





**NEW**

# VRV6 A SERIES

Expand Maximum Capacity of Single unit up to **26HP**



RXQ8,10,12BY15



RXQ14,16,18,20BY15



RXQ22,24,26BY15

**NEW**

Next Level of Energy Saving

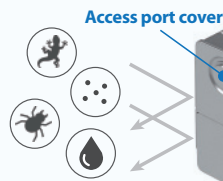
VRV A SERIES

VRV6 A SERIES



## IP55-compliant sealed component box

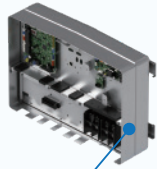
IP55 sealed component box protects electrical component from a cause of failure, that is the ingress of debris (lizards, bugs, sand, water).



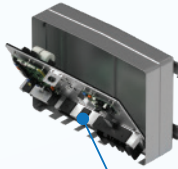
Access port cover

Electrical component box cover (upper)

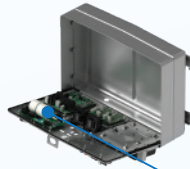
Electrical component box cover (lower)



Electrical component box



Electrical component mounting plate



PCB

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

**NEW**

# Wall Mounted Type

FXAQ-BVMS

## Slim and Stylish Design

FXAQ20-32B | Depth 245 mm

**21**  
mm  
slimmer\*



\*Option

## Wide capacity lineup

New 71/80/100 models provide greater capacity for large spaces.

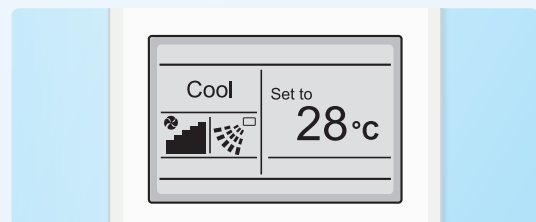
\*1 Compare with FXAQ20-32A

Model		FXAQ-BVMS								
		20	25	32	40	50	63	<b>71</b>	<b>80</b>	<b>100</b>
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2
	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200	27,300	30,700	38,200

Note: Information for 80-100 Class is preliminary.

## 5-step airflow control

Control of airflow rate has been improved from 2-step to 5-step. Auto airflow rate is also available. This wide range allows you to conveniently control the fan according to your individual needs.



# VRV6 A SERIES

## Next Generation VRV System

New **VRV6 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.

**VRV6 A** series provides higher benefits to various users related to air conditioning systems, for example, building owners, consultants, installers and building management.

## 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.



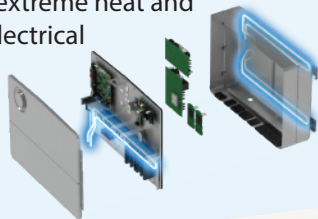
### Saves More Energy

Enhanced energy efficiency during actual operation (low load) up to 8.4% with a new compressor and VRT Smart II control.



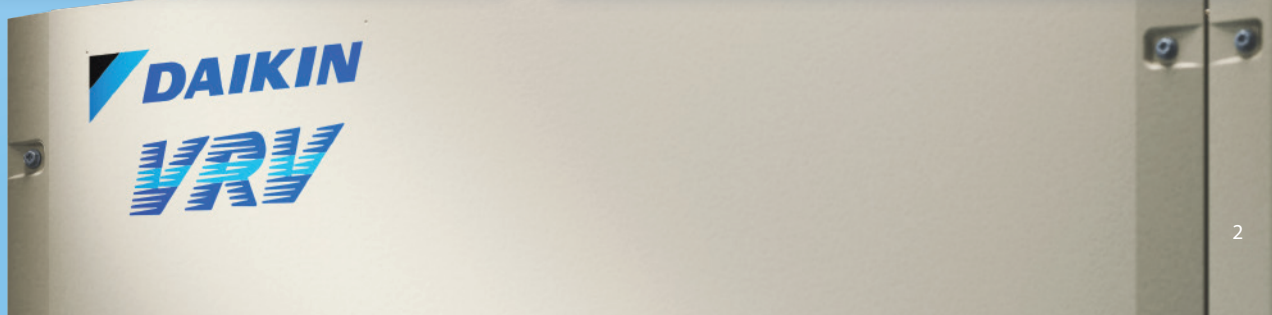
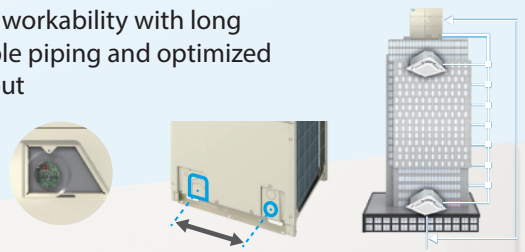
### Durable, Stable, Reliable

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



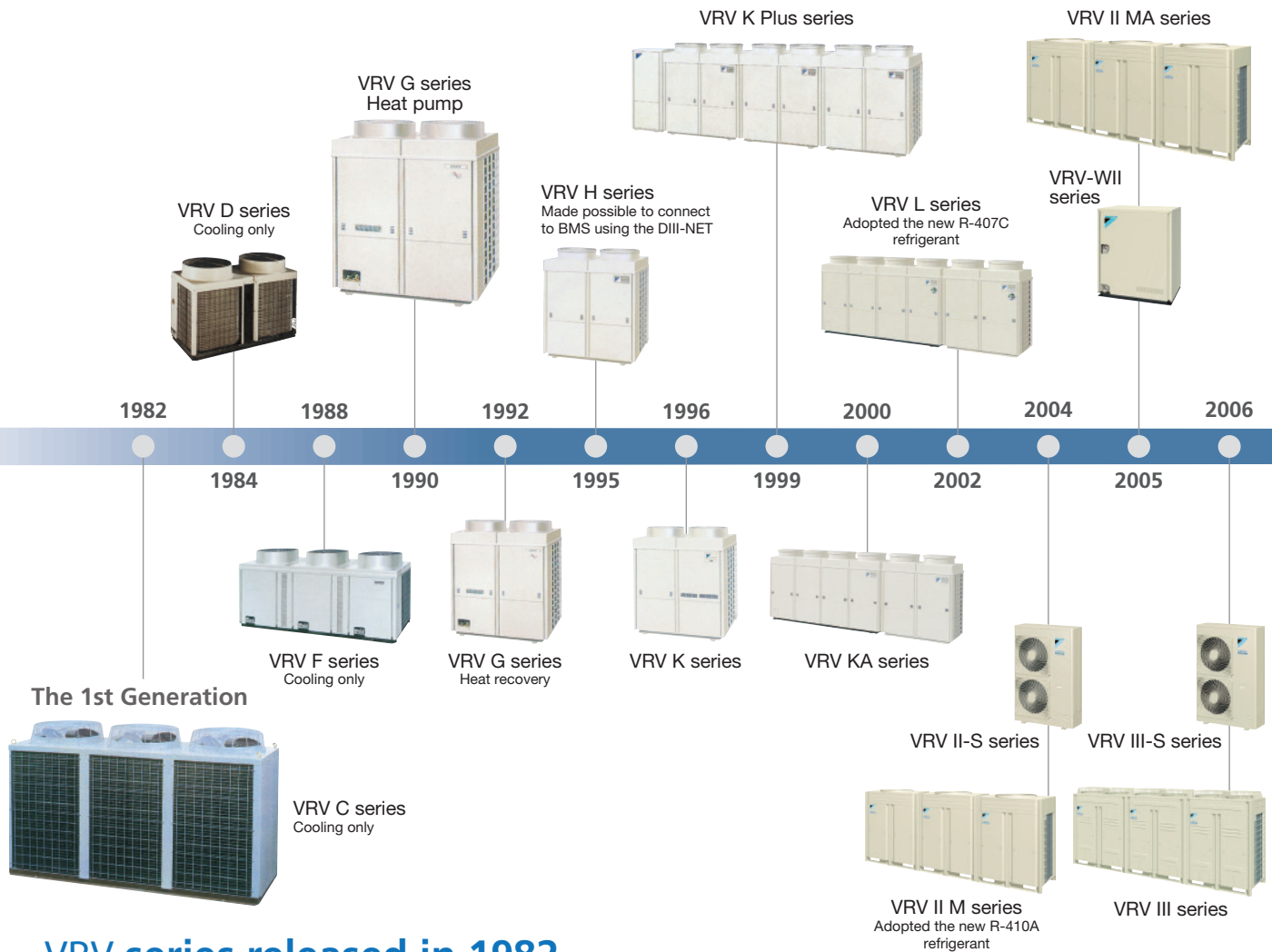
### Flexible Design & Easy Installation

Improves workability with long and flexible piping and optimized parts layout



# VRV Development History

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



## VRV series released in 1982

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

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

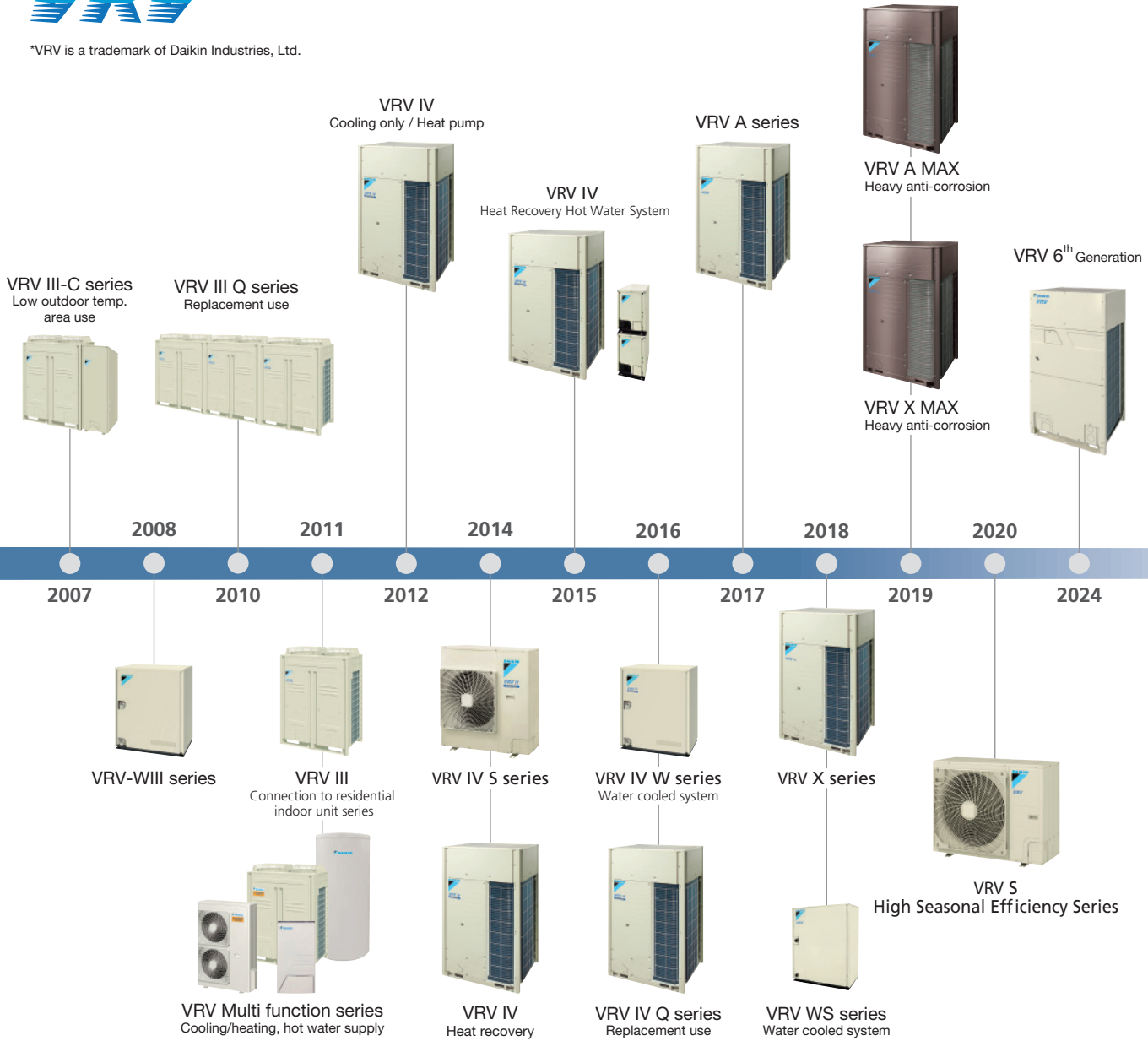
Expansion of the country of sale

Sales companies well established in more than 70 countries





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



# Wide Variety of Series Models to Supply Total Air Solutions

From residential houses to large buildings, and from newly constructed to renovated buildings, **VRV** system meets a wide range of air conditioning needs and supplies total air solutions.



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

## 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-B**  
3-phase 4-wire system,  
380-415 V, 50 Hz

## VRV 6 A SERIES

**Next Generation VRV System**

New **VRV 6 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.



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
Single outdoor units	●	●	●	●	●	●	●	●	●	●																	
Double outdoor units												●	●	●	●	●	●	●	●	●	●	●	●				
Triple outdoor units																								●	●	●	●



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

## VRV A MAX

**Heavy anti-corrosion model**

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	●	●	●	●	●



### 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 IV 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							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					

# 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.



RXQ8,10,12BY1S



RXQ14,16,18,20BY1S



RXQ22,24,26BY1S

RXQ-BY1S : 3-phase, 4-wire system, 380-415 V, 50 Hz

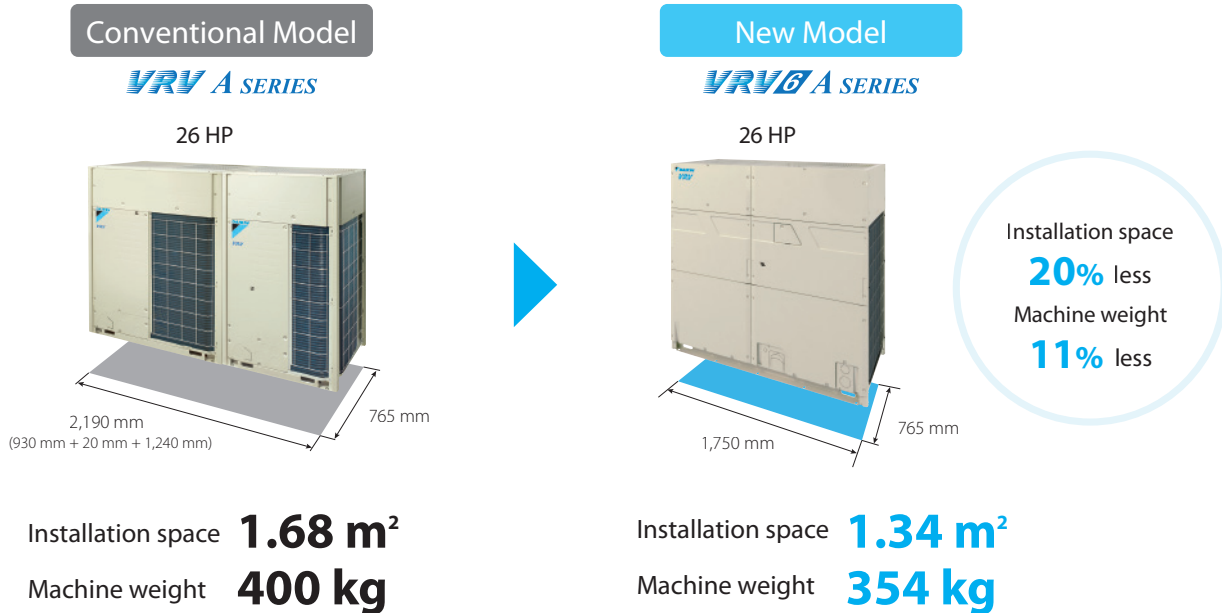
## Outdoor unit combination

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							●●●				



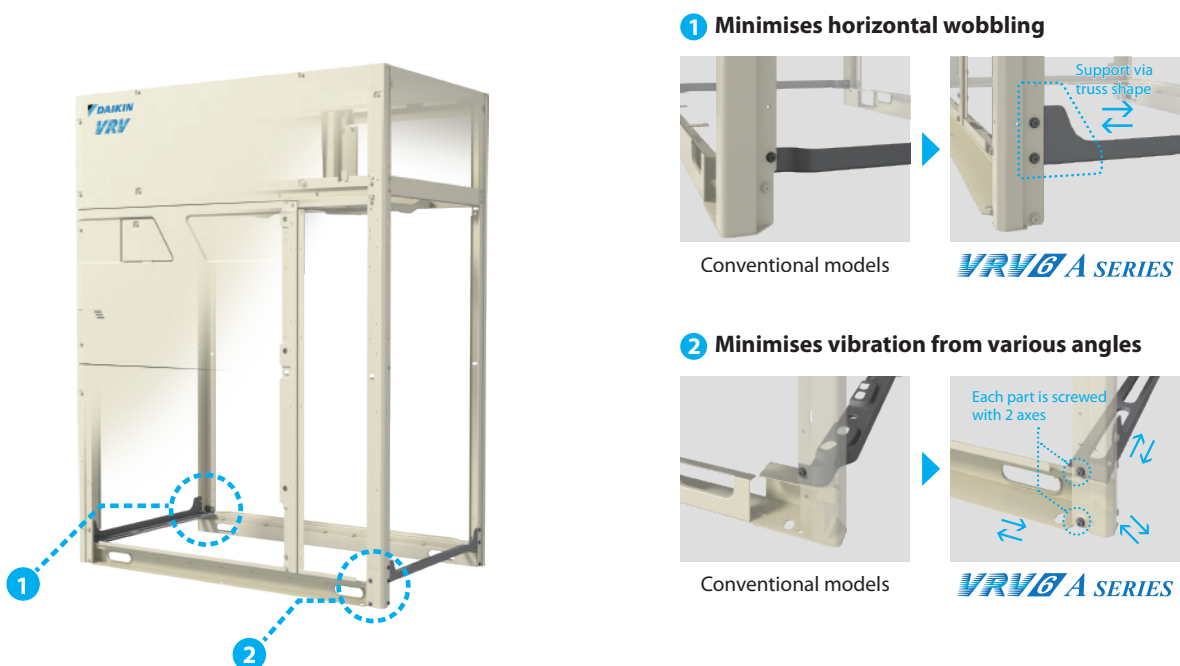
## Large capacity single-module

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



## New reinforced design

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



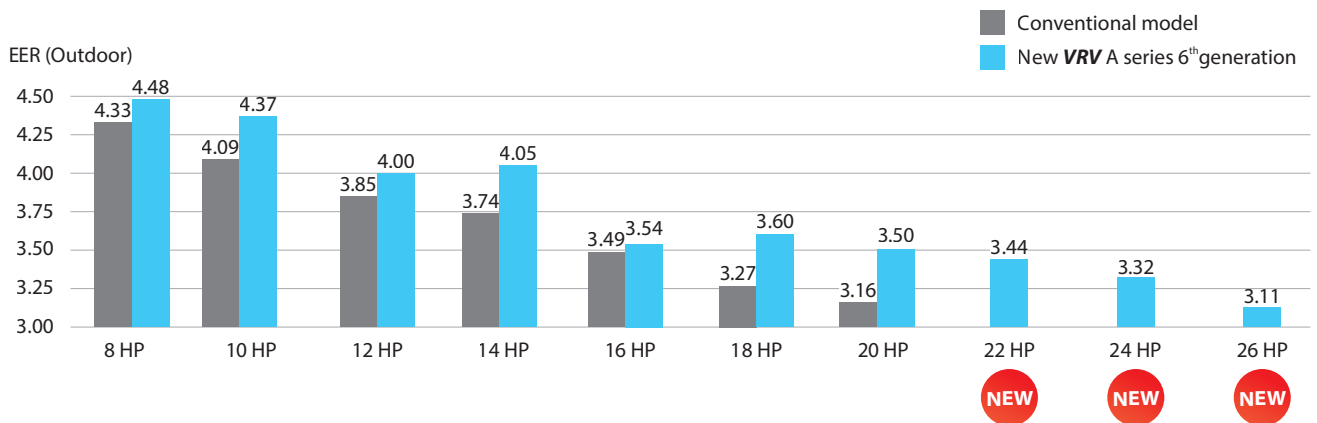
# Energy Savings

## ■ Improves Energy Efficiency Ratio (EER)

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

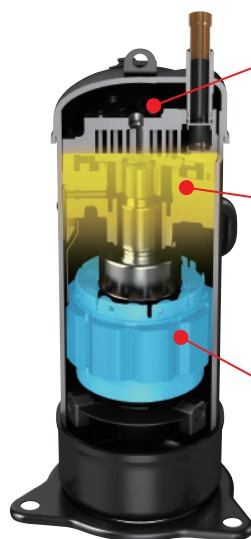
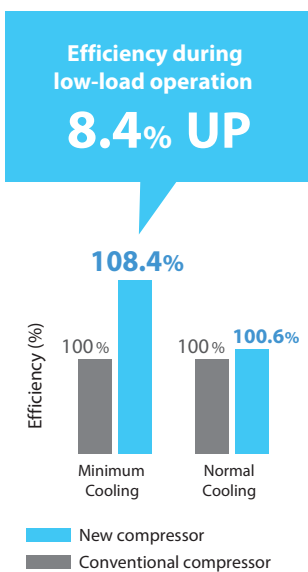
HP	8	10	12	14	16	18	20	22	24	26
<b>EER (Outdoor)</b>	4.48	4.37	4.00	4.05	3.54	3.60	3.50	3.44	3.32	3.11

Achieve about **7% improvement** on average, compared to the conventional models (8-20 HP)



## ■ 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.

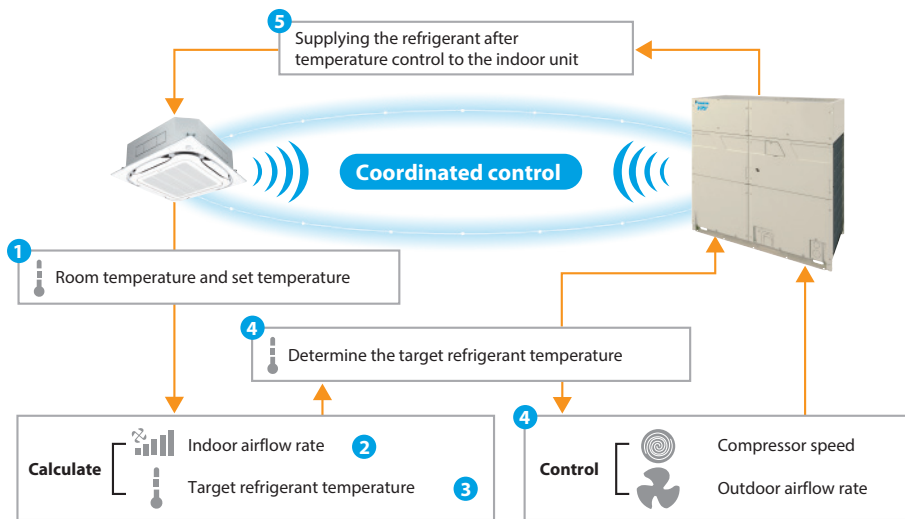
### Adoption of a high-performance concentrated motor

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.



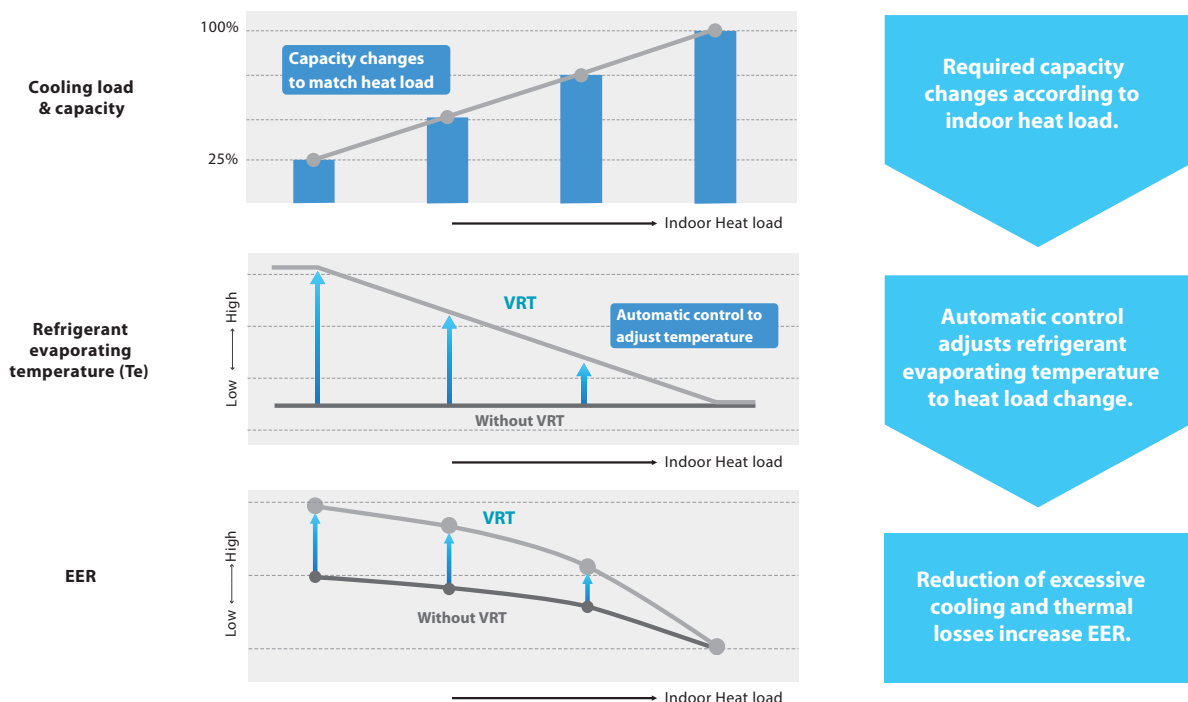
## Software technology VRT Smart II control

Optimal supply exactly meets the required capacity of indoor units



- 1 Indoor unit will calculate capacity needed based on  $\Delta T$  (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  $T_e$  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.

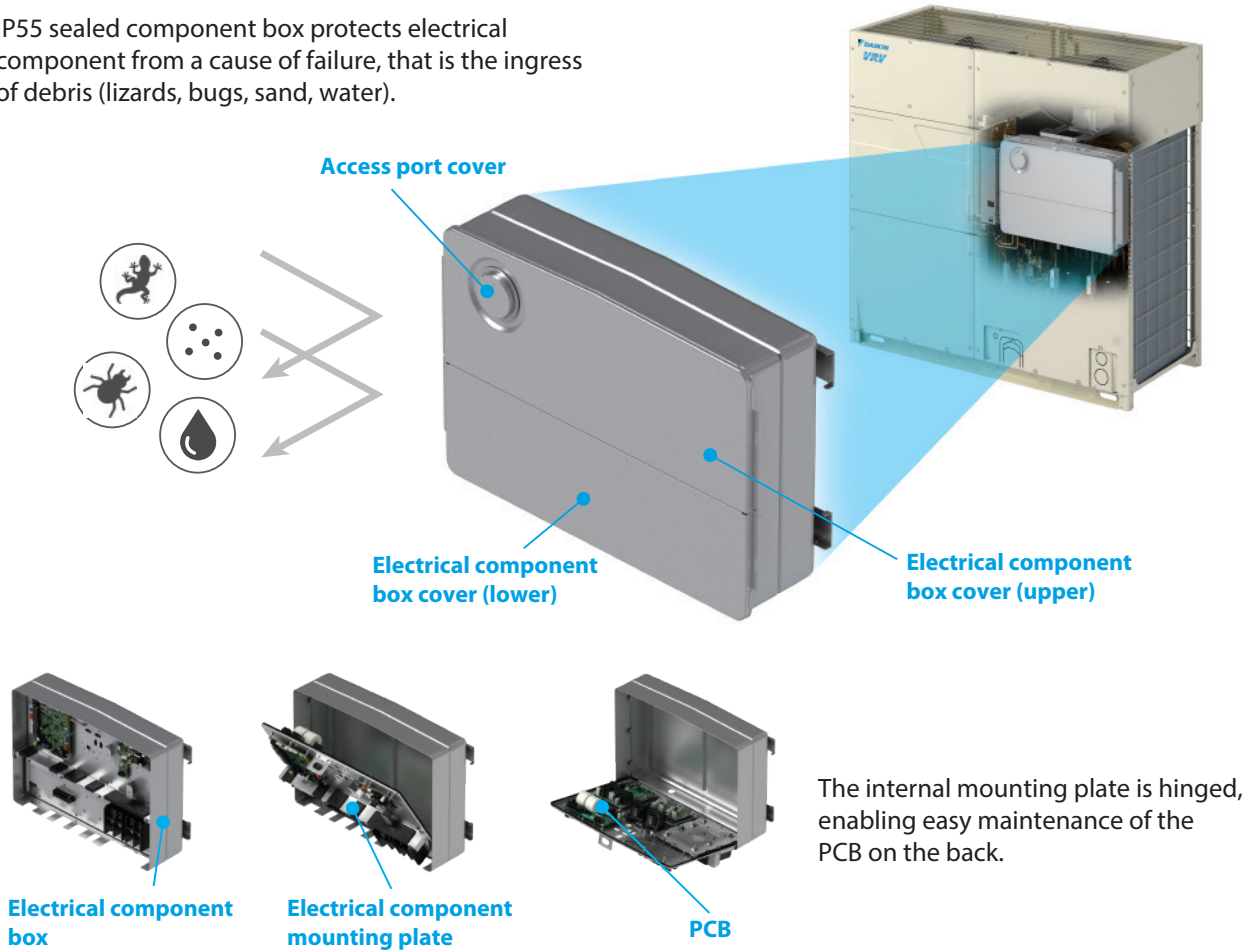
Greatly improved efficiency by adjusting the capacity by the refrigerant temperature



# 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).



## What is IP55?

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

ELECTRICAL AND ELECTRONICS INSTITUTE FOUNDATION FOR INDUSTRIAL DEVELOPMENT	
<b>TEST REPORT</b> <span style="float: right;">Page 1 of 13</span>	
Report No.	TC20230270EA
Operation No.	TC2023050027
Name and address of customer	DAIKIN INDUSTRIES (THAILAND) CO., LTD. 300/1 Moo 3, Bangpakdi Rd., Km. 57, Bangkok Roadsystem, Wangpao Road, Chulabhorn, Chulabhorn, Thailand.
Sample description	Sample was submitted and identified by/on behalf of the customer as following: Enclosure for electrical equipment Product name: VRV (E)Box Assy Draw No: 12R50014 Branch: (S)R&D 1 set
Sample No.	TC2023050027
Sample characteristic and condition	Normal
Sample received date	May 15, 2023
Test date	May 16, 2023
Issue date	May 26, 2023
Test standard	IEC 60529-1:2013, IEC 60529-2:2013/AMD1:1999-1:2013
Test report	Details of the test report are shown on the following pages.
Summary of testing	The test results comply with standards.
Remarks	Testing by supplying power to the test sample at a voltage of 300 V 50 Hz to allow the fan motor or the test sample to operate. This report was prepared electronically using applicable electronic signatures. Print or copy of it is considered as a copy of the document.
Tested by (Name + signature)	Mr. Mongkol Jachwaseerachit
Reviewed by (Name + signature)	Mr. Rayten Mueggen
Approved by (Name, position + signature)	Mr. Jitthit Thuananontakul Division manager, Operation division 1

## IP55

### Grade 5

#### Liquid ingress protection

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

### Grade 5

#### Solid particle protection

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

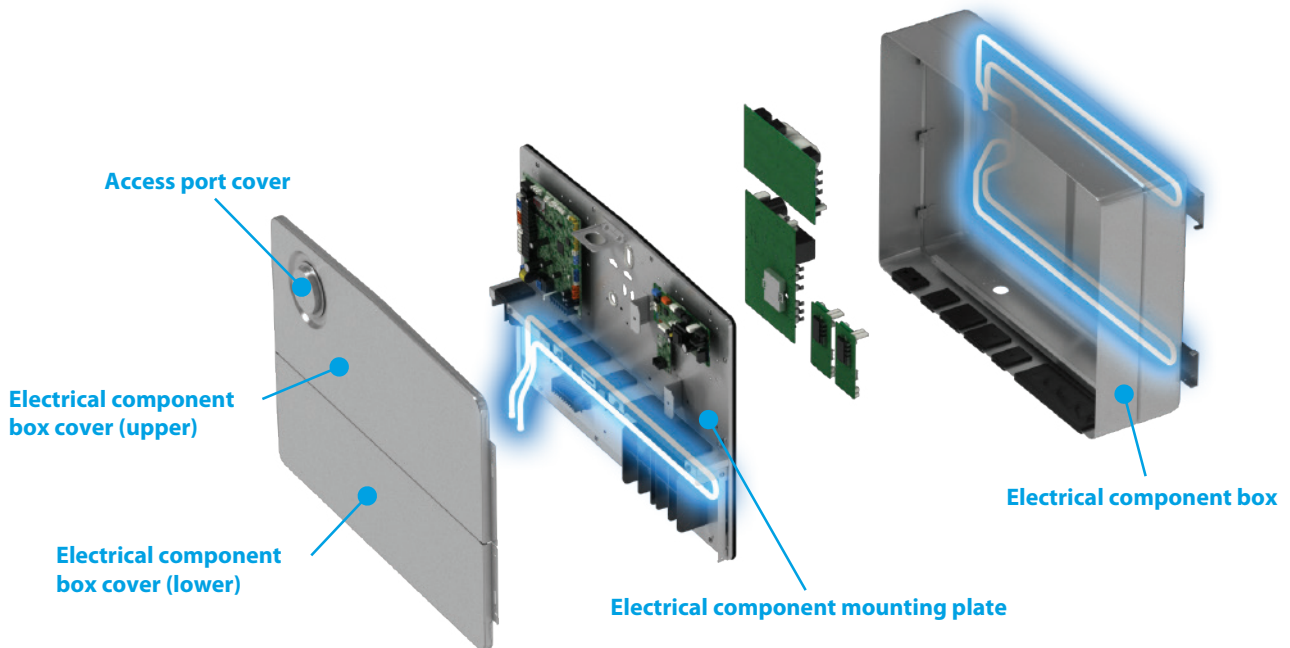
#### Ingress Protection

IPX5 Certificate by The Electrical and Electronics Institute  
IP5X Certificate by Daikin Industries (Thailand) Ltd.

\* 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.

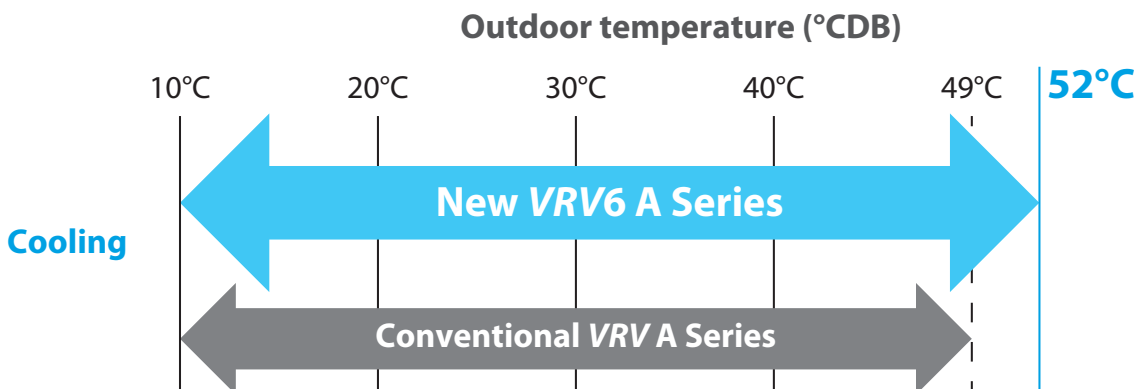
## ■ Enables operation in high outdoor temperature

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.



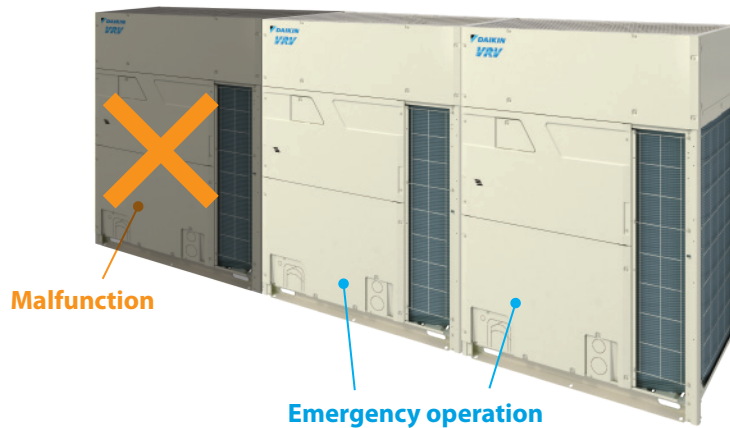
Note: If the height difference between the outdoor units and the indoor units exceeds 90 m, the operating temperature range is up to 49°C (Outdoor units above indoor units only).



# Comfort

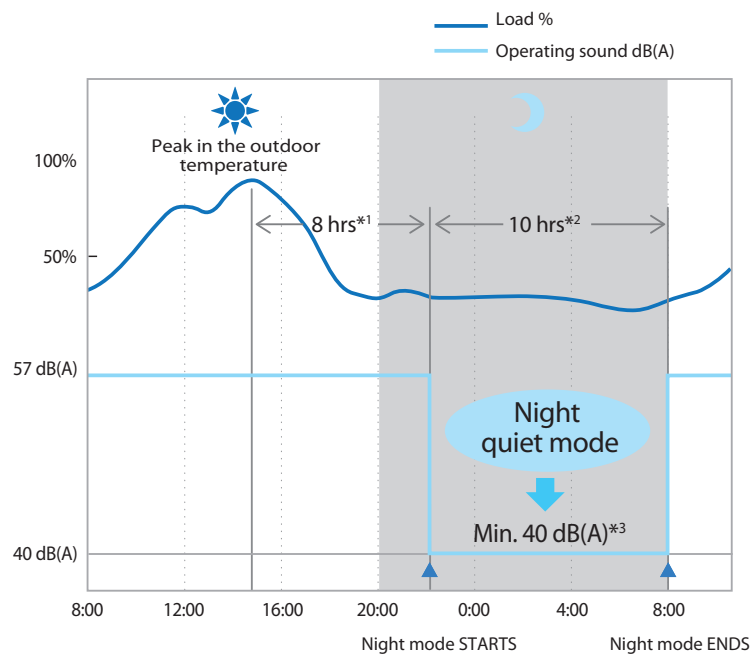
## ■ Backup operation functions

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  $\geq 30\%$  of the rated capacity with the sound  $< 44$  dB(A).

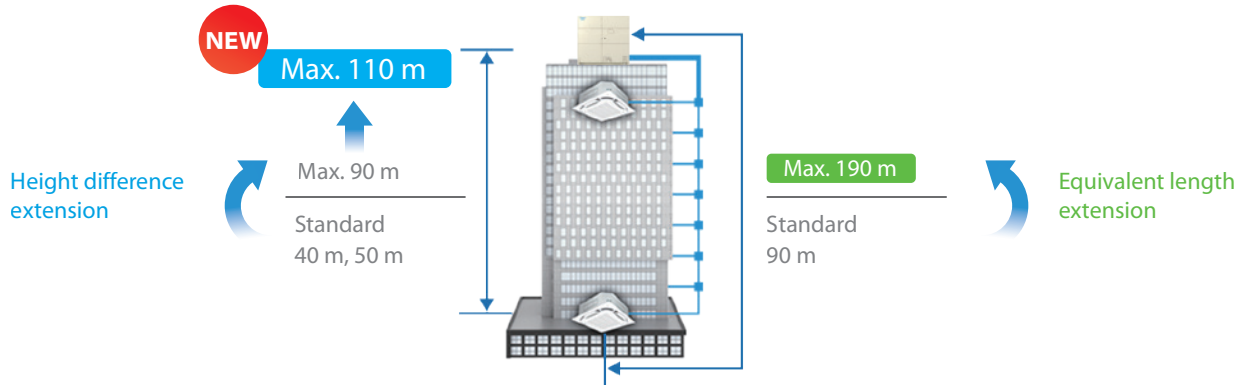
Notes: • This function is available in setting at site.

- 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).

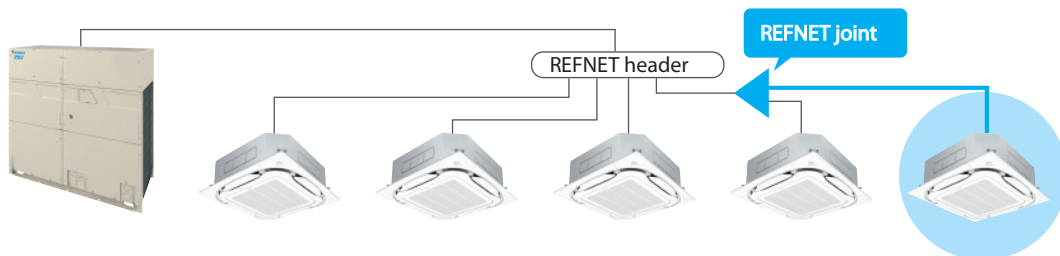
### • Equivalent length Max. 190 m

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.



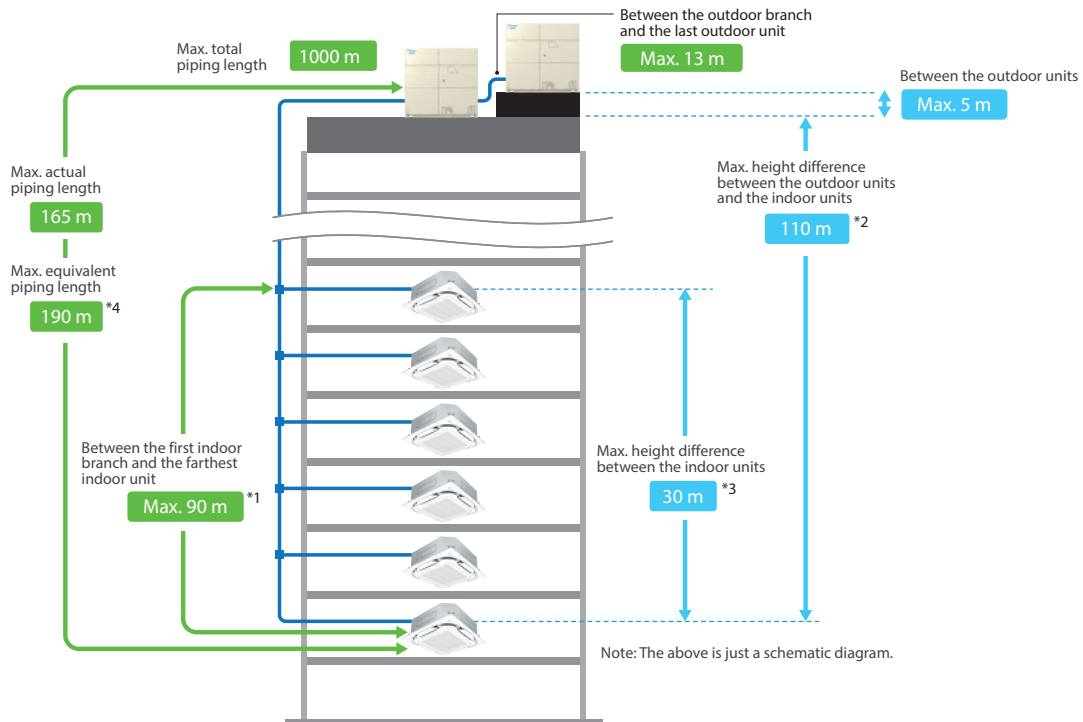
REFNET header	Indoor unit total capacity at REFNET joint
KHRP26M22H, KHRP26M33H, KHRP26M72H	< 50
KHRP26M73H + KHRP26M73HP	≤ 140

# Design Flexibility

## Long piping length

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

Installation for **VRV** indoor units only



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

\*1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. Various conditions and requirements have to be met to allow utilisation of 90 m piping length. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.

\*2. When Height differences above 50 m if the outdoor unit is above the indoor unit and 40 m if the outdoor unit is below the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

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

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

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

\*1 FXF(T)(R)(S)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 16 for outdoor unit combination details.

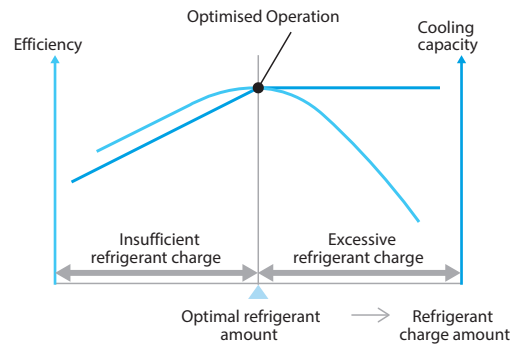
# Easy Installation

## 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

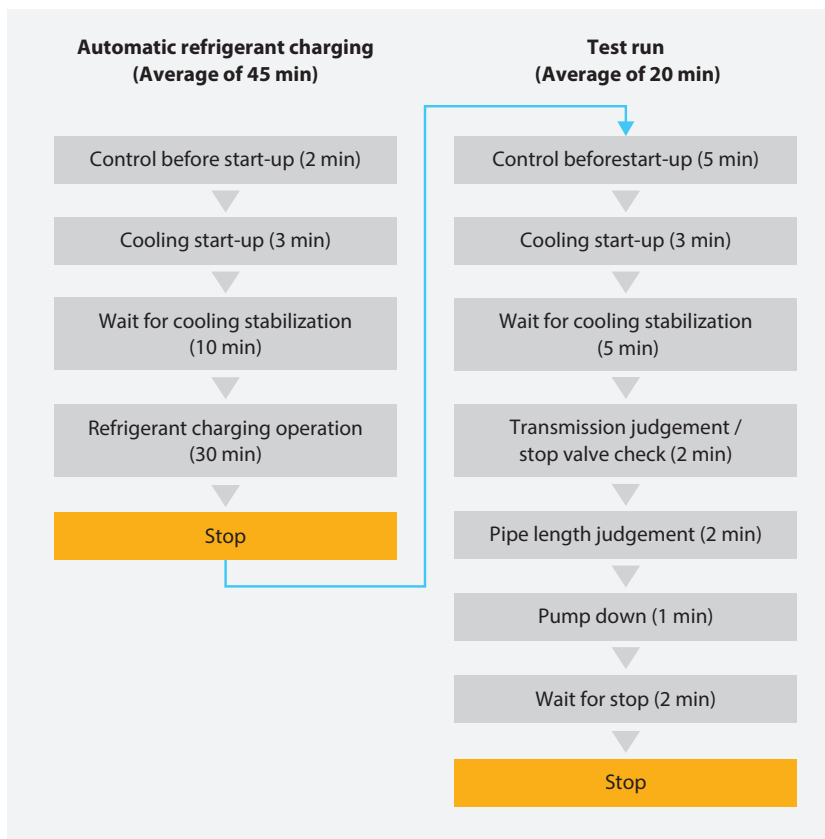
By designing optimal control, the average time has been shortened by 22% (14 min), and the number of on-site operations has been reduced.

Operation time  
**22% less**

#### Conventional models

Test run is performed after automatic refrigerant charging is finished

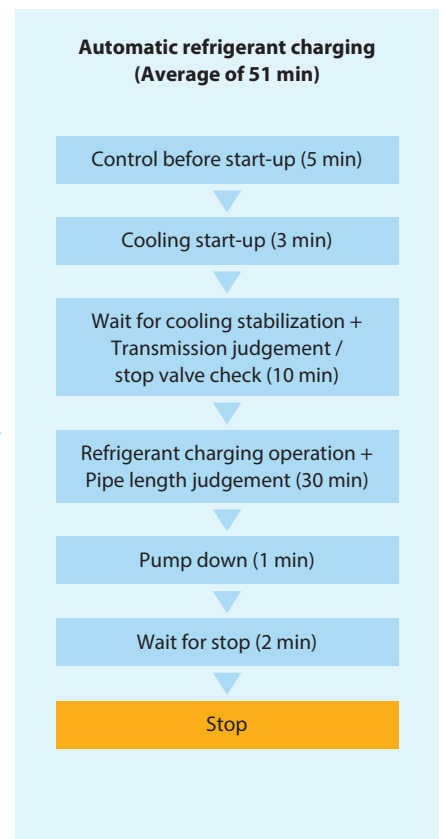
**Total of 11 steps, PCB setting: 5 times**  
**Total time: Average of 65 min**



#### New VRV6 A models 6<sup>th</sup> Generation

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**





## ■ 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.

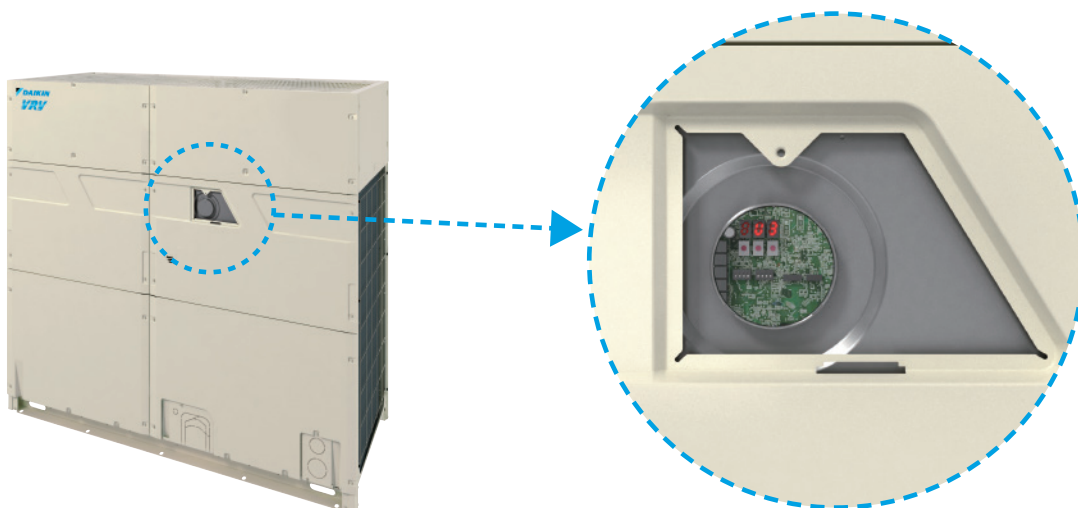
\* Effective when test run is carried out independently after manual refrigerant charging.



## ■ 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.

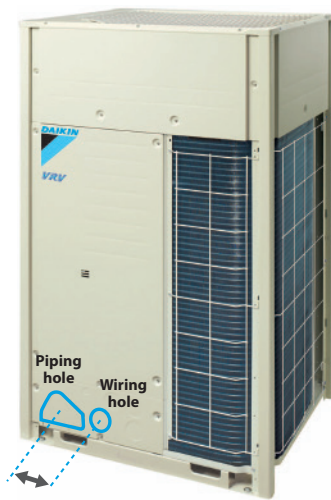


# Easy Installation

## ■ 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**

**VRV6 A SERIES**



**Work becomes easier with sufficient space**



# Option List

Item	Type	RXQ8-26B	RXQ28-52B	RXQ54-60B
Distributive piping <sup>*1</sup>	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	—	BHFP22R135-7	BHFP22R168-7	
TIGHTFIT		SDGTC06, SDGTC09, SDGTC12, SDGTC15, SDGTC19, SDGTC22, SDGTC28, BDGTA34, BDGTA41		

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.

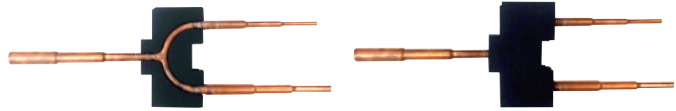
## REFNET joint

(KHRP26A22/33/72/73T)



## Non-Brazed REFNET Joint for TIGHTFIT

(BHRG26A33/72/73T)



## TIGHTFIT

(SDGTC06/SDGTC09/12/15/19/22/28/BDGTA34/BDGTA41)



## Option PCB

Item	Type	RXQ8-60B
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 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 6A 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	RXQ8BY1S	RXQ8BY1S	–	100 to 260 (400)	13 (20)
10	28.0	250	RXQ10BY1S	RXQ10BY1S	–	125 to 325 (500)	16 (25)
12	33.5	300	RXQ12BY1S	RXQ12BY1S	–	150 to 390 (600)	19 (30)
14	40.0	350	RXQ14BY1S	RXQ14BY1S	–	175 to 455 (700)	22 (35)
16	45.0	400	RXQ16BY1S	RXQ16BY1S	–	200 to 520 (800)	26 (40)
18	50.0	450	RXQ18BY1S	RXQ18BY1S	–	225 to 585 (900)	29 (45)
20	56.0	500	RXQ20BY1S	RXQ20BY1S	–	250 to 650 (1,000)	32 (50)
22	61.5	550	RXQ22BY1S	RXQ22BY1S	–	275 to 715 (990)	35 (49)
24	67.0	600	RXQ24BY1S	RXQ24BY1S	–	300 to 780 (1,080)	39 (54)
26	73.0	650	RXQ26BY1S	RXQ26BY1S	–	325 to 845 (1,170)	42 (58)
28	78.5	700	RXQ28BY1S	RXQ12BY1S + RXQ16BY1S	BHFP22R135-7	350 to 910 (1,120)	45 (56)
30	83.5	750	RXQ30BY1S	RXQ12BY1S + RXQ18BY1S		375 to 975 (1,200)	48 (60)
32	89.5	800	RXQ32BY1S	RXQ12BY1S + RXQ20BY1S		400 to 1,040 (1,280)	52 (64)
34	95.0	850	RXQ34BY1S	RXQ16BY1S + RXQ18BY1S		425 to 1,105 (1,360)	55 (64)
36	100	900	RXQ36BY1S	RXQ18BY1S × 2		450 to 1,170 (1,440)	58 (64)
38	106	950	RXQ38BY1S	RXQ18BY1S + RXQ20BY1S		475 to 1,235 (1,520)	61 (64)
40	112	1,000	RXQ40BY1S	RXQ20BY1S × 2		500 to 1,300 (1,600)	64 (64)
42	117	1,050	RXQ42BY1S	RXQ18BY1S + RXQ24BY1S		525 to 1,365 (1,680)	
44	123	1,100	RXQ44BY1S	RXQ18BY1S + RXQ26BY1S		550 to 1,430 (1,760)	
46	129	1,150	RXQ46BY1S	RXQ20BY1S + RXQ26BY1S		575 to 1,495 (1,840)	
48	134	1,200	RXQ48BY1S	RXQ22BY1S + RXQ26BY1S		600 to 1,560 (1,920)	
50	140	1,250	RXQ50BY1S	RXQ24BY1S + RXQ26BY1S		625 to 1,625 (2,000)	
52	146	1,300	RXQ52BY1S	RXQ26BY1S × 2		650 to 1,690 (2,080)	
54	150	1,350	RXQ54BY1S	RXQ18BY1S × 3		675 to 1,755 (1,755)	
56	156	1,400	RXQ56BY1S	RXQ18BY1S × 2 + RXQ20BY1S	700 to 1,820 (1,820)		
58	162	1,450	RXQ58BY1S	RXQ18BY1S + RXQ20BY1S × 2	725 to 1,885 (1,885)		
60	168	1,500	RXQ60BY1S	RXQ20BY1S × 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 11 for notes on connection capacity of indoor units.



# Outdoor Unit Specifications



## Specifications



										
Model			RXQ8BY1S	RXQ10BY1S	RXQ12BY1S	RXQ14BY1S	RXQ16BY1S	RXQ18BY1S	RXQ20BY1S	
Combination units			—	—	—	—	—	—	—	
			—	—	—	—	—	—	—	
			—	—	—	—	—	—	—	
Power supply			3-phase, 4-wire system, 380-415 V, 50 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	12.70	13.90	16.00	
Capacity control*	%		11 – 100	13 – 100	12 – 100	11 – 100	9 – 100	8 – 100	10 – 100	
Performance	General	EER (Outdoor)	4.48	4.37	4.00	4.05	3.54	3.60	3.50	
	Thailand	SEER (System)	21.57 🌿 ⭐⭐⭐⭐⭐	21.65 🌿 ⭐⭐⭐⭐⭐	—	—	—	—	—	
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	
Fan	Airflow rate	m <sup>3</sup> /min	158	174	185	237	266	258	306	
Dimensions (H x W x D)			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	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			RXQ34BY1S	RXQ36BY1S	RXQ38BY1S	RXQ40BY1S	RXQ42BY1S	RXQ44BY1S	RXQ46BY1S	
Combination units			RXQ16BY1S	RXQ18BY1S	RXQ18BY1S	RXQ20BY1S	RXQ18BY1S	RXQ18BY1S	RXQ20BY1S	
			RXQ18BY1S	RXQ18BY1S	RXQ20BY1S	RXQ20BY1S	RXQ24BY1S	RXQ26BY1S	RXQ26BY1S	
			—	—	—	—	—	—	—	
Power supply			3-phase, 4-wire system, 380-415 V, 50 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		26.5	27.7	29.8	31.9	34.0	37.3	39.4	
Capacity control*	%		4 – 100	4 – 100	4 – 100	4 – 100	4 – 100	4 – 100	4 – 100	
Performance	General	EER (Outdoor)	3.58	3.61	3.56	3.51	3.44	3.30	3.27	
	Thailand	SEER (System)	—	—	—	—	—	—	—	
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	
Fan	Airflow rate	m <sup>3</sup> /min	266 + 258	258 + 258	258 + 306	306 + 306	258 + 390	258 + 411	306 + 411	
Dimensions (H x W x D)			(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.

					
RXQ22BY1S	RXQ24BY1S	RXQ26BY1S	RXQ28BY1S	RXQ30BY1S	RXQ32BY1S
—	—	—	RXQ12BY1S	RXQ12BY1S	RXQ12BY1S
—	—	—	RXQ16BY1S	RXQ18BY1S	RXQ20BY1S
—	—	—	—	—	—
3-phase, 4-wire system, 380-415 V, 50 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
3.44	3.32	3.11	3.74	3.76	3.68
—	—	—	—	—	—
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)		

						
RXQ48BY1S	RXQ50BY1S	RXQ52BY1S	RXQ54BY1S	RXQ56BY1S	RXQ58BY1S	RXQ60BY1S
RXQ22BY1S	RXQ24BY1S	RXQ26BY1S	RXQ18BY1S	RXQ18BY1S	RXQ18BY1S	RXQ20BY1S
RXQ26BY1S	RXQ26BY1S	RXQ26BY1S	RXQ18BY1S	RXQ18BY1S	RXQ20BY1S	RXQ20BY1S
—	—	—	RXQ18BY1S	RXQ20BY1S	RXQ20BY1S	RXQ20BY1S
3-phase, 4-wire system, 380-415 V, 50 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	41.5	43.6	45.7	47.8
4 – 100	4 – 100	4 – 100	3 – 100	3 – 100	2 – 100	3 – 100
3.24	3.20	3.11	3.61	3.58	3.54	3.51
—	—	—	—	—	—	—
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)						

# VRV indoor units

 New lineup



























































 VRT smart

Indoor units subject to VRT smart control

 VRT

Indoor units subject to VRT control

 Streamer Technology

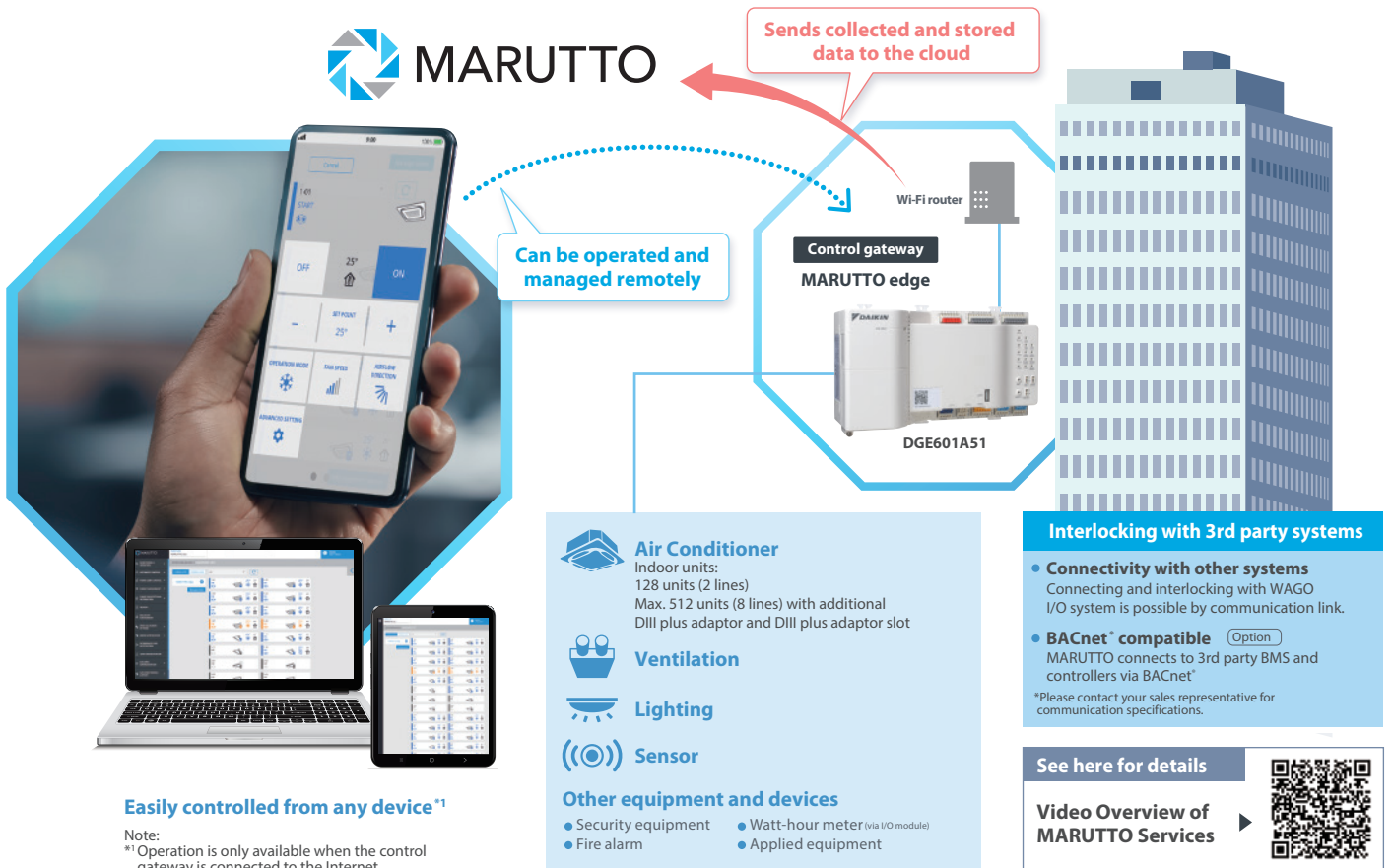
Category	Type	Model Name	Capacity Range	Capacity Index																			
				20	25	32	40	50	63	71	80	100	125	140	200	250	400	500					
				0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP					
Ceiling Mounted Cassette	Round Flow Cassette with Sensing	FXFSQ-AVS 			●	●	●	●	●			●	●	●	●								
		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-PDVT (without drain pump) 			●	●	●																
		FXDQ-NDV2S (with drain pump) 		(900/1,100 mm width type)				●	●	●													
		FXDQ-NDVT (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-BVMS 		●	●	●	●	●	●	●	●	●	●											
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

# Control System

## Cloud-based HVAC management service

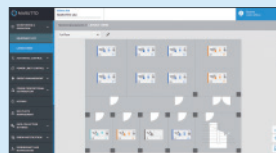
MARUTTO is an all-in-one, cloud-based management service that offers real-time control and monitoring, advanced analytics, and customized support to address HVAC lifecycle concerns.



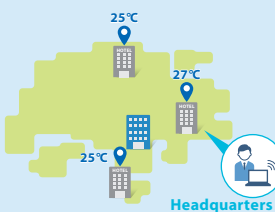
### Remote monitoring and control

- Multi-Device Support
- Multi-Site Management

#### Layout View



#### Map View

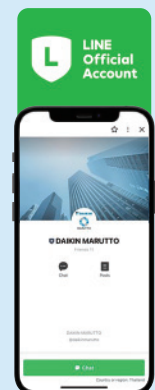


### Centralized control

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

### Peace of mind service maintenance

- Error Notification Email
- Error Notification from Line Application
- 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



# 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.

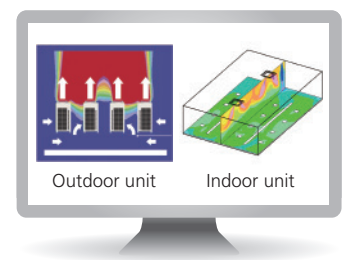
CADxpress



## 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

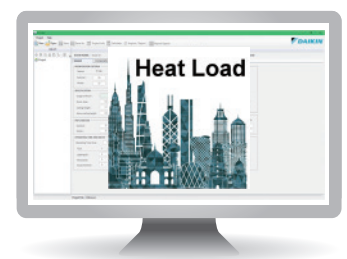


New software for indoor airflow simulation will be coming soon. Indoor airflow simulation is a method for predicting temperature distribution and velocity distribution of indoor environment.

## 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.

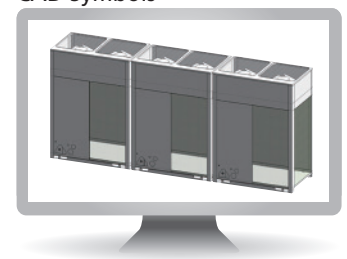
DS-HL2



## 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

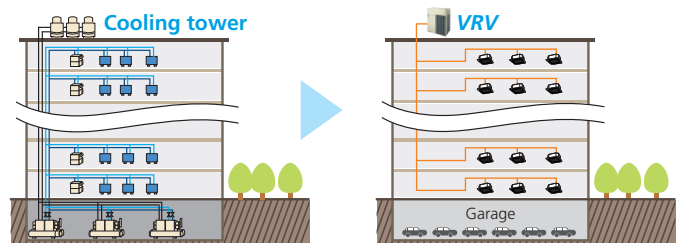
### Energy saving & comfortable environment

- 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.



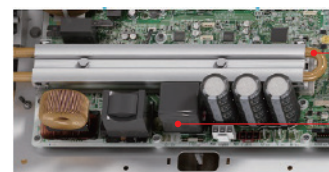
### Efficient space utilisation

- 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 ensure continuous operation.





## For USERS

### Comfortable environment

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



## 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

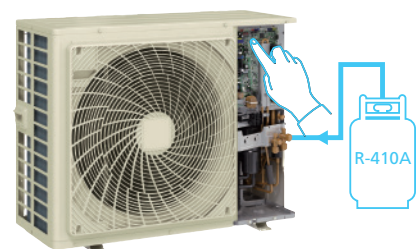
- Achieves your green building solution by Daikin's innovative energy-saving technology.



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## 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.

# MEMO



# MEMO

**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.

**SIAM DAIKIN SALES CO.,LTD.**

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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."