VRV S High Seasonal Efficiency SERIES

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

Heat Pump
4 class (11.2 kW) – **8** class (22.4 kW)

New

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

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

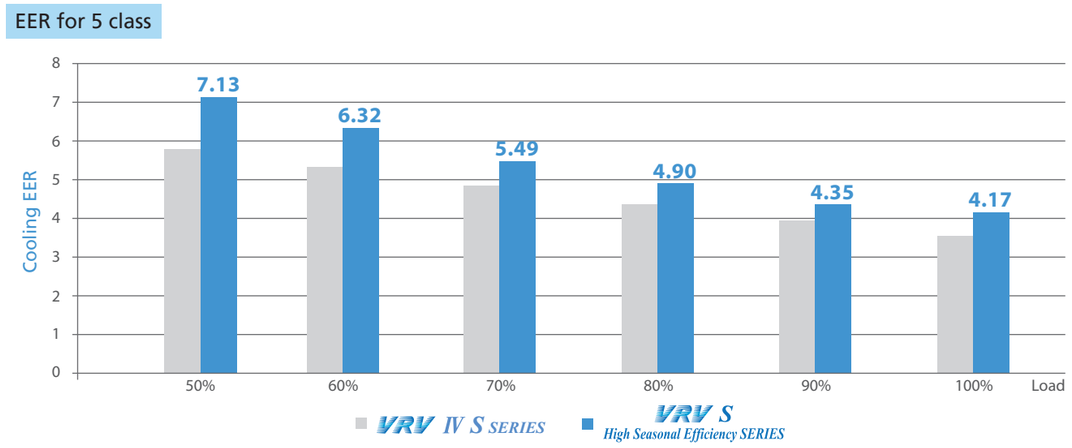
- ✓ The high external static pressure of 40 Pa enables installation in small installation spaces where the airflow direction needs to be diverted to avoid short circuits.
- ✓ Low height casing design
- ✓ Increased actual piping length up to 120 m

Energy Savings & Comfort

Energy savings

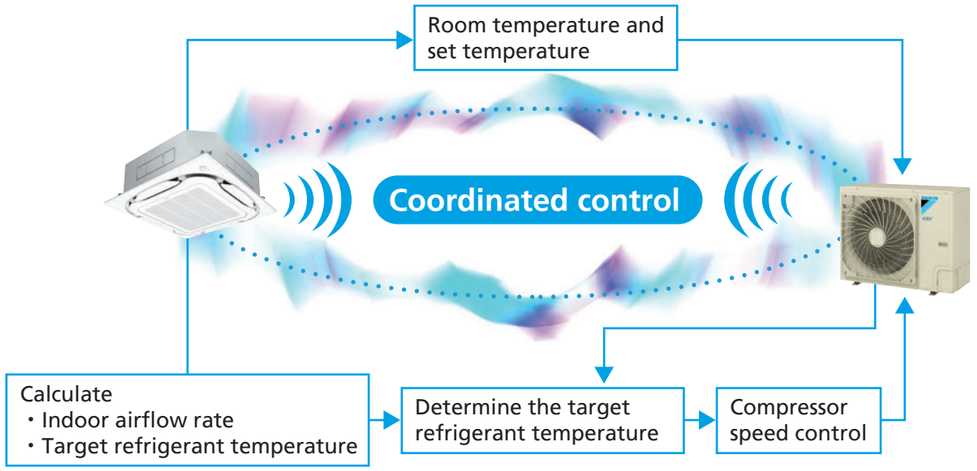
High seasonal efficiency

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



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.

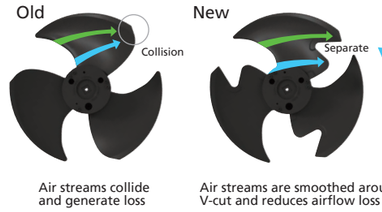


Notes: • For the classification of indoor units (VRT smart control and VRT control), refer to pages 59 - 60.
• If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
• If a system has both outdoor-air processing air conditioners and outdoor-air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

Comfort

Quiet operation

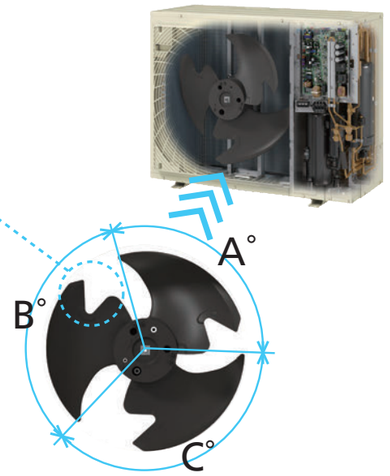
V-cut & irregular pitch propeller fan



Air streams collide and generate loss

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

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



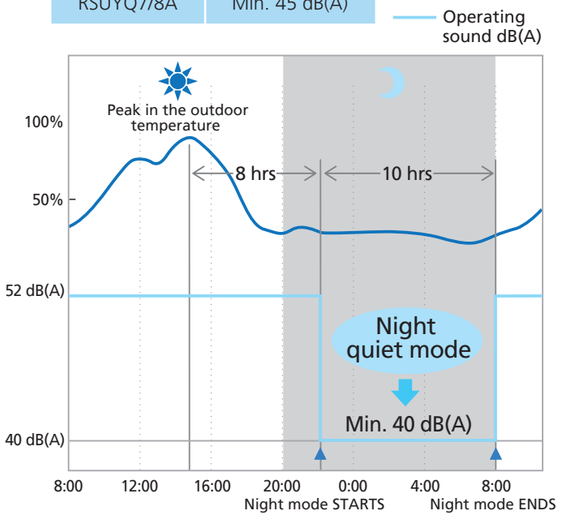
Irregular blade pitch also contributes to reduced airflow noise.

A°< B°< C°

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
RSUYQ4/5/6A	Min. 40 dB(A)
RSUYQ7/8A	Min. 45 dB(A)



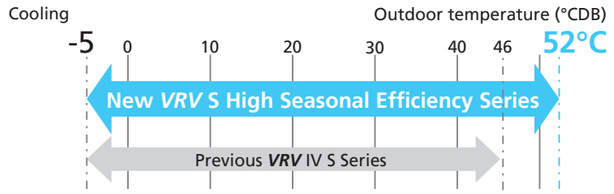
Notes: • This function is available in setting at site.
• The operating sound in quiet operation mode is the actual value measured by our company.
• The relationship of outdoor temperature (load) and time shown above is just an example.
• In case of 4-6 class outdoor unit

High Performance & Reliability

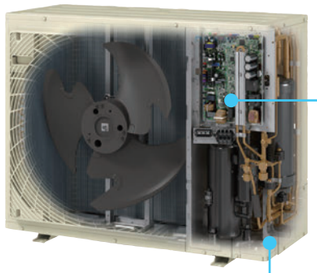
High temperature operation

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.

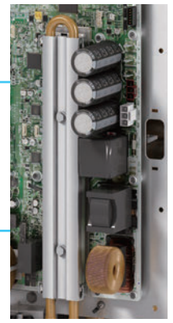


The refrigerant-cooled PCB and large 3-row heat exchanger raise the maximum cooling outdoor operation temperature from 46°C to 52°C.



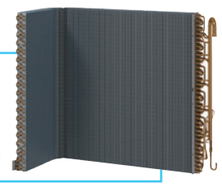
Refrigerant cooled PCB

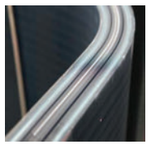
Daikin's unique refrigerant cooling helps maintain high cooling capacity even during high outdoor temperatures.



New heat exchanger

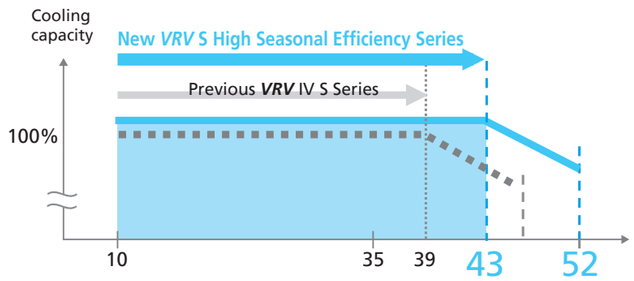
- 2-sided 3-row
- Heat exchanger area **68%UP** (4,5 class model only)





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.

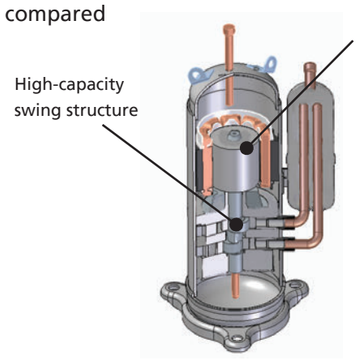


The large heat exchanger ensures sufficient cooling capacity even in high ambient temperatures.

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 class model only)

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

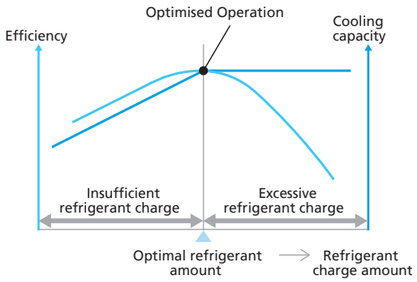
* Continuous operation range is 198 to 264 V.

Automatic refrigerant charge function

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

Optimised operation efficiency

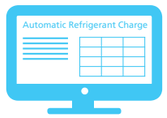
This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



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.

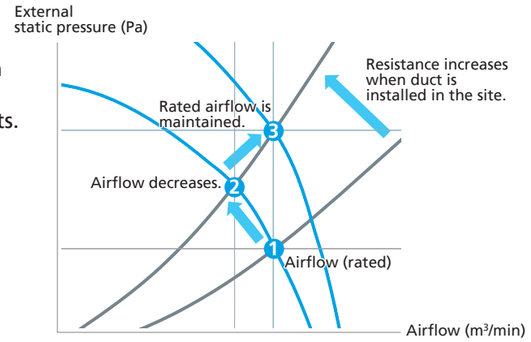
Design Flexibility of Installation

No short circuits

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

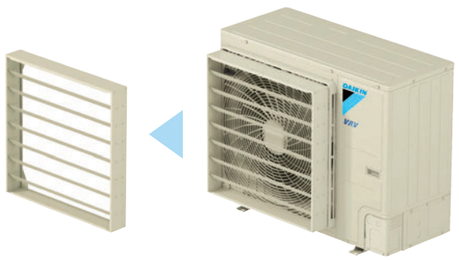
The new ***VRV*** S High Seasonal Efficiency Series outdoor unit has been achieved high external static pressure up to 40 Pa, realizing stable operation in small installation sites where the air direction adjustment grille or duct is used to avoid short circuits.

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.



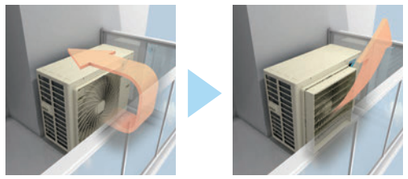
Optimum airflow direction with the optional air direction adjustment grille

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.

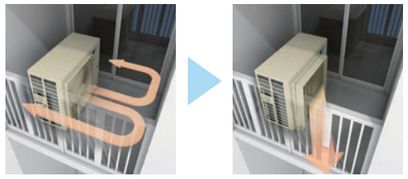


Air direction adjustment grille (option)

Wind is diverted upwards.

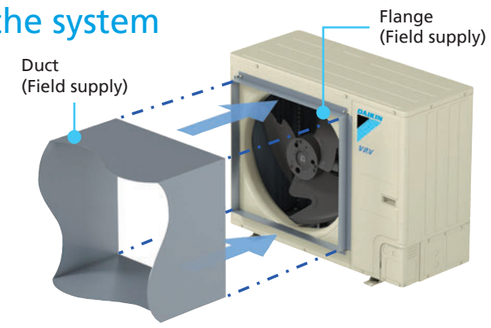


Wind is diverted sideways.



Duct installation to stabilize the system

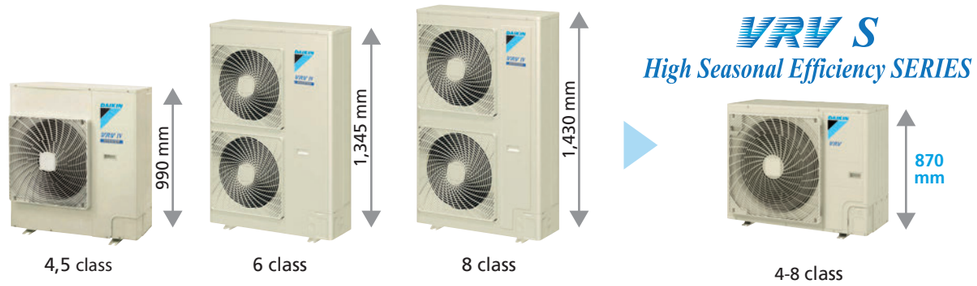
When the obstacle is not avoidable by the air direction adjustment grille, installing a field-supplied duct can bypass the obstacle. In this way, installation of the outdoor unit is possible in places like behind an advertising board.



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.

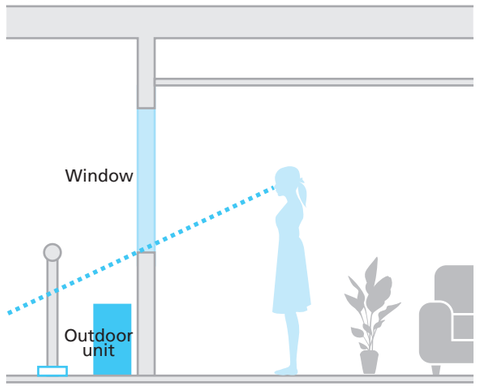
Previous ***VRV*** IV S series



- 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

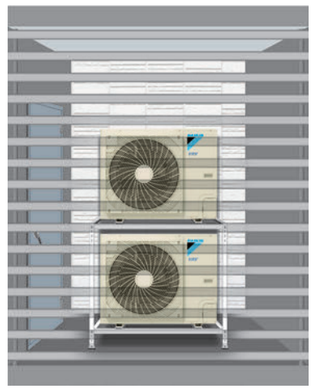
View from outside

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!

Previous ***VRV*** IV S series

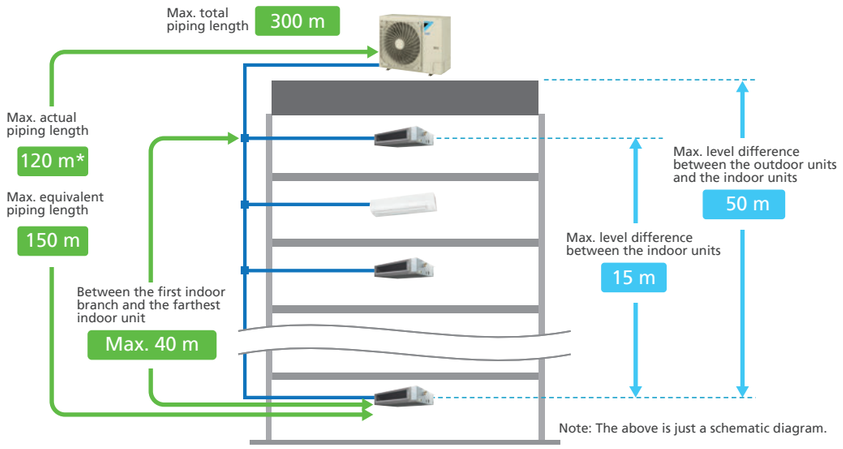
100 m ▶ VRV S High Seasonal Efficiency SERIES **120 m***

Installation on the rooftop of residential apartments

Installation on balconies of residential apartments

One outdoor unit can provide comfort for the whole house

Installation for ***VRV*** indoor units only

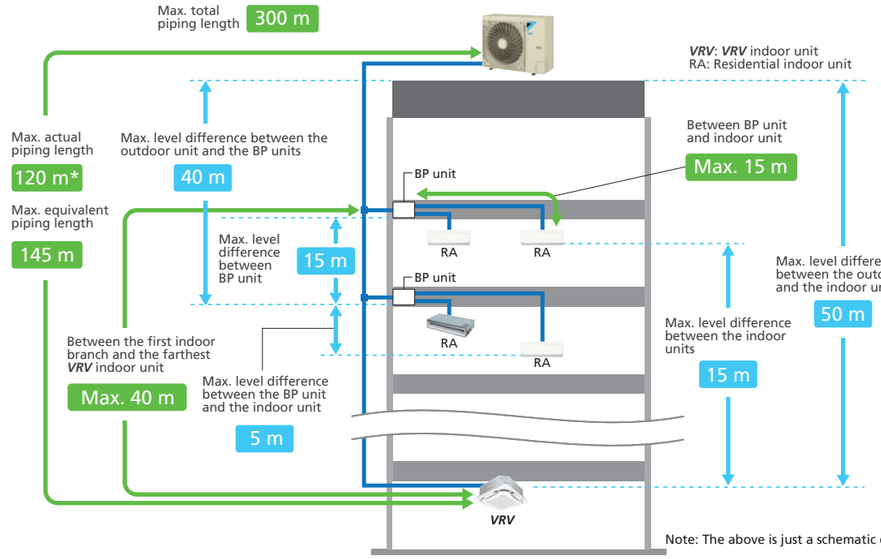


Note: The above is just a schematic diagram.

			4 class	5-8 class
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

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

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



Note: The above is just a schematic diagram.

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

VRV indoor units

● New lineup　　Indoor units subject to VRT smart control

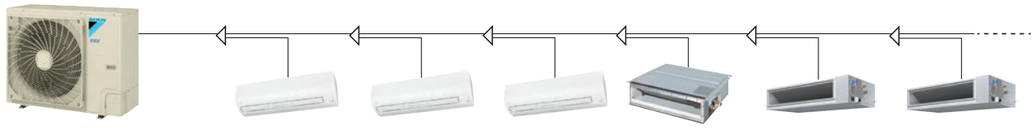
Category	Type	Model Name		Capacity Range (kW)	20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
				Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette	Round Flow Cassette with Sensing	FXFSQ-AVM				●	●	●	●	●		●	●	●	●					
	Round Flow Cassette	FXFQ-PVE				●	●	●	●	●		●	●	●						
	Compact Multi Flow Cassette	New **FXZQ-AVM**			●	●	●	●	●											
	Double Flow Cassette	FXCQ-AVM			●	●	●	●	●	●		●		●						
	Single Flow Cassette	FXEQ-AV36			●	●	●	●	●	●										
Ceiling Concealed Duct	Slim Duct (Standard)	FXDQ-PDVE	(700 mm width type)		●	●	●													
		FXDQ-NDVE	(900/1,100 mm width type)					●	●	●										
	Slim Duct (Compact)	FXDQ-SPV1			●	●	●	●	●	●										
	Middle Static Pressure Duct	FXSQ-PAVE			●	●	●	●	●	●		●	●	●	●					
		FXDYQ-MAV1										●	●	●		●				
	Middle-High Static Pressure Duct	FXMQ-PAVE			●	●	●	●	●	●		●	●	●	●					
	High Static Pressure Duct	FXMQ-PV1A															●	●	●	●
	Outdoor-Air Processing Unit	FXMQ-MFV1												●					●	
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB									●		●							
	Ceiling Suspended	FXHQ-MAVE					●			●			●							
		FXHQ-AVM												●	●					
Wall Mounted		FXAQ-AVM			●	●	●	●	●	●										
Floor Standing	Floor Standing	FXLQ-MAVE			●	●	●	●	●	●										
	Concealed Floor Standing	FXNQ-MAVE			●	●	●	●	●	●										
	Concealed Floor Standing (Duct Connection)	New **FXNQ-A2VEB**			●	●	●	●	●	●										
Heat Reclaim Ventilator		VAM-GJVE		Airflow rate 150-2000 m³/h																

Note: For indoor units without 'VRT Smart', the standard 'VRT' control is available (excludes Heat Reclaim Ventilators & Outdoor-Air Processing Unit).

Residential indoor units with connection to BP units

Type	Model Name		20	25	35	50	60	71
		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		●	●	●			
	FTXS-KAVMA					●	●	●

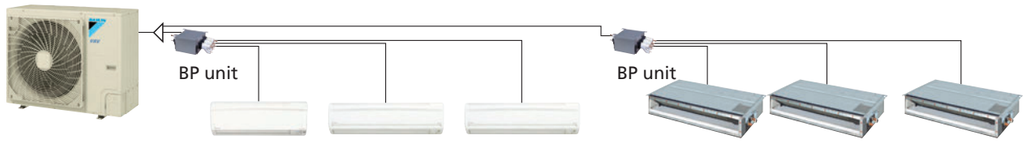
Note: BP units are necessary for residential indoor units.



VRV indoor units only

Max. 13 indoor units

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



Residential indoor units only

Max. 13 indoor units

- 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

MODEL			RSUYQ4AVMA	RSUYQ5AVMA	RSUYQ6AVMA	RSUYQ7AYM	RSUYQ8AYM
Power supply			1-phase, 220-240/220-230 V, 50/60 Hz			3-phase, 380-415 V/380 V, 50/60 Hz	
Cooling capacity		Btu/h	38,200	47,800	54,600	68,200	76,400
		kW	11.2	14.0	16.0	20.0	22.4
Heating capacity		Btu/h	42,700	54,600	61,400	76,400	85,300
		kW	12.5	16.0	18.0	22.4	25.0
Power consumption	Cooling	kW	2.48	3.36	3.95	5.46	6.61
	Heating	kW	2.51	3.28	3.90	5.10	5.92
Capacity control		%	23 to 100	15 to 100		12 to 100	14 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) Commercial / Residential	Hot		5.85 / 5.29	6.04 / 5.45	6.10 / 5.51	5.34 / 4.87	5.18 / 4.71
	Average		5.57 / 4.21	5.91 / 4.47	6.04 / 4.60	5.30 / 4.13	5.19 / 4.06
	Cold		5.78 / 4.09	6.23 / 4.45	6.39 / 4.63	5.60 / 4.15	5.53 / 4.14
HSPF★ (Heating) Commercial / Residential	Hot		4.96 / 4.98	4.69 / 4.71	4.37 / 4.39	5.00 / 5.00	4.83 / 4.82
	Average		4.81 / 4.74	4.55 / 4.50	4.25 / 4.22	4.74 / 4.58	4.58 / 4.41
	Cold		4.56 / 4.47	4.28 / 4.18	4.02 / 3.95	4.42 / 4.22	4.27 / 4.07
Casing colour			Ivory white (5Y7.5/1)				
Compressor	Type		Hermetically sealed swing type				
	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
Airflow rate	Cooling	ℓ/s	1,450	1,400	1,450	2,050	
		m³/min	87	84	87	123	
	Heating	ℓ/s	1,500	1,400	1,567	2,283	2,417
		m³/min	90	84	94	137	145
Dimensions (H×W×D)		mm	870×1,100×460				
Machine weight		kg	95	98		125	
Sound pressure level (Cooling/Heating)		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 range	Cooling	°CDB	-5 to 52				
	Heating	°CWB	-20 to 15.5				
Refrigerant	Type		R-410A				
	Charge	kg	4.0	4.2		5.4	
Piping connections	Liquid	mm	ϕ9.5 (Flare)				
	Gas	mm	ϕ15.9 (Flare)		ϕ19.1 (Flare)	ϕ19.1 (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, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, 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.

★ Values based on GEMS determination 2019.

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.**

Outdoor unit combinations

MODEL			RSUYQ4AVMA	RSUYQ5AVMA	RSUYQ6AVMA	RSUYQ7AYM	RSUYQ8AYM
kW			11.2	14.0	16.0	20.0	22.4
Class			4	5	6	7	8
Capacity index			100	125	150	175	200
Total capacity index of connectable indoor units	Combination(%)	50%★1	50	62.5	75	87.5	100
		80%★2	80	100	120	140	160
		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

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.

VRV IV S SERIES

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

Heat Pump
3.5class–**9**class
(9 kW) (24 kW)

New **RXYMQ3-4AV4A**
RXYMQ5-6BVM
RXYMQ8-9AY1

Compact & lightweight design

The ***VRV*** IV S series is slim and compact, with outdoor units that require minimal installation space.

3.5 class — 6 class

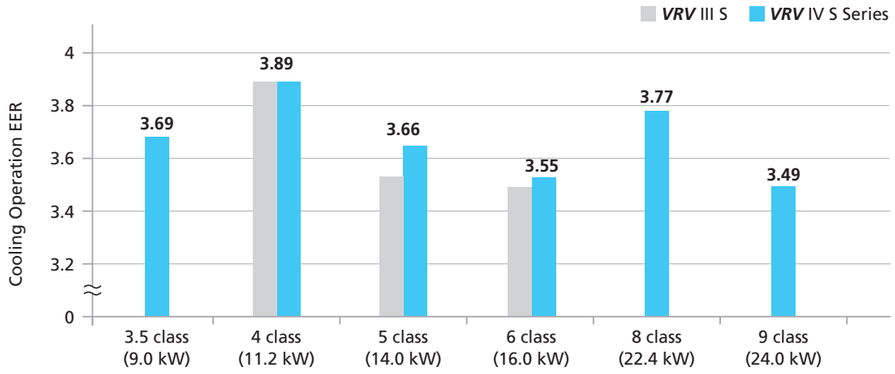
8 class / 9 class

	3.5 class / 4 class	5 class	6 class	8 class / 9 class
Height	990 mm	990 mm	990 mm	1,430 mm
Product Weight	71 kg	78 kg	80 kg	138 kg
Footprint	0.30 m²	0.30 m²	0.30 m²	0.30 m²

Energy saving

High Energy Efficiency Ratio (EER)

VRV IV S series provides greater energy saving as compared to ***VRV*** III S series.



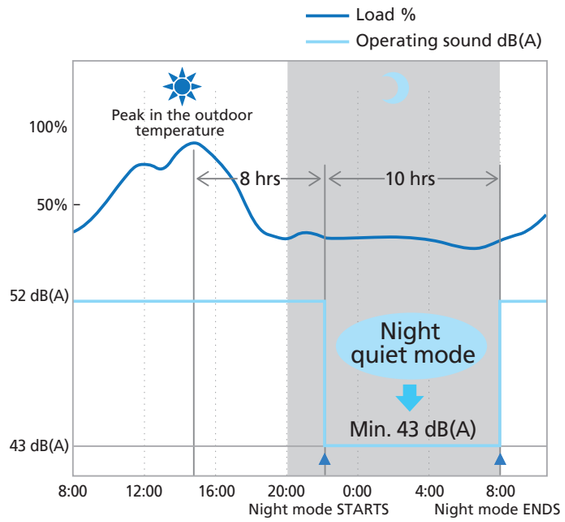
*Cooling operation conditions: Indoor temp. of 27° CDB,19° CWB, and outdoor temp. of 35° CDB.

Comfort and Simplified Installation

Quiet operation

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.

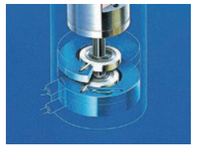


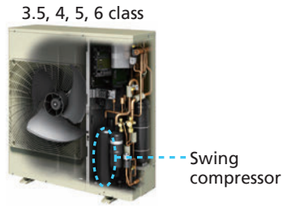
Notes: • This function is available in setting at site.
• The operating sound in quiet operation mode is the actual value measured by our company.
• The relationship of outdoor temperature (load) and time shown above is just an example.
• In case of 4 class outdoor unit

Technologies for efficient and quiet operation

Swing compressor (3.5-6 class model only)

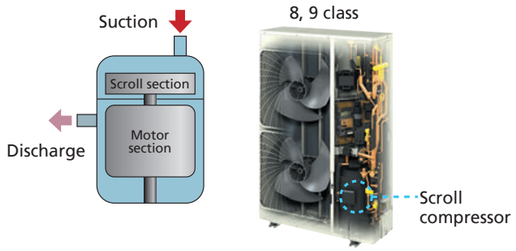
Daikin swing compressor has integrated the rotor with the blade, completely solving the refrigerant leakage and the wear problem caused by the mechanical friction between the rotor and the blade, which enhances the compressor efficiency and makes the compressor more quiet and durable.





The structural scroll (8-9 class model only)

Sucked gas is compressed in the scrolling part before the heated motor, so that the machine compress the non-expanded gas, resulting in high efficiency compression.



Smooth air inlet bell mouth and aero spiral fan

The smooth air inlet bell mouth and the aero spiral fan work to minimize turbulence in the airflow and reduce sound.

DC fan motor

Efficiency improved in all areas compared to conventional AC motors, especially at low speeds.

Makes the long piping design possible

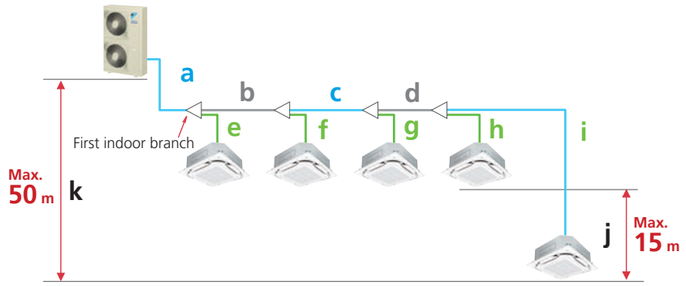
Long piping length offers flexibility in the choice of installation positions, and simplifies system planning.

When only *VRV* indoor units are connected

Actual piping length
Max. 100 m

Equivalent piping length
Max. 130 m

Total piping length
Max. 300 m



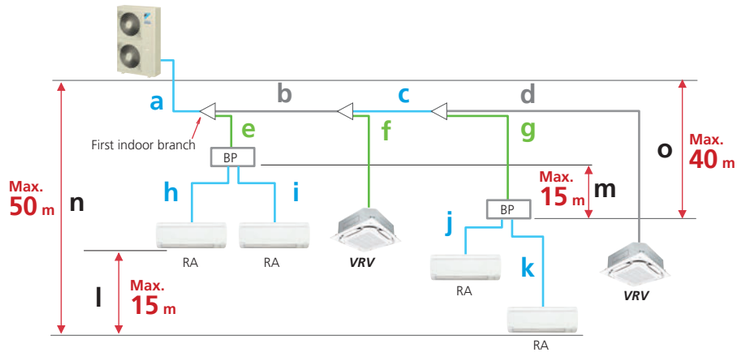
			3.5,4 class	5,6 class	8,9 class
Max. allowable piping length	Refrigerant piping length (Equivalent)	a+b+c+d+i	70 m (90 m)	70 m (90 m)	100 m (130 m)
	Total piping length	a+b+c+d+e+f+g+h+i	250 m	300 m	300 m
	Between the first indoor branch and the farthest indoor unit	b+c+d+i	40 m	40 m	40 m
Max. allowable level difference	Between the indoor units	j	10 m	15 m	15 m
	Between the outdoor unit and the indoor unit — If the outdoor unit is above	k	30 m	30 m	50 m
	Between the outdoor unit and the indoor unit — If the outdoor unit is below	k	30 m	30 m	40 m

When a mixed combination of *VRV* and residential indoor units is connected

Actual piping length
Max. 100 m

Equivalent piping length
Max. 125 m

Total piping length
Max. 250 m



				3.5,4 class	5,6 class	8,9 class
Max. allowable piping length	Refrigerant piping length (Equivalent)		a+b+c+g+k, a+b+c+d	70 m (90 m)	70 m (90 m)	100 m (125 m)
	Total piping length		a+b+c+d+e+f+g+h+i+j+k	250 m	250 m	250 m
	The first indoor branch - the farthest BP or *VRV* indoor unit		b+c+g, b+c+d	40 m	40 m	40 m
Max. & min. allowable piping length	BP unit - indoor unit	If indoor unit capacity index < 60	h, i, j, k	2 m–15 m	2 m–15 m	2 m–15 m
		If indoor unit capacity index is 60		2 m–12 m	2 m–12 m	2 m–12 m
		If indoor unit capacity index is 71		2 m–8 m	2 m–8 m	2 m–8 m
Min. allowable piping length	Outdoor unit - the first indoor branch		a	5 m	5 m	5 m
Max. allowable level difference	Between the indoor units		l	10 m	15 m	15 m
	Between BP units		m	10 m	15 m	15 m
	Outdoor unit - the indoor unit	If the outdoor unit is above	n	30 m	30 m	50 m
		If the outdoor unit is below	n	30 m	30 m	40 m
	Outdoor unit - the BP unit		o	30 m	30 m	40 m

Indoor Unit Lineup

Enhanced range of choices

A mixed combination of ***VRV*** indoor units and residential indoor units can be combined into one system, opening the door to stylish and quiet indoor units.

VRV indoor units

New lineup

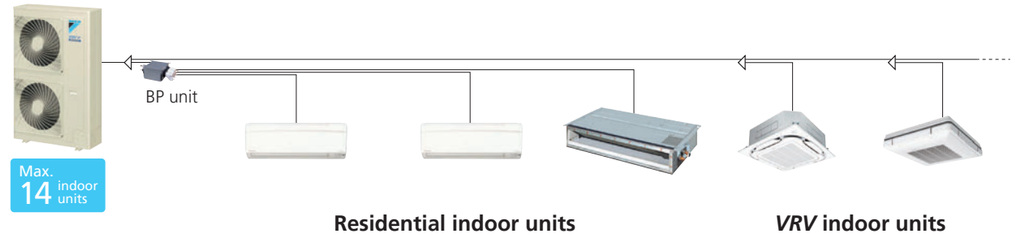
Category	Type	Model Name		20	25	32	40	50	63	71	80	100	125	140	145	160	180	200	250
			Capacity Range (kW)	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	16.2	18	20	22.4	28
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	145	160	180	200	250
Ceiling Mounted Cassette	Round Flow Cassette with Sensing	FXFSQ-AVM			●	●	●	●	●		●	●	●	●					
	Round Flow Cassette	FXFQ-PVE			●	●	●	●	●		●	●	●						
	Compact Multi Flow Cassette	New **FXZQ-AVM**		●	●	●	●	●											
	Double Flow Cassette	FXCQ-AVM		●	●	●	●	●	●		●		●						
	Single Flow Cassette	FXEQ-AV36		●	●	●	●	●	●										
	Slim Duct (Standard)	FXDQ-PDVE	 (700 mm width type)	●	●	●													
		FXDQ-NDVE	 (900/1,100 mm width type)				●	●	●										
	Slim Duct (Compact)	FXDQ-SPV1		●	●	●	●	●	●										
	Middle Static Pressure Duct	FXSQ-PAVE		●	●	●	●	●	●		●	●	●	●					
		FXDYQ-MAV1									●	●	●		●				
	Middle-High Static Pressure Duct	FXMQ-PAVE		●	●	●	●	●	●		●	●	●	●					
	High Static Pressure Duct	FXMQ-PV1A														●	●	●	●
	Outdoor-Air Processing Unit	FXMQ-MFV1											●					●	
Ceiling Suspended	4-Way Flow Ceiling Suspended	FXUQ-AVEB								●		●							
	Ceiling Suspended	FXHQ-MAVE				●			●			●							
		FXHQ-AVM											●	●					
Wall Mounted		FXAQ-AVM		●	●	●	●	●	●										
Floor Standing	Floor Standing	FXLQ-MAVE		●	●	●	●	●	●										
	Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●										
	Concealed Floor Standing (Duct Connection)	New **FXNQ-A2VEB**		●	●	●	●	●	●										
Heat Reclaim Ventilator		VAM-GJVE		Airflow rate 150-2000 m³/h															

Residential indoor units with connection to BP units

Type	Model Name		20	25	35	50	60	71
		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		●	●	●			
	FTXS-KAVMA					●	●	●

Note: BP units are necessary for residential indoor units.

VRV indoor units combine with residential indoor units, all in one system.



* Refer to page 70 for the maximum number of connectable indoor units.

Outdoor Units

VRV IV S Series

Specifications

Heat Pump


MODEL			RXYMQ3AV4A	RXYMQ4AV4A	RXYMQ5BVM	RXYMQ6BVM	RXYMQ8AY1	RXYMQ9AY1
Power supply			1-phase, 220-230 V, 50 Hz		1-phase, 220-240 V/220-230 V, 50/60 Hz		3-phase, 380–415 V, 50 Hz	
Cooling capacity		Btu/h	30,700	38,200	47,800	54,600	76,400	81,900
		kW	9.0	11.2	14.0	16.0	22.4	24.0
Heating capacity		Btu/h	34,100	42,700	47,800	54,600	85,300	88,700
		kW	10.0	12.5	14.0	16.0	25.0	26.0
Power consumption	Cooling	kW	2.44	2.88	3.83	4.51	5.94	6.88
	Heating		2.28	2.60	3.04	3.59	6.25	6.82
Capacity control		%	24 to 100		15 to 100		20 to 100	
AEER★	Cooling		—	—	3.39	3.31	—	—
ACOP★	Heating		—	—	4.20	4.09	—	—
TCSPF★ (Cooling) Commercial / Residential	Hot		—	—	5.38 / 4.87	5.16 / 4.70	—	—
	Average		—	—	5.29 / 4.02	5.11 / 3.97	—	—
	Cold		—	—	5.58 / 4.01	5.40 / 3.99	—	—
HSPF★ (Heating) Commercial / Residential	Hot		—	—	4.33 / 4.35	4.28 / 4.30	—	—
	Average		—	—	4.20 / 4.16	4.14 / 4.08	—	—
	Cold		—	—	3.91 / 3.80	3.84 / 3.71	—	—
Casing colour			Ivory white (5Y7.5/1)					
Compressor	Type		Hermetically sealed swing type				Hermetically sealed scroll type	
	Motor output (Cooling/Heating)	kW	1.92		3.2/3.5	3.7	3.8	4.8
Airflow rate		ℓ/s	1,267		1,350	1,333	2,333	
		m³/min	76		81	80	140	
Dimensions (H×W×D)		mm	990×940×320				1,430×940×320	
Machine weight		kg	71		78	80	138	
Sound level (Cooling/Heating)		dB(A)	51/52	52/54	53/54	55/56	57/58	58/59
Sound power		dB(A)	69	70	74	76	75	76
Operation range	Cooling	°CDB	-5 to 46					
	Heating	°CWB	-20 to 15.5					
Refrigerant	Type		R-410A					
	Charge	kg	2.9		3.4	4.0	5.8	
Piping connections	Liquid	mm	ϕ 9.5 (Flare)				ϕ 9.5 (Brazing)	
	Gas		ϕ 15.9 (Flare)			ϕ 19.1 (Flare)	ϕ 19.1 (Brazing)	ϕ 22.2 (Brazing)

Notes: Specifications are based on the following conditions;
- Cooling: Indoor temp. : 27° CDB, 19° CWB, Outdoor temp. : 35° CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20° CDB, Outdoor temp.: 7° CDB, 6° CWB, 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.

★ Values based on GEMS determination 2019.

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HSPF: Heating Seasonal Performance Factor

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*** There are two kinds of annual outdoor temperatures and it's different for residential and commercial use.**

Outdoor unit combinations

MODEL			RXYMQ3AV4A	RXYMQ4AV4A	RXYMQ5BVM	RXYMQ6BVM	RXYMQ8AY1	RXYMQ9AY1
kW			9.0	11.2	14.0	16.0	22.4	24.0
class			3.5	4	5	6	8	9
Capacity index			80	100	125	150	200	215
Total capacity index of connectable indoor units	Combination (%)	50%*1	40	50	62.5	75	100	107.5
		80%*2	64	80	100	120	160	172
		100%	80	100	125	150	200	215
		130%	104	130	162.5	195	260	280
Maximum number of connectable indoor units			5	6	8	9	13	14

Note: *1. When only ***VRV*** indoor units are connected, connection ratio must be 50% to 130%.
*2. When a mixed combination of ***VRV*** and residential indoor units is connected or when only residential indoor units are connected, connection ratio must be 80% to 130%.