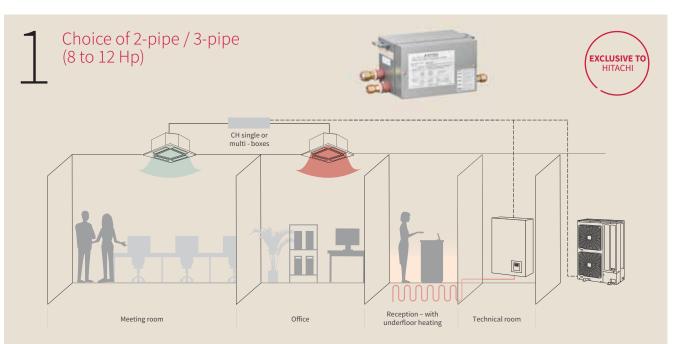
Benefits VRF SET FREE Mini

250



Hitachi has redefined mini VRF with its sideflow heat recovery system offering unparalleled comfort and flexibility. The new SET FREE Mini range from 8 to 12 Hp is exclusively compatible with a 2-pipe or 3-pipe installation and both from the same universal outdoor.

The SET FREE Mini is perfect when the outdoor space is limited but simultaneous heating and cooling is still required.



With its greatly reduced footprint, the SET FREE Mini can be installed discreetly for maximum discretion.

High num		loor units	sthat
can be cor	nnected		
)			

Outdoor unit (Hp)	Number of indoor units that can be connected
4	13
5	16
	18
8	26
10	32
12	39

The new SET FREE Mini can connect up to 39 indoor units! **Exclusive:** even more flexibility with a wide choice of units from 0.4Hp.



static pressure now available, our SET FREE Mini units can room while preserving the aesthetics of your buildings.

Compatible with all Set free indoor units with the Gentle Cool air off setting for more comfort



The GENTLE COOL air off temperature setting, accessible on the wired remote control PC-ARFP1E, adjusts the minimum blown air off temperature for your comfort. In summer, cold drafts are avoided as you can set the air off temperature to the maximum setting.



VRF outdoor units

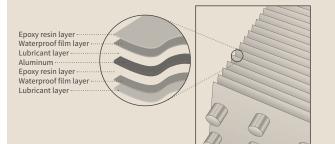
VRF SET FREE Mini





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

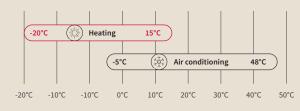
The smart defrost feature ensures a longer heating period without defrosting. This period automatically adjusts to the defrosting time of previous cycles and can extend up to 240 minutes, improving the comfort level as well as the heating capacity.

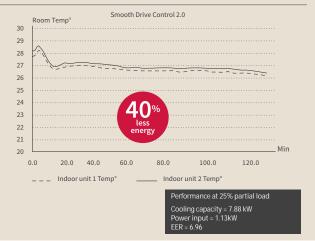
Easier maintenance

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



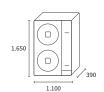


Outdoor units

1,380

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

VRF SET FREE Mini S and L

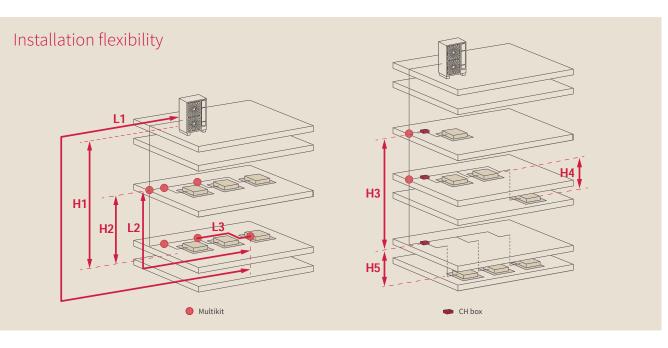
Performance, cooling		Unit	S RAS-4FS(V)NME	S RAS-5FS(V)NME	S RAS-6FS(V)NME	L RAS-8FSXNME	L RAS-10FSXNME	L RAS-12FSXNME	
Nominal Cooling capacit	у	kW	12.10	14.00	16.00	22.40	28.00	33.50	
Rated power input cooli	ng	kW	2.97	3.26	4.35	6.25	7.27	9.36	
EER			4.07	4.29	3.68	3.60	3.85	3.58	
SEER Three-phase / Sing	le-phase		6.61/6.67	6.61 / 6.64	6.37 / 6.40	7.59	8.31	8.26	
Working range in Cooling	5				-5°C / 4	в°С (DB)			
Performance, heating									
Nominal Heating capacit	:y	kW	12.50	16.00	18.00	25.00	31.50	37.50	
Rated power input heati	ng	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	7	-	-20°C / 1			/ 15°C (WB)			
Technical features									
Airflow		m³/h	8,700		9,900	11,100			
Available static pressure		Pa				0			
Number of fans		-			:	2			
Sound power in Cooling	mode	dB(A)	69	72	74	76	77		
Sound pressure in Coolir	ng 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-pha	se / three-phase	kg	114 / 115	118	/ 119	-/188	- / 194	- / 196	
Type of compressor			Scroll Inverter						
Compressor number				1		1			
Max. number of connect	ible units		13	16	18	26	32	39	
Connection ratio (min - r	nax)	%	50-130						
Refrigeration characteri	stics								
Refrigerant -		-	R410A						
Refrigerant charge	frigerant charge kg 3.7 4.1		4.1	4.1	4.2	5.5			
	Liquid	inches			3/8			1/2	
Diameter of pipes	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)	А	16 (23.5)			18	19	23	
Recommended fuse size				2	0	25			
Indoor/outdoor connect	ion (shielded)	mm	2 x 0.75						

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

VRF outdoor units

Piping rules VRF SET FREE Mini

254



				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.

