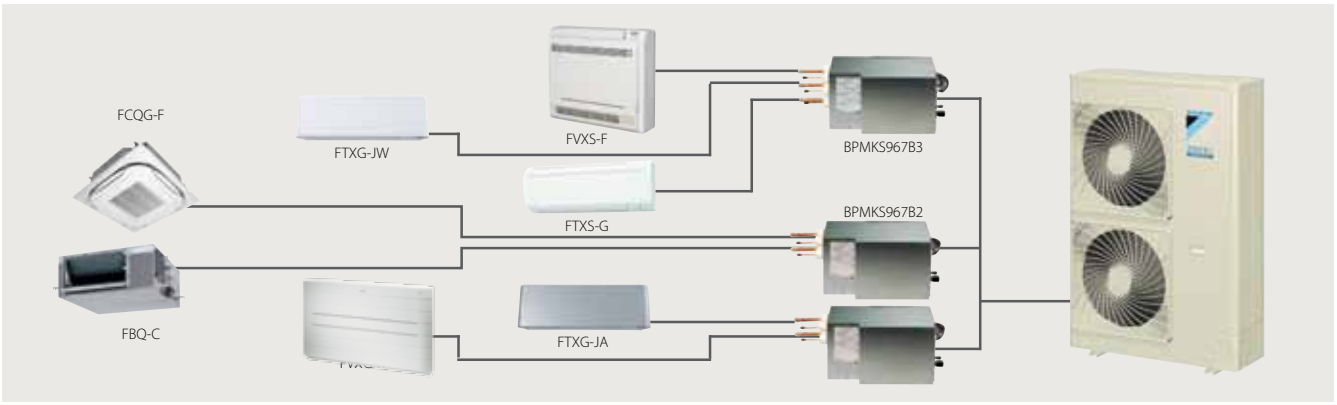
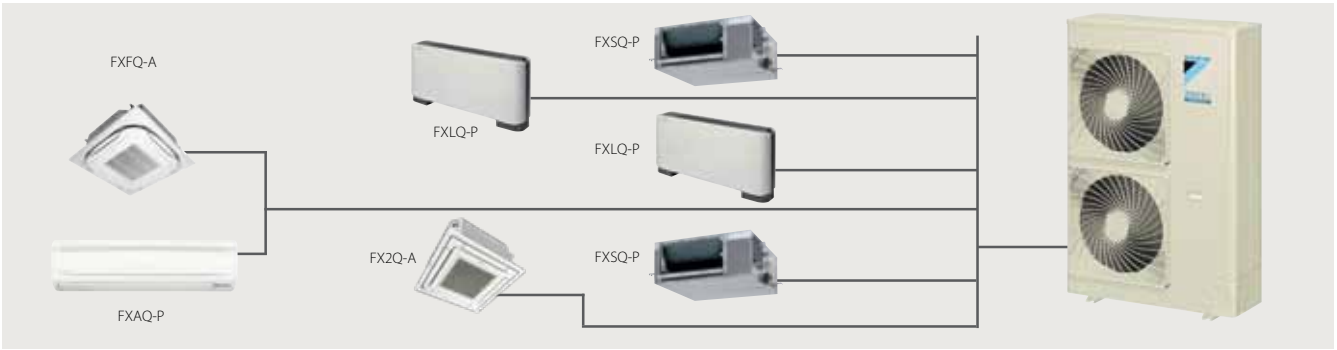
Wide range of indoor units

Either connect VRV indoor units or stylish indoor units as Daikin Emura, Nexura, …





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

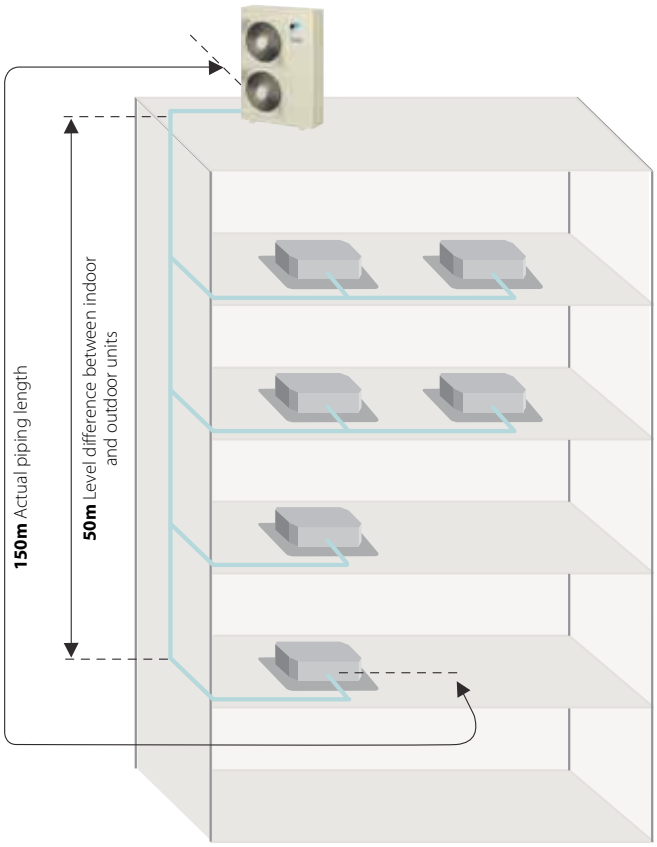
				Capacity								Connectable outdoor unit	
												VRV IV	VRV III-S
Type	Model	Product name		15	20	25	35	42	50	60	71	RYYQ-T RXYQ-T	RXYSQ-P8V1 RXYSQ-P8Y1
CEILING MOUNTED CASSETTE	Round flow cassette Auto cleaning function[1] Presence & floor sensor[1]	FCQG-F					■		■	■			✓
	Fully flat cassette Presence & floor sensor[1]	FFQ-C				■	■		■	■			✓
CONCEALED CEILING	Small concealed ceiling unit	FDBQ-B				■							✓
	Slim concealed ceiling unit	FDXS-F				■	■		■	■			✓
	Concealed ceiling unit with inverter driven fan	FBQ-C					■		■	■			✓
WALL MOUNTED	Daikin Emura Wall mounted unit	FTXG-JA/JW				■	■		■			✓	✓
	Wall mounted unit	CTXS-K FTXS-K		■	■	■	■	■	■			✓	✓
	Wall mounted unit	FTXS-G								■	■	✓	✓
CEILING SUS-PENDED	Ceiling suspended unit	FHQ-C					■		■	■			✓
FLOOR STANDING	Nexura floor standing unit	FVXG-K				■	■		■			✓	✓
	Floor standing unit	FVXS-F				■	■		■			✓	✓
	Flexi type unit	FLXS-B				■	■		■	■		✓	✓

[1] Optional

FLEXIBLE PIPING DESIGN

When connected to VRV indoor units

The VRVIII-S provides the long piping length possibility of 150m[1] (175m equivalent piping length), with a total piping length of 300m. If the outdoor unit is installed above the indoor units, the height difference can be up to a maximum of 50m[2].
These generous allowances facilitate an extensive variety of system designs.



Notes:
[1] 40 m when the outdoor unit is installed below indoor units.
[2] Maximum piping length between the indoor unit and the first branch is 40 m.

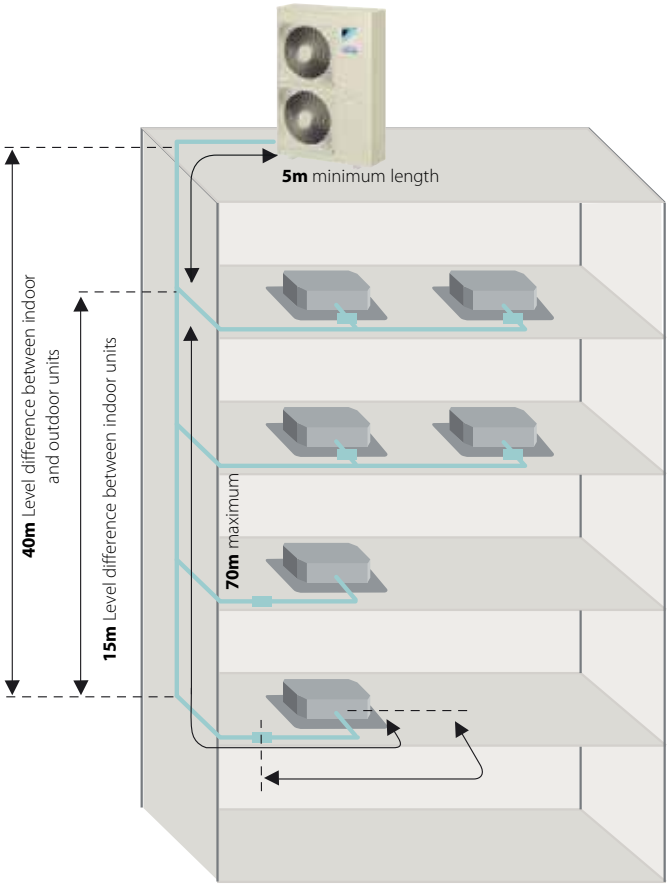
When connected to stylish indoor units

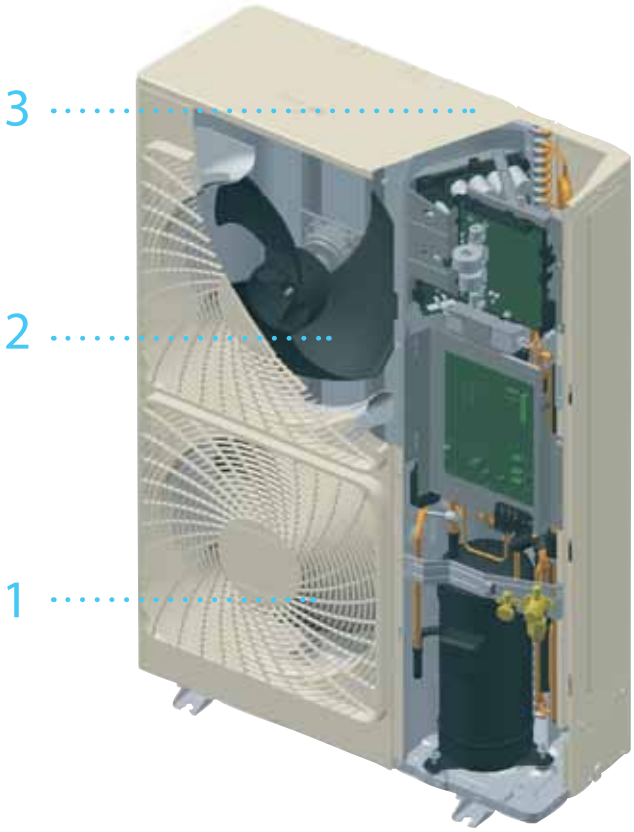
The VRV heat pump with connection to stylish indoor units offers a total system piping length of 250 m. (Total main piping length ≤ 100m (between outdoor and BP box) + Total branch piping length ≤ 80m (between BP box and indoor).

The minimum piping length between the outdoor unit and the first branch is 5m. The minimum piping lenth between the BP box and the indoor unit is 2m, the maximum length is 15m.

After the first branch, the longest piping length is 70m.

The height difference between the outdoor and indoor unit or BP box can be maximum 40m.





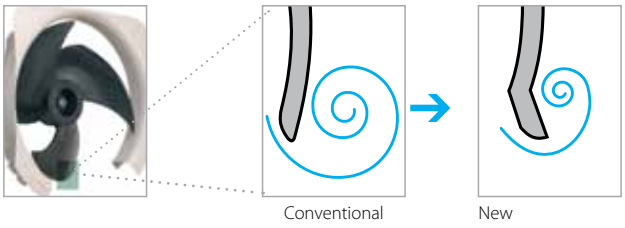
1 Super aero grille

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.

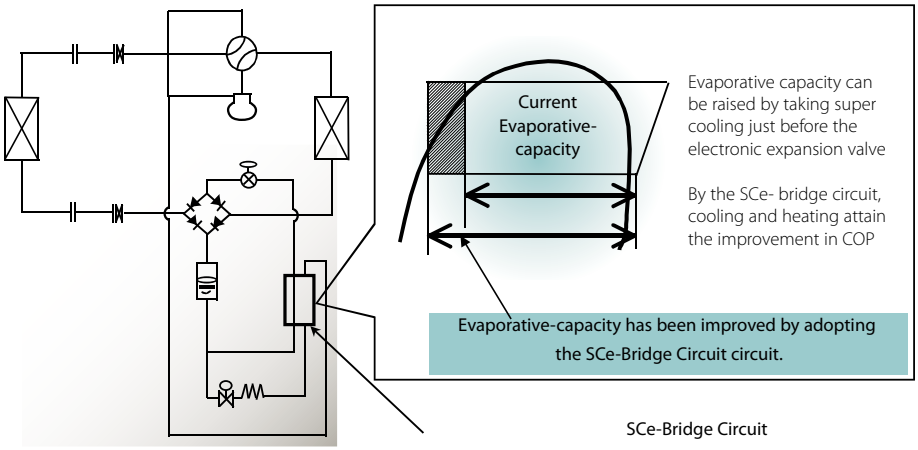
Aero spiral fan blade tips



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



SPECIFICATIONS

VRVIII-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