)

*(W): Heavy anti-corrosion model

Greater energy savings during low-load operation

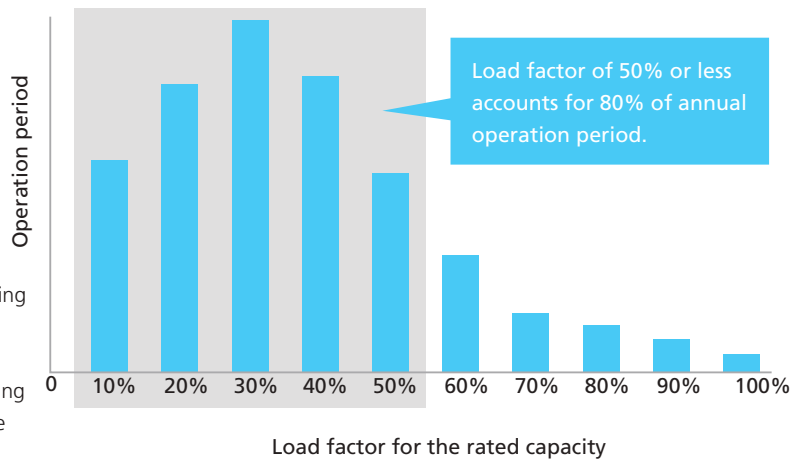
Daikin's VRV X series raised the standard of energy efficiency.

The key to innovative energy savings

Increased efficiency during low-load operation.

* Data source

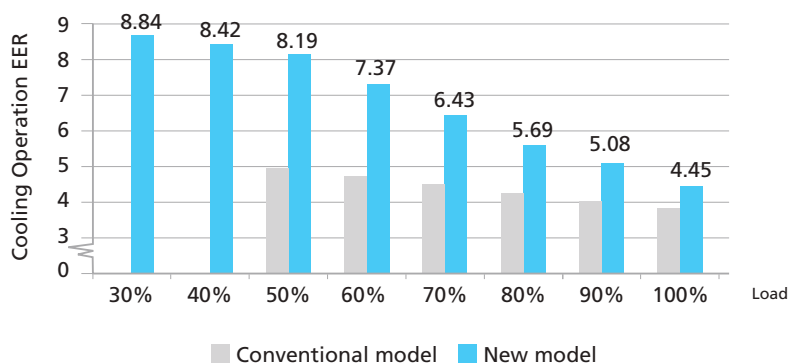
- Number of properties connected to the Air Conditioning Network Service System: 42 projects
- Number of outdoor unit systems: 535 systems
- Data collection period: 8:00-18:00, weekdays (excluding public holidays), from July 2015 to June 2016 in office buildings in Singapore.



TT Air Engineering

Higher Energy Efficiency Ratio (EER) for 10 HP

Annual power consumption
20%
Lower



* Simulation conditions:

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

* Cooling operation conditions:

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

Advanced Technologies

Advanced technologies for greater energy savings

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

Software technology

VRT Smart Control

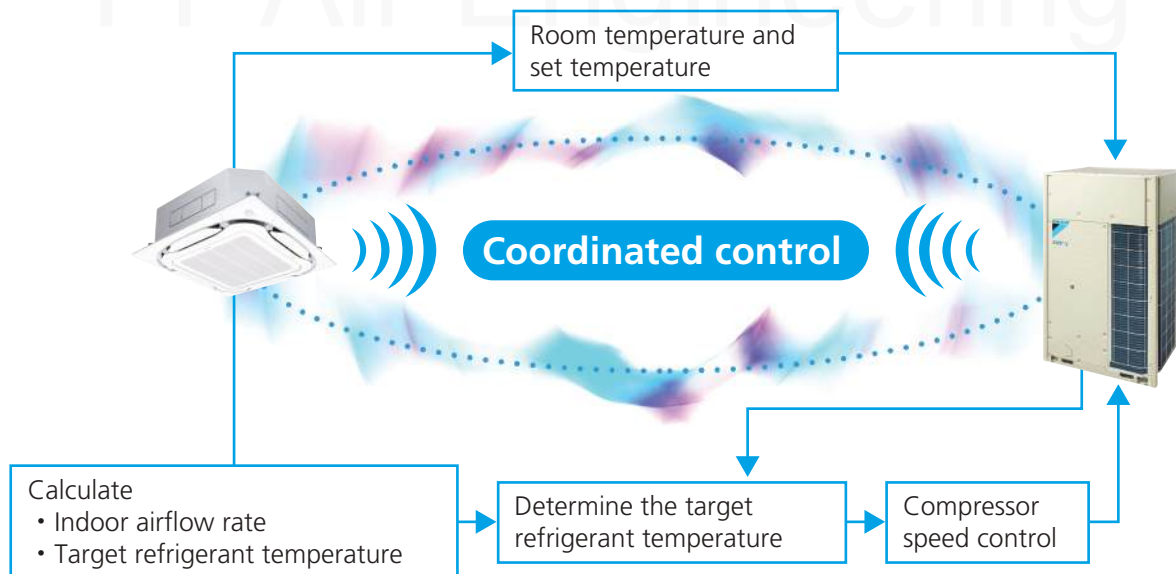


Fully Automatic Energy-saving Refrigerant Control

VRT Smart Control Function movie

■ Optimally supply only for the needed capacity of indoor units

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



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

VRV + VRT + VAV

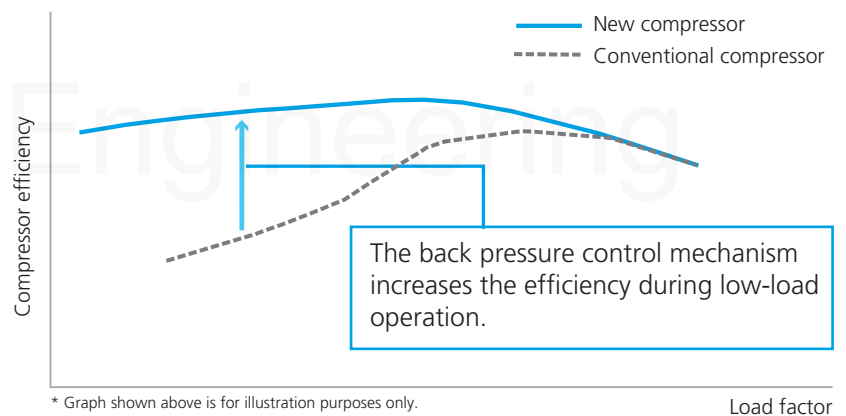
Hardware technology New Scroll Compressor



New Scroll Compressor movie

Refrigerant leakage is minimized during low-load operation

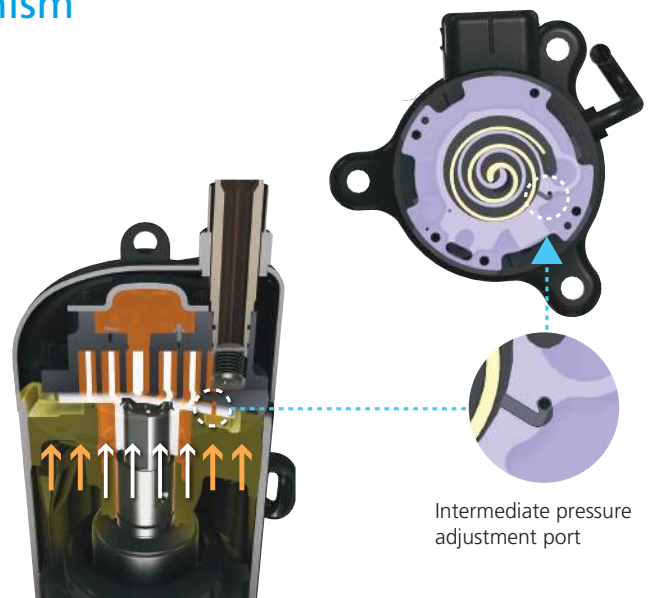
- Refrigerant leakage is minimized by a back pressure control mechanism that increases the efficiency during low-load operation.



Back pressure control mechanism

New intermediate pressure mechanism

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



Advanced Technologies

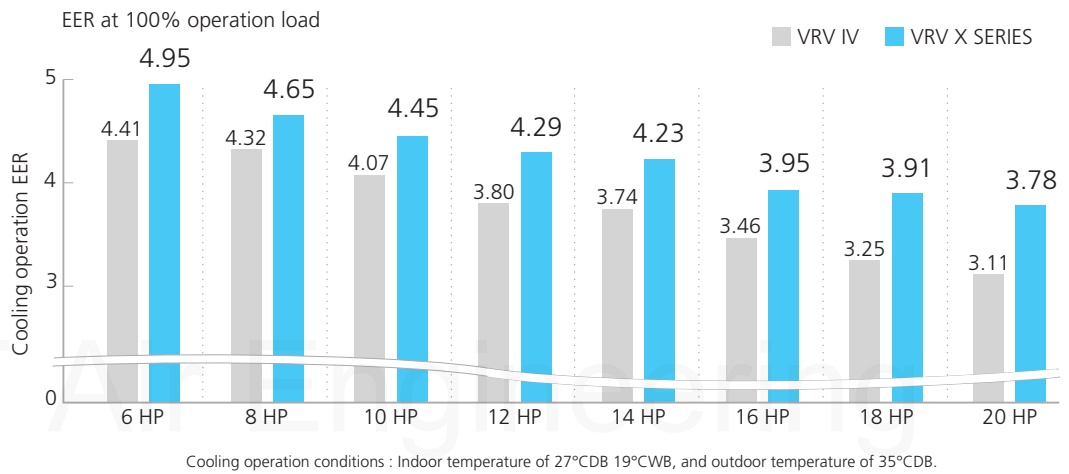
Advanced oil temperature control

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

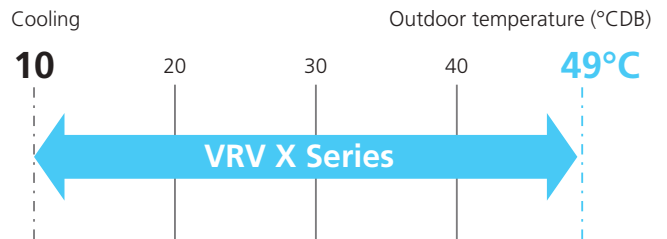
65.4%
Reduction

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

Higher efficiency is provided during rated operation



Extended operation range up to 49°C

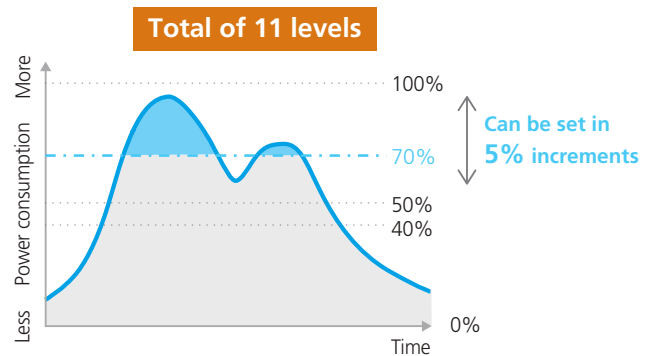


Note: When outdoor temperature falls below 10°C, the thermostat shuts OFF, the outdoor unit stops, and operation switches from cooling to fan operation.

I-demand function

Peak power cut-off can be accomplished according to each user situation.

* Set on the PCB of the outdoor unit.



* When set to 70% demand

High external static pressure

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

Automatic refrigerant charge function

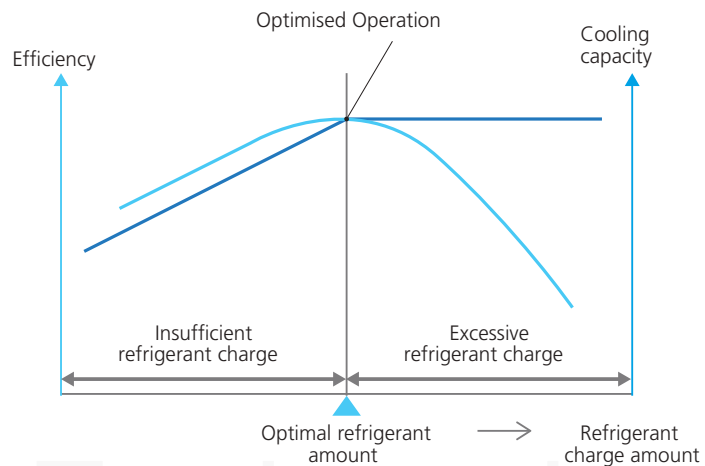
Contribute to optimised operation efficiency, higher quality and easier installation.

Optimised operation efficiency

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



Automatic Refrigerant Charge Function movie

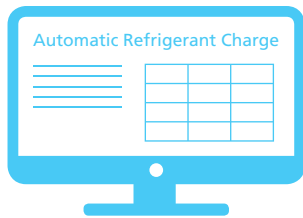


TT Air Engineering

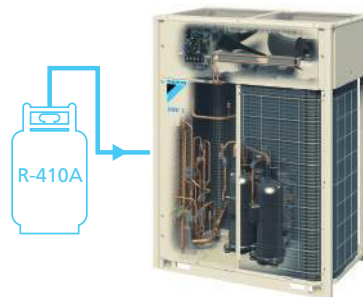
Higher quality and easier installation

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

1 Calculation of necessary refrigerant amount from design drawing



2 Pre-charge of refrigerant



3 Start of automatic refrigerant charge operation



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

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

Comfort & Reliability

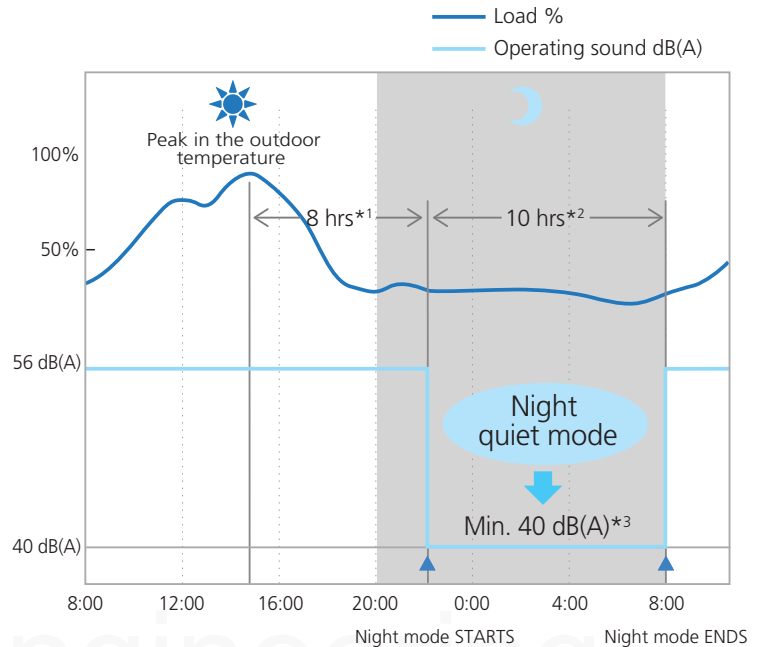
Comfort

Nighttime quiet operation function

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

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

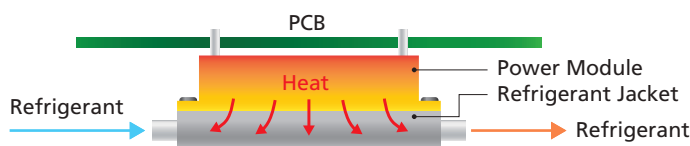
- Notes:
- This function is available in setting at site.
 - The operating sound in quiet operation mode is the actual value measured by our company.
 - The relationship of outdoor temperature (load) and time shown above is just an example.



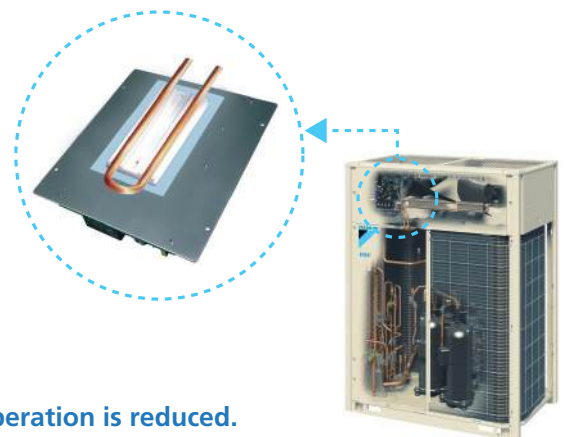
TT Air Engineering

Reliable and stable technology

High reliability at high ambient temperature



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



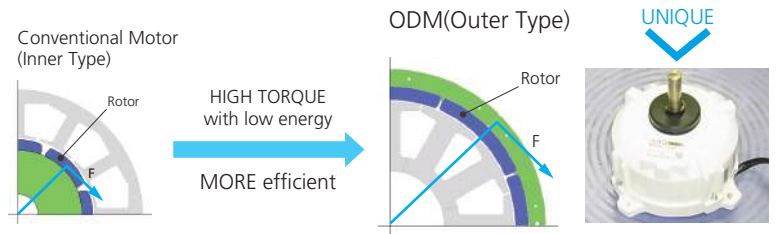
Control board failure ratio at stable operation is reduced.

This enables

- Suitability for high ambient temperatures
- Miniaturization of electronic components

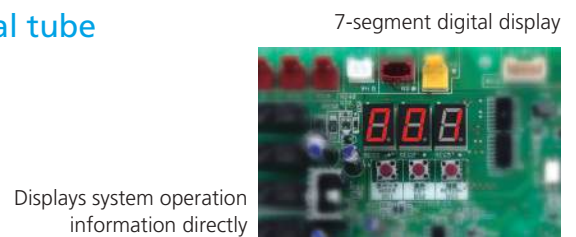
Outer rotor DC motor (ODM)

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



Function of information display by luminous digital tube

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

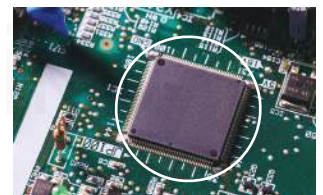
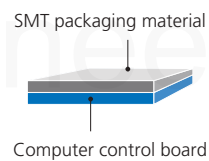


SMT* packaging technology

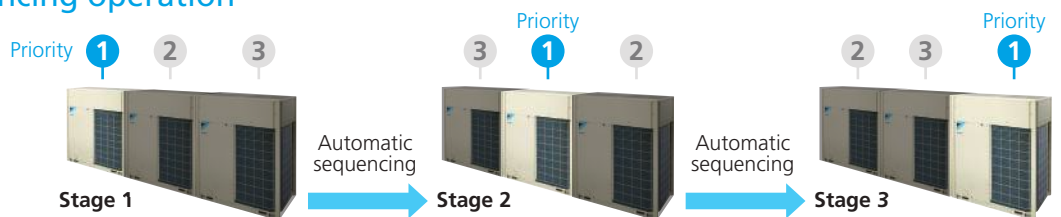
- Improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.

*SMT: Surface mounted technology

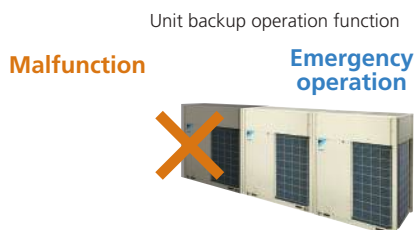
Computer control board surface adopting SMT packaging technology



Automatic sequencing operation



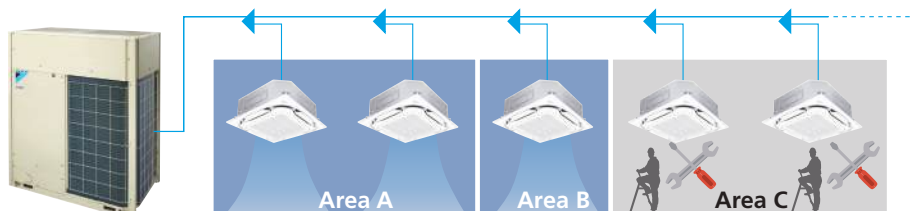
Double backup operation functions



* For single outdoor unit system RXUQ14-20AY1S models. On-site settings are required using the PCB of the outdoor unit.

Ease of maintenance

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



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

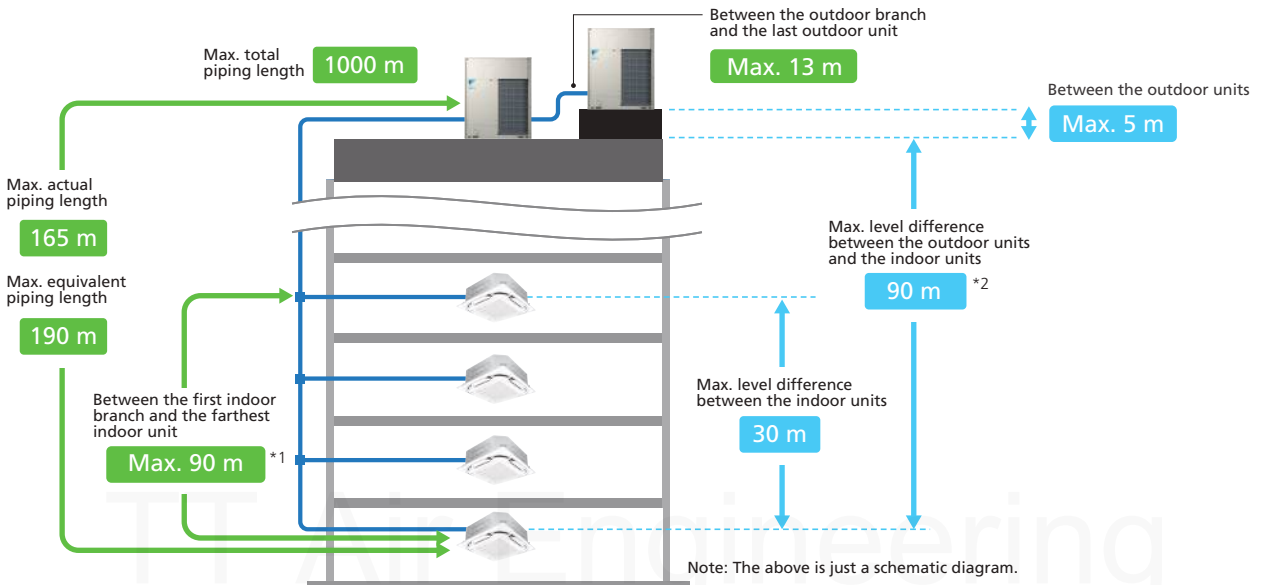
Flexible System Design

More options for installation location

Long piping length

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

Installation for VRV indoor units only



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

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

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

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio
50%–200%

Conditions of VRV indoor unit connection capacity

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

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

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

*Refer to page 25 for outdoor unit combination details.

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

Outdoor Unit Lineup

VRV X Series

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

Lineup

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

Outdoor unit combinations

For connection of VRV indoor units only

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

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

Anti-corrosion Technology

Heavy anti-corrosion model

VRV X MAX

RXUQ6-20AY1S(W)
RXUQ12-60AM(1)Y1S(W)



Maximize anti-corrosion and performance

Outer casing

Multi coating for extreme durability

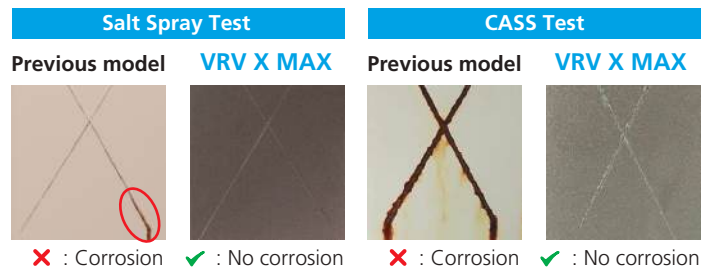
The hot-dip Zinc-Aluminum-Magnesium alloy coated sheet is optimised for even greater durability with an additional four-layer coating combination.



Anti-corrosion verification by accelerated test

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

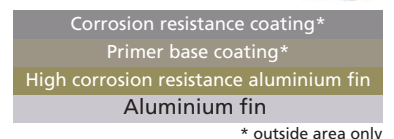
* The cross cut was made in order to simulate a severe case of coating damage and corrosion (not from regular usage).



Heat exchanger (Fin)

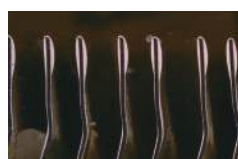
Anti-corrosion technology

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



High performance technology

New aluminum fins are 21% thicker to maintain performance.



Achieves both anti-corrosion and high efficiency

Automated fin coating line

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

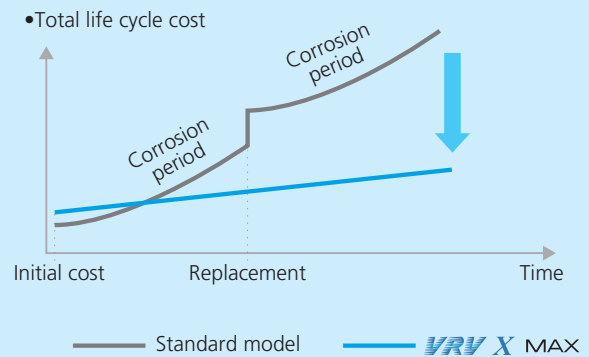
Maximize lifespan

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

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

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

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

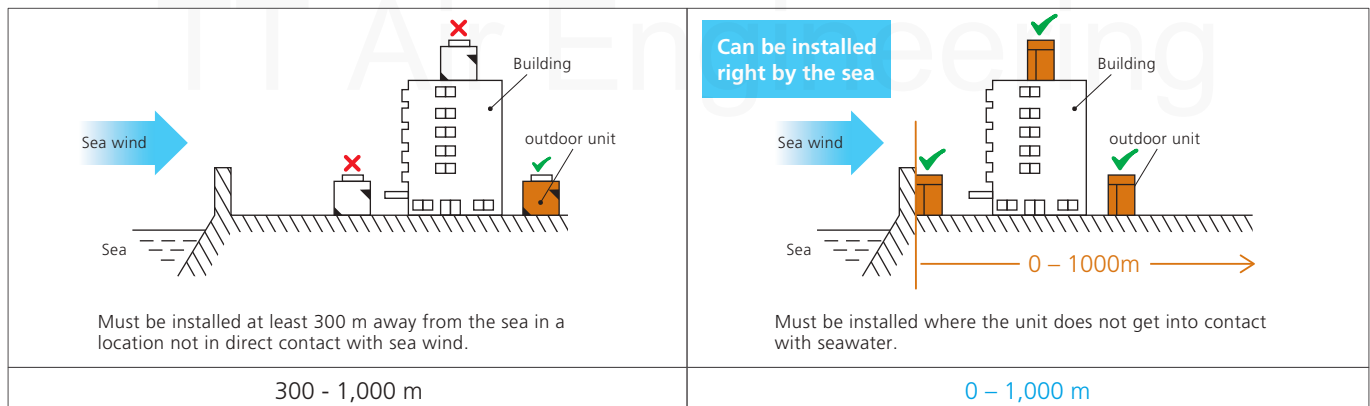


VRV X MAX

Built for seaside

Previous model: Anti-corrosion






VRV X MAX : Heavy Anti-corrosion




Specifications of anti-corrosion model

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

Specifications

												
MODEL			RXUQ6AY1S(W)	RXUQ8AY1S(W)	RXUQ10AY1S(W)	RXUQ12AY1S(W)	RXUQ14AY1S(W)	RXUQ16AY1S(W)	RXUQ18AY1S(W)	RXUQ20AY1S(W)		
Combination units			—	—	—	—	—	—	—	—		
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz									
Cooling capacity			Btu/h	54,600	76,400	95,500	114,000	136,000	154,000	171,000	191,000	
			Btu/h*	54,900	76,900	96,200	115,000	137,300	154,600	171,800	192,300	
			kW	16.0 / 16.1*	22.4 / 22.6*	28.0 / 28.2*	33.5 / 33.7*	40.0 / 40.3*	45.0 / 45.3*	50.0 / 50.4*	56.0 / 56.4*	
COP			4.95	4.65	4.45	4.29	4.23	3.95	3.91	3.78		
SEER* ¹			23.18	22.02	22.56	-	-	-	-	-		
EGAT Label No.5						-	-	-	-	-		
Power consumption			kW	3.23	4.82	6.29	7.81	9.46	11.4	12.8	14.8	
Capacity control			%	23-100	19-100	13-100	12-100	11-100	9-100	7-100		
Casing colour			Ivory white (5Y7.5/1) (Metallic brown* ²)									
Compressor			Type	Hermetically sealed scroll type								
			Motor output	kW	2.4x1	3.4x1	4.2x1	5.2x1	(3.4x1)+(2.9x1)	(3.4x1)+(3.9x1)	(3.7x1)+(4.3x1)	(4.9x1)+(4.2x1)
Airflow rate			m ³ /min	119	178	191	218	268	297			
Dimensions (HxWxD)			mm	1,657x930x765			1,657x1,240x765					
Machine weight			kg	185 (195* ²)		215 (235* ²)		275 (295* ²)		291 (316* ²)		
Sound level			dB(A)	54	56	58	59	62	65			
Operation range			°CDB	10 to 49								
Refrigerant			Type	R-410A								
			Charge	kg	6.4	6.6	8.3	8.5	9.7	9.8	11.7	
Piping connections			Liquid	φ 9.5 (Brazing)			φ 12.7 (Brazing)			φ 15.9 (Brazing)		
			Gas	φ 19.1 (Brazing)		φ 22.2 (Brazing)		φ 28.6 (Brazing)				





												
MODEL			RXUQ28AMY1S(W)	RXUQ30AMY1S(W)	RXUQ32AMY1S(W)	RXUQ34AMY1S(W)	RXUQ36AMY1S(W)	RXUQ38AMY1S(W)	RXUQ40AMY1S(W)			
Combination units			RXUQ12AY1S(W)	RXUQ12AY1S(W)	RXUQ12AY1S(W)	RXUQ14AY1S(W)	RXUQ16AY1S(W)	RXUQ18AY1S(W)	RXUQ20AY1S(W)			
Power supply			3-phase 4-wire system, 380-415 V, 50 Hz									
Cooling capacity			Btu/h	268,000	285,000	305,000	328,000	345,000	362,000	382,000		
			Btu/h*	269,500	286,800	307,400	329,800	246,300	363,400	383,900		
			kW	78.5 / 79.0*	83.5 / 84.1*	89.5 / 90.1*	96.0 / 96.7*	101 / 101.5*	106 / 106.5*	112 / 112.5*		
COP			4.07	4.05	3.96	3.95	3.84	3.84	3.87			
SEER* ¹			-	-	-	-	-	-	-			
EGAT Label No.5			-	-	-	-	-	-	-			
Power consumption			kW	19.2	20.6	22.6	24.3	26.2	27.6	29.6		
Capacity control			%	5-100			4-100					
Casing colour			Ivory white (5Y7.5/1) (Metallic brown* ²)									
Compressor			Type	Hermetically sealed scroll type								
			Motor output	kW	(5.2x1)+(3.4x1)+(3.9x1)	(5.2x1)+(3.7x1)+(4.3x1)	(5.2x1)+(4.9x1)+(4.2x1)	(3.4x1)+(2.9x1)+(4.9x1)+(4.2x1)	(3.4x1)+(3.9x1)+(4.9x1)+(4.2x1)	(3.7x1)+(4.3x1)+(4.9x1)+(4.2x1)	(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	
Airflow rate			m ³ /min	191+218	191+268	191+297	218+297	268+297	297+297			
Dimensions (HxWxD)			mm	(1,657x1,240x765)+(1,657x1,240x765)								
Machine weight			kg	215+275 (235+295* ²)		215+291 (235+316* ²)		275+291 (295+316* ²)		291+291 (316+316* ²)		
Sound level			dB(A)	62	63	66	67	68				
Operation range			°CDB	10 to 49								
Refrigerant			Type	R-410A								
			Charge	kg	8.5+9.8	8.5+11.7		9.7+11.7	9.8+11.7	11.7+11.7		
Piping connections			Liquid	φ 19.1 (Brazing)								
			Gas	φ 34.9 (Brazing)			φ 41.3 (Brazing)					


*Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB; *27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

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

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

											
RXUQ12AMY1S(W)	RXUQ14AMY1S(W)	RXUQ16AMY1S(W)	RXUQ18AMY1S(W)	RXUQ20AMY1S(W)	RXUQ18AM1Y1S(W)	RXUQ20AM1Y1S(W)	RXUQ22AMY1S(W)	RXUQ24AMY1S(W)	RXUQ26AMY1S(W)		
RXUQ6AY1S(W)	RXUQ6AY1S(W)	RXUQ8AY1S(W)	RXUQ8AY1S(W)	RXUQ8AY1S(W)	RXUQ6AY1S(W)	RXUQ6AY1S(W)	RXUQ10AY1S(W)	RXUQ12AY1S(W)	RXUQ12AY1S(W)		
RXUQ6AY1S(W)	RXUQ8AY1S(W)	RXUQ8AY1S(W)	RXUQ10AY1S(W)	RXUQ12AY1S(W)	RXUQ6AY1S(W)	RXUQ6AY1S(W)	RXUQ12AY1S(W)	RXUQ12AY1S(W)	RXUQ14AY1S(W)		
—	—	—	—	—	RXUQ6AY1S(W)	RXUQ8AY1S(W)	—	—	—		
3-phase 4-wire system, 380-415 V, 50 Hz											
109,000	131,000	153,000	172,000	191,000	164,000	186,000	210,000	229,000	251,000		
109,900	131,900	153,900	173,200	191,900	164,800	186,800	211,200	230,100	252,500		
32.0 / 32.2*	38.4 / 38.7*	44.8 / 45.1*	50.4 / 50.8*	55.9 / 56.3*	48.0 / 48.3*	54.4 / 54.8*	61.5 / 61.9*	67.0 / 67.5*	73.5 / 74.0*		
4.95	4.77	4.65	4.32	4.32	5.2	4.95	4.36	4.29	4.25		
-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-		
6.46	8.05	9.64	11.1	12.6	9.69	11.3	14.1	15.6	17.3		
11-100	10-100	9-100	8-100	7-100	8-100	7-100	6-100				
Ivory white (5Y7.5/1) (Metallic brown *2)											
Hermetically sealed scroll type											
(2.4x1)+(2.4x1)	(2.4x1)+(3.4x1)	(3.4x1)+(3.4x1)	(3.4x1)+(4.2x1)	(3.4x1)+(5.2x1)	(2.4x1)+(2.4x1)+(2.4x1)	(2.4x1)+(2.4x1)+(3.4x1)	(4.2x1)+(5.2x1)	(5.2x1)+(5.2x1)	(5.2x1)+(3.4x1)+(2.9x1)		
119+119	119+178	178+178		178+191	119+119+119	119+119+178	178+191	191+191	191+218		
(1,657x930x765)+(1,657x930x765)			(1,657x930x765)+(1,657x1,240x765)		(1,657x930x765)+(1,657x930x765)+(1,657x930x765)			(1,657x1,240x765)+(1,657x1,240x765)			
185+185 (195+195 *2)			185+215 (195+235 *2)		185+185+185 (195+195+195 *2)			215+215 (235+235 *2)			
57	58	59		60	59	60		61	62		
10 to 49											
R-410A											
6.4+6.4	6.4+6.6	6.6+6.6	6.6+8.3	6.6+8.5	6.4+6.4+6.4	6.4+6.4+6.6	8.3+8.5	8.5+8.5	8.5+9.7		
φ 12.7 (Brazing)			φ 15.9 (Brazing)							φ 19.1 (Brazing)	
φ 28.6 (Brazing)					φ 34.9 (Brazing)						

									
RXUQ42AMY1S(W)	RXUQ44AMY1S(W)	RXUQ46AMY1S(W)	RXUQ48AMY1S(W)	RXUQ50AMY1S(W)	RXUQ52AMY1S(W)	RXUQ54AMY1S(W)	RXUQ56AMY1S(W)	RXUQ58AMY1S(W)	RXUQ60AMY1S(W)
RXUQ12AY1S(W)	RXUQ12AY1S(W)	RXUQ12AY1S(W)	RXUQ12AY1S(W)	RXUQ12AY1S(W)	RXUQ12AY1S(W)	RXUQ14AY1S(W)	RXUQ16AY1S(W)	RXUQ18AY1S(W)	RXUQ20AY1S(W)
RXUQ12AY1S(W)	RXUQ12AY1S(W)	RXUQ14AY1S(W)	RXUQ16AY1S(W)	RXUQ18AY1S(W)	RXUQ20AY1S(W)	RXUQ20AY1S(W)	RXUQ20AY1S(W)	RXUQ20AY1S(W)	RXUQ20AY1S(W)
RXUQ18AY1S(W)	RXUQ20AY1S(W)	RXUQ20AY1S(W)	RXUQ20AY1S(W)	RXUQ20AY1S(W)	RXUQ20AY1S(W)	RXUQ20AY1S(W)	RXUQ20AY1S(W)	RXUQ20AY1S(W)	RXUQ20AY1S(W)
3-phase 4-wire system, 380-415 V, 50 Hz									
399,000	420,000	444,000	461,000	478,000	498,000	519,000	536,000	553,000	573,000
402,600	423,100	445,300	462,300	479,400	499,900	522,000	539,100	556,200	576,600
117 / 118*	123 / 124*	130 / 130.5*	135 / 135.5*	140 / 140.5*	146 / 146.5*	152 / 153*	157 / 158*	162 / 163*	168 / 169*
4.12	4.05	4.05	3.96	3.95	3.9	3.89	3.82	3.82	3.78
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
28.4	30.4	32.1	34.0	35.4	37.4	39.1	41.0	42.4	44.4
4-100	3-100								2-100
Ivory white (5Y7.5/1) (Metallic brown *2)									
Hermetically sealed scroll type									
(5.2x1)+(5.2x1)+(3.7x1)+(4.3x1)	(5.2x1)+(5.2x1)+(4.9x1)+(4.2x1)	(5.2x1)+(3.4x1)+(2.9x1)+(4.9x1)+(4.2x1)	(5.2x1)+(3.4x1)+(3.9x1)+(4.9x1)+(4.2x1)	(5.2x1)+(3.7x1)+(4.3x1)+(4.9x1)+(4.2x1)	(5.2x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(3.4x1)+(2.9x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(3.4x1)+(3.9x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(3.7x1)+(4.3x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)	(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)+(4.9x1)+(4.2x1)
191+191+268	191+191+297	191+218+297		191+268+297	191+297+297	218+297+297		268+297+297	297+297+297
(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)									
215+215+291 (235+235+316 *2)		215+275+291 (235+295+316 *2)			215+291+291 (235+316+316 *2)		275+291+291 (295+316+316 *2)		291+291+291 (316+316+316 *2)
65	66	67			68	69		70	
10 to 49									
R-410A									
8.5+8.5+11.7		8.5+9.7+11.7	8.5+9.8+11.7	8.5+11.7+11.7		9.7+11.7+11.7	9.8+11.7+11.7	11.7+11.7+11.7	
φ 19.1 (Brazing)									
φ 41.3 (Brazing)									

Note: *1. SEER official announced from EGAT

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

Option List

Outdoor units

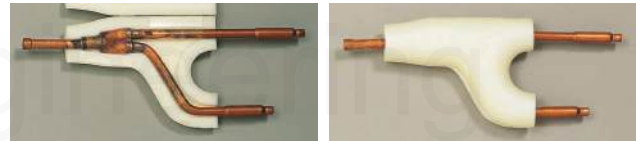
VRV X SERIES

No.	Type		RXUQ6A(W) RXUQ8A(W) RXUQ10A(W)	RXUQ12A(W) RXUQ14A(W) RXUQ16A(W) RXUQ18A(W) RXUQ20A(W)	RXUQ12AM(W) RXUQ14AM(W) RXUQ16AM(W) RXUQ18AM(W) RXUQ20AM(W)	RXUQ18AM1(W) RXUQ20AM1(W) RXUQ22AM(W)
	Item					
1	Distributive piping	REFNET header	KHRP26M22H, KHRP26M33H (Max. 4 branch) (Max. 8 branch)	KHRP26M22H, KHRP26M33H, KHRP26M72H (Max. 4 branch) (Max. 8 branch) (Max. 8 branch)		
		REFNET joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26A72T		
2	Outdoor unit multi connection piping kit		—			BHFP22P100

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

TT Air End

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



Option PCB


No.	Type		RXUQ6A(W) RXUQ8A(W)	RXUQ10A(W) RXUQ12A(W) RXUQ14A(W) RXUQ16A(W) RXUQ18A(W) RXUQ20A(W)	RXUQ12AM(W) RXUQ14AM(W) RXUQ16AM(W) RXUQ18AM1(W) RXUQ20AM1(W)	RXUQ18AM(W) RXUQ20AM(W)
	Item					
1	DIII-NET expander adaptor ★		DTA109A51			
2	External control adaptor ★		DTA104A61			
3	Home Automation Interface Adaptor ★		DTA116A51			
4	Option plate for control adaptor		—	BKS26A*1	—	BKS26A*1


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

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







































































VRV indoor units

 New lineup

 Indoor units subject to VRT smart control

 Indoor units subject to VRT control

 Streamer Technology

Category	Type	Model Name	Capacity Range	Capacity Index																			
				0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP					
				20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	400	500					
Ceiling Mounted Cassette	Round Flow Cassette with Sensing	FXFSQ-AVS 			●	●	●	●	●			●	●	●	●								
		FXFTQ-AVS 			●	●	●	●	●			●	●	●	●								
	Round Flow Cassette	FXFQ-AVS 			●	●	●	●	●			●	●	●	●								
		FXFRQ-AVS 			●	●	●	●	●			●	●	●	●								
	Compact Multi Flow Cassette	FXZQ-BV2S 																					
	Double Flow Cassette	FXCQ-BVMS 									●		●										
Single Flow Cassette	FXEQ-AV36			●	●	●	●	●	●														
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM			●	●	●	●	●	●													
	Slim Duct (Standard)	FXDQ-PDV2S (with drain pump) 		(700 mm width type)	●	●	●																
		FXDQ-PDVTS (without drain pump) 			●	●	●																
		FXDQ-NDV2S (with drain pump) 		(900/1,100 mm width type)				●	●	●													
		FXDQ-NDVTS (without drain pump) 						●	●	●													
	Bedroom Duct	FXDBQ-AVMS (with drain pump) 					●	●	●		●												
	Slim Duct (Compact)	FXDQ-SPV1			●	●	●	●	●	●													
	Middle Static Pressure Duct	FXSQ-PAVS 		●	●	●	●	●	●		●	●	●	●									
	Middle-High Static Pressure Duct	FXMQ-PAVS 		●	●	●	●	●	●		●	●	●	●									
	High Static Pressure Duct	FXMQ-MVES 															●	●					
FXMQ-PVM 																●	●						
Outdoor-Air Processing Unit	FXMQ-MFV1 															●		●	●				
	FXMQ-BFV2S 										●			●	●	●							
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB 								●		●											
	Ceiling Suspended	FXHQ-MAVS 				●			●			●											
		FXHQ-BVMS 															●	●					
Wall Mounted	FXAQ-AVMS 		●	●	●	●	●	●															
Floor Standing	Floor Standing	FXLQ-MAVE 		●	●	●	●	●	●														
	Concealed Floor Standing	FXNQ-MAVE 		●	●	●	●	●	●														
	Floor Standing Duct	FXVQ-NY1 														●		●	●	●	●		
FXVQ-NY16 (high static pressure type) 																					●		
Clean Room Air Conditioner	FXBQ-PVE 					●	●	●															
	FXBPQ-PVE 								●														
Heat Reclaim Ventilator with DX-Coil	VKM-GCVE		Airflow rate 500-1000 m3/h																				
Heat Reclaim Ventilator	VAM-HVE		Airflow rate 150-2000 m3/h																				
Air Handling Unit	AHUR		6-120 HP																				
Duct Streamer Chamber	BDEZ500A-VE		Airflow rate 80-5100 m3/h																				

* Optional part

Daikin Engineering Supports

VRV design and sales proposal assistance

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



Design assistance

For consultants and architects

Combines energy efficiency and comfort

Heat load calculation

CFD simulation to optimise outdoor unit layouts

Design flexibility

Heat load calculation

Model selection

Drawing materials support



Sales proposals

For air conditioning engineers and dealers

Heat load calculation

Model selection



Model selection software

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

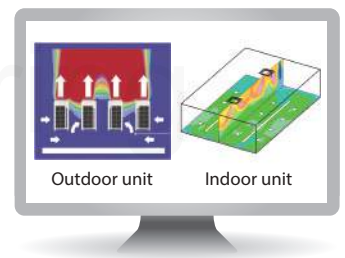
CADxpress



CFD simulation to optimise outdoor unit layouts

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

DT FLOW 2



New software for indoor airflow simulation will be coming soon.

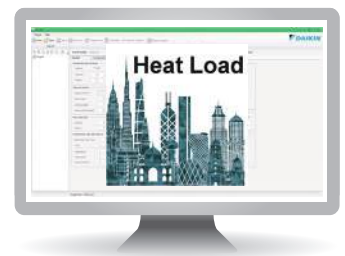
Indoor airflow simulation is a method for predicting temperature distribution and velocity distribution of indoor environment.

Heat load calculation

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

24-hour weather data for all major cities is based on data recorded from past years.

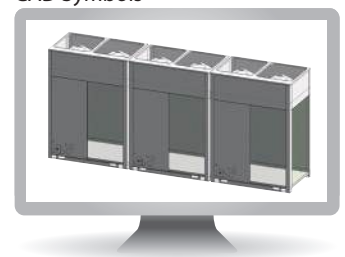
DS-HL2



Drawing supports

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

CAD Symbols



VRV User Benefits



For property OWNERS

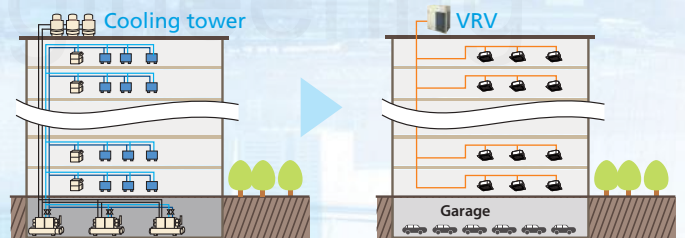
Energy saving & comfortable environment

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



Efficient space utilisation

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



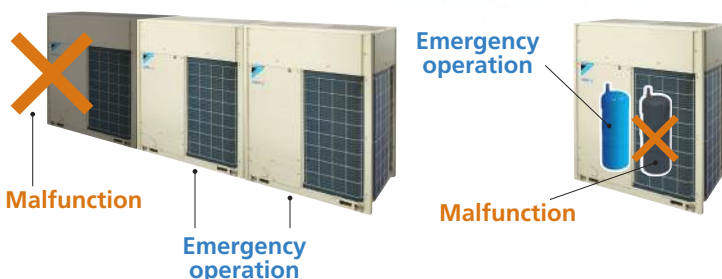
High reliability

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

Refrigerant piping



Print circuit board



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





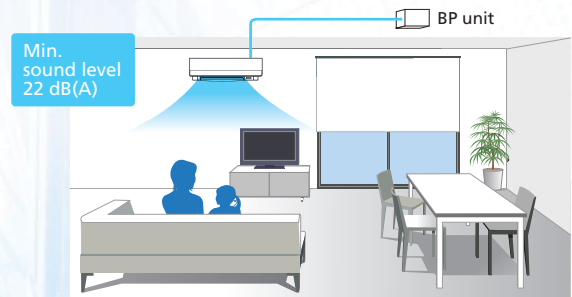
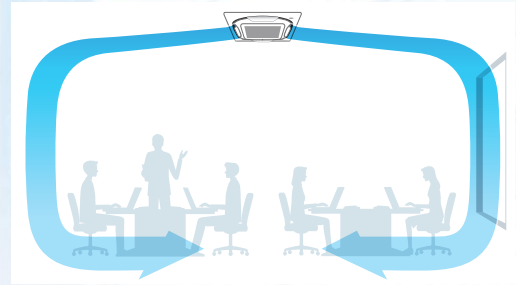
For USERS

Comfortable environment

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

Residential indoor units

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



For CONSULTANT and DESIGN OFFICES

Varied lineup of models

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

Long piping provides more flexible system design

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

Compatible with engineering software

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

Energy efficient

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



CADxpress



For INSTALLERS

Automatic refrigerant charge function

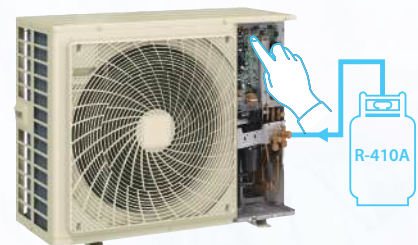
- Automates the charging of proper refrigerant amount to contribute to optimised operation efficiency, higher quality and easier installation.

Lightweight and compact large-capacity single units

- Easy to install and can be transported in elevators.

Simple piping, easy wiring

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





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.

Notice



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.



TIS 1529-2561

This product complies with TIS1529-2561 and covers the air conditioner total cooling capacity up to 18000 W.

SIAM DAIKIN SALES CO.,LTD.

22 Soi On Nut 55/1
Prawet Subdistrict, Prawet District
Bangkok 10250

Tel. 0-2838-3200
Fax. 0-2721-7607



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."