





High Seasonal Efficiency SERIES

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



RSUYQ4-6AVMA RSUYQ7-8AYM





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

l 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

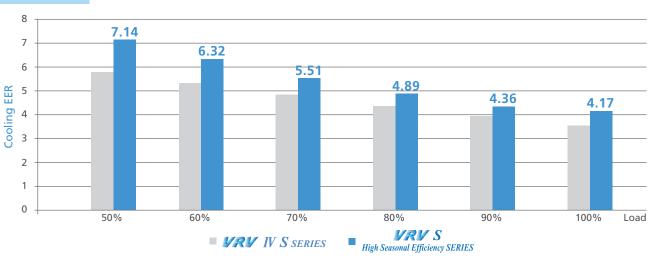
- ✓ The high external static pressure of 40 Pa enables installation in small installation spaces where the airflow direction needs to be diverted to avoid short circuits.
- ✓ Low height casing design
- \checkmark Increased actual piping length up to 120 m

Energy Savings & Comfort

Energy savings

High seasonal efficiency

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

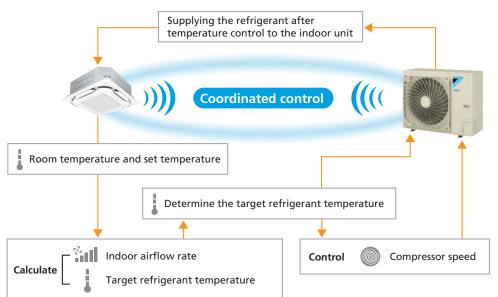


EER for 5 class

VRT Smart Control

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





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

• If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.

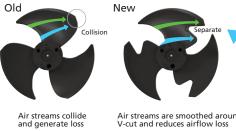
• If a system has outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

VRV S High Seasonal Efficiency Series

Comfort

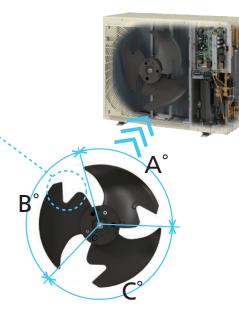
Quiet operation

V-cut & irregular pitch propeller fan



Air streams are smoothed around V-cut and reduces airflow loss

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

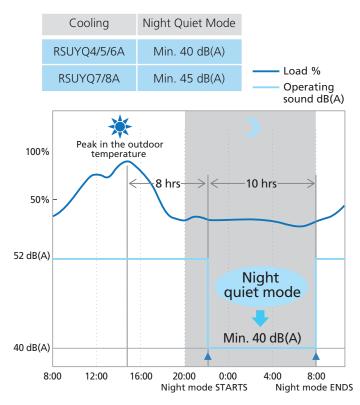


Irregular blade pitch also contributes to reduced airflow noise. $A^{\circ} < B^{\circ} < C^{\circ}$

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.





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

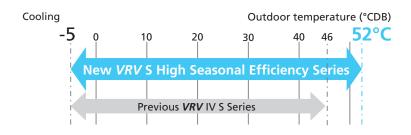
- The operating sound in quiet operation mode is the actual value measured by our company.
 - The relationship of outdoor temperature (load) and time shown above is just an example. • In case of 4-6 class outdoor unit

High Performance & Reliability

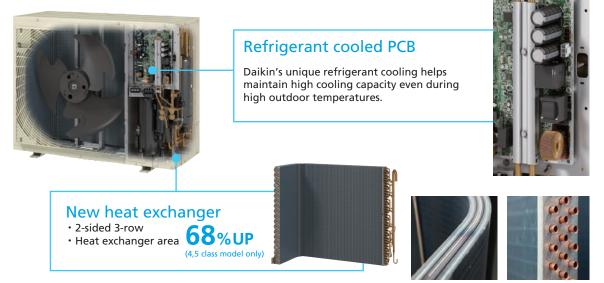
High temperature operation

Extended operation range up to 52°C

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



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



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

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



New swing compressor

High efficiency, high capacity DC inverter swing compressor

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

High-capacity swing structure

New DC motor (high wire-efficiency winding/ high-efficiency magnet)

Improved performance

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

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

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



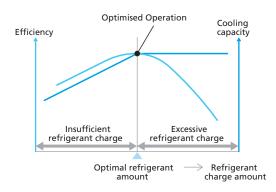
* Continuous operation range is 198 to 264 V.

Automatic refrigerant charge function

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

Optimised operation efficiency

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



Higher quality and easier installation

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

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

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

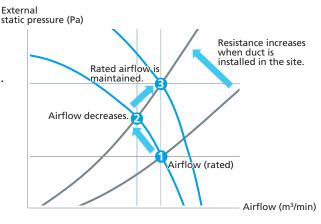
Design Flexibility of Installation

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.

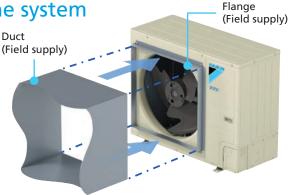


Wind is diverted sideways.



Duct installation to stabilize the system

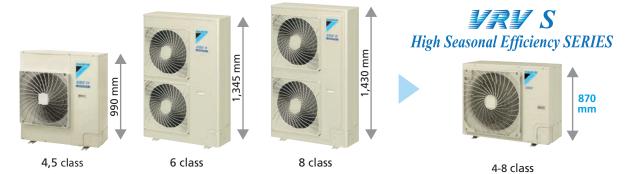
When the obstacle is not avoidable by the air direction adjustment grille, installing a field-supplied duct can bypass the obstacle. In this way, installation of the outdoor unit is possible in places like behind an advertising board.



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

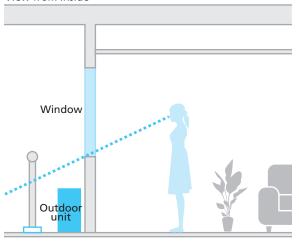


Ideal solution that minimises both visual and sound impact
Can be installed in a wide variety of locations and applications
No space required for multiple outdoor units



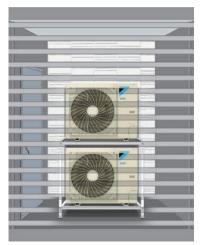


View from inside



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*

VRV S

High Seasonal Efficiency SERIES

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

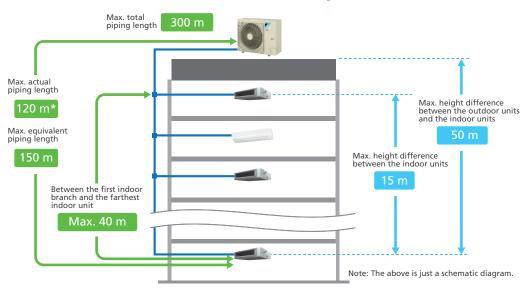
Previous VRV IV S series

100 m

Installation on the rooftop of residential apartments



Installation for VRV indoor units only



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

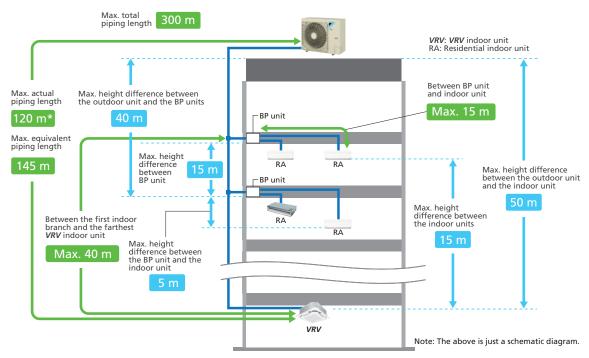
* If pipe length exceeds 90 m, must use automatic refrigerant charge function. Refer to installation manual for details. Installation on balconies of residential apartments



One outdoor unit can provide comfort for the whole house



Installation for mixed combination of *VRV* and residential indoor units



			4 class	5-8 class
	Actual piping length (Equiv	120 m* (145 m)	120 m* (145 m)	
	Total piping length	300 m	300 m	
		If indoor unit capacity index < 60.	2 m–15 m	2 m–15 m
Maximum allowable	Between BP unit and indoor unit	If indoor unit capacity index is 60.	2 m–12 m	2 m–12 m
piping length		If indoor unit capacity index is 71.	2 m–8 m	2 m–8 m
	Between the first indoor br between the first indoor br	40 m	40 m	
Minimum allowable piping length	Between outdoor unit and	Between outdoor unit and the first indoor branch		5 m
	Between the indoor units	10 m	15 m	
	Between BP units	10 m	15 m	
Maximum allowable	Between the outdoor unit	If the outdoor unit is above.	50 m	50 m
height difference	and the indoor unit	If the outdoor unit is below.	40 m	40 m
	Between the outdoor unit a	40 m	40 m	
	Between the BP unit and th	5 m	5 m	

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

Indoor Unit Lineup

Wide variety of indoor units

Indoor units can be selected from 2 lineups, both *VRV* and residential indoor units, to match rooms and preferences.

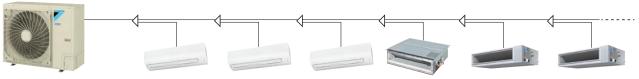
VR	/ indoor units									(N	ew line	eup					ts subj contro	ject to ol
ory				20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
Category	Туре	Model Name	Capacity Range (kW)	2.2	2.8	3.6	4.5	5.6					14		16.2	18	20	22.4	28
Ca			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
tte	Round Flow Cassette with Sensing and Streamer																		1
Casse [.]	Round Flow Cassette with Sensing	FXFSQ-AVM 💩																	
ounted	Compact Multi Flow Cassette	😡 FXZQ-BVM 🔊																	
Ceiling Mounted Cassette	Double Flow Cassette	NOT FXCQ-BVM																	
Ce	Single Flow Cassette	FXEQ-AV36											- - - - -						
	Slim Duct (Standard)	FXDQ-PDVE 🔊	(700 mm width type)				1						 	1					
		FXDQ-NDVE	(900/1,100 mm width type)		 														
Duct	Slim Duct (Compact)	FXDQ-TV1C(A)										 	 						
ealed D		FXDQ-SPV1											 						1 1
Conce	Middle Static	FXSQ-PAVE 🔊																	
eiling	Pressure Duct	FXDYQ-MAV1					, , , ,							1					
Ŭ	Middle-High Static Pressure Duct	FXMQ-PAVE																	
	High Static Pressure Duct	FXMQ-PV1A		 			 						 	1 1 1 1					
	Outdoor-Air Processing Unit	FXMQ-AFVM					 						1 1 1 1						
ended	4-Way Flow Ceiling Suspended	FXUQ-AVEB		 	1		 						1 1 1 1	1 1 1 1					
Ceiling Suspended	Ceiling Suspended	FXHQ-MAVE		1 1 1 1	 		 						 						1
Ceilir		FXHQ-BVM		 	1	 	 	1 1 1]
Wa	ll Mounted	FXAQ-AVM 💩											 						
Floor Standing	Floor Standing	FXLQ-MAVE																	
Floor S:	Concealed Floor Standing (Duct Connection)	FXNQ-A2VEB											 	 					
Hea	at Reclaim Ventilator	VAM-HVE	00	Air	flow	rate 1	50-20	000 n	n³/h										

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

Residential indoor units with connection to BP units

			20	25	35	50	60	71
Туре	Model Name	Rated Capacity (kW)	2.0	2.5	3.5	5.0	6.0	7.1
		Capacity Index	20	25	35	50	60	71
Compact Multi Flow Cassette	FFQ-BV1B							
Slim Ceiling Concealed Duct	FDXS-CVMA	(900/1,100 mm width type)						
Wall Mounted	FTXS-KVMA							
wan wounted	FTXS-KAVMA			1 1 1 1 1 1				

Note: BP units are necessary for residential indoor units.



VRV indoor units only



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 outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.



Residential indoor units only



BP units are necessary for residential indoor units.
If a system has only residential indoor units, the system is operated under VRT control.





Outdoor Units

VRV S High Seasonal Efficiency Series

Specifications

Heat Pump

N	IODEL		RSUYQ4AVMA	RSUYQ5AVMA	RSUYQ6AVMA	RSUYQ7AYM	RSUYQ8AYM			
Power supply			1-ph	ase, 220-240/220-230 V, 50/	3-phase, 380-415 V/380 V, 50/60 Hz					
		Btu/h	38,200	47,800	54,600	68,200	76,400			
Cooling capacity		kW	11.2	14.0	16.0	20.0	22.4			
		Btu/h	42,700	54,600	61,400	76,400	85,300			
Heating capacity		kW	12.5	16.0	18.0	22.4	25.0			
Power	Cooling	kW	2.48	3.36	3.95	5.46	6.61			
consumption	Heating	kW	2.51	3.28	3.90	5.10	5.92			
Capacity control		%	23 to 100	15 t	o 100	9 to	100			
AEER*	Cooling		4.07	3.81	3.73	3.42	3.19			
ACOP*	Heating		4.46	4.42	4.22	4.09	3.95			
TCSPF* (Cooling)	Hot		5.85 / 5.29	6.04 / 5.45	6.10 / 5.51	5.34 / 4.87	5.18/4.71			
Commercial /	Average		5.57 / 4.21	5.91 / 4.47	6.04 / 4.60	5.30 / 4.13	5.19/4.06			
Residential	Cold		5.78 / 4.09	6.23 / 4.45	6.39 / 4.63	5.60 / 4.15	5.53 / 4.14			
USPE# (Heating)	Hot		4.96 / 4.98	4.69 / 4.71	4.37 / 4.39	5.00 / 5.00	4.83 / 4.82			
HSPF* (Heating) Commercial /	Average		4.81 / 4.74	4.55 / 4.50	4.25 / 4.22	4.74 / 4.58	4.58 / 4.41			
Residential	Cold		4.56 / 4.47	4.28 / 4.18	4.02 / 3.95	4.42 / 4.22	4.27 / 4.07			
Casing colour			lvory white (5Y7.5/1)							
	Туре		Hermetically sealed swing type							
Compressor	Motor output (Cooling / Heating)	kW	2.0/2.4	3.1/3.6	3.5/4.0	1.9/2.3	3.2/3.2			
	Cooling	ℓ/s	1,450	1,400	1,450	2,0	50			
a : []	Cooling	m³/min	87	84	87	12	23			
Airflow rate	Heating	ℓ/s	1,500	1,400	1,567	2,283	2,417			
	neating	m³/min	90	84	94	137	145			
Dimensions (H×W×	:D)	mm								
Machine weight		kg	95		98	12	20			
Sound pressure leve (Cooling/Heating)	el	dB(A)	52/54	53/54	55/56	58/61	59/63			
Sound power level (Cooling/Heating)		dB(A)	73/75	74/75	76/77	79/82	80/84			
Operation Cooling °CDB		°CDB	-5 to 52							
range	Heating	°CWB	-20 to 15.5							
Pofrigorant	Туре				R-410A					
Refrigerant	Charge	kg	4.0	4	.2	5	4			
Piping	Liquid	mm			φ9.5 (Flare)					
connections	Gas	mm	ф15.9	(Flare)		\$ 19.1 (Brazing)				

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

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

Sound level: Anechoic chamber conversion value, measured at a point in min front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

• Refrigerant charge is required.

★ Values based on the Energy Efficiency (Energy Using Products) Amendment Regulations 2020.

TCSPF: Total Cooling Seasonal Performance Factor

HSPF: Heating Seasonal Performance Factor

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

by the air-conditioner during the Total Cooling & Heating operation periods in a year. Whereas the previous index of AEER & ACOP was calculated using only one representative outdoor temperature (35°C for cooling and 7°C for heating), the new index of TCSPF & HSPF uses a broader range of annual outdoor temperatures* as stipulated in AS/NZS 3823.4.1:2014.

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

This allows you to determine the performance efficiency of different air-conditioners by comparing their TCSPF & HSPF within the same climate zone. * There are two kinds of annual outdoor temperatures and it's different for residential and commercial use.

	MODEL		RSUYQ4AVMA	RSUYQ5AVMA	RSUYQ6AVMA	RSUYQ7AYM	RSUYQ8AYM
kW		11.2	11.2 14.0 16.0 20.0		20.0	22.4	
Class		4	5	6 7		8	
Capacity index			100	125	150	175	200
		50% ^{*1}	50	62.5	75	87.5	100
Total capacity index of	Combination(%)	80%*2	80	100	120	140	160
connectable indoor units	Combination(%)	100%	100	125	150	175	200
		130%	130	162.5	195	227.5	260
Maximum number of connectable indoor units		6	8	9	11	13	

Outdoor unit combinations

Note: ★ 1. When only VRV indoor units are connected, total capacity index of connectable indoor units must be 50%-130% of the capacity index of the outdoor unit. ★ 2. When a mixed combination of VRV and residential indoor units is connected or when only residential indoor units are connected, total capacity index of connectable indoor units must be 80%-130% of the capacity index of the outdoor unit.

The specifications, designs and information in this brochure are subject to Change without notice. Unit colours shown are as close as possible to actual unit colours. Colours depicted in this brochure may vary slightly.

ASSUMPTIONS

All representations made in Daikin marketing and promotional material are based on the assumptions that the correct equipment has been selected, appropriately sized and installed in accordance with Daikin's installation instructions and standard industry practices.

QUALITY CERTIFICATIONS

Daikin Industries Ltd was the first air conditioning equipment manufacturer in Japan to receive ISO 9001 certification. All Daikin manufacturing facilities have been certified to ISO 9001 Quality Management System requirements. ISO 9001 is a certificate for quality assurance concerning 'design, development, manufacturing, installation and related service' of products manufactured at hat factory. ENVIRONMENTAL CERTIFICATIONS

Daikin Industries Ltd has received ISO 14001 Environmental Certification for the Daikin production facilities listed below. ISO 14001 is an international standard specifying requirement for an environmental management system, enabling an organisation to formulate policy and objectives, taking into account legislative requirements and information about significant environmental impacts. It applies to those environmental aspects within the organisation's control and over which it can be expected to have an influence.

The certification relates only to the environmental management system and does not constitute any endorsement of the products shipped from the facility by the International Organisation for Standardisation.

> Quality ISO 9001

Head Office / Tokyo Office Shiga Plant (Japan) Sakai Plant (Japan) Daikin Industries (Thailand) Ltc Yodogawa Plant (Japan) Daikin Australia Pty. Ltd. Certificate number: EC02J03 Certificate number: EC09J20 Certificate number: JQA-E-8 Certificate number: JQA-E-9 Certificate number: EC99J20 Certificate number: CEM204

Air Conditioning C ing Div (ISO 9001) ai

commercial Air Conditioning ind Refrigeration Aanufacturing Div (ISO 9001) MI0107 December 28, 1992 Kanaoka Factory and Rinkai actory at Sakai Plant) Industrial System and Chiller Products Manufacturing Div (ISO 9001) JOA-0495 May 16, 1994 (Yodogawa Plant and Kanaoka

Daikin Europe N.V (ISO 9001)

Daikin Industries (Thailand) Lto JQA-1452 September 13, 2002 (ISO 9001)



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