



VRV S High Seasonal Efficiency SERIES

For residential and light commercial use



R-410A

Cooling Only 50 Hz



NEW

VRV join EGAT No. 5 Energy Saving Label

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

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



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																													

VRV EGAT No.5 Label



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

VRV A SERIES

Heavy anti-corrosion model
VRV A MAX
RXQ-AW



Saves space and delivers excellent performance

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

Lineup

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



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

VRV S High Seasonal Efficiency SERIES

Especially designed for residential houses, small office and shops

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

Lineup

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



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

VRV IV S SERIES

Especially designed for residential houses, small offices and shops

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

Lineup

HP	4	5	6	8	9
Cooling Only	●	●	●	●	●



NEW! VRV S

High Seasonal Efficiency Series

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

Energy savings
& comfort

High performance
& reliability

Design
flexibility of
installation

Energy savings & comfort

- ✓ High seasonal efficiency
- ✓ VRT Smart Control
- ✓ Quiet operation

High performance & reliability

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

Design flexibility of installation

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

Design Your Own Clean Air Solution

Daikin Air Filtration Solution

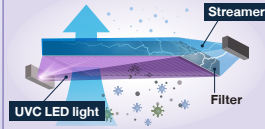
Triple Action, Ensure Absolute Clean Atmosphere

PM2.5 + Virus

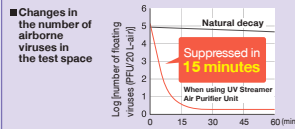
**Daikin VRV
4 ways Cassette**



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



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



*1 Japan Food Research Laboratories Test Number 21051979001-0201

*2 Shokukanken Inc Test number 217500N

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

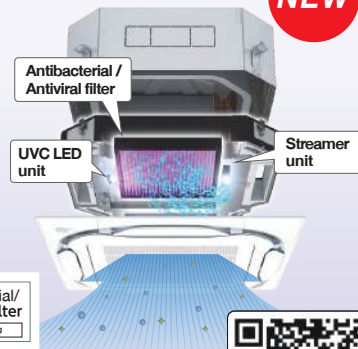
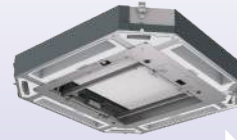
*4 Kitasato Research Center for Environmental Space Test number 2021_0375

*5 Japan Food Research Laboratories Test number 21051979001-0101

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

+ Built- In PM2.5 Filter
BAEF125DWS

**UV Streamer
Air Purifier Unit**



NEW

**UVC
265nm**

STREAMER

**Antiseptic/
Antiviral filter**
MERV 13 rating

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



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

PM2.5

**Daikin VRV
4 ways Cassette**



FXFQ-AV2S, FXFSQ-AV2S

PM2.5 + Virus

**Daikin VRV Streamer
4 ways Cassette**



FXFTQ-AVS, FXFRQ-AVS

+ MERV8 Filter
BAF552A160

Air Purification Demonstration Test

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

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



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



17:15

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

*7 Air passes through filter 10 times.

Virus

**Daikin VRV
Streamer Line up**

*8 Option part is required.



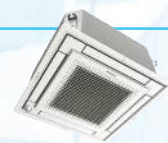
FXFTQ-AVS, FXFRQ-AVS



FXCQ-BVMS*⁸



FXHQ125/140BVMS*⁸



FXZQ-BVMS*⁸

+ STREAMER TECHNOLOGY



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

Why Daikin Streamer?

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

Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.



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



The decomposing elements provide decomposition power.

Daikin Air Ventilation Solution

Air Treatment Product, Better Air Better Life

CO2 + PM2.5 + Virus + Humidity



VKM-GCVE



FXMQ-MFV1



FXMQ-BFV2S

Daikin Ventilator/OAPU

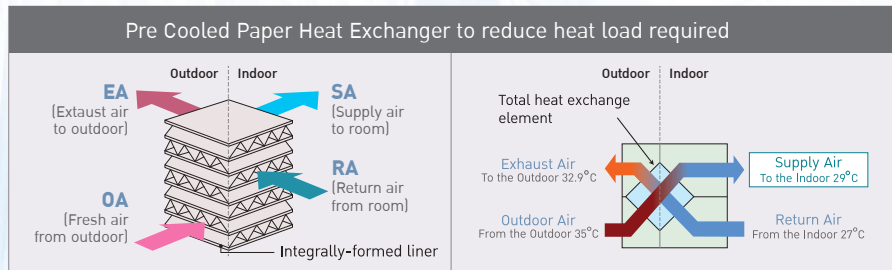
Intaking Pre Cooled Fresh air. Improve system energy efficiency, Lessen required heat load to cool the intake fresh air.

CO2 + PM2.5 + Virus

Daikin Ventilator VAM



VAM-HVE

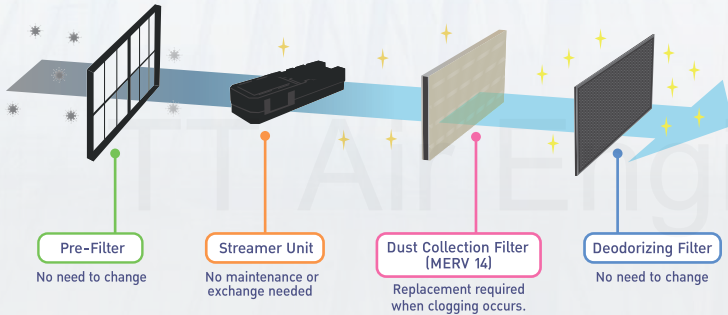


+ Streamer Duct Chamber

BDEZ500A-VE



Filters Mechanism



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

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

CO2 + PM2.5

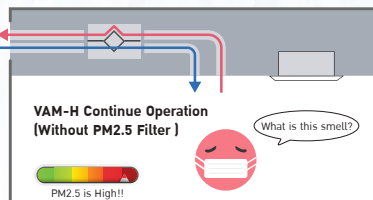
Daikin Ventilator VAM



VAM150/250/350HVE

Without PM2.5 Filter

In case, outdoor condition are polluted...



Ventilation is needed to provide fresh air!

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

+ Built- In PM2.5 Filter

BAFH510A250 /350

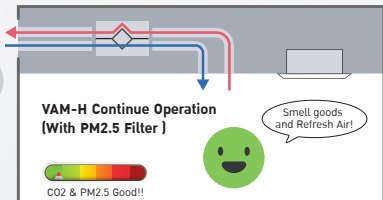
NEW



No Filter Box Required!!

With PM2.5 Filter

In case, outdoor condition are polluted...

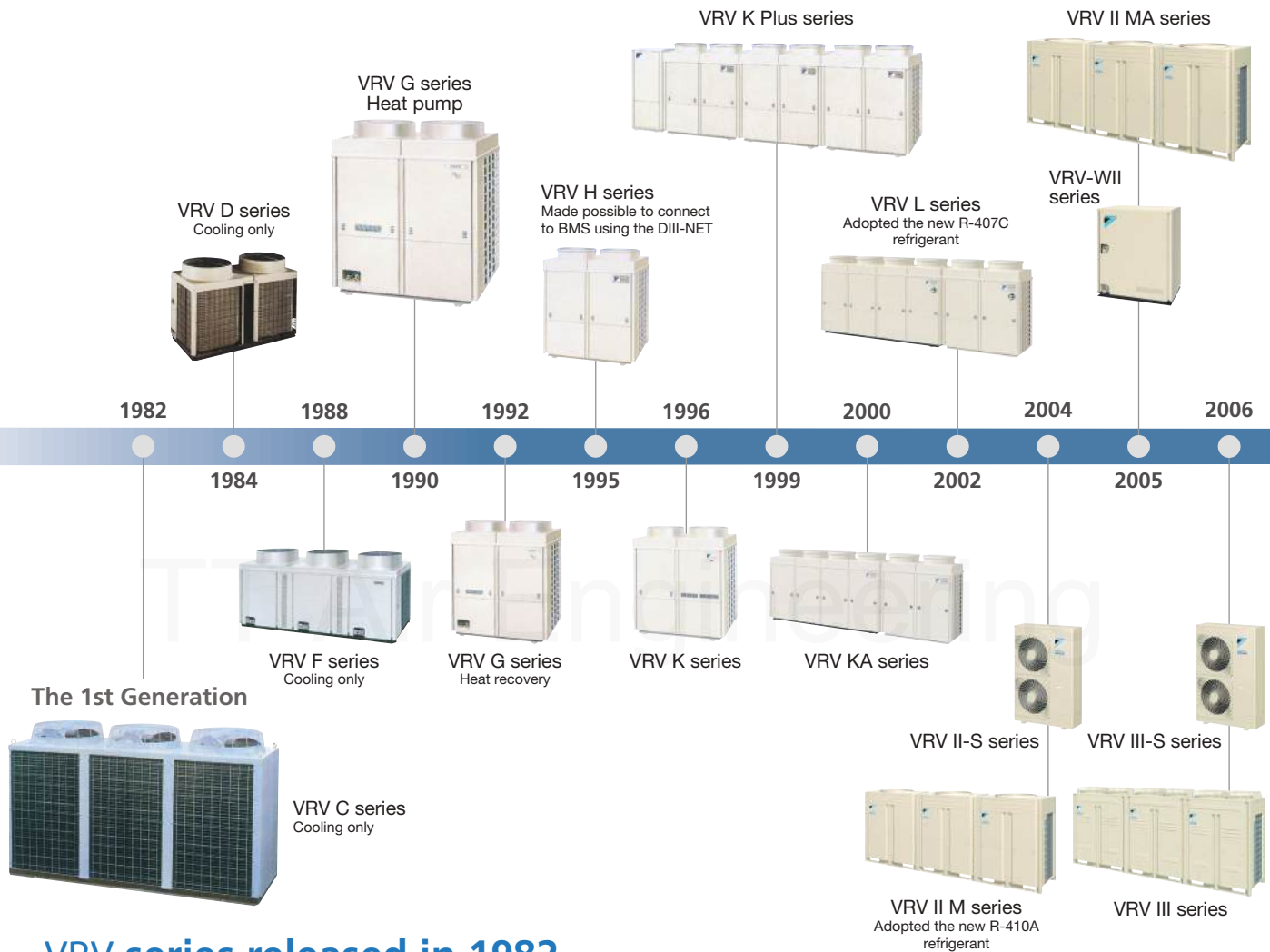


Clean Air to improve your healthy life!

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

VRV Development History

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



VRV series released in 1982

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

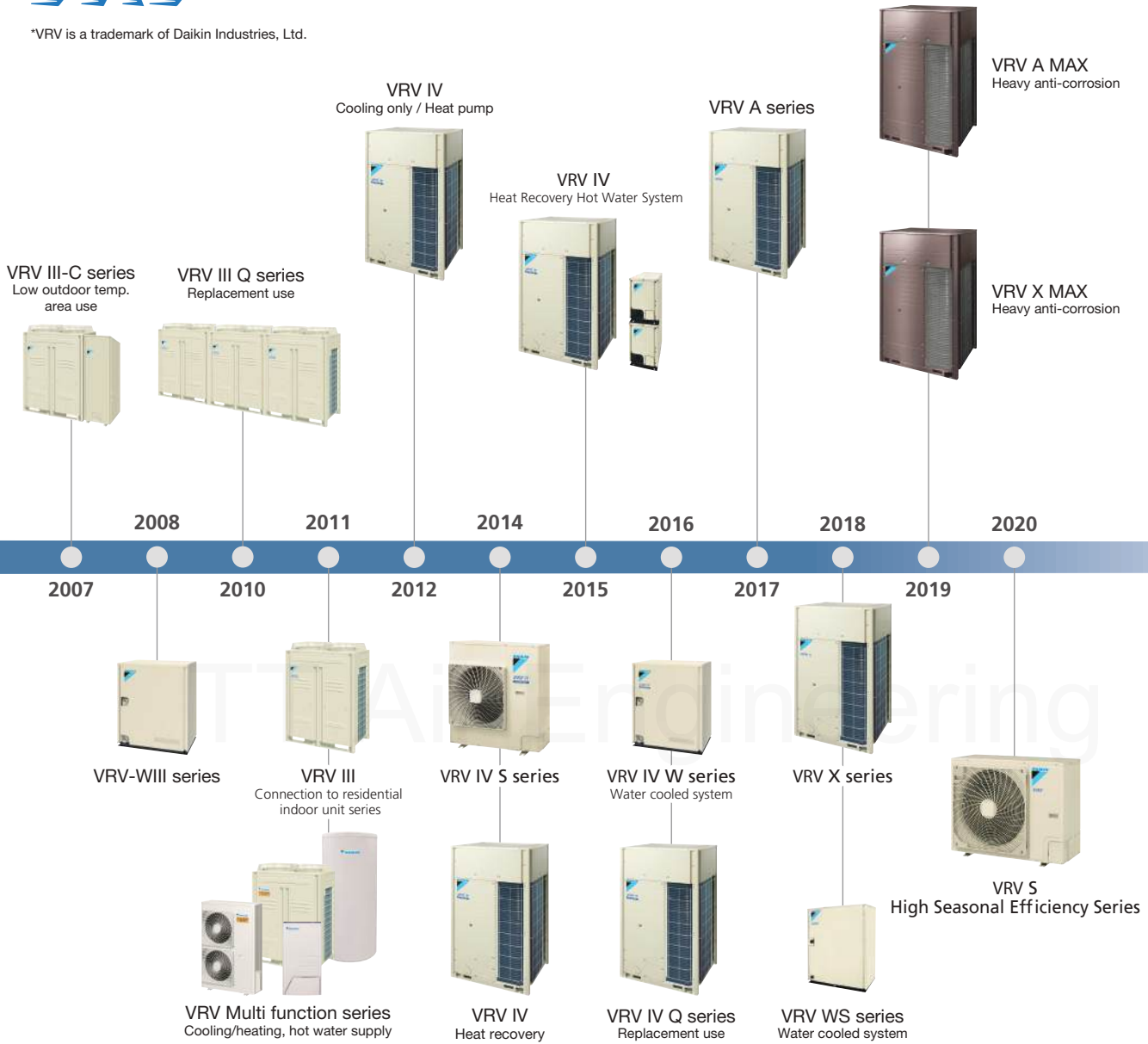
- 2.5-year development term
- Completion of development in May, 1982
- Technical award of Japan Society of Refrigerating & Air-conditioning Engineers in 1983

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



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

VRV X SERIES

Heavy anti-corrosion model
VRV X MAX
RXUQ-AW



New heights in energy efficiency during actual operation

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



Lineup

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



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

VRV A SERIES

Heavy anti-corrosion model
VRV A MAX
RXQ-AW



Saves space and delivers excellent performance

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



Lineup

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



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

VRV S High Seasonal Efficiency SERIES

Especially designed for residential houses, small office and shops

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



Lineup

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



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

VRV IV S SERIES

Especially designed for residential houses, small offices and shops

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



Lineup

HP	4	5	6	8	9
Cooling Only	●	●	●	●	●

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



RQQ-T

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

VRV IV Q SERIES

For quick & high quality replacement use

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

Lineup

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



RWEYQ-T

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

VRV IV W SERIES

Water cooled system suitable for tall multi-storied buildings

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

Lineup

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



RWXQ-A

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

VRV WS SERIES

Water cooled system suitable for residential houses

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

Lineup

HP	4	5	6
Cooling Only	●	●	●



RWHQ-T / HWHQ30A

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

Page
109

VRV IV HEAT RECOVERY HOT WATER SYSTEM

Comfortable air conditioning and energy-efficient hot water heating

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

Lineup

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

VRV *S High Seasonal Efficiency SERIES*

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

Cooling Only

4 HP – 9 HP
(12.1 kW) (24 kW)



Presentation
Movie



**RSUQ4-6AVMS
RSUQ7-9AYMS**

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

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

Energy savings
& comfort

High performance
& reliability

Design
flexibility of
installation

■ Energy savings & comfort

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

■ High performance & reliability

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

■ Design flexibility of installation

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

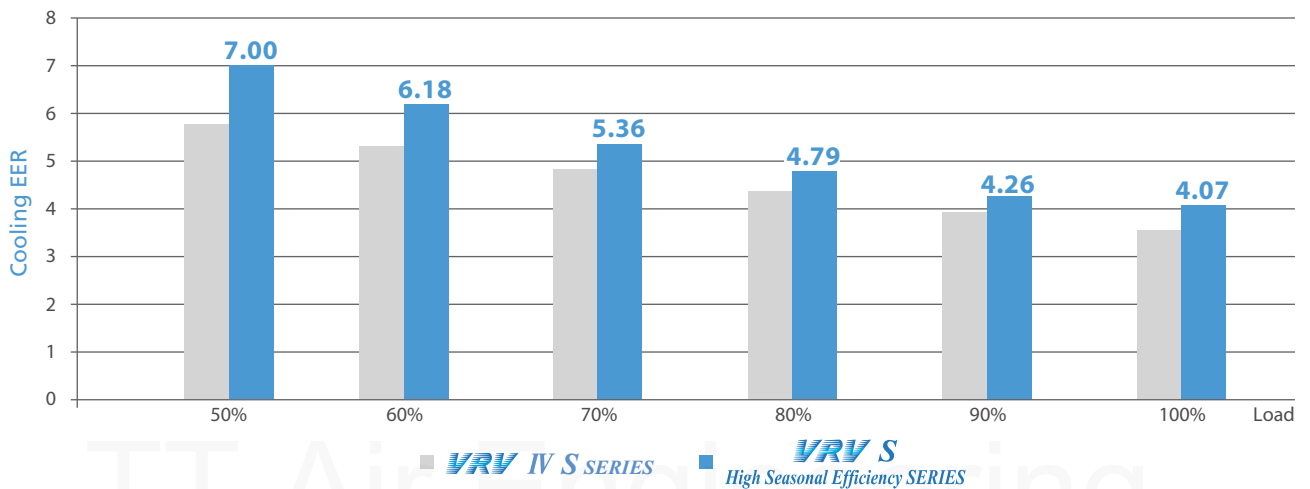
Energy Savings & Comfort

Energy savings

High seasonal efficiency

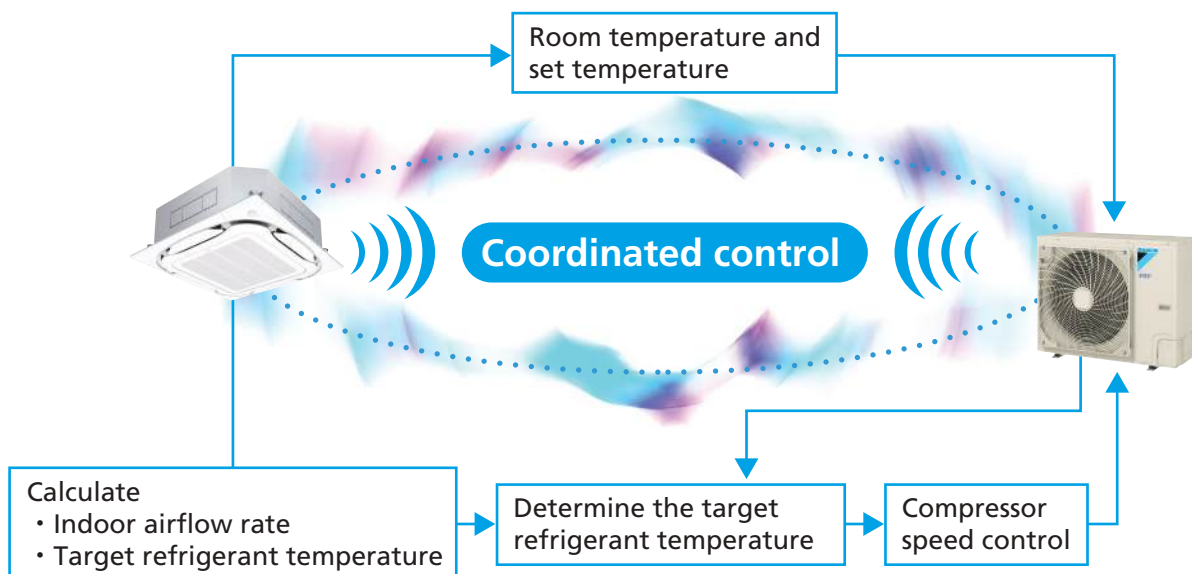
The VRT Smart Control enables improvements on efficiency during low load operation, achieving high seasonal efficiency.

EER for 5 HP



VRT Smart Control

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



- Notes:
- For the classification of indoor units (VRT smart control and VRT control), refer to pages 59 - 60.
 - If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
 - If a system has both outdoor-air processing air conditioners and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

Comfort

Quiet operation

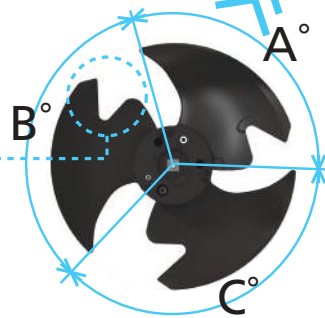
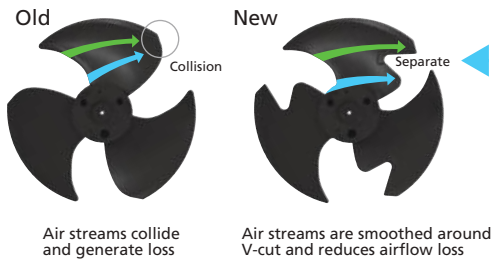
Low operation sound

New fan and bell mouth help enable low operation sound.

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



V-cut & irregular pitch propeller fan



The fan's V-cut enables streamlined and effective airflow.

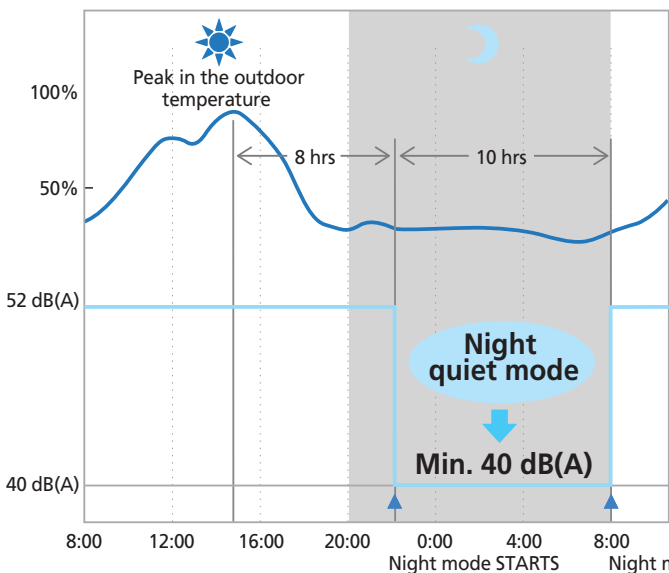
Irregular blade pitch also contributes to reduced airflow noise.

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

Nighttime quiet operation function

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

Cooling	Night Quiet Mode
RSUQ4/5/6A	Min. 40 dB(A)
RSUQ7/8/9A	Min. 45 dB(A)



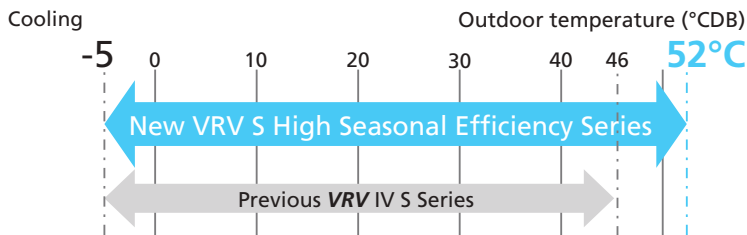
- Notes:
- This function is available in setting at site.
 - The operating sound in quiet operation mode is the actual value measured by our company.
 - The relationship of outdoor temperature (load) and time shown above is just an example.
 - In case of 4-6 HP outdoor unit

High Performance & Reliability

High temperature operation

Extended operation range up to 52°C

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

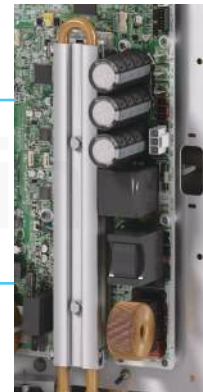


The refrigerant-cooled PCB and large 3-row heat exchanger raise the maximum cooling outdoor operation temperature from 46°C to 52°C.



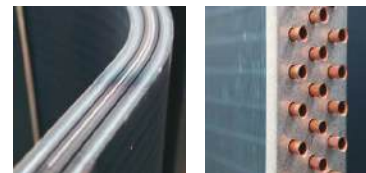
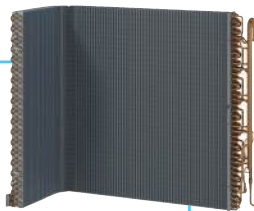
Refrigerant cooled PCB

Daikin's unique refrigerant cooling helps maintain high cooling capacity even during high outdoor temperatures.



New heat exchanger

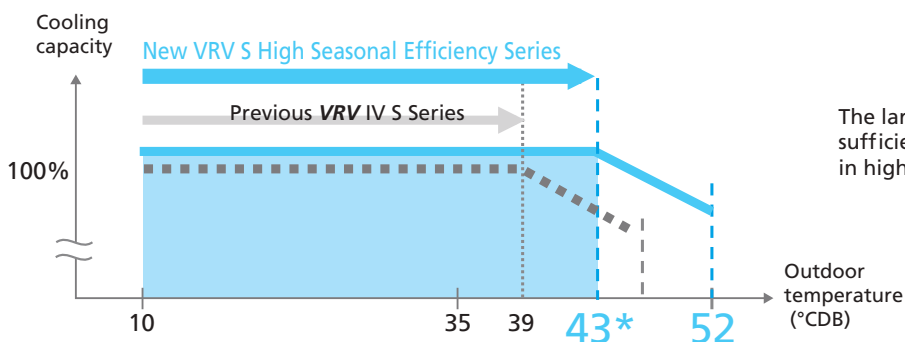
- 2-sided 3-row
- Heat exchanger area **68% UP** (4,5 HP model only)



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

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

*Rated cooling capacity for 9 HP is up to 42°C.



The large heat exchanger ensures sufficient cooling capacity even in high ambient temperatures.

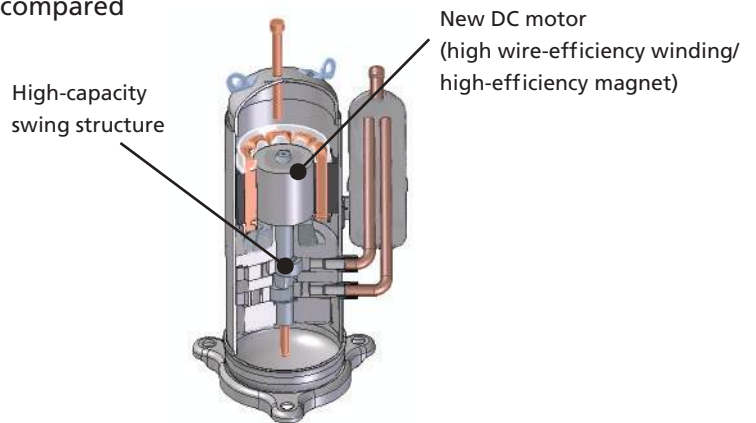
New swing compressor

High efficiency, high capacity DC inverter swing compressor

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

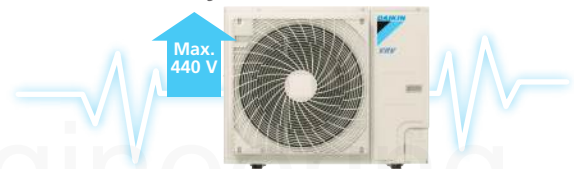
Improved performance

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



High voltage shield PCB (4-6 HP model only)

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



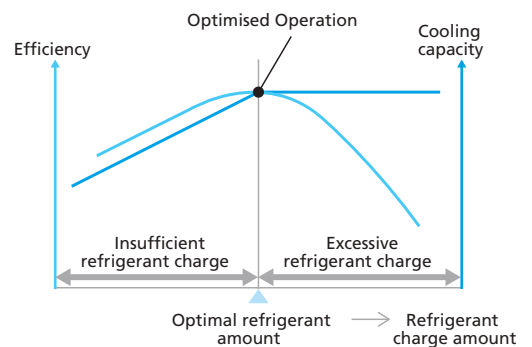
* Continuous operation range is 198 to 264 V.

Automatic refrigerant charge function

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

Optimised operation efficiency

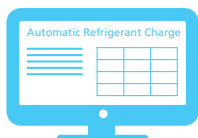
This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



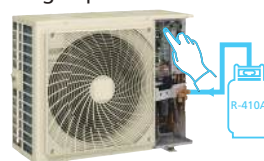
Higher quality and easier installation

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

1 Calculation of necessary refrigerant amount from design drawing



2 Start of automatic refrigerant charge operation



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

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

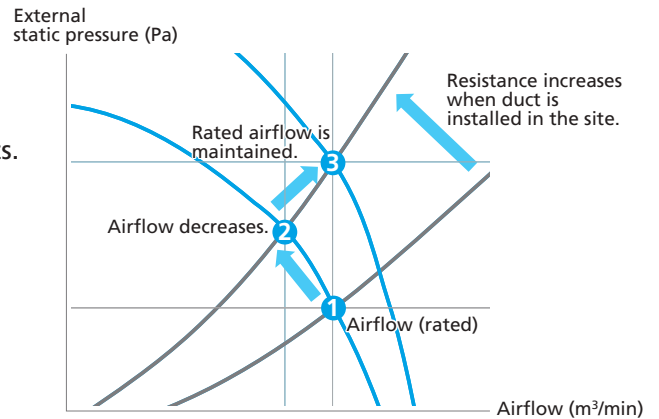
Design Flexibility of Installation

No short circuits

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

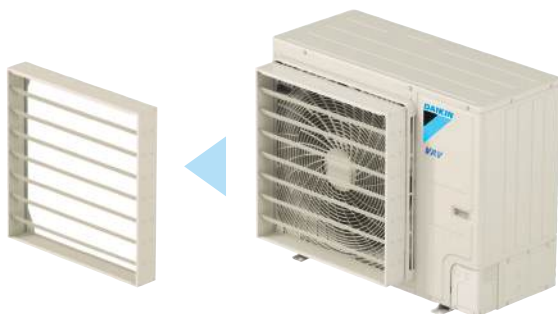
The new **VRV S** High Seasonal Efficiency Series outdoor unit has been achieved high external static pressure up to 40 Pa, realizing stable operation in small installation sites where the air direction adjustment grille or duct is used to avoid short circuits.

The external static pressure automatic adjustment function maintains rated airflow and capacity by automatically adjusting the external static pressure during the test operation to suit the resistance of the installation site.



■ Optimum airflow direction with the optional air direction adjustment grille

When discharged air is blocked by some obstacle, the optional air direction adjustment grille can divert the airflow to one of 4 directions (up, down, left or right) to avoid the obstacle.

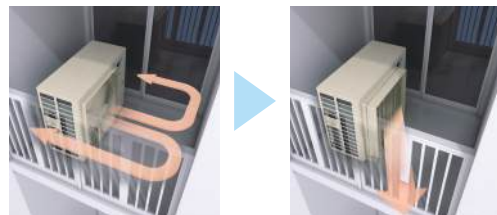


Air direction adjustment grille (option)

Wind is diverted upwards.

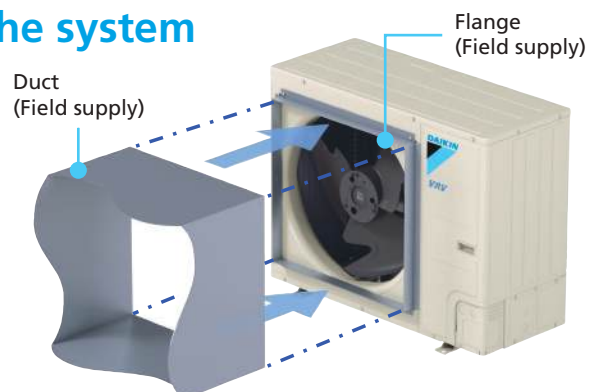


Wind is diverted sideways.



■ Duct installation to stabilize the system

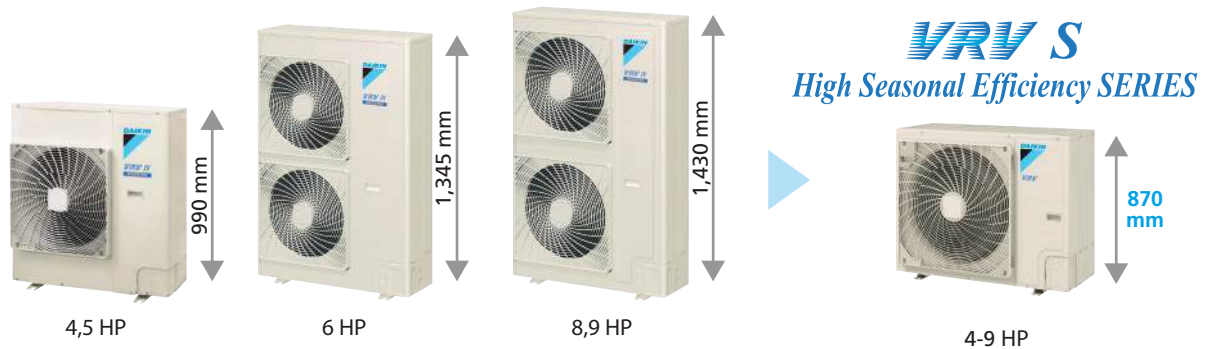
When the obstacle is not avoidable by the air direction adjustment grille, installing a field-supplied duct can bypass the obstacle. In this way, installation of the outdoor unit is possible in places like behind an advertising board.



Low height casing design

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

Previous **VRV IV S** series

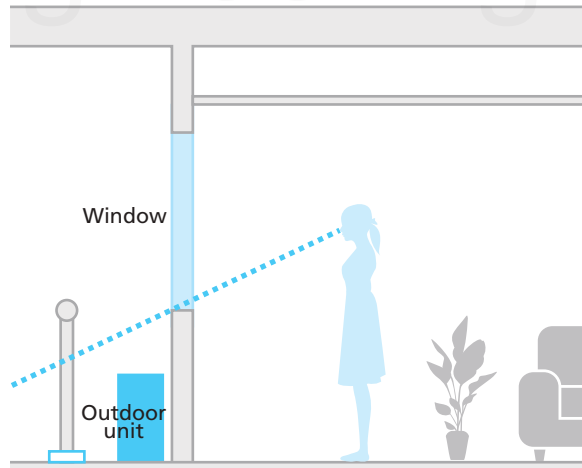


- Ideal solution that minimises both visual and sound impact
- Can be installed in a wide variety of locations and applications
- No space required for multiple outdoor units

View from outside

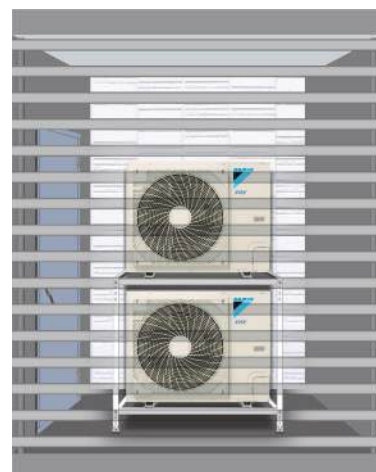


View from inside



Double-stacking installation possible

The low height casing design allows for compact double-stacking of outdoor units to maximize utilization of installation space.



Design Flexibility of Installation

Increased actual piping length up to 120 m*

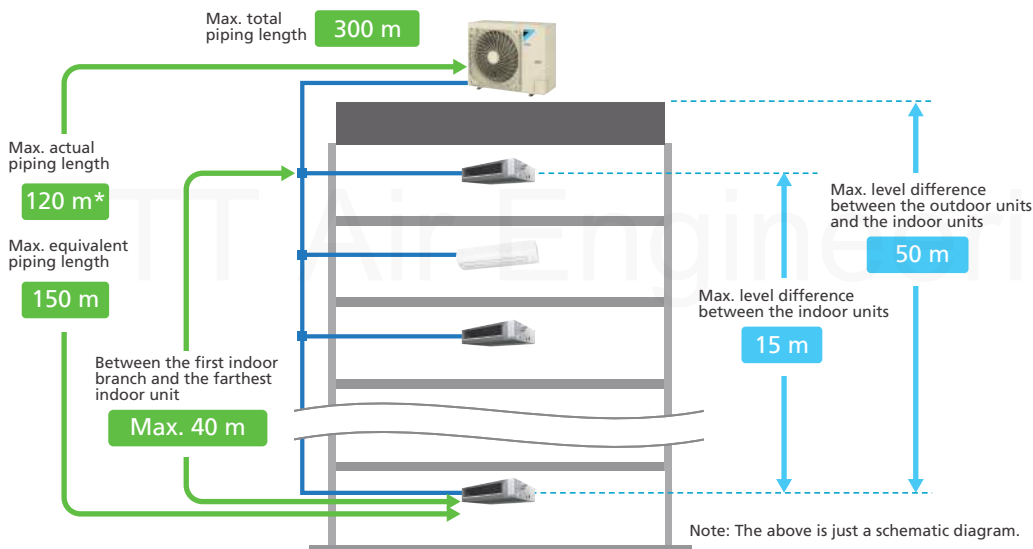
Actual piping length increased by 20% allows for various installation!

Installation on the rooftop of residential apartments

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



Installation for VRV indoor units only



		4 HP	5-9 HP	
Maximum allowable piping length	Actual piping length (Equivalent)	120 m* (150 m)	120 m* (150 m)	
	Total piping length	300 m	300 m	
	Between the first indoor branch and the farthest indoor unit	40 m	40 m	
Maximum allowable level difference	Between the indoor units	10 m	15 m	
	Between the outdoor units and the indoor units	If the outdoor unit is above.	50 m	50 m
		If the outdoor unit is below.	40 m	40 m

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

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	20	25	32	40	50	63	71	80	100	125	140	200	
				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	
				Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200
Ceiling Mounted Cassette	Round Flow Cassette with Sensing	FXFSQ-AVS VRT smart			●	●	●	●	●		●	●	●	●		
		FXFTQ-AVS VRT smart			●	●	●	●	●		●	●	●	●		
	Round Flow Cassette	FXFQ-AVS VRT smart			●	●	●	●	●		●	●	●	●		
		FXFRQ-AVS VRT smart			●	●	●	●	●		●	●	●	●		
	Compact Multi Flow Cassette	FXZQ-BV2S VRT smart		●	●	●	●	●								
	Double Flow Cassette	FXCQ-BVMS VRT smart		●	●	●	●	●	●		●		●			
Single Flow Cassette	FXEQ-AV36 VRT		●	●	●	●	●	●								
Ceiling Concealed Duct	3D Airflow Duct with Sensing	FXDSQ-AVM VRT		●	●	●	●	●								
	Slim Duct (Standard)	FXDQ-PDV2S (with drain pump) VRT smart		(700 mm width type)	●	●	●									
		FXDQ-PDVTS (without drain pump) VRT smart			●	●	●									
		FXDQ-NDV2S (with drain pump) VRT smart		(900/1,100 mm width type)				●	●	●						
		FXDQ-NDVTS (without drain pump) VRT smart						●	●	●						
	Bedroom Duct	FXDBQ-AVMS (with drain pump) VRT smart					●	●	●		●					
	Slim Duct (Compact)	FXDQ-SPV1 VRT		●	●	●	●	●	●							
	Middle Static Pressure Duct	FXSQ-PAVS VRT smart		●	●	●	●	●	●		●	●	●	●		
	Middle-High Static Pressure Duct	FXMQ-PAVS VRT smart		●	●	●	●	●	●		●	●	●	●		
	High Static Pressure Duct	FXMQ-MVES VRT														●
FXMQ-PVM VRT smart															●	
Outdoor-Air Processing Unit	FXMQ-MFV1 VRT												●		●	
	FXMQ-BFV2S VRT smart									●				●	●	
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB VRT								●		●				
	Ceiling Suspended	FXHQ-MAVS VRT				●			●			●				
		FXHQ-BVMS VRT smart												●	●	
Wall Mounted	FXAQ-AVMS 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	VAM-HVE		Airflow rate 150-2000 m3/h													
Duct Streamer Chamber	BDEZ500A-VE		Airflow rate 80-5100 m3/h													

* Optional part

Outdoor Units

VRV S High Seasonal Efficiency Series

Specifications

								
MODEL			RSUQ4AVMS	RSUQ5AVMS	RSUQ6AVMS	RSUQ7AYMS	RSUQ8AYMS	RSUQ9AYMS
Power supply			1-phase, 220-240 V/220-230 V, 50/60 Hz			3-phase, 380-415 V, 50 Hz		
Cooling capacity	Btu/h		41,300	47,800	54,600	68,200	76,400	81,900
	Btu/h*		42,700	49,300	56,300	69,300	79,000	84,100
	kW		12.1 / 12.5*	14.0 / 14.5*	16.0 / 16.5*	20.0 / 20.3*	22.4 / 23.2*	24.0 / 24.7*
SEER* ¹			23.68	21.35	20.77	20.29	19.67	19.67
EGAT Label No.5								
Power consumption	kW		2.85	3.44	4.10	5.46	6.61	7.21
Capacity control	%		23 to 100	16 to 100			9 to 100	
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed swing type					
	Motor output	kW	2.2	3.1	3.5	1.9	3.2	3.8
Airflow rate	m ³ /min		87	84	87	123	137	
Dimensions (HxWxD)	mm		870x1,100x460					
Machine weight	kg		95	98		115		
Sound level	dB(A)		52			58	59	60
Operation range	°CDB		-5 to 52					
Refrigerant	Type		R-410A					
	Charge	kg	4.0	4.2		5.4		
Piping connections	Liquid	mm	φ 9.5 (Flare)			φ 9.5 (Brazing)		
	Gas	mm	φ 15.9 (Flare)		φ 19.1 (Brazing)		φ 22.2 (Brazing)	

*Note: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB; *27°CDB, 19.5°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.
When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.
- Refrigerant charge is required.

*1. SEER official announced from EGAT

Outdoor unit combinations

MODEL			RSUQ4AVMS	RSUQ5AVMS	RSUQ6AVMS	RSUQ7AYMS	RSUQ8AYMS	RSUQ9AYMS
kW			12.1	14.0	16.0	20.0	22.4	24.0
HP			4	5	6	7	8	9
Capacity index			100	125	150	175	200	215
Total capacity index of connectable indoor units	Combination (%)	50%	50	62.5	75	87.5	100	107.5
		100%	100	125	150	175	200	215
		130%	130	162.5	195	227.5	260	280
Maximum number of connectable indoor units			6	8	9	11	13	14

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

Option List

Outdoor units

VRV S High Seasonal Efficiency SERIES

No.	Item	Type	RSUQ4A	RSUQ5A	RSUQ6A	RSUQ7A	RSUQ8A	RSUQ9A
1	Header pack		BHF6RHP6Z, BHF6ARHP6Z, BHF8RHP6Z					
2	REFNET header		KHRP26M22H (Max. 4 branch), KHRP26M33H (Max. 8 branch)					
3	REFNET joint		KHRP26A22T			KHRP26A22T, KHRP26A33T		
4	Drain plug		BKP082A41					
5	Air direction adjustment grille		KPW082A41					

Option PCB

No.	Item	Type	RSUQ4A	RSUQ5A	RSUQ6A	RSUQ7A	RSUQ8A	RSUQ9A
1	DIII-NET expander adaptor		DTA109A51					
2	External control adaptor		DTA104A61					
3	Home Automation Interface Adaptor		DTA116A51					
4	Option plate for control adaptor		BKS26B			BKS26C		

Daikin Engineering Supports

VRV design and sales proposal assistance

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



Design assistance

For consultants and architects

Combines energy efficiency and comfort

Heat load calculation

CFD simulation to optimise outdoor unit layouts

Design flexibility

Heat load calculation

Model selection

Drawing materials support



Sales proposals

For air conditioning engineers and dealers

Heat load calculation

Model selection



Model selection software

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

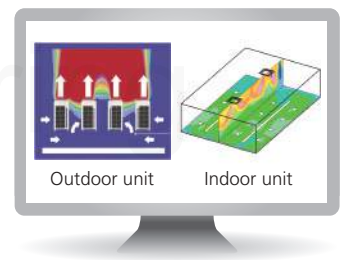
CADXpress



CFD simulation to optimise outdoor unit layouts

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

DT FLOW 2

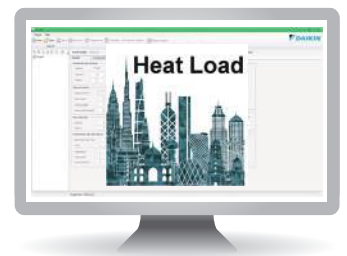


New software for indoor airflow simulation will be coming soon. Indoor airflow simulation is a method for predicting temperature distribution and velocity distribution of indoor environment.

Heat load calculation

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

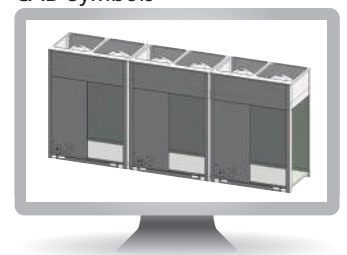
DS-HL2



Drawing supports

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

CAD Symbols



VRV User Benefits



For property OWNERS

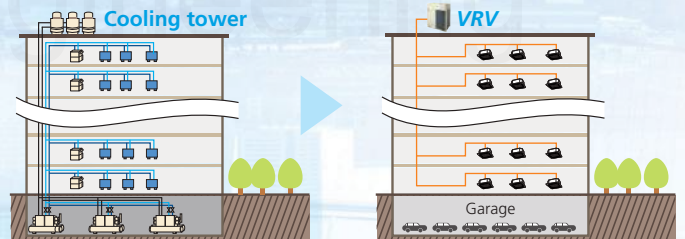
Energy saving & comfortable environment

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



Efficient space utilisation

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



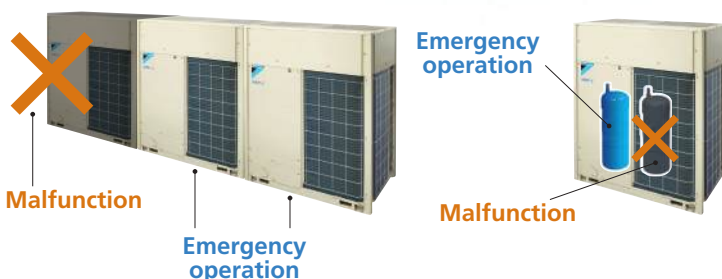
High reliability

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

Refrigerant piping



Print circuit board



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





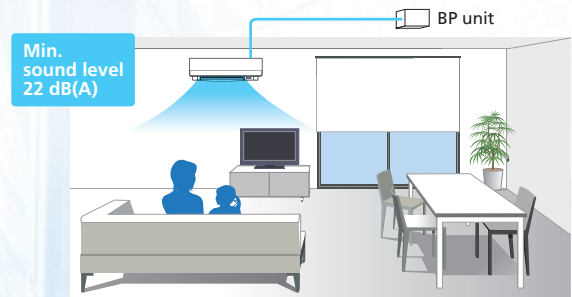
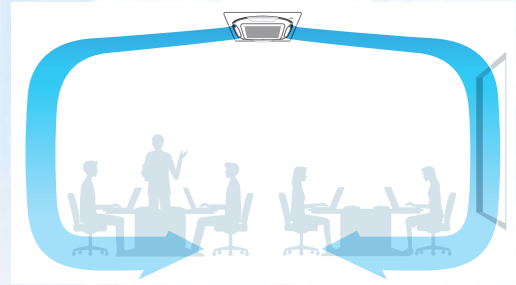
For USERS

Comfortable environment

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

Residential indoor units

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



For CONSULTANT and DESIGN OFFICES

Varied lineup of models

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

Long piping provides more flexible system design

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

Compatible with engineering software

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

Energy efficient

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



CADxpress



For INSTALLERS

Automatic refrigerant charge function

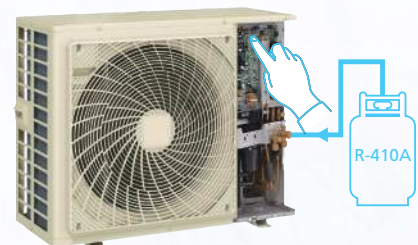
- Automates the charging of proper refrigerant amount to contribute to optimised operation efficiency, higher quality and easier installation.

Lightweight and compact large-capacity single units

- Easy to install and can be transported in elevators.

Simple piping, easy wiring

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



TT Air Engineering



TIS 1529-2561

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

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Bangkok 10250

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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 October 2020 but subject to change without notice.

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