DAIKIN

Perfecting the Air

PCTVVN2501

Exceptional Performance in More Reliable and Compact Structure

VRV A SERIES

RXQ8-60BYM

R-410A

Cooling Only 50 Hz

Benefits for Everyone Involved

Upgraded Casing

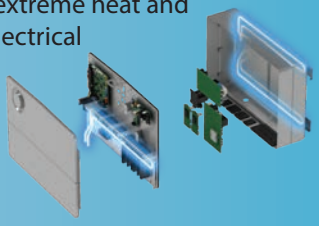
Saves more space with the new casing for large-capacity single module.
Reduces the lifecycle cost with more compact combination.

Saves More Energy

Enhanced energy efficiency during actual operation (low load) with a new compressor and VRT Smart II control.

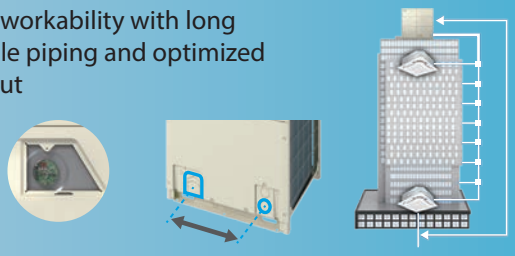
Durable, Stable, Reliable

Operates optimally even in extreme heat and humidity with IP55 sealed electrical component box, expanded operation temperature range, and backup operations



Flexible Design & Easy Installation

Improves workability with long and flexible piping and optimized parts layout



VRV A SERIES

Next Generation ***VRV*** System

New ***VRV*** A series has achieved significant energy savings with improved technology. In a design that is more compact and lightweight, 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.

VRV A series provides higher benefits to various users related to air conditioning systems, for example, building owners, consultants, installers and building managers.

Lifecycle Cost & Comfort

Large-capacity Single Module

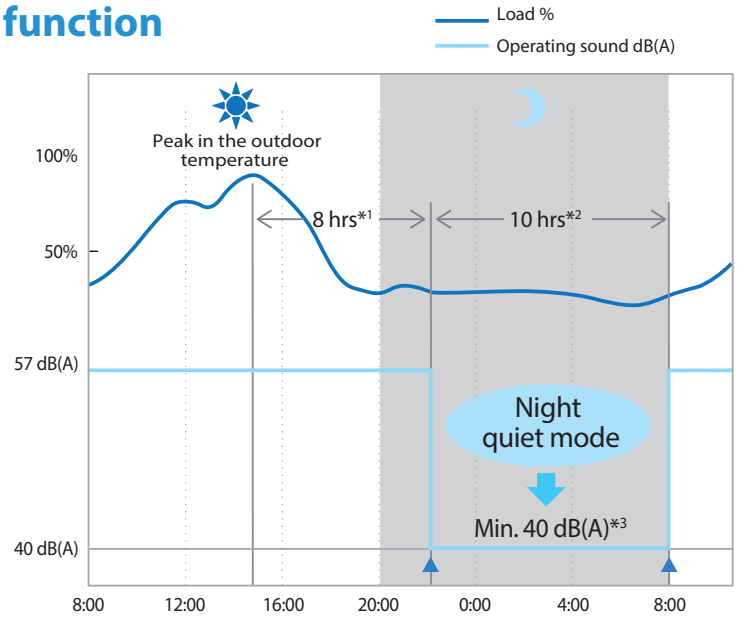
• Installation space and cost are reduced by large–capacity casing for max. 26 HP.

Energy Saving Technology

• Further improvement of energy saving by high efficiency compressor and VRT Smart II control.

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.



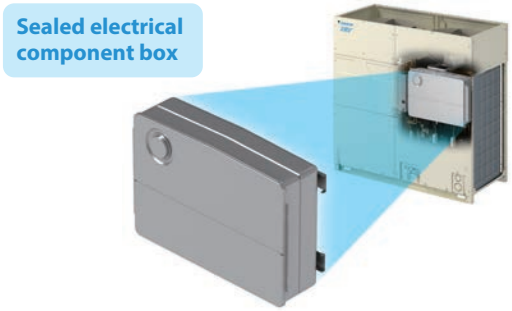
VRV User Benefits

For BUILDING MANAGERS

Reliability & Comfort

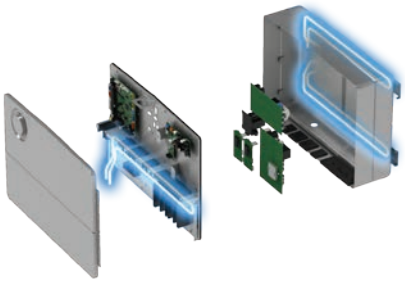
IP55 Sealed Component Box

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



Refrigerant Piping Cooling System

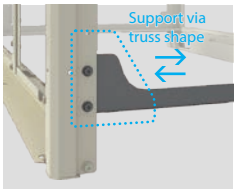
- Refrigerant cooling circuit enables operation in high outdoor temperatures.



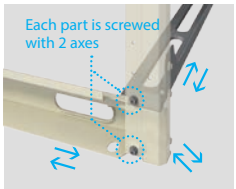
New reinforced design

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

1 Minimises horizontal wobbling



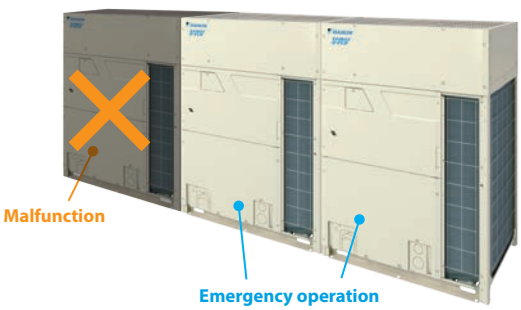
2 Minimises vibration from various angles



Backup operation function

If malfunction occurs in an outdoor unit, the backup operation is supported. (Only for multiple outdoor units)

Unit backup operation function

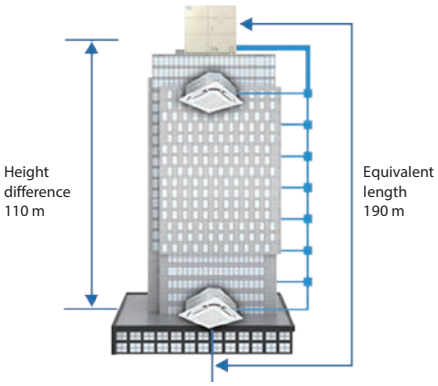


For CONSULTANTS

Flexible Design & Engineering Support

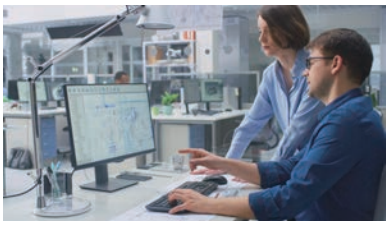
Long Refrigerant Piping

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



Engineering Support

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



Model Selection

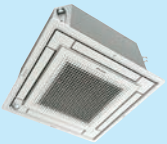
BIM Support and Tools

Analysis and Simulation

Varied Lineup of Indoor Units

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

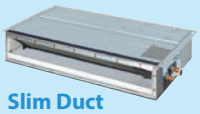
Round Flow Cassette



Compact Multi Flow Cassette

Single Flow Cassette

Middle Static Pressure Duct



Slim Duct

Ceiling Suspended

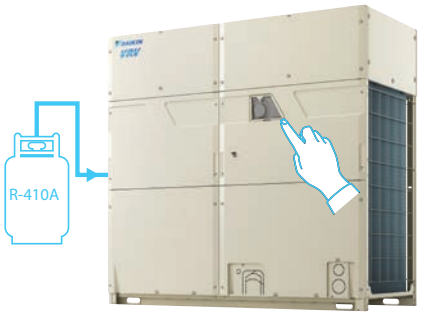
Wall Mounted

For INSTALLERS

Easy Installation

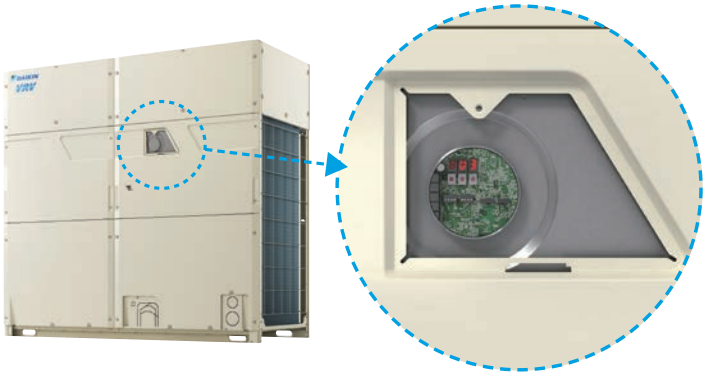
Automatic refrigerant charging

- Workflow has been redesigned to reduce number of operations on-site, shortening the average time needed for refrigerant charge and test run.



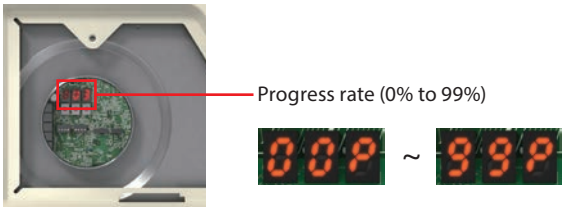
Electrical Component Service Window

- 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.



Large-capacity Single Module

- Installation space and cost are reduced by large–capacity casing for max. 26 HP.

New Casing

Offers advanced design and new structure with excellent workability.
New large single unit for 22, 24, 26 HP in addition to the conventional combination of two casings.

RXQ8,10,12BYM

RXQ14,16,18,20BYM

RXQ22,24,26BYM

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

Outdoor unit combination

System capacity		Number of units	Single module (HP)									
HP	kW		8	10	12	14	16	18	20	22	24	26
8	22.4	Single	●									
10	28.0			●								
12	33.5				●							
14	40.0					●						
16	45.0						●					
18	50.0							●				
20	56.0								●			
22	61.5									●		
24	67.0										●	
26	73.0											●
28	78.5	Double			●		●					
30	83.5				●			●				
32	89.5				●				●			
34	95.0						●	●				
36	100							●●				
38	106							●	●			
40	112								●●			
42	117							●			●	
44	123							●				●
46	129								●			●
48	134									●		●
50	140										●	●
52	146											●●
54	150	Triple						●●●				
56	156							●●	●			
58	162							●	●●			
60	168								●●●			

Large capacity single-module

The new large single unit casing reduces installation cost and space.

Conventional Model

VRV A SERIES

26 HP

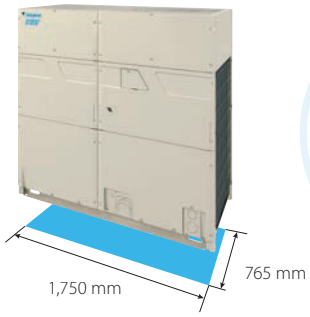
Installation space **1.68 m²**

Machine weight **400 kg**

New Model

VRV A SERIES

26 HP



Installation space **1.34 m²**

Machine weight **354 kg**

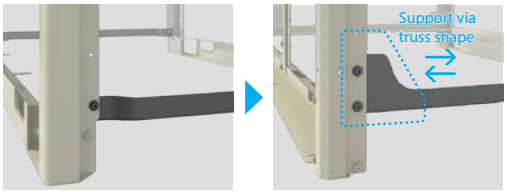
Installation space **20%** less

Machine weight **11%** less

New reinforced design

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

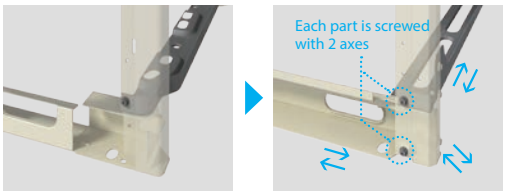
1 Minimises horizontal wobbling



Conventional models

VRV A SERIES

2 Minimises vibration from various angles



Conventional models

VRV A SERIES

Energy Savings

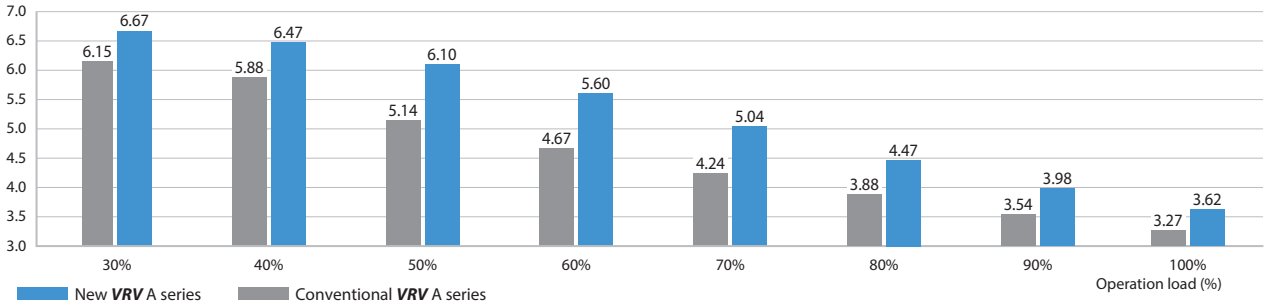
High Integrated Energy Efficiency Ratio EER (TCVN13256: 2021)

New ***VRV*** A series improves energy efficiency during actual operation (low load), equipped with a new compressor and VRT Smart II control.

Outdoor unit	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP	22 HP	24 HP	26 HP
EER (TCVN13256: 2021)	5.50	5.41	5.11	5.29	4.94	4.97	4.80	4.84	4.75	4.57

EER at low load factor are improved to achieve higher EER (TCVN13256: 2021)

EER (Rated: Cooling operation) for 18 HP model



What is EER (TCVN13256: 2021)?

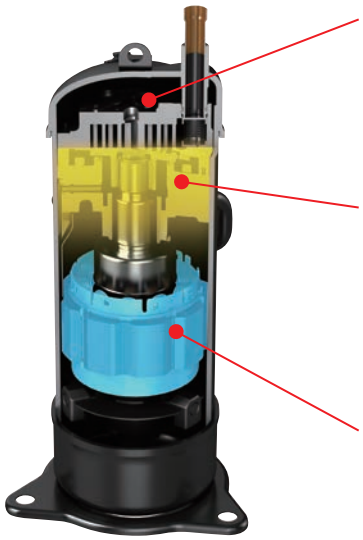
According to TCVN13256: 2021 issued by the Ministry of Science and Technology of Vietnam, EER (Energy Efficiency Ratio) is the index to describe the energy saving levels of ***VRV*** system. EER (TCVN13256: 2021) is calculated according to the following formula:

$$EER\ (TCVN13256{:}\ 2021) = 0.01 \times \frac{\phi 100\%}{P_{100\%}} + 0.42 \times \frac{\phi 75\%}{P_{75\%}} + 0.45 \times \frac{\phi 50\%}{P_{50\%}} + 0.12 \times \frac{\phi 25\%}{P_{25\%}}$$

$\phi n\%$: Cooling capacity at n% heat load (kW)
$Pn\%$: Input power at n% heat load (kW)

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

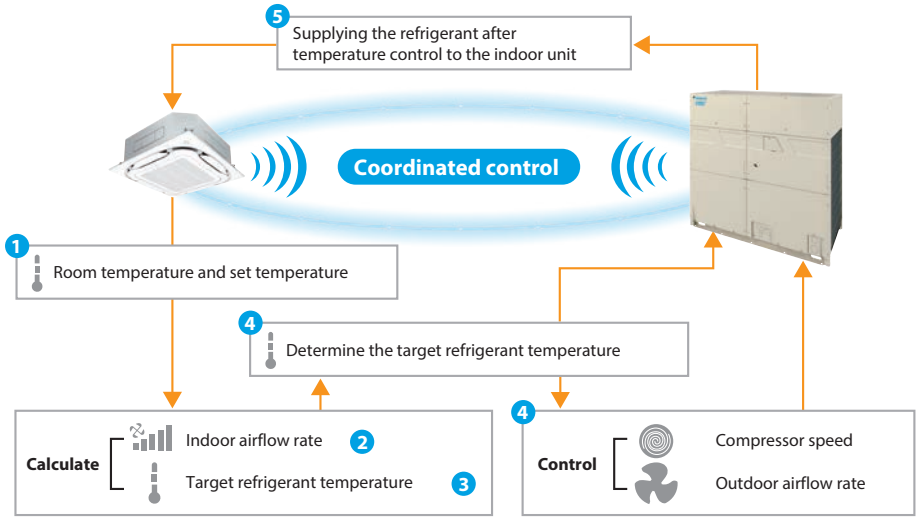
In addition to the conventional intermediate pressure adjustment port, the pressing pressure of the orbiting scroll during operation has been optimised, and the newly adopted oil control mechanism has reduced gas leakage and mechanical loss.

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.

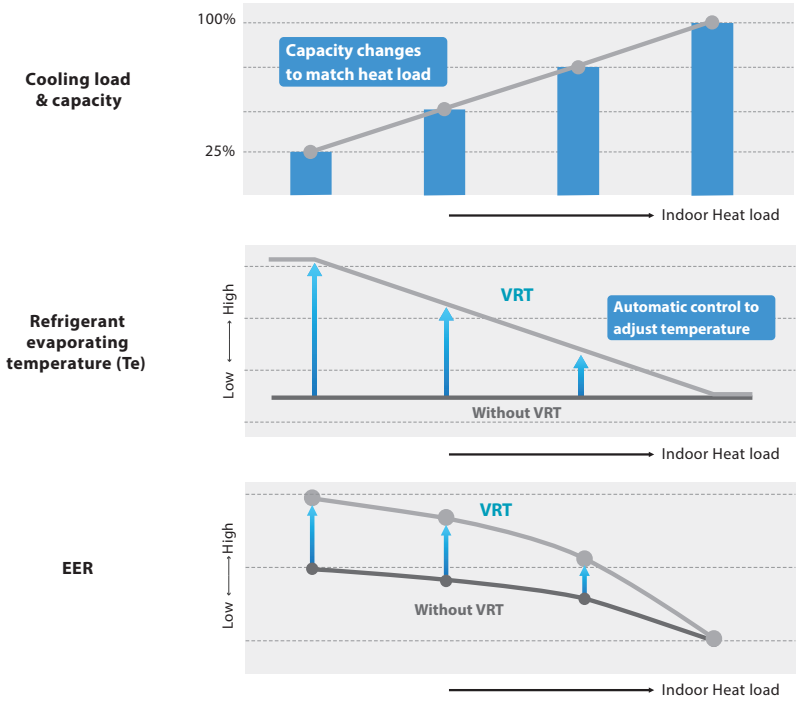
Software technology VRT Smart II control

Optimal supply exactly meets the required capacity of indoor units



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

Greatly improved efficiency by adjusting the capacity by the refrigerant temperature



Required capacity changes according to indoor heat load.

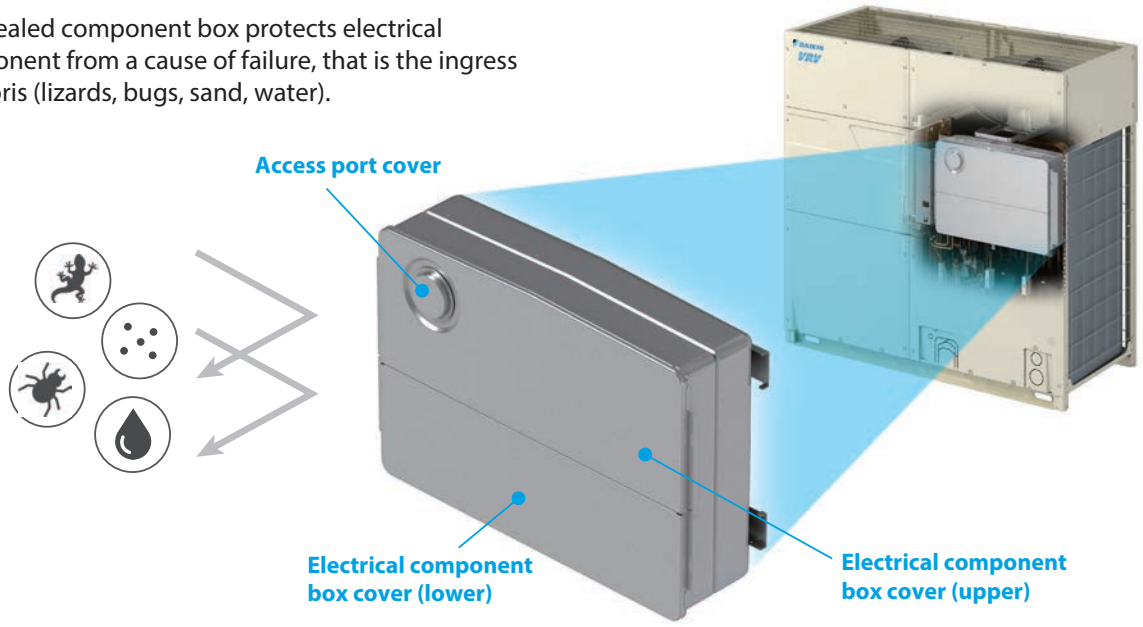
Automatic control adjusts refrigerant evaporating temperature to heat load change.

Reduction of excessive cooling and thermal losses increase EER.

Reliability

IP55-compliant sealed component box

IP55 sealed component box protects electrical component from a cause of failure, that is the ingress of debris (lizards, bugs, sand, water).




Electrical component box


Electrical component mounting plate


PCB

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

What is IP55?

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

IP55

Liquid ingress protection **Grade 5**

Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.

Solid particle protection **Grade 5**

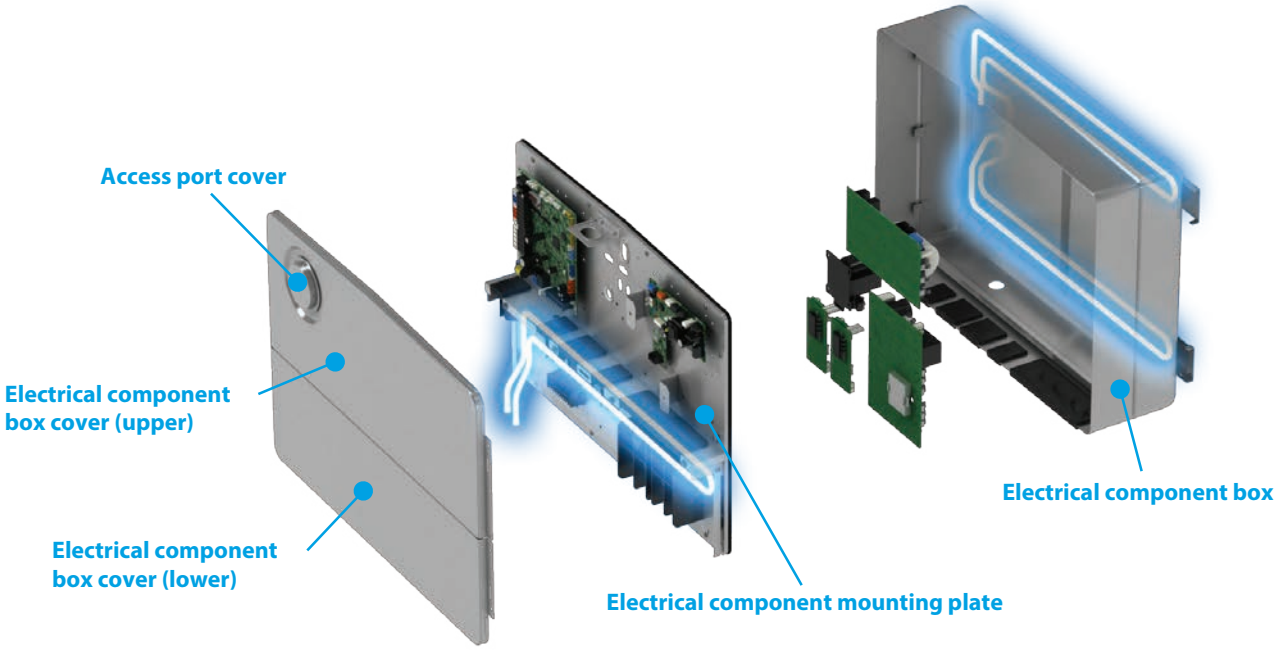
Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment.

Ingress Protection

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

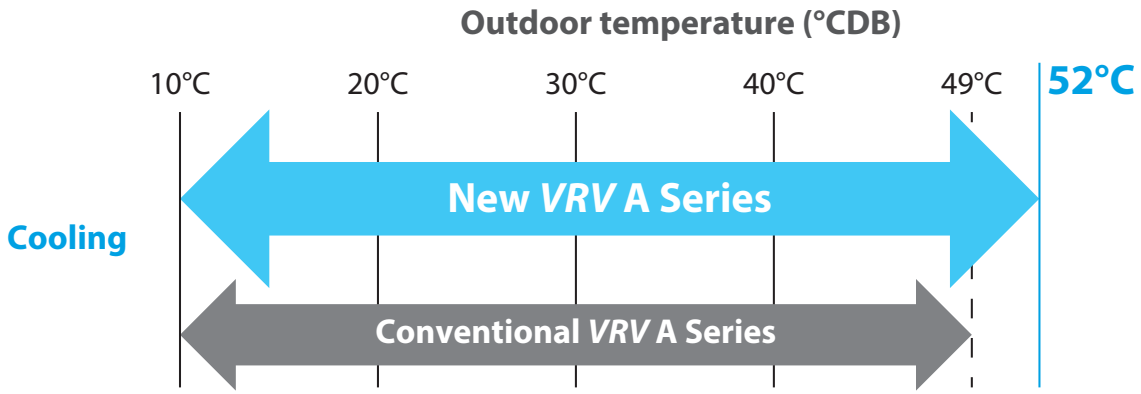
Enables operation in high outdoor temperature

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



Expanded operation temperature range

The outdoor operation temperature range is now extended from 49 to 52°C. This enables reliable operation even under high temperature conditions and a wider choice of installation locations.



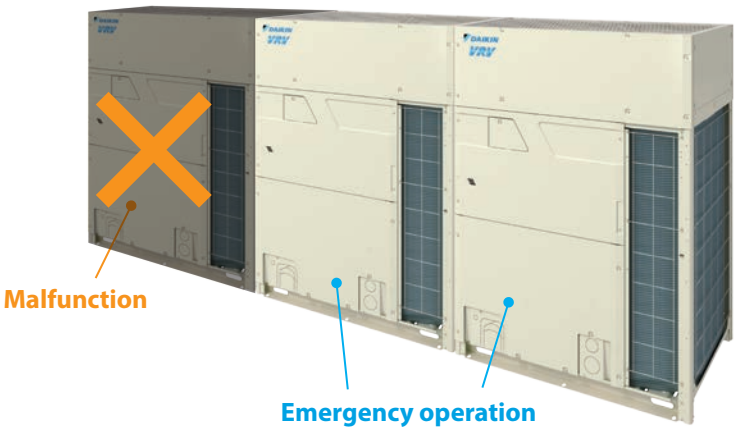
Note: If the height difference between the outdoor units and the indoor units exceeds 90 m, the operating temperature range is up to 49°C (Outdoor units above indoor units only).

Comfort

Backup operation function

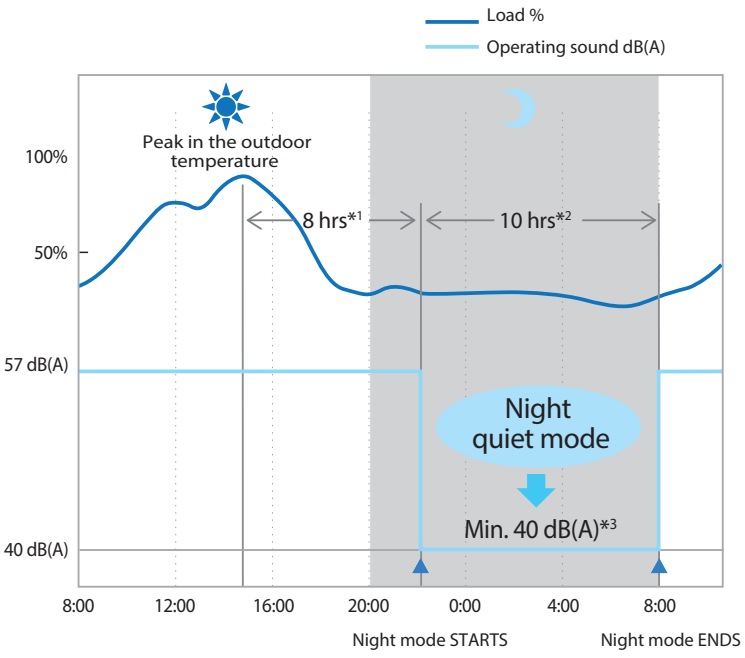
If malfunction occurs in an outdoor unit, the backup operation is supported.
(Only for multiple outdoor units)

Unit 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.



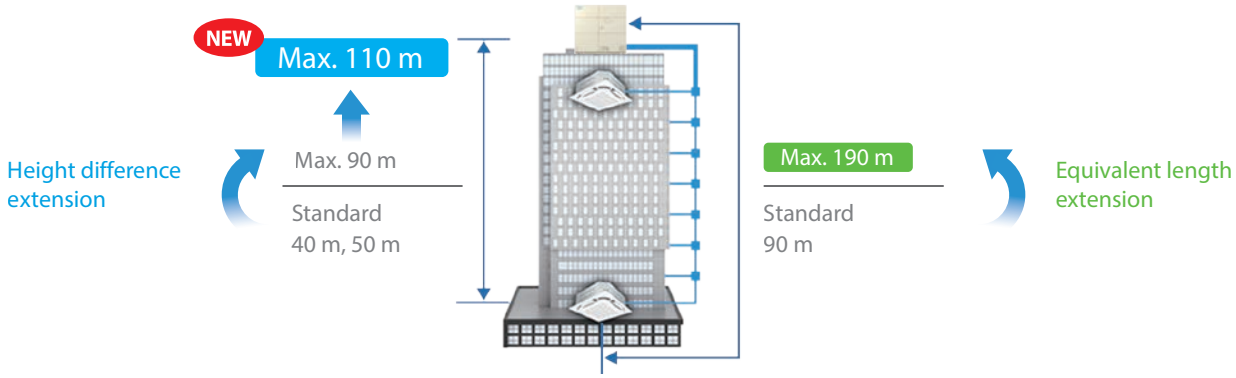
*1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.
*2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.
*3. In case of 8-12 HP outdoor unit.
14-26 HP outdoor unit can maintain ≥ 30% of the rated capacity with the sound < 44 dB(A).

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

Design Flexibility

Simultaneous extension of height difference and equivalent length

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



- **Height difference extension** Max. 110 m

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

  The operating temperature range is up to 49°C (Outdoor units above indoor units only).
  The minimum connection capacity index of the indoor unit shall be 62.5 or more (Outdoor units above indoor units only).

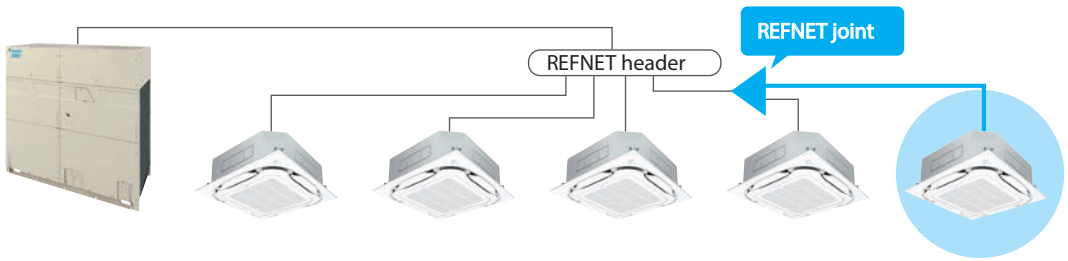
- **Equivalent length** Max. 190 m

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

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

REFNET header downstream branching supported

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

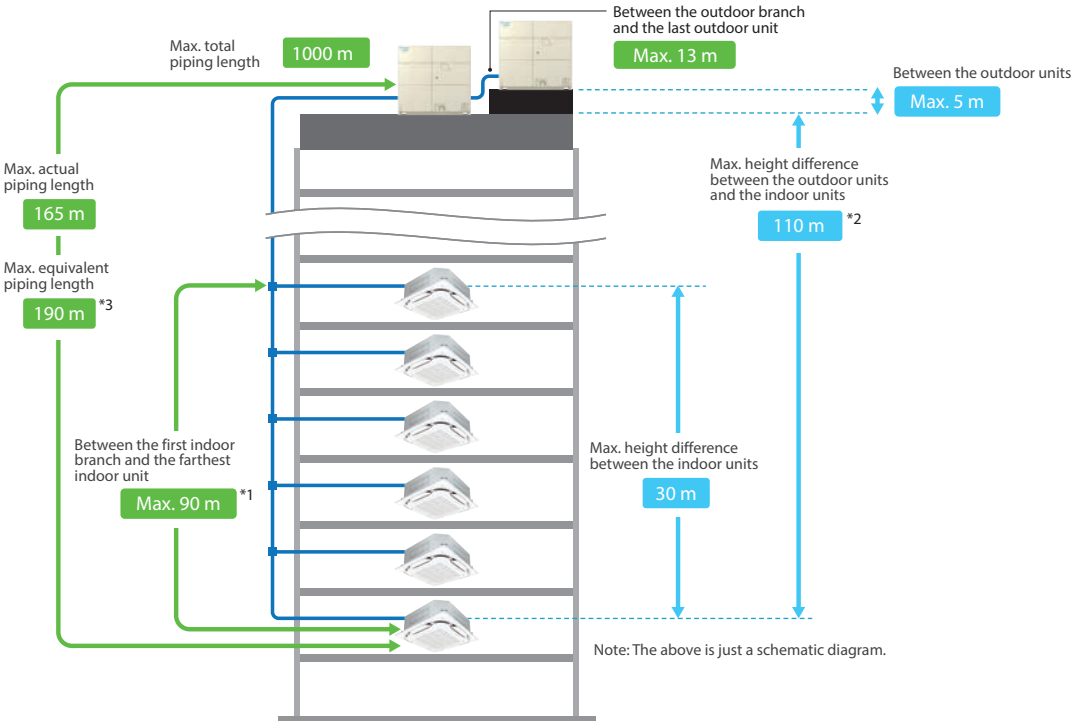


REFNET header	Indoor unit total capacity at REFNET joint
KHRP26M22H,KHRP26M33H,KHRP26M72H	< 50
KHRP26M73H + KHRP26M73HP	≤ 140

Design Flexibility

Long piping length

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



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

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

Connection ratio

Connection capacity at maximum is 200%.

Connection ratio 50%– 200%

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

Conditions of ***VRV*** indoor unit connection capacity

Applicable ***VRV*** indoor units		Indoor units: When using only the following models (FXAQ, FXB(P)Q, FXD(S)Q, FXDBQ, FXSQ, FXMQ-PA)	Indoor units: Including at least one of the following models (FXF(T)(R)Q25A*1, FXVQ)	Indoor units: Including at least one of the following models (FXFSQ25/50C)	Other ***VRV*** indoor unit models
Single outdoor units	8 - 20 HP	200%	130%	105%	200%
	22 - 26 HP				180%
Double outdoor units					160%
Triple outdoor units					130%

*1 FXF(T)(R)Q-A models 32 class and above belong to "Other ***VRV*** indoor unit models" category.
Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.
*Refer to the Engineering Data Book for max. connection ratio when Outdoor-Air Processing Unit is connected.
*Refer to page 21 for outdoor unit combination details.

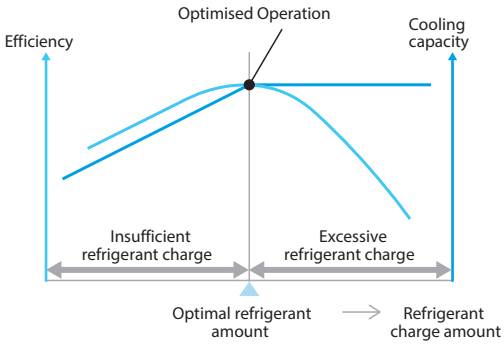
Easy Installation

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.



Reduced time for automatic charging operation

By designing optimal control, the average time has been shortened by 22% (14 min), and the number of on-site operations has been reduced.

Operation time
22% less

Conventional models

Test run is performed after automatic refrigerant charging is finished

Total of 11 steps, PCB setting: 5 times
Total time: Average of 65 min

Automatic refrigerant charging (Average of 45 min)

- Control before start-up (2 min)
- Cooling start-up (3 min)
- Wait for cooling stabilization (10 min)
- Refrigerant charging operation (30 min)
- Stop

Test run (Average of 20 min)

- Control beforestart-up (5 min)
- Cooling start-up (3 min)
- Wait for cooling stabilization (5 min)
- Transmission judgement / stop valve check (2 min)
- Pipe length judgement (2 min)
- Pump down (1 min)
- Wait for stop (2 min)
- Stop

New *VRV* A models

Automatic refrigerant charging and test run are performed at the same time

Reduction to 6 steps, PCB setting: 3 times
Total time: Average of 51 min

Automatic refrigerant charging (Average of 51 min)

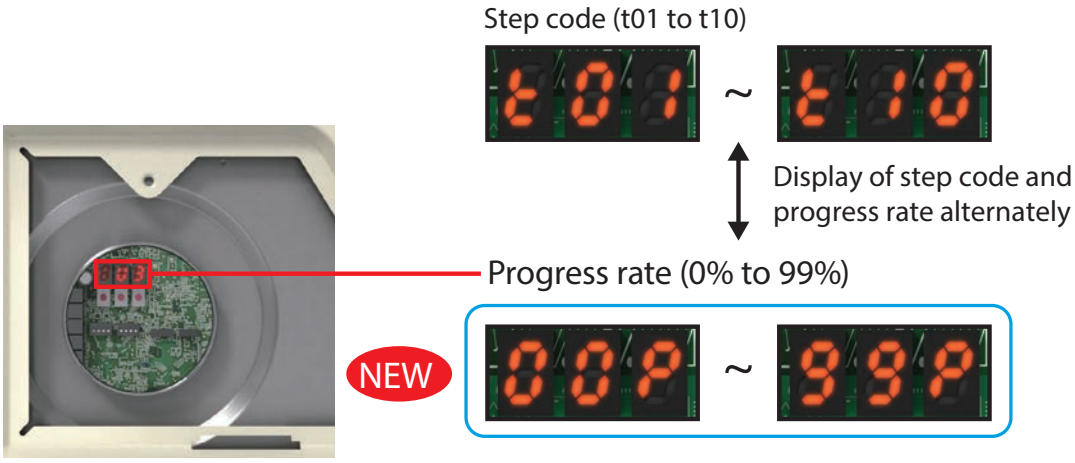
- Control before start-up (5 min)
- Cooling start-up (3 min)
- Wait for cooling stabilization + Transmission judgement / stop valve check (10 min)
- Refrigerant charging operation + Pipe length judgement (30 min)
- Pump down (1 min)
- Wait for stop (2 min)
- Stop

Easy Installation

Process visualization (Test run only*)

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

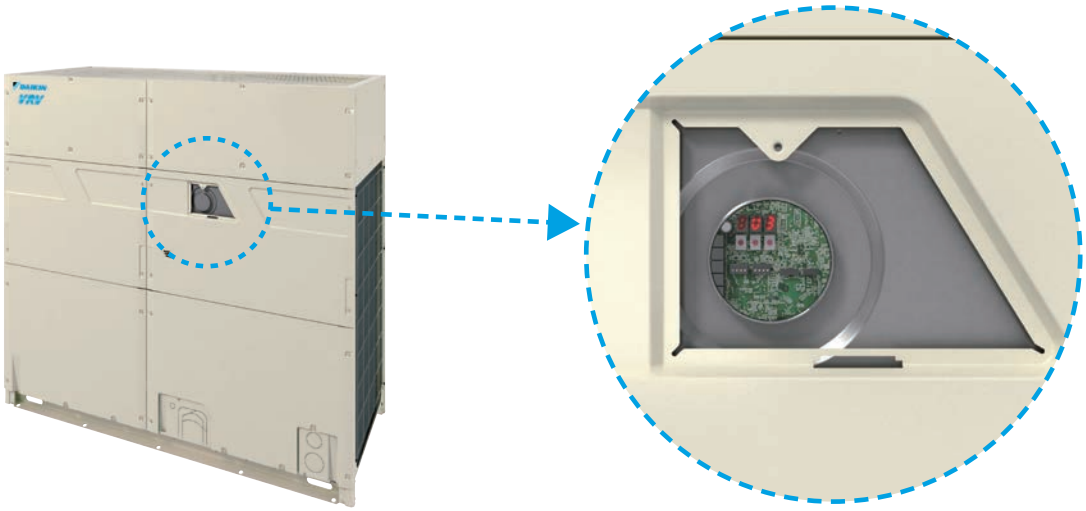
* Effective when test run is carried out independently after manual refrigerant charging.



Electrical component service window

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

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



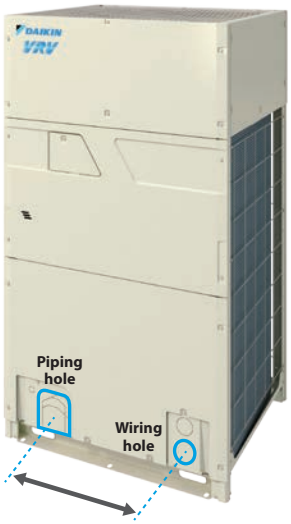
Improved refrigerant piping workability

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

Conventional models

Working in closed place is difficult

VRV A SERIES



Work becomes easier with sufficient space

Engineering Support

Design assistance and sales proposal

By providing not only excellent products but also engineering support, Daikin helps consultants and architects select ***VRV*** systems more appropriately and easily to enable more efficient operation and function.

Model Selection

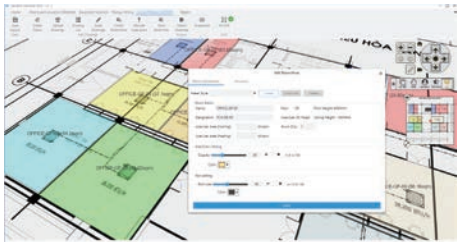
BIM Support and Tools

Analysis and Simulation

Model Selection

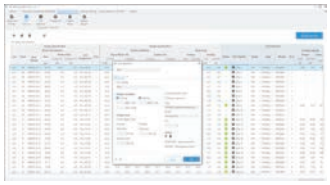
DK-BIM-Heat Load Calculation

Part of our support is the heat load calculation function based on the ASHRAE RTS method. After scanning the building drawing, this feature measures, creates rooms, and sets structures to greatly reduce calculation work.
Setting individual equipment load, occupancy, and outdoor air load for each room is also possible.
The calculation results then assist in equipment selection.

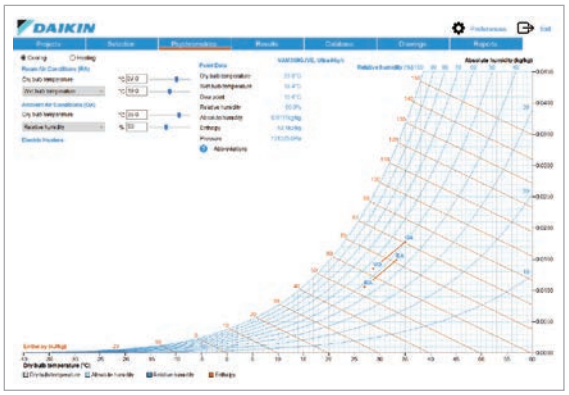


DK-BIM-Model Selection for Air Conditioner

From residential air conditioners to ***VRV*** systems and packaged air conditioners, nearly all air conditioner types can be selected.
Not only can you choose between automatic selection based on heat load calculation results and manual selection where you specify the model, you can also verify pipe sizes, create piping and wiring diagrams, and select central control devices.
In addition to report format, selection results can output piping and wiring diagrams to CAD.



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.

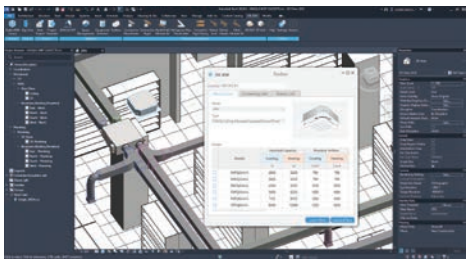
BIM Support and Tools

Daikin BIM Library

Daikin has recently launched the Daikin BIM Library. This provides total BIM support with 3D Revit Data, 2D CAD symbols, and product information such as specification sheets.

DK-BIM Revit Plug-In

This shows an add-on software for Autodesk's Revit. A download of the Revit family provides comprehensive support for the design of Daikin products in Revit for performing layouts and piping drawings.
It also works with DK-BIM, allowing integration with room volumes in Revit, heat load calculations in DK-BIM, and equipment selection results.

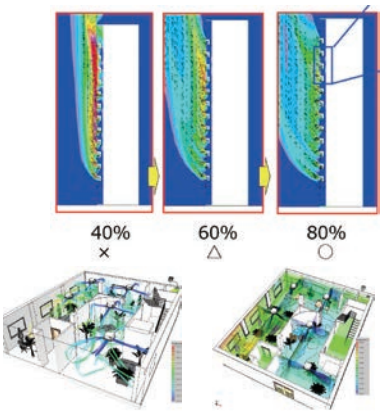


Analysis and Simulation

Airflow Simulation

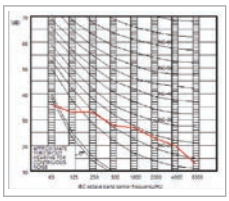
Outdoor airflow analysis software (DT-FLOW2)
Simulates the short circuit of the outdoor unit and uses it as a reference for optimal installation. Creates model of the property with Filder Cube (equipment CAD software), calculates with IconCFD (analysis software), and automatically outputs the report.

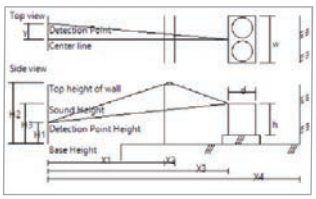
Indoor air environment analysis service
Provides simulation results for temperature, humidity, CO_2, dust, and air age in the target area.



Outdoor Unit Sound Calculation (DACCS-NIS)

Depending on the installation conditions of the equipment, it simulates the operating sound of the outdoor unit that can be heard at any position, which is useful for appropriate soundproofing measures on site.





Energy Simulation Support

A simulation service using QSP software to provide simple proposals by relatively comparing the annual energy efficiency of systems.
Based on meteorological data from cities around the world,
this service calculates the annual electricity bills of residential air conditioning, SkyAir, and ***VRV***, effectively promoting the energy-saving benefits of ***VRV***.

Outdoor Unit Lineup

Capacity range from 8 to 60 HP

Lineup

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

Outdoor unit combinations

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
8	22.4	200	RXQ8B	RXQ8B	–	100 to 260 (400)	13 (20)
10	28.0	250	RXQ10B	RXQ10B	–	125 to 325 (500)	16 (25)
12	33.5	300	RXQ12B	RXQ12B	–	150 to 390 (600)	19 (30)
14	40.0	350	RXQ14B	RXQ14B	–	175 to 455 (700)	22 (35)
16	45.0	400	RXQ16B	RXQ16B	–	200 to 520 (800)	26 (40)
18	50.0	450	RXQ18B	RXQ18B	–	225 to 585 (900)	29 (45)
20	56.0	500	RXQ20B	RXQ20B	–	250 to 650 (1,000)	32 (50)
22	61.5	550	RXQ22B	RXQ22B	–	275 to 715 (990)	35 (49)
24	67.0	600	RXQ24B	RXQ24B	–	300 to 780 (1,080)	39 (54)
26	73.0	650	RXQ26B	RXQ26B	–	325 to 845 (1,170)	42 (58)
28	78.5	700	RXQ28B	RXQ12B + RXQ16B	BHFP22R135	350 to 910 (1,120)	45 (56)
30	83.5	750	RXQ30B	RXQ12B + RXQ18B		375 to 975 (1,200)	48 (60)
32	89.5	800	RXQ32B	RXQ12B + RXQ20B		400 to 1,040 (1,280)	52 (64)
34	95.0	850	RXQ34B	RXQ16B + RXQ18B		425 to 1,105 (1,360)	55 (64)
36	100	900	RXQ36B	RXQ18B × 2		450 to 1,170 (1,440)	58 (64)
38	106	950	RXQ38B	RXQ18B + RXQ20B		475 to 1,235 (1,520)	61 (64)
40	112	1,000	RXQ40B	RXQ20B × 2		500 to 1,300 (1,600)	64 (64)
42	117	1,050	RXQ42B	RXQ18B + RXQ24B		525 to 1,365 (1,680)	
44	123	1,100	RXQ44B	RXQ18B + RXQ26B		550 to 1,430 (1,760)	
46	129	1,150	RXQ46B	RXQ20B + RXQ26B		575 to 1,495 (1,840)	
48	134	1,200	RXQ48B	RXQ22B + RXQ26B		600 to 1,560 (1,920)	
50	140	1,250	RXQ50B	RXQ24B + RXQ26B		625 to 1,625 (2,000)	
52	146	1,300	RXQ52B	RXQ26B × 2		650 to 1,690 (2,080)	
54	150	1,350	RXQ54B	RXQ18B × 3	BHFP22R168	675 to 1,755 (1,755)	
56	156	1,400	RXQ56B	RXQ18B × 2 + RXQ20B		700 to 1,820 (1,820)	
58	162	1,450	RXQ58B	RXQ18B + RXQ20B × 2		725 to 1,885 (1,885)	
60	168	1,500	RXQ60B	RXQ20B × 3		750 to 1,950 (1,950)	

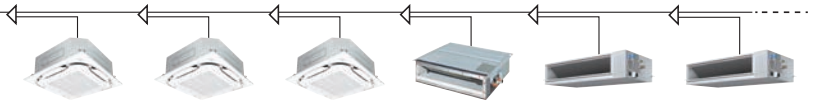
Notes: *1. For multiple connection, the outdoor unit multi connection piping kit (separately sold) is required.
*2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for RXQ8-20BYM, 180% for RXQ22-26BYM, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 15 for note on connection capacity of indoor units.

Indoor Unit Lineup

Enhanced range of choices

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

Category	Type	Model Name		Capacity Range	20	25	32	40	50	63	71	80	100	125	140	200	250	400	500
					0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP
				Capacity Index	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 and Streamer	FXFTQ-AVM	VRT smart			●	●	●	●	●		●	●	●	●				
	Round Flow Cassette with Streamer	FXFRQ-AVM	VRT smart			●	●	●	●	●		●	●	●	●				
	Round Flow Cassette with Sensing	FXFSQ-CVM	VRT smart			●			●										
	Round Flow Cassette	FXFQ-AVM	VRT smart			●	●	●	●	●		●	●	●	●				
	Compact Multi Flow Cassette	FXZQ-BVM	VRT smart		●	●	●	●	●										
	Double Flow Cassette	FXCQ-BVM	VRT smart		●	●	●	●	●	●		●		●					
	Single Flow Cassette	FXEQ-AV36	VRT		●	●	●	●	●	●									
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM	VRT		●	●	●	●	●	●									
	Bedroom Duct	FXDBQ-AVM	VRT smart					●	●	●		●							
	Slim Duct (Standard)	FXDQ-PDVE (with drain pump)	VRT smart	(700 mm width type)	●	●	●												
		FXDQ-NDVE (with drain pump)	VRT smart	(900/1,100 mm width type)				●	●	●									
	Slim Duct (Compact)	FXDQ-SPV1	VRT		●	●	●	●	●	●									
	Middle Static Pressure Duct	FXSQ-PAVE	VRT smart		●	●	●	●	●	●		●	●	●	●				
	Middle-High Static Pressure Duct	FXMQ-PAVE	VRT smart		●	●	●	●	●	●		●	●	●	●				
	High Static Pressure Duct	FXMQ-PVM	VRT smart													●	●		
	Outdoor-Air Processing Unit	FXMQ-MFV1														●	●		
		FXMQ-AFVM	VRT									●			●	●	●		
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB	VRT								●		●						
	Ceiling Suspended	FXHQ-MAVE	VRT				●			●			●						
		FXHQ-BVM	VRT											●	●				
Wall Mounted		New FXAQ-BVM	VRT smart		●	●	●	●	●	●	●	●	●						
Floor Standing	Floor Standing	FXLQ-MAVE	VRT		●	●	●	●	●	●									
	Concealed Floor Standing	FXNQ-MAVE	VRT		●	●	●	●	●	●									
	Floor Standing Duct	FXVQ-NY1	VRT											●		●	●	●	●
		FXVQ-NY16 (high static pressure type)	VRT																●
Clean Room Air Conditioner		FXBQ-PVE	VRT					●	●	●									
		FXBPQ-PVE	VRT							●									
Heat Reclaim Ventilator with DX-Coil		VKM-GCVE		Airflow rate 500-950 m³/h															
Heat Reclaim Ventilator		VAM-HVE		Airflow rate 150-2000 m³/h															
Air Handling Unit		AHUR		6–120 HP															



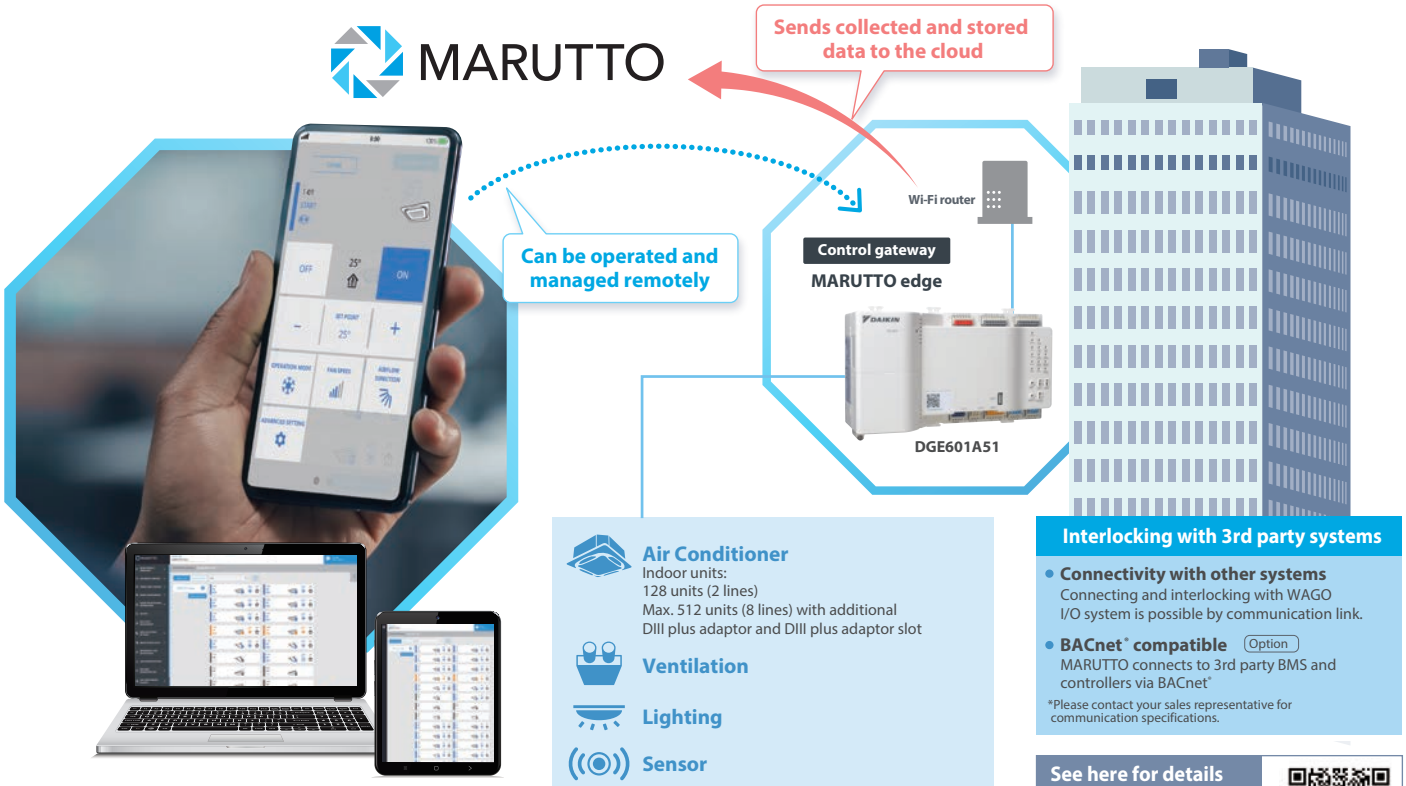
Max. 64 indoor units

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

Control System

Cloud-based HVAC management service

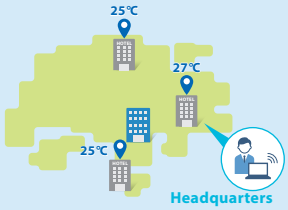
MARUTTO is an all-in-one, cloud-based management service that offers real-time control and monitoring, advanced analytics, and customized support to address HVAC lifecycle concerns.



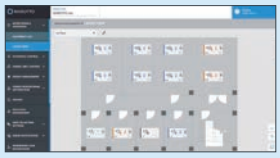
Note:
*1 Operation is only available when the control gateway is connected to the Internet.

Remote monitoring and control

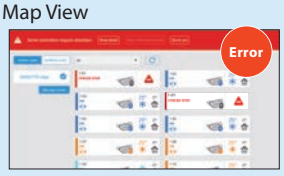
- Multi-Device Support
- Multi-Site Management



- Layout View



- Map View

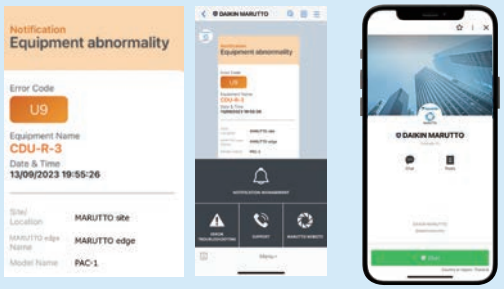


Centralized control

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

Peace of mind service maintenance

- Error Notification Email
- Social Media Support (Option)



- Remote Emergency Operation (Option)

Optimize energy usage

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

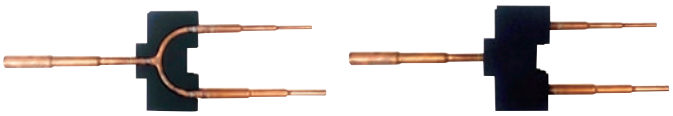
Option List

Item \ Type		RXQ8B RXQ10B RXQ12B RXQ14B RXQ16B RXQ18B RXQ20B RXQ22B RXQ24B RXQ26B	RXQ28B RXQ30B RXQ32B RXQ34B RXQ36B RXQ38B RXQ40B RXQ42B RXQ44B RXQ46B RXQ48B RXQ50B RXQ52B	RXQ54B RXQ56B RXQ58B RXQ60B
Distributive piping*1	REFNET header	KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch), KHRP26M72H (Max. 8 branch), KHRP26M73H (Max. 8 branch)		
	REFNET joint	KHRP26A22T, KHRP26A33T, KHRP26A72T, KHRP26A73T		
	Pipe size reducer	KHRP26M73HP, KHRP26M73TP		
	Non-Brazed REFNET Joint for TIGHTFIT	BHRG26A33T, BHRG26A72T, BHRG26A73T		
Outdoor unit multi connection piping kit		—	BHFP22R135	BHFP22R168

Note: *1. The appropriate REFNET parts should be selected to match the total capacity index of indoor units connected below each REFNET, based on the installation manual.

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

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



Option PCB

Item \ Type	RXQ8B RXQ10B RXQ12B RXQ14B	RXQ16B RXQ18B RXQ20B RXQ22B	RXQ24B RXQ26B RXQ28B RXQ30B	RXQ32B RXQ34B RXQ36B RXQ38B	RXQ40B RXQ42B RXQ44B RXQ46B	RXQ48B RXQ50B RXQ52B RXQ54B	RXQ56B RXQ58B RXQ60B
DIII-NET expand adaptor + Wire harness adaptor kit	DTA109A51 + BER11A						
External control adaptor	DTA104A62						
Home Automation Interface Adaptor + Wire harness adaptor kit	DTA116A51 + BER11B						

Outdoor Unit Specifications

Specifications


Model			RXQ8BYM	RXQ10BYM	RXQ12BYM	RXQ14BYM	RXQ16BYM	RXQ18BYM	RXQ20BYM
Combination units			—	—	—	—	—	—	—
			—	—	—	—	—	—	—
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz						
Cooling capacity		Btu/h	76,400	95,500	114,000	136,000	154,000	171,000	191,000
		kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0
Power consumption		kW	5.00	6.41	8.38	9.88	12.6	13.8	15.9
Capacity control		%	11 – 100	13 – 100	12 – 100	11 – 100	9 – 100	8 – 100	10 – 100
EER (TCVN13256: 2021)			5.50	5.41	5.11	5.29	4.94	4.97	4.80
Casing colour			Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically sealed scroll type						
	Motor output	kW	3.2	3.8	4.6	5.4	6.9	7.9	8.3
Airflow rate		m^3/min	158	174	185	237	266	258	306
Dimensions (H x W x D)		mm	1,660 x 930 x 765			1,660 x 1,240 x 765			
Machine weight		kg	206	210		247	270	285	293
Sound level		dB(A)	56	57	59	61	63		65
Operation range		°CDB	10 to 52						
Refrigerant	Type		R-410A						
	Charge	kg	7.2	7.4	7.5	9.6	10.0	11.6	11.7
Piping connections	Liquid	mm	ϕ 9.5 (Brazing)		ϕ 12.7 (Brazing)			ϕ 15.9 (Brazing)	
	Gas	mm	ϕ 19.1 (Brazing)	ϕ 22.2 (Brazing)	ϕ 28.6 (Brazing)				


Model			RXQ34BYM	RXQ36BYM	RXQ38BYM	RXQ40BYM	RXQ42BYM	RXQ44BYM	RXQ46BYM
Combination units			RXQ16BYM	RXQ18BYM	RXQ18BYM	RXQ20BYM	RXQ18BYM	RXQ18BYM	RXQ20BYM
			RXQ18BYM	RXQ18BYM	RXQ20BYM	RXQ20BYM	RXQ24BYM	RXQ26BYM	RXQ26BYM
			—	—	—	—	—	—	—
Power supply			3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz						
Cooling capacity		Btu/h	324,000	341,000	362,000	382,000	399,000	420,000	440,000
		kW	95.0	100	106	112	117	123	129
Power consumption		kW	26.4	27.6	29.7	31.8	34.0	37.3	39.4
Capacity control		%	4 – 100	4 – 100	4 – 100	5 – 100	4 – 100	4 – 100	4 – 100
EER (TCVN13256: 2021)			4.95	4.97	4.88	4.80	4.84	4.73	4.67
Casing colour			Ivory white (5Y7.5/1)						
Compressor	Type		Hermetically sealed scroll type						
	Motor output	kW	6.9 + 7.9	7.9 + 7.9	7.9 + 8.3	8.3 + 8.3	7.9 + 9.8	7.9 + 11.1	8.3 + 11.1
Airflow rate		m^3/min	266 + 258	258 + 258	258 + 306	306 + 306	258 + 390	258 + 411	306 + 411
Dimensions (H x W x D)		mm	(1,660 x 1,240 x 765) + (1,660 x 1,240 x 765)				(1,660 x 1,240 x 765) + (1,660 x 1,750 x 765)		
Machine weight		kg	270 + 285	285 + 285	285 + 293	293 + 293	285 + 354	285 + 354	293 + 354
Sound level		dB(A)	67		68	69	70		
Operation range		°CDB	10 to 52						
Refrigerant	Type		R-410A						
	Charge	kg	10.0 + 11.6	11.6 + 11.6	11.6 + 11.7	11.7 + 11.7	11.6 + 11.7		11.7 + 11.7
Piping connections	Liquid	mm	ϕ 19.1 (Brazing)						
	Gas	mm	ϕ 34.9 (Brazing)	ϕ 41.3 (Brazing)					

Notes: Specifications are based on the following conditions;

- Indoor temp.: 27° CDB , 19° CWB / Outdoor temp.: 35° CDB / Equivalent piping length: 7.5m , 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.

EER (TCVN13256: 2021)

According to TCVN13256: 2021 issued by the Ministry of Science and Technology of Vietnam, EER (Energy Efficiency Ratio) is the index to describe the energy saving levels of ***VRV*** system. EER (TCVN13256: 2021) is calculated according to the following formula:

$$\text{EER (TCVN13256: 2021)} = 0.01 \times \frac{\phi 100\%}{P_{100\%}} + 0.42 \times \frac{\phi 75\%}{P_{75\%}} + 0.45 \times \frac{\phi 50\%}{P_{50\%}} + 0.12 \times \frac{\phi 25\%}{P_{25\%}}$$

$\phi n\%$: Cooling capacity at n% heat load (kW)
Pn%: Input power at n% heat load (kW)

	RXQ22BYM	RXQ24BYM	RXQ26BYM	RXQ28BYM	RXQ30BYM	RXQ32BYM
	—	—	—	RXQ12BYM	RXQ12BYM	RXQ12BYM
	—	—	—	RXQ16BYM	RXQ18BYM	RXQ20BYM
	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz					
	210,000	229,000	249,000	268,000	285,000	305,000
	61.5	67.0	73.0	78.5	83.5	89.5
	17.9	20.2	23.5	21.0	22.2	24.3
	8 – 100	8 – 100	8 – 100	5 – 100	5 – 100	5 – 100
	4.84	4.75	4.57	5.00	5.02	4.91
	Ivory white (5Y7.5/1)					
	Hermetically sealed scroll type					
	8.9	9.8	11.1	4.6 + 6.9	4.6 + 7.9	4.6 + 8.3
	375	390	411	185 + 266	185 + 258	185 + 306
	1,660 x 1,750 x 765			(1,660 x 930 x 765) + (1,660 x 1,240 x 765)		
	354			210 + 270	210 + 285	210 + 293
	67	68		65		66
	10 to 52					
	R-410A					
	11.7			7.5 + 10.0	7.5 + 11.6	7.5 + 11.7
	ϕ 15.9 (Brazing)		ϕ 19.1 (Brazing)			
	ϕ 28.6 (Brazing)	ϕ 34.9 (Brazing)				

	RXQ48BYM	RXQ50BYM	RXQ52BYM	RXQ54BYM	RXQ56BYM	RXQ58BYM	RXQ60BYM
	RXQ22BYM	RXQ24BYM	RXQ26BYM	RXQ18BYM	RXQ18BYM	RXQ18BYM	RXQ20BYM
	RXQ26BYM	RXQ26BYM	RXQ26BYM	RXQ18BYM	RXQ18BYM	RXQ20BYM	RXQ20BYM
	—	—	—	RXQ18BYM	RXQ20BYM	RXQ20BYM	RXQ20BYM
	3-phase 4-wire system, 380-415 V/380 V, 50/60 Hz						
	457,000	478,000	498,000	512,000	532,000	553,000	573,000
	134	140	146	150	156	162	168
	41.4	43.7	47.0	41.4	43.5	45.6	47.7
	4 – 100	4 – 100	4 – 100	3 – 100	3 – 100	3 – 100	3 – 100
	4.69	4.66	4.57	4.97	4.91	4.85	4.80
	Ivory white (5Y7.5/1)						
	Hermetically sealed scroll type						
	8.9 + 11.1	9.8 + 11.1	11.1 + 11.1	7.9 + 7.9 + 7.9	7.9 + 7.9 + 8.3	7.9 + 8.3 + 8.3	8.3 + 8.3 + 8.3
	375 + 411	390 + 411	411 + 411	258 + 258 + 258	258 + 258 + 306	258 + 306 + 306	306 + 306 + 306
	(1,660 x 1,750 x 765) + (1,660 x 1,750 x 765)			(1,660 x 1,240 x 765) + (1,660 x 1,240 x 765) + (1,660 x 1,240 x 765)			
	354 + 354	354 + 354	354 + 354	285 + 285 + 285	285 + 285 + 293	285 + 293 + 293	293 + 293 + 293
	71	72		68	69	70	
	10 to 52						
	R-410A						
	11.7 + 11.7			11.6 + 11.6 + 11.6	11.6 + 11.6 + 11.7	11.6 + 11.7 + 11.7	11.7 + 11.7 + 11.7
	ϕ 19.1 (Brazing)						
	ϕ 41.3 (Brazing)						

Warning

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

Notice

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

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

Cautions on product corrosion

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

Đại lý phân phối

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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."

Specifications, designs and other content appearing in this brochure are current as of January 2025 but subject to change without notice.