Mini Heat Pump VRV III-S RXYSQ-P8V1/Y1

Daikin's VRV III-S Heat Pump has an optimised design for small capacities. Its space saving design is slim and compact, requiring much less installation space than standard heat pumps.

With high COP values, a major feature of VRV III-S is its exceptional energy efficiency. The system achieves high COPs during both cooling and heating operation, thanks to the use of refined components and functions.

Advanced technologies

1 Super aero grille

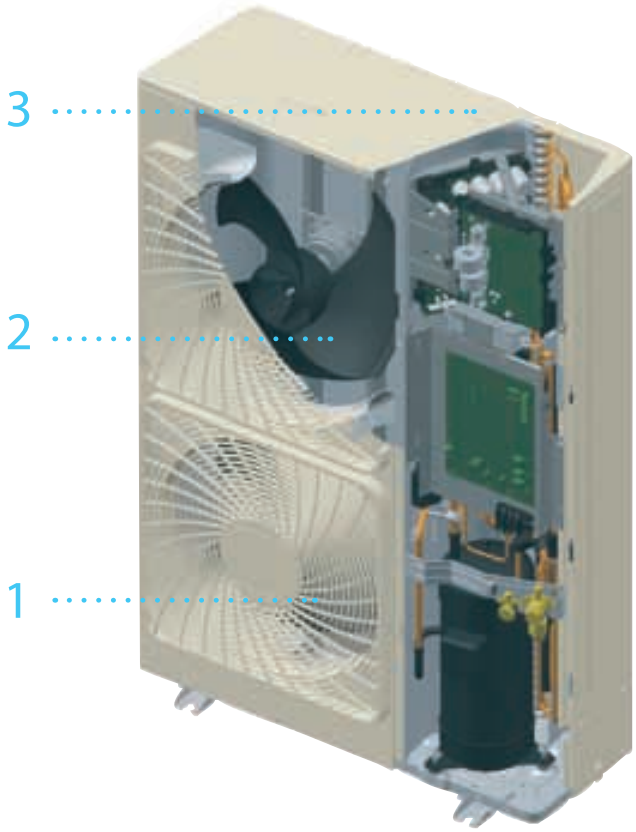
The spiral shaped ribs are aligned with the direction of discharge flow in order to minimise turbulence and reduce noise.

2 Smooth air inlet bell mouth and aero spiral fan

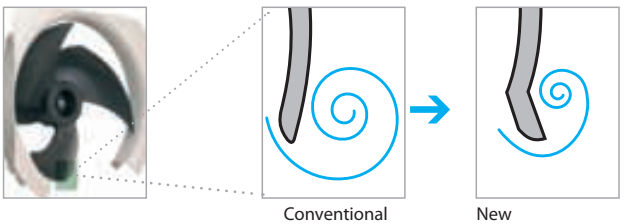
These features assist in significantly reducing noise. Guides are added to the bell mouth intake to reduce turbulence in the air flow generated by fan suction. The aero spiral fan features fan blades with bent blade edges, further reducing turbulence.

3 e-Bridge circuit

Prevents accumulation of liquid refrigerant in the condenser. This results in more efficient use of the condenser surface under all conditions and leads in turn to better energy efficiency. Increased evaporative capacity stems from the newly developed refrigeration circuit, the SCe-bridge circuit, which adds super cooling prior to the expansion cycle. By adopting this circuit, the COPs in both cooling and heating have been drastically improved.



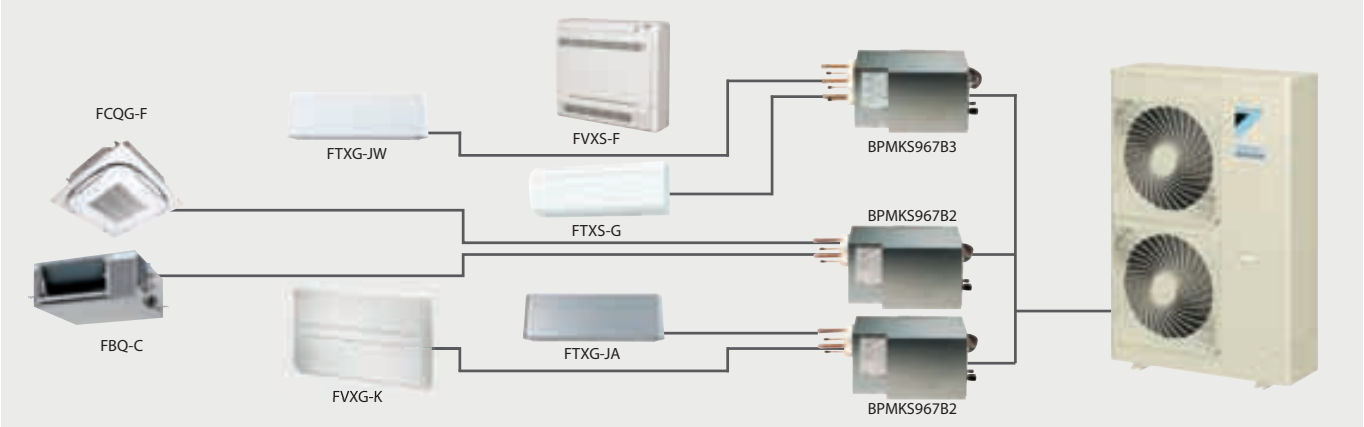
Aero spiral fan blade tips

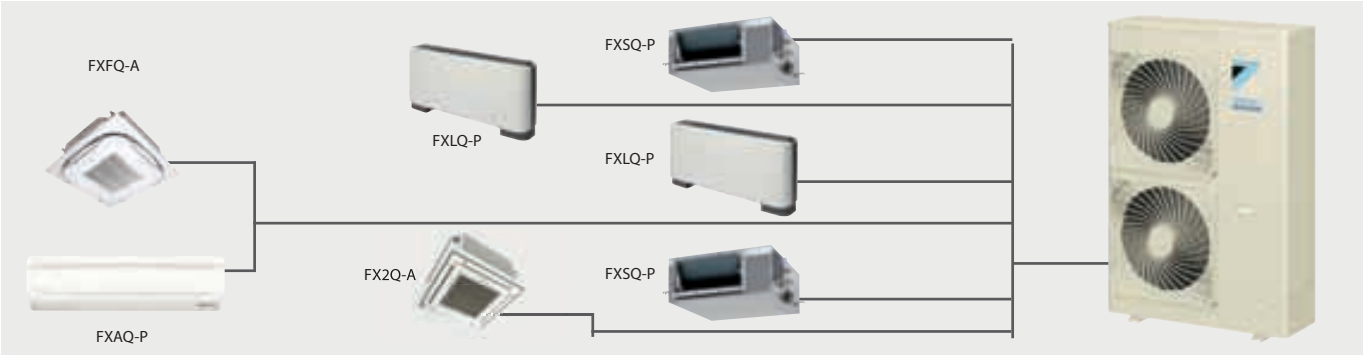


Escaping edges are sucked in by the bent blade edges, reducing overall turbulence.

Wide range of indoor units

Either connect VRV indoor units or stylish indoor units such as Daikin Emura and Nexura...





* VRV indoor units and stylish indoor units cannot be combined.

CONNECTABLE INDOOR UNITS

	Type	Model	Product name		Capacity 15	20	25	35	42	50	60	71
	CEILING MOUNTED CASSETTE	Round flow cassette (incl. autoclean function[2])	FCQG-F					■		■	■	
new	CEILING MOUNTED CASSETTE	Fully flat cassette	FFQ-C				■	■		■	■	
	CONCEALED CEILING	Small concealed ceiling unit	FDBQ-B				■					
	CONCEALED CEILING	Slim concealed ceiling unit	FDXS-F				■	■		■	■	
	CONCEALED CEILING	Concealed ceiling unit with inverter driven fan	FBQ-C					■		■	■	
	WALL MOUNTED	Daikin Emura Wall mounted unit	FTXG-JA/JW				■	■		■		
new	WALL MOUNTED	Wall mounted unit	CTXS-K FTXS-K		■	■	■	■	■	■		
	WALL MOUNTED	Wall mounted unit	FTXS-G								■	■
new	CEILING SUSPENDED	Ceiling suspended unit	FHQ-C					■		■	■	
	FLOOR STANDING	Nexura floor standing unit	FVXG-K				■	■		■		
	FLOOR STANDING	Floor standing unit	FVXS-F				■	■		■		
	FLOOR STANDING	Flexi type unit	FLXS-B				■	■		■	■	

1 Decoration panel BYCQ140CG + BRC1E51A needed

Specifications

VRV III-S Heat Pump - single phase (P8V1), three phase (P8Y1)

OUTDOOR UNIT					RXYSQ4P8V1	RXYSQ5P8V1	RXYSQ6P8V1	RXYSQ4P8Y1	RXYSQ5P8Y1	RXYSQ6P8Y1
Capacity range				HP	4	5	6	4	5	6
Cooling capacity	Nom.			kW	12.6 (1)	14.0 (1)	15.5 (1)	12.6 (1)	14.0 (1)	15.5 (1)
Heating capacity	Nom.			kW	14.2 (2)	16.0 (2)	18.0 (2)	14.2 (2)	16.0 (2)	18.0 (2)
Power input - 50Hz	Cooling	Nom.		kW	3.24	3.51	4.53	3.33	3.61	4.66
	Heating	Nom.		kW	3.12	3.86	4.57	3.21	3.97	4.70
EER					3.89	3.99	3.42	3.78	3.88	3.33
COP					4.55	4.15	3.94	4.42	4.03	3.83
Maximum number of connectable indoor units					8 (6) / 8 (7)	10 (6) / 9 (7)	12 (6) / 9 (7)	8 (6) / 8 (7)	10 (6) / 9 (7)	12 (6) / 9 (7)
Indoor index connection	Min.				50	62.5	70	50	62.5	70
	Nom.				100	125	140	100	125	140
	Max.				130	162.5	182	130	162.5	182
Dimensions	Unit	HeightxWidthxDepth		mm	1,345x900x320					
Weight	Unit			kg	120					
Fan	Type				Propeller fan					
	Air flow rate	Cooling	Nom.	m^3/min	106					
		Heating	Nom.	m^3/min	102	105		102	105	
Sound power level	Cooling	Nom.		dBA	66	67	69	66	67	69
Sound pressure level	Cooling	Nom.		dBA	50	51	53	50	51	53
	Heating	Nom.		dBA	52	53	55	52	53	55
Compressor	Type				Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.		°CDB	-5~46					
	Heating	Min.~Max.		°CWB	-20~15.5					
Refrigerant	Type				R-410A					
	Charge			kg	4.0					
	Control				Expansion valve					
	Circuits	Quantity			1					
Refrigerant oil	Type				Daphne FVC68D					
	Charged volume			l	1.5					
Piping connections	Liquid	Type			Flare connection					
		OD		mm	9.52					
	Gas	Type			Flare connection (VRV) / Braze connection (RA)		Braze connection	Flare connection (VRV) / Braze connection (RA)		Braze connection
		OD		mm	15.9 (6) / 19.1 (7)	15.9 (6) / 19.1 (7)	19.1	15.9 (6) / 19.1 (7)	15.9 (6) / 19.1 (7)	19.1
	Drain	OD		mm	26x3					
	Piping length	OU - BP	Total	m	55 (7)					
		BP - IU	Max./Total	m	15 (7)/60 (7)	15 (7)/80 (7)	15 (7)/90 (7)	15 (7)/60 (7)	15 (7)/80 (7)	15 (7)/90 (7)
	Total piping length	System	Actual	m	300 (6) / 115 (7)	300 (6) / 135 (7)	300 (6) / 145 (7)	300 (6) / 115 (7)	300 (6) / 135 (7)	300 (6) / 145 (7)
Power supply	Phase/Frequency/Voltage			Hz/V	1N~/50/220-240			3N~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	32.0			16.0		

(1) Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m (3) In case VRV® indoor units are connected (4) In case RA indoors are connected (5) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). (6) EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase