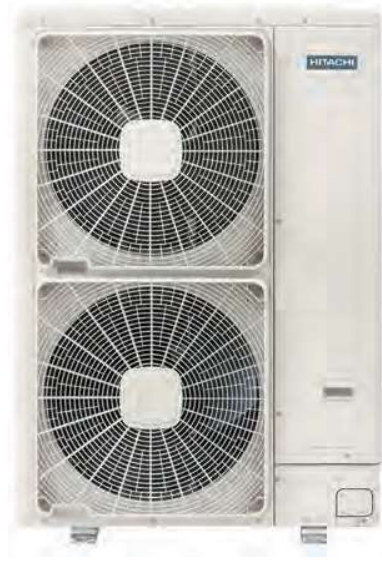
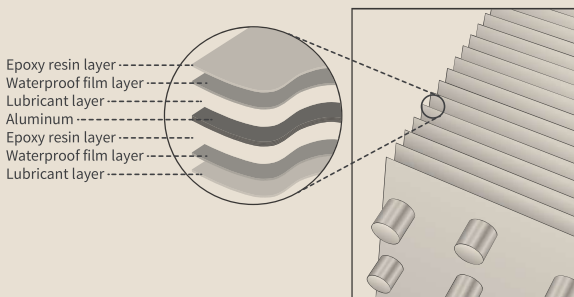


VRF SET FREE Mini



Advanced anti-corrosion treatment

With its triple coating, the SET FREE MINI offers the best protection on the market for use in tough environments.



Precise temperature control is maintained with Smooth Drive Control

Ultra-precise compressor frequency control (0.1Hz) ensures optimum outdoor unit performance under partial loads and a consistent indoor temperature. This new feature allows a single 1.1kW (0.4Hp) unit to operate on its own if required.

Smart Defrost

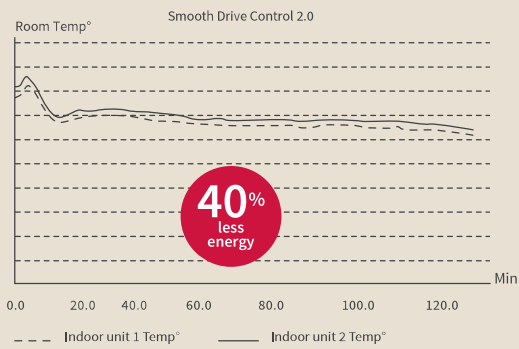
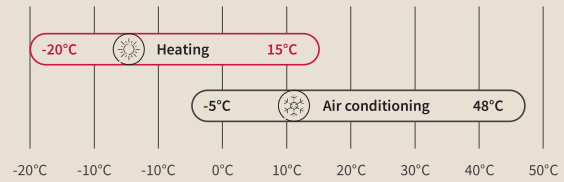
The smart defrost feature ensures a longer heating period without defrosting. This period automatically adjusts to the defrosting time of previous cycles and can extend up to 240 minutes, improving the comfort level as well as the heating capacity.

Easier maintenance

Direct access to the 7-segment display to perform tests and diagnostics. Real-time operating conditions and installation error codes are displayed for ease of servicing.

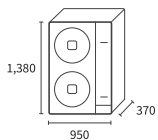
Large operating range

Outside temperature operating range

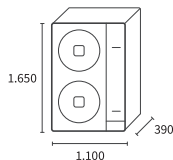


Performance at 25% partial load
Cooling capacity = 7.88 kW
Power input = 1.13kW
EER = 6.96

Outdoor units



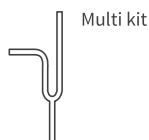
SET FREE Mini S
RAS-4FS(V)NME
RAS-5FS(V)NME
RAS-6FS(V)NME



SET FREE Mini L
RAS-8FSXNME
RAS-10FSXNME
RAS-12FSXNME

Performance, cooling		Unit	RAS-4FS ^S (V)NME	RAS-5FS ^S (V)NME	RAS-6FS ^S (V)NME	RAS-8FSXNME ^L	RAS-10FSXNME ^L	RAS-12FSXNME ^L	
Nominal Cooling capacity		kW	12.10	14.00	16.00	22.40	28.00	33.50	
Rated power input cooling		kW	2.97	3.26	4.35	6.25	7.27	9.36	
EER		-	4.07	4.29	3.68	3.60	3.85	3.58	
SEER Three-phase / Single-phase		-	6.61 / 6.67	6.61 / 6.64	6.37 / 6.40	7.59	8.31	8.26	
Working range in Cooling		-	-5°C / 48°C (DB)						
Performance, heating									
Nominal Heating capacity		kW	12.50	16.00	18.00	25.00	31.50	37.50	
Rated power input heating		kW	2.89	3.57	4.30	5.32	6.89	9.15	
Heating capacity at -7°C		kW	8.6	10.8	12.0	18.6	21.5	25.5	
Heating capacity at -15°C		kW	7.3	8.7	10.0	16.2	17.7	21.1	
COP		-	4.33	4.48	4.19	4.70	4.57	4.10	
SCOP		-	4.15	4.40	4.25	5.62	4.72	4.66	
Working range in heating		-	-20°C / 15°C (WB)						
Technical features									
Airflow		m ³ /h	8,700			9,900	11,100		
Available static pressure		Pa	30						
Number of fans		-	2						
Sound power in Cooling mode		dB(A)	69	72	74	76	77		
Sound pressure in Cooling mode		dB(A)	52		53	55	59	60	
Dimensions (H x L x D)		mm	1380 x 950 x 370				1650 x 1100 x 390		
Net weight of single-phase / three-phase		kg	114 / 115	118 / 119		- / 188	- / 194	- / 196	
Type of compressor		-	Scroll Inverter						
Compressor number		-	1						
Max. number of connectible units		-	13	16	18	26	32	39	
Connection ratio (min - max)		%	50-130						
Refrigeration characteristics									
Refrigerant		-	R410A						
Refrigerant charge		kg	3.7	4.1	4.1	4.2	5.5		
Diameter of pipes	Liquid	inches	3/8					1/2	
	Low pressure gas	inches	-			3/4	7/8	1 1/8	
	High pressure gas	inches	5/8		5/8		3/4	7/8	
Electrical features									
Power supply	Three-phase (Single-phase)	-	3N ~400V 50 Hz (1 ~230V 50 Hz)			3N ~400V 50 Hz			
Max. current	Three-phase (Single-phase)	A	16 (23.5)			18	19	23	
Recommended fuse size		A	20 (25)			20		25	
Indoor/outdoor connection (shielded)		mm	2 x 0.75						

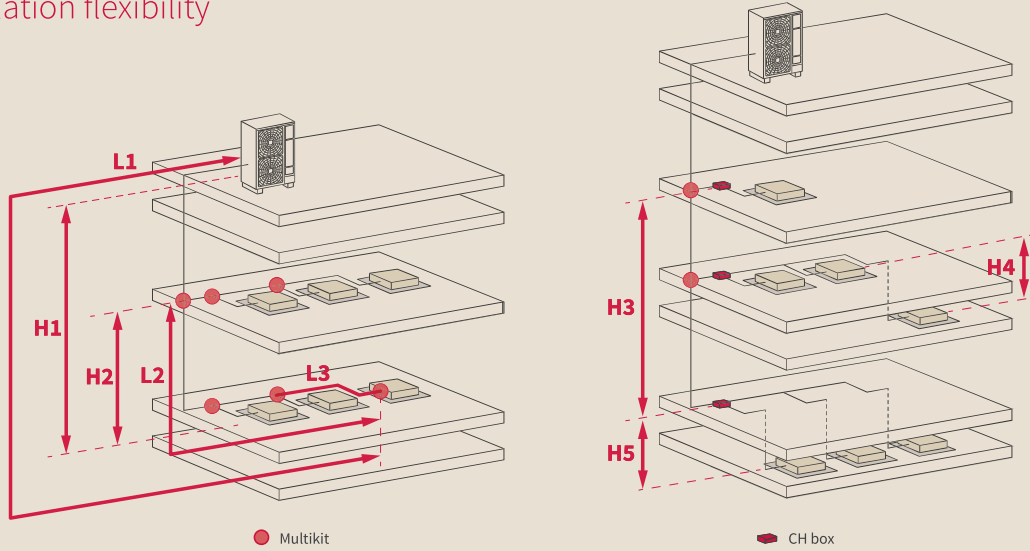
controls and compatible accessories (see the tab VRF TWIN controls)



Piping rules

VRF SET FREE Mini

Installation flexibility



			4 to 6 Hp	8 to 12 Hp	8 to 12 Hp (heat recovery)	
Max. length of piping	Total	-	180	500	500	
	Between outdoor unit and the furthest indoor unit	L1	85	125	125	
	Between the first multikit branch and the furthest indoor unit	L2	40	90*	90*	
	Between the multikit and the indoor unit	L3	15	40	40	
	Between the CH box and the indoor unit	-	-	-	40	
Max. level difference	Between the outdoor unit and the indoor unit	Outdoor unit above the indoor unit	H1	30	50	50
		Indoor unit above the outdoor unit	-	30	40	40
	Between indoor units	H2	15	15	15	
	Between CH boxes	H3	-	-	15	
	Between indoor units connected to a CH box (same branch)	H4	-	-	4	
	Between the CH box and the indoor unit	H5	-	-	15	

(*) 40 m over the recommended number of indoor units.

Part numbers of piping accessories

Multikit



2P

3P

E-102SN4

E-102XN3

E-162SN4

E-162XN3

Header



2P

3P

MH-84AN1

MH-108XN

MH-108AN

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