

Hitachi Air Conditioning

Engineered for tomorrow.

SYSTEM
FREE

-20
+15

-5
+46

DC
INVERTER

Set Free
VRF Systems

FS(V)(Y)N2E Mini 2-pipe

FS(V)N(Y)2E Mini Heat Pumps are 2-pipe heat pump VRF systems available in single & three phase models.

These compact units are rated with A/A efficiency with COP's of up to 4.17.



Features and Benefits

- ☑ Cooling capacities from 11.2kW to 18.0kW
- ☑ Compact design
- ☑ Connect up to 9 indoors per outdoor unit, minimising pipework required, with individual control
- ☑ New DC Inverter scroll compressor
- ☑ Single phase
- ☑ Low sound pressure of 42dB(A)
- ☑ High energy efficiency.

SYSTEM
FREE

Flexibility built in

Hitachi's System Free indoor units can be combined with outdoor units from either our Utopia splits or Set Free VRF ranges for ultimate flexibility.

Compatibility

Compatible with heat recovery modules, active heat exchangers, and air curtains.

Compatible with H-LINK II and CS Net Web.

Optional integration with all leading BMS protocols.

www.hitachiaircon.com | www.hitachiheating.com

HITACHI
Inspire the Next



RAS-FS(V)(Y)N2E

SYSTEM
FREE



Set Free
VRF Systems

Mini 2-pipe

Outdoor Unit		RAS-4FSVN2E	RAS-4FSNY2E	RAS-5FSVN2E	RAS-5FSNY2E	RAS-6FSVN2E	RAS-6FSNY2E
Power supply (1Ø/3Ø)		230V / 1Ph / 50Hz	400V / 3Ph / 50Hz	230V / 1Ph / 50Hz	400V / 3Ph / 50Hz	230V / 1Ph / 50Hz	400V / 3Ph / 50Hz
Nominal Cooling Capacity (min - max)	kW	11.2 (5.6 - 11.2)	11.2 (5.6 - 11.2)	14.0 (7.0 - 14.0)	14.0 (7.0 - 14.0)	15.5 (7.8 - 15.5)	15.5 (7.8 - 15.5)
Nominal Heating Capacity (min - max)	kW	12.5 (6.3 - 12.5)	12.5 (6.3 - 12.5)	16.0 (8.0 - 16.0)	16.0 (8.0 - 16.0)	18.0 (9.0 - 18.0)	18.0 (9.0 - 18.0)
UK Cooling Capacity	kW	9.9 (4.9 ~ 9.9)	9.9 (4.9 ~ 9.9)	12.5 (6.2 ~ 12.5)	12.5 (6.2 ~ 12.5)	13.6 (6.8 ~ 13.6)	13.6 (6.8 ~ 13.6)
Minimum - Maximum Indoor Units ⁽¹⁾		1 - 8	1 - 8	1 - 10	1 - 10	1 - 12	1 - 12
Minimum - Maximum connected capacity		50% - 130%	50% - 130%	50% - 130%	50% - 130%	50% - 130%	50% - 130%
Nominal Load Efficiency EER / COP ⁽²⁾		4.07 / 4.13	4.12 / 4.17	3.61 / 3.81	3.65 / 3.85	3.32 / 3.67	3.35 / 3.71
Energy Class (Cool/Heat)		A / A	A / A	A / A	A / A	A / A	A / A
Noise level cooling (sound pressure) (night mode)	dB(A)	49 (45)	49 (45)	51 (47)	51 (47)	51 (48)	51 (48)
Noise level heating (sound pressure)	dB(A)	51	51	53	53	53	53
Air flow (Cooling / Heating)	m ³ /h	5400	5400	5400	5400	6000	6000
Dimensions (H x W x D)	mm	1380x950x370	1380x950x370	1380x950x370	1380x950x370	1380x950x370	1380x950x370
Weight	Kg	100	102	100	102	100	102
Piping diameter (Liquid / Gas)	Inch	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8
	mm	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88
Total Piping Length / Height Difference	m	125 / 30	125 / 30	135 / 30	135 / 30	135 / 30	135 / 30
Max Piping Length (outdoor to indoor)	m	75	75	75	75	75	75
Current Quantity of Refrigerant	Kg	3.6	3.6	3.6	3.6	3.6	3.6
Chargeless / Additional Refrigerant Charge	m/g/m	calculate	calculate	calculate	calculate	calculate	calculate
Recommended fuse size	A	32	16	32	16	32	16
Starting current	A	<10	<10	<10	<10	<10	<10
Running current (cooling / heating)	A	12.2 / 13.4	4.1 / 4.6	17.2 / 18.6	5.8 / 6.3	20.7 / 21.7	7.0 / 7.4
Working Range (cooling / heating)	°C	-5°C~46(db)°C / -20°C~-15(wb)°C					
Refrigerant / GWP		R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975
Compressor type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll

⁽¹⁾ Maximum Indoor Units - restrictions apply see Technical Catalogue

⁽²⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C) Outdoor input only

⁽³⁾ Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the "cooling" mode operation in accordance to EN12102