

# Outdoor Units

## VRV S High Seasonal Efficiency Series

### Specifications



MODEL		RSUQ4AVM4	RSUQ5AVM4	RSUQ6AVM4	RSUQ7AYM4	RSUQ8AYM4	RSUQ9AYM4
Power supply		1-phase, 220-240 V/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	81,900
	kW	11.2	14.0	16.0	20.0	22.4	24.0
Power consumption	kW	2.49	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	2.0	3.1	3.5	1.9	3.2
Airflow rate	m <sup>3</sup> /min	87	84	87	123		137
Dimensions (HxWxD)	mm	870x1,100x460					
Machine weight	kg	95	98		115		
Sound level	dB(A)	51		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 22.2 (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, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode. When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.
- Refrigerant charge is required.

### Outdoor unit combinations

MODEL		RSUQ4AVM4	RSUQ5AVM4	RSUQ6AVM4	RSUQ7AYM4	RSUQ8AYM4	RSUQ9AYM4	
kW		11.2	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.

#### Dealer

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- **WORKSHOP** : Cirebon, Telp. : 0231-8817 512 | Banjarmasin, Telp. : 0511-6776 838 | Aceh, Telp. : 0651-7318 036
- **Lombok**, Telp. : 0370-7843 231 | **Jambi**, Telp. : 0741-3066 790 | **Padang**, Telp. : 0751-896 2684
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- **Makassar**, Telp. : 0411-805 2691 | **Palembang**, Telp. : 0711-573 2282 | **Pekanbaru**, Telp. : 0761-561 139
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Dicetak di Indonesia



DIDVRVS2307

## VRV S High Seasonal Efficiency SERIES

For residential and light commercial use



**R-410A**

Cooling Only / Heat Pump 50 / 60 Hz

# 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

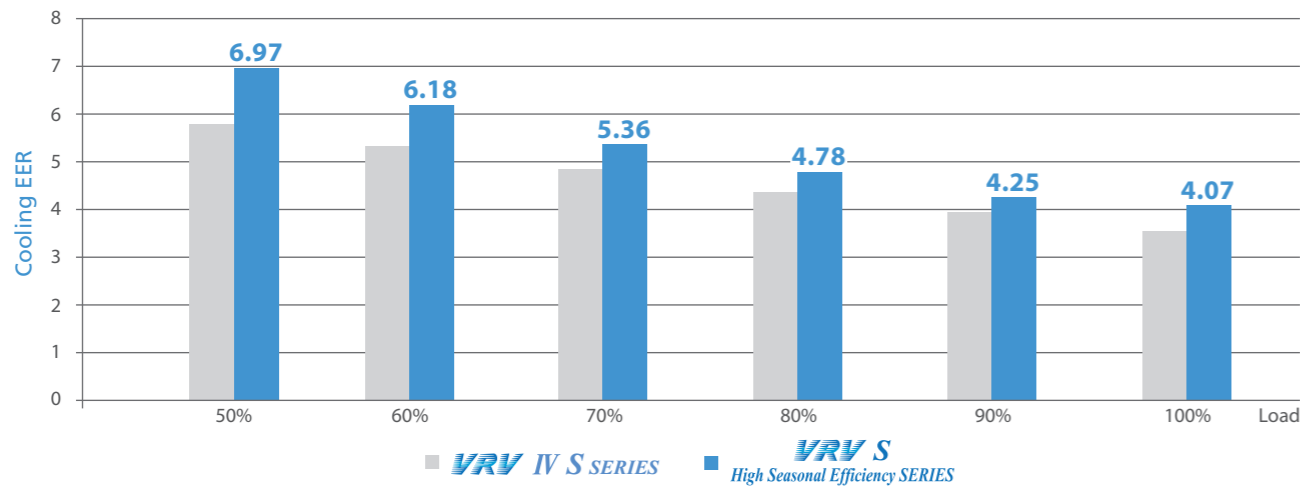
# Energy savings & comfort

## Energy savings

### High seasonal efficiency

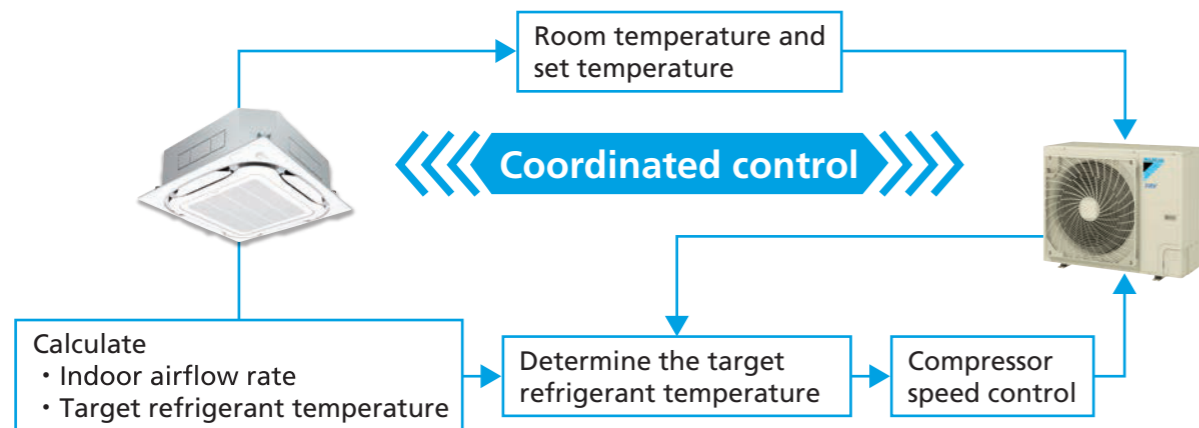
The VRT Smart Control enables improvements on efficiency during low load operation, achieving high seasonal efficiency.

EER for 5 HP



### VRT Smart Control

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



Note:  
 • For the classification of indoor units (VRT smart control and VRT control), refer to page 11-12.  
 • 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

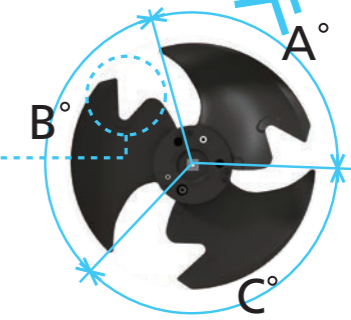
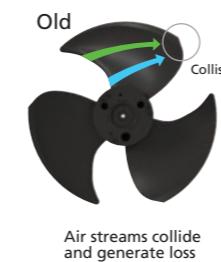
New fan and bell mouth help enable low operation sound.

Cooling	4 HP	5 HP	6 HP	7 HP	8 HP	9 HP
New	51	51	52	58	59	60

dB(A)



#### V-cut & irregular pitch propeller fan

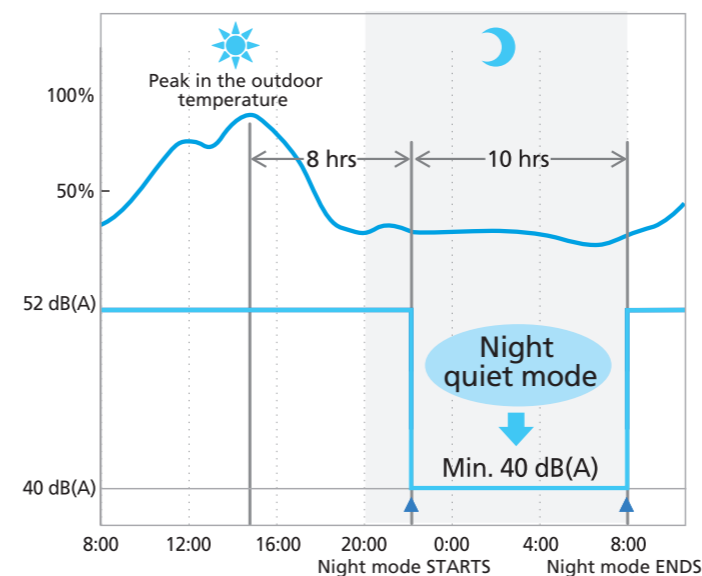


The fan's V-cut enables streamlined and effective airflow.

#### 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
RSU(Y)Q4/5/6A	Min. 40 dB(A)
RSU(Y)Q7/8/9A	Min. 45 dB(A)



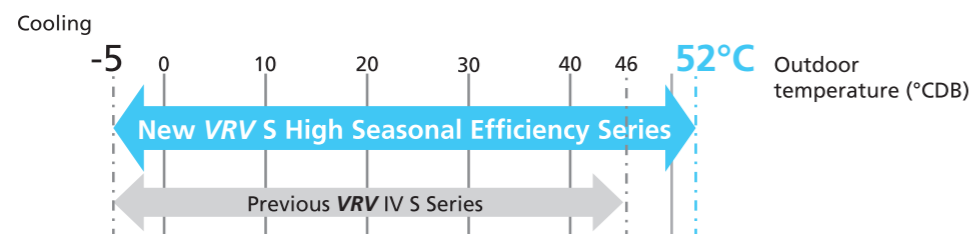
Note:  
 • This function is available in setting at site.  
 • The operating sound in quiet operation mode is the actual value measured by our company.  
 • The relationship of outdoor temperature (load) and time shown above is just an example.  
 • In case of 4-6 HP outdoor unit

# High performance & reliability

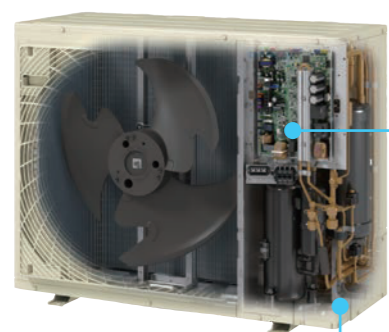
## High temperature operation

### 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.



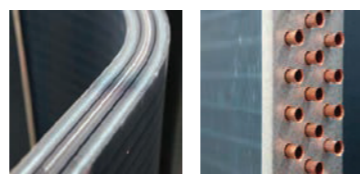
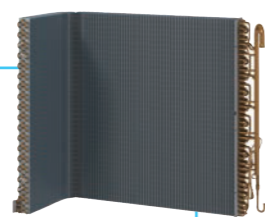
#### Refrigerant cooled PCB

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



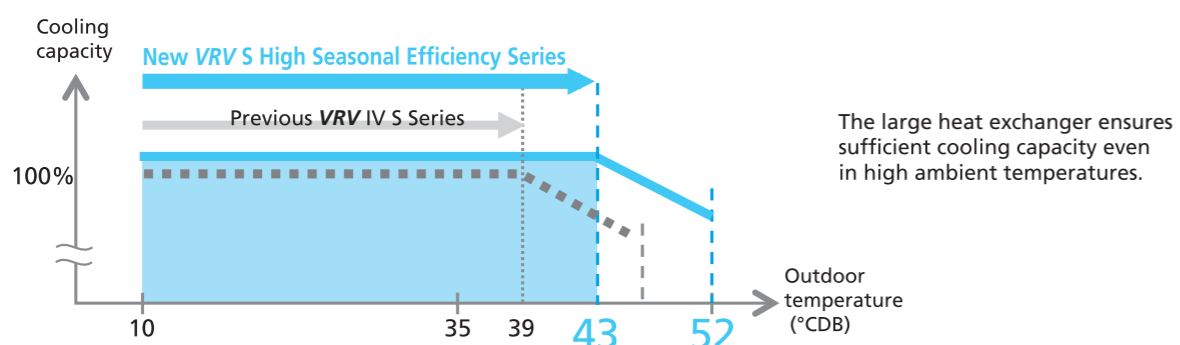
#### New heat exchanger

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



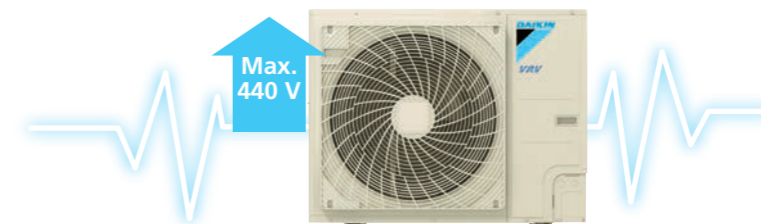
### Keep rated cooling capacity in high outdoor temperature up to 43°C

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



## 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.



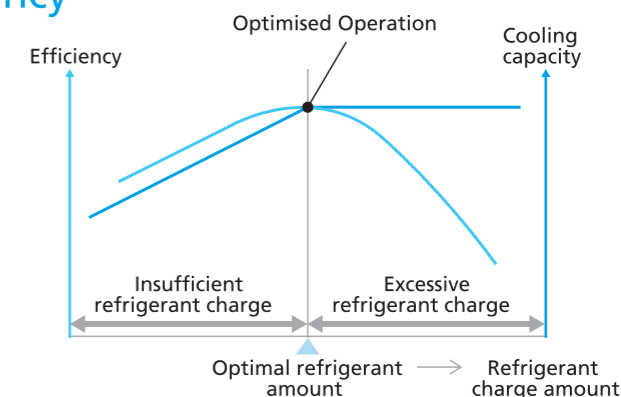
\* Continuous operation range is 198 to 264 V.

## Automatic refrigerant charge function

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

### Optimised operation efficiency

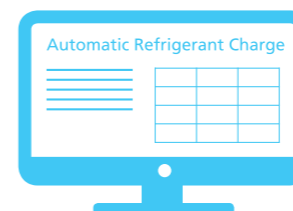
This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



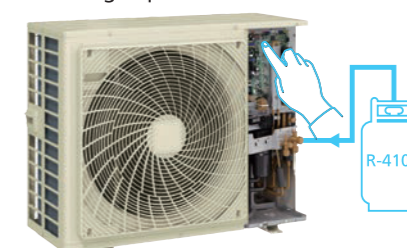
### Higher quality and easier installation

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.

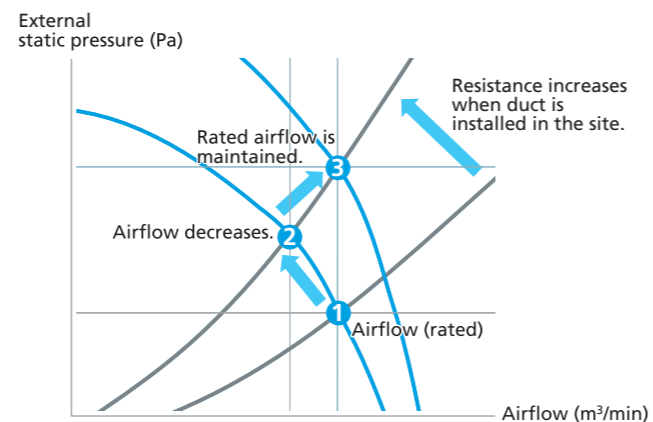
# Design flexibility of installation

## No short circuits

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

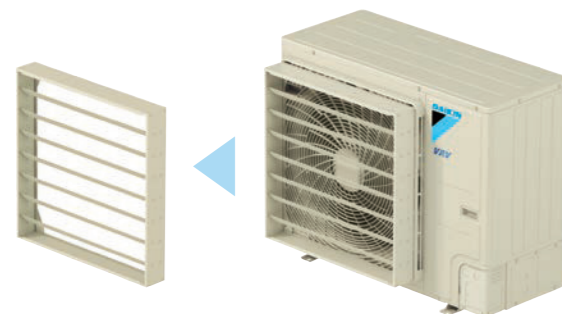
The new **VRV S** series outdoor unit has been achieved high external static pressure up to 40 Pa, realizing stable operation in small installation sites where the air direction adjustment grille or duct is used to avoid short circuits.

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.



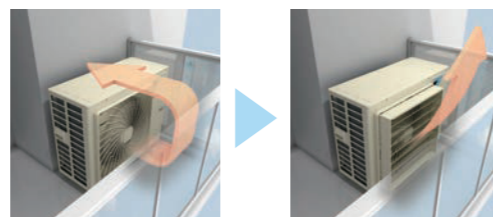
### Optimum airflow direction with the optional air direction adjustment grille

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.

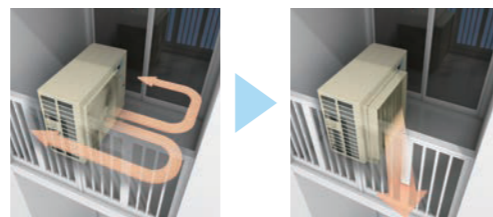


Air direction adjustment grille (option)

Wind is diverted upwards.

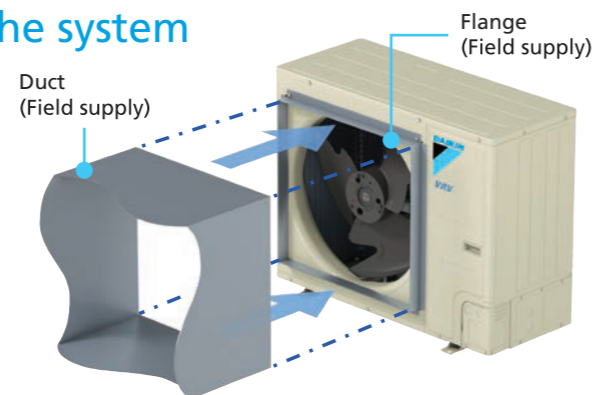


Wind is diverted sideways.



### Duct installation to stabilize the system

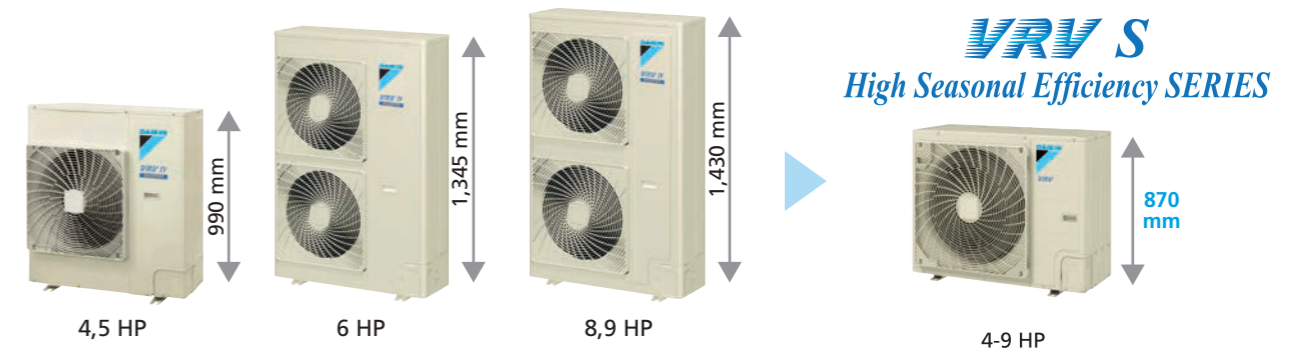
When the obstacle is not avoidable by the air direction adjustment grille, installing a field-supplied duct can bypass the obstacle. In this way, installation of the outdoor unit is possible in places like behind an advertising board.



## 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

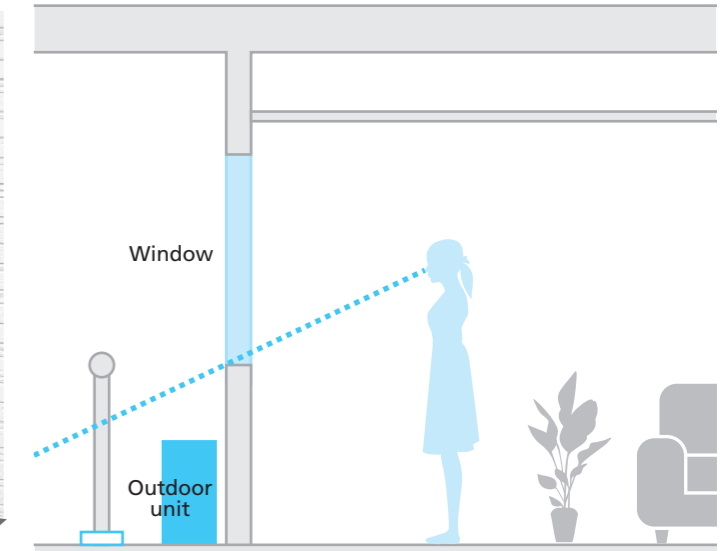


- Ideal solution that minimises both visual and sound impact
- Can be installed in a wide variety of locations and applications
- No space required for multiple outdoor units
- Allows for compact double-stacking of outdoor units

View from outside



View from inside



# 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** **▶** **VRV S High Seasonal Efficiency SERIES 120 m\***

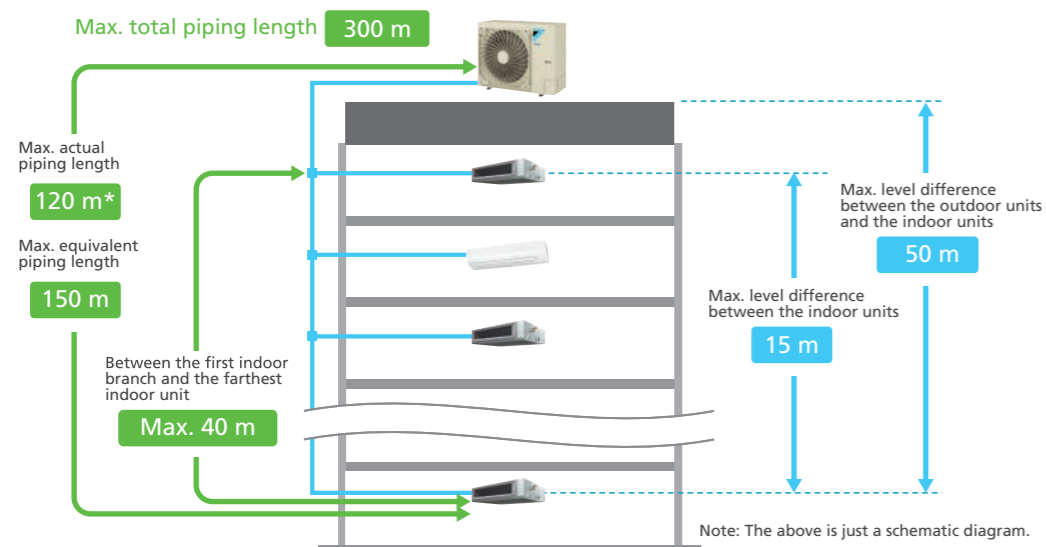


Installation on balconies of residential apartments

One outdoor unit can provide comfort for the whole house



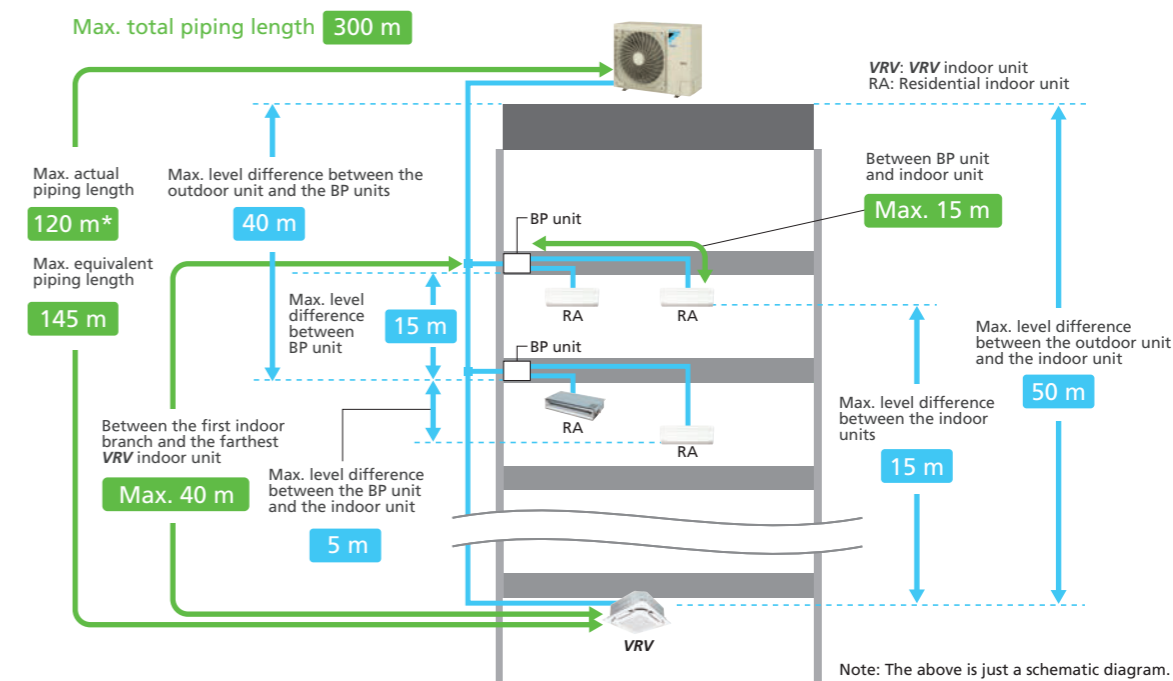
### Installation for VRV indoor units only



	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.

### Installation for mixed combination of VRV and residential indoor units, or residential indoor units only



	4 HP	5-9 HP	
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. If indoor unit capacity index is 60. If indoor unit capacity index is 71.	2 m-15 m 2 m-12 m 2 m-8 m
Maximum allowable level difference	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
	Between outdoor unit and the first indoor branch	5 m	5 m
	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. If the outdoor unit is below.	50 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

\*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

Type	Model Name	Capacity Range	VRV smart Indoor units subject to VRT smart control										VRT Indoor units subject to VRT control								
			0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	20	25	35	50	60	71
			Capacity Index	20	25	31.25	40	50	62.5	71	80	100	125	140	200	250	20	25	35	50	60
Ceiling Mounted Cassette (Round Flow with Sensing)	FXFSQ-AVM		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling Mounted Cassette (Round Flow)	FXFQ-AVM		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling Mounted Cassette (Compact Multi Flow)	FXZQ-MVE		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling Mounted Cassette (Double Flow)	FXCQ-AVM		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling Mounted Cassette (Single Flow)	FXEQ-AV36		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Slim Ceiling Mounted Duct (3D Airflow with Sensing)	FXDSQ-AVM		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Slim Ceiling Mounted Duct (Standard Series)	FXDQ-PDVE (with drain pump)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	FXDQ-PDVET (without drain pump)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	FXDQ-NDVE (with drain pump)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	FXDQ-NDVET (without drain pump)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Slim Ceiling Mounted Duct (Compact Series)	FXDQ-SPV1		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Middle Static Pressure Ceiling Mounted Duct	FXSQ-PAVE		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling Mounted Duct	FXMQ-PAVE		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	FXMQ-PVM		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor-Air Processing Unit	FXMQ-MFV1		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4-Way Flow Ceiling Suspended	FXUQ-AVEB		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling Suspended	FXHQ-MAVE		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	FXHQ-AVM		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Wall Mounted	FXAQ-AVM		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Floor Standing	FXLQ-MAVE		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Concealed Floor Standing	FXNQ-MAVE		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Floor Standing Duct	FXVQ-NY1		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Clean Room Air Conditioner	FXBQ-PVE		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	FXBPQ-PVE		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Heat Reclaim Ventilator	VAM-GJVE		Airflow rate 150-2000 m³/h																		

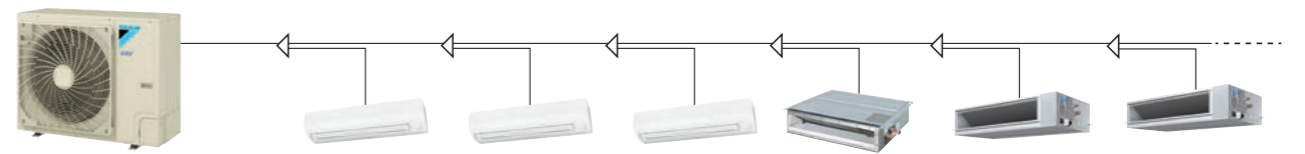
Note: Some model names might differ and some products might not be available depending on the country of sale. For further information, please contact one of our sales companies.

### Residential indoor units with connection to BP units

VRV Indoor units subject to VRT control

Type	Model Name	Rated Capacity (kW)	20	25	35	50	60	71
			Capacity Index	20	25	35	50	60
Slim Ceiling Mounted Duct	Cooling Only FDKS-EAVMB	VRT	●	●	●	●	●	●
	Heat Pump CDXS-EAVMA	VRT	●	●	●	●	●	●
Wall Mounted	Cooling Only FTKS-DVM	VRT	●	●	●	●	●	●
	Heat Pump FTXS-DVMA	VRT	●	●	●	●	●	●
	Heat Pump FTXS-EVMA	VRT	●	●	●	●	●	●
	Cooling Only FTKS-BVMA	VRT	●	●	●	●	●	●
Wall Mounted	Cooling Only FTKS-FVM	VRT	●	●	●	●	●	●
	Heat Pump FTXS-FVMA	VRT	●	●	●	●	●	●

Note: BP units are necessary for residential indoor units.



VRV indoor units only

Max. 14 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. 14 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.

