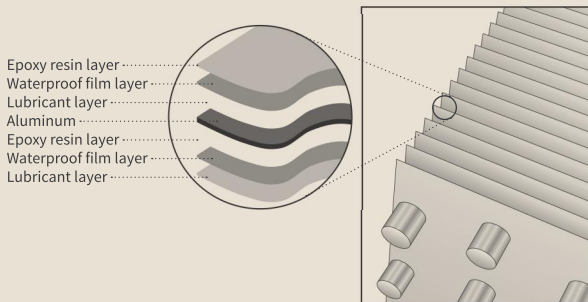


# VRF SET FREE Mini



## Advanced anti-corrosion treatment

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



## Comfort temperature is maintained with precision (Smooth Drive Control)

Ultra-precise compressor frequency setting system (0.1Hz) that ensures the best outdoor unit performance under partial loads and a consistent ambient temperature. This new feature allows a single 1.1kW (0.4Hp) unit to operate across the entire VRF system.

## Smart Defrost

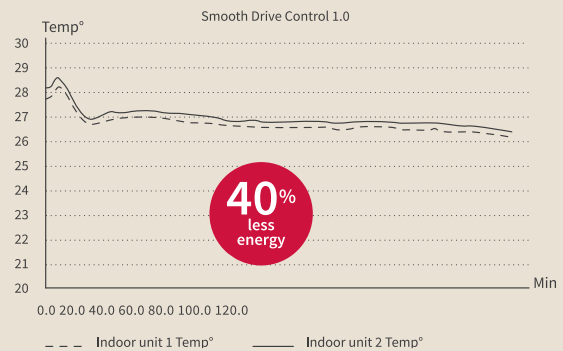
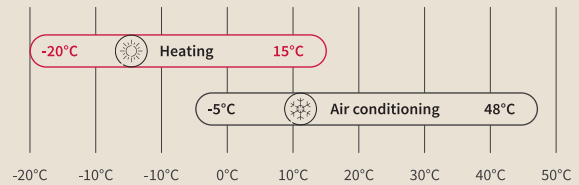
The smart defrost mode ensures a longer heating period without defrosting. This period automatically adjusts to the defrosting time of previous cycles and can extend up to 240 minutes, improving the comfort level as well as the heating capacity.

## Easier maintenance

Direct access to the 7-pane display to perform tests and diagnostics. Real-time operating settings and installation error codes.

## Large operating ranges

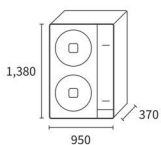
Outside temperature operating range



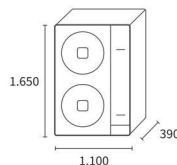
Performance at 25% partial load

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	<sup>S</sup> RAS-4FS(V)NME	<sup>S</sup> RAS-5FS(V)NME	<sup>S</sup> RAS-6FS(V)NME	<sup>L</sup> RAS-8FSXNME	<sup>L</sup> RAS-10FSXNME	<sup>L</sup> RAS-12FSXNME
Rated power Cooling		kW	12.10	14.00	15.50	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
Operating ranges Cooling		-	-5°C / 48°C (DB)					

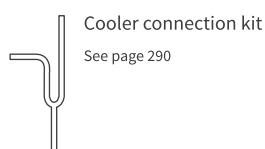
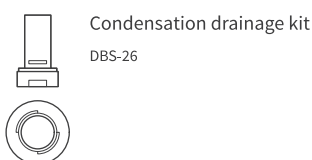
Performance, heating		Unit	<sup>S</sup> RAS-4FS(V)NME	<sup>S</sup> RAS-5FS(V)NME	<sup>S</sup> RAS-6FS(V)NME	<sup>L</sup> RAS-8FSXNME	<sup>L</sup> RAS-10FSXNME	<sup>L</sup> RAS-12FSXNME
Rated power Heating		kW	12.50	16.00	18.00	25.00	31.50	37.50
Rated power input heating		kW	2.89	3.57	4.30	5.32	6.89	9.15
Power at -7°C		kW	8.6	10.8	12.0	18.6	21.5	25.5
Power 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
Operating ranges heating		-	-20°C / 15°C (WB)					

Technical features		Unit	<sup>S</sup> RAS-4FS(V)NME	<sup>S</sup> RAS-5FS(V)NME	<sup>S</sup> RAS-6FS(V)NME	<sup>L</sup> RAS-8FSXNME	<sup>L</sup> RAS-10FSXNME	<sup>L</sup> RAS-12FSXNME
Airflow		m³/h	8,700			9,900		11,100
Adjustable static pressure		Pa	30					
Number of fans		-	2					
Sound pressure in Cooling mode		dB(A)	69		70	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	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 rate		%	50-130					

Cooling properties		Unit	<sup>S</sup> RAS-4FS(V)NME	<sup>S</sup> RAS-5FS(V)NME	<sup>S</sup> RAS-6FS(V)NME	<sup>L</sup> RAS-8FSXNME	<sup>L</sup> RAS-10FSXNME	<sup>L</sup> RAS-12FSXNME	
Coolant		-	R410A						
Coolant load		kg	3.7	4.1	4.1	4.2	5.5		
Dimension of cooler connections	Liquid	mm (inches)	9.52 (3/8)					12.7 (1/2)	
	Low pressure gas	mm (inches)	-			15.88 (5/8)	19.05 (3/4)	22.2 (7/8)	
	High pressure gas	mm (inches)	15.88 (5/8)			19.05 (3/4)	22.2 (7/8)	25.4 (1)	

Electrical features		Unit	<sup>S</sup> RAS-4FS(V)NME	<sup>S</sup> RAS-5FS(V)NME	<sup>S</sup> RAS-6FS(V)NME	<sup>L</sup> RAS-8FSXNME	<sup>L</sup> RAS-10FSXNME	<sup>L</sup> RAS-12FSXNME
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 (28.5)			18	19	23
Indoor/outdoor connection (protected)		mm	2 x 0.75					

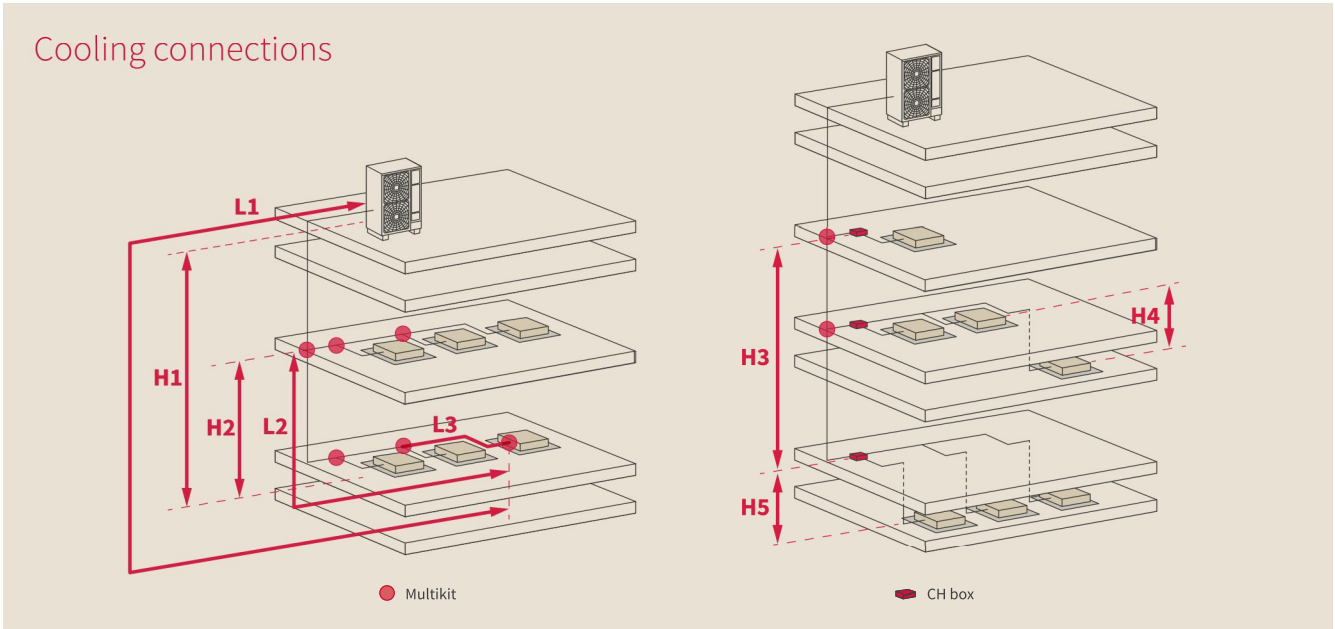
controls and compatible accessories (see the tab VRF TWIN controls)



Discover the SET FREE Mini

# Cooling connections

## VRF SET FREE Mini



			4 to 6 Hp	8 to 12 Hp	8 to 12 Hp (recovered energy)	
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	

(\* ) 60 m over the recommended number of indoor units.

### Part numbers of cooler accessories

#### Multikit

2T	3T
E-102SN4	E-102XN3
E-162SN4	E-162XN3

#### Collector

2T	3T
MH-84AN1	MH-108XN
MH-108AN	-