

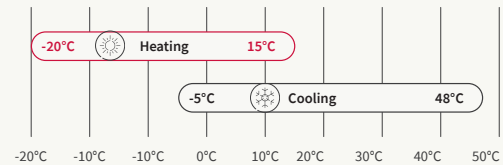
VRF Set free Mini

Reversible system / Energy recovery
4 - 12 HP (R410A)



+ SERVICES

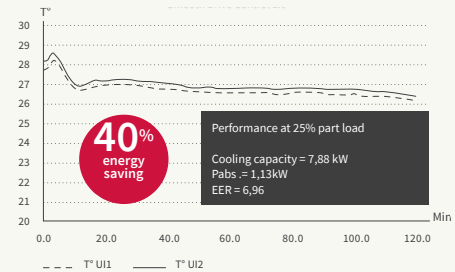
• Wide outdoor operating ranges.



• 2T/3T on 8-12HP models (energy recovery).

+ PERFORMANCE

Smooth Control Drive 1.0

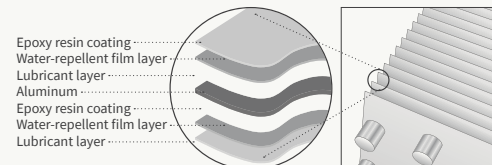


+ COMFORT

Smart Defrost to keep you warm and cozy

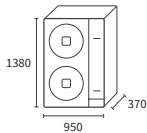
- The intelligent defrost mode ensures a longer period of Heating without defrosting.
- This period adapts automatically according to the defrosting time of previous cycles, and can extend up to 4 hours.

Exchanger with reinforced protection

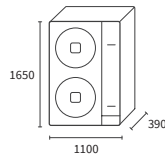


VRF OUTDOOR UNIT

Outdoor units



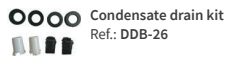
RAS-4FS(V)NME
RAS-5FS(V)NME
RAS-6FS(V)NME



RAS-8FSXNME
RAS-10FSXNME
RAS-12FSXNME

Compatible controls and accessories

Installation accessories



Condensate drain kit
Ref.: DDB-26



Refrigerant piping connection kit

CSNET Manager



CSNET Lite (web)



CSNET Manager 2 SL (web)



CSNET Manager 2T10 (web and Touch)
CSNET Manager 2T15 (web and Touch)

Remote access



airCloud Pro
Ref.: HC-IOTGW

VRF SET FREE Mini S and L (2-pipe / 3-pipe)

Model	Unit	RAS-4FS ^S (V)NME	RAS-5FS ^S (V)NME	RAS-6FS ^S (V)NME	RAS-8FS ^L XNME	RAS-10FS ^L XNME	RAS-12FS ^L XNME	
Cooling performance								
Nominal cooling capacity	kW	12,10	14,00	16,00	22,40	28,00	33,50	
Nominal 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	-	6,67(V) - 6,61	6,64(V) - 6,61	6,40(V) - 6,37	7,59	8,31	8,26	
Seasonal cooling energy efficiency $\eta_{s,c}$	%	264(V) - 261	262,6(V) - 261	253(V) - 251,8	300,6	329,4	327,4	
Operating range	-	-5°C / 48°C (DB)						
Heating performance								
Maximum heating capacity	kW	12,82	16,42	18,50	25,20	32,32	38,47	
Nominal heating capacity	kW	12,10	14,00	16,00	22,40	28,00	33,50	
Nominal power input Heating	kW	2,89	3,57	4,30	5,32	6,89	9,15	
Heating capacity at -7 °C	kW	8,60	10,80	12,00	18,60	21,50	25,50	
Heating capacity at -15 °C	kW	7,30	8,70	10,00	16,20	17,70	21,10	
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	
Seasonal heating energy efficiency $\eta_{s,h}$	%	163,0	173,0	167,0	221,8	185,8	183,4	
Operating range	-	-20°C / 15°C (WB)						
Technical data								
Air flow	m ³ /h	8 700			9 900	11 100		
Adjustable static pressure	Pa	30						
Number of fans	-	2						
Sound power in Cooling	dB(A)	69	72	74	76	77		
Sound Pressure in Cooling	dB(A)	52		53	55	59	60	
Dimensions (H x W x D)	mm	1380 x 950 x 370			1650 x 1100 x 390			
Net weight	kg	114(V) - 115		118(V) - 119	188	194	196	
Compressor type	-	Scroll Inverter						
Number of Compressors	-	1						
Max. number of connectable units	-	13	16	18	26	32	39	
Connection rate	%	50-130						
Refrigerant cycle								
Refrigerant	-	R410A						
Initial refrigerant charge	kg	3,7	4,1	4,2	5,5			
Refrigerant connection dimensions	Liquid	mm (inch)	9,52 (3/8)				12,70 (1/2)	
	Low-pressure gas	mm (inch)	-			19,05 (3/4)	22,20 (7/8)	25,40 (1)
	High/low pressure gas	mm (inch)	15,88 (5/8)		15,88 (5/8)	19,05 (3/4)	22,20 (7/8)	
Electrical data								
Power supply	Three-phase (Single-phase)	-	3N ~400V 50 Hz + N+ G (1 ~230V 50 Hz + N+ G)			3N ~400V 50 Hz + N+ G		
Maximum current	Three-phase (Single-phase)	A	16 (28,5)		18	19	23	
Indoor/outdoor connection (shielded)	mm ²	2 x 0,75						

(V) Single-phase version.

Benefits

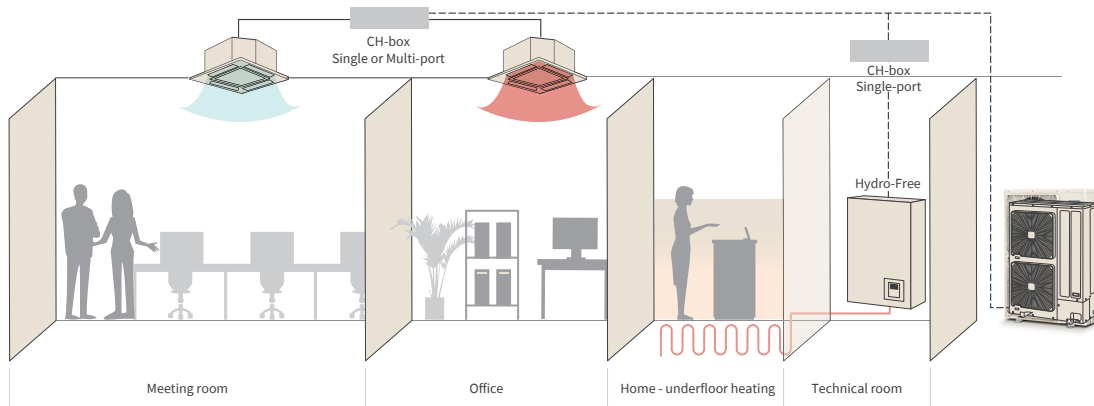
VRF SET FREE Mini (4-12HP)

Unique: a single unit for 2-pipe or 3-pipe operation (heat recovery from 8 to 12 HP): in the same building, depending on whether it faces north or south, one room can be heated and another cooled at the same time, thanks to heat recovery from the CH box. In this way, cooling and heating can be carried out simultaneously, for greater occupant comfort.

1 Flexibility 2 pipes / 3 pipes (8 to 12 HP)

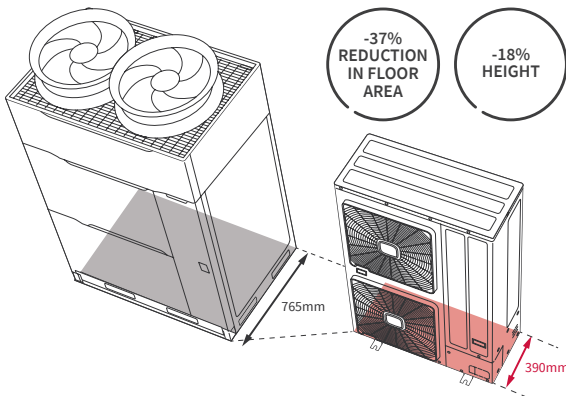


CH heat recovery box



- SET FREE Mini reversible range from 4 to 12 HP,
- Compatibility with 2 pipes/3 pipes 8 to 12 HP "exclusivity",
- A must-have solution for personalized comfort when outdoor space is limited.

2 The market's most compact 3-pipe VRF



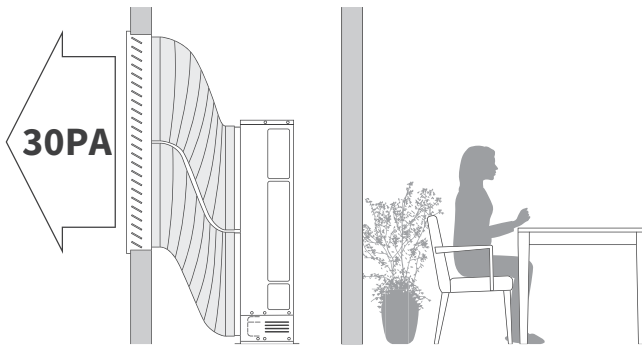
With its small footprint, the SET FREE Mini can be installed discreetly to provide maximum comfort.

3 A large number of connectable indoor units

Outdoor unit (HP)	Number of connectable indoor units
4	13
5	16
6	18
8	26
10	32
12	39

The NEW SET FREE Mini offers the possibility of connecting up to 39 indoor units (see TC). **Exclusive:** even greater flexibility with a wide choice of units from 0.4HP upwards (wall-mounted, cassettes and ducted).

4 Static pressure available



With 30Pa, the unit can be concealed. This solution makes it possible to force air through the grille at high speed, thus avoiding recycling.



Outdoor unit can be sheathed, in order to preserve the aesthetics of the building.

5 Compatibility with all Set Free IUs with regulated supply air function for greater "Gentle Cool" comfort



The "Gentle Cool" regulated supply air temperature function is accessible via the PC-ARFG2-E(B) wired remote control:

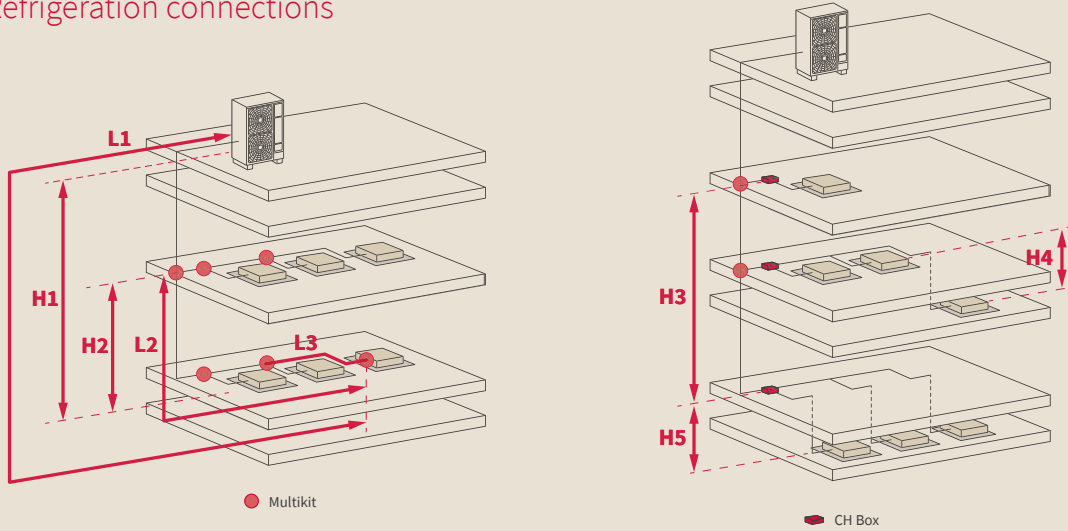
- Set the minimum supply air temperature for greater comfort.
- In summer, Cooling draughts are avoided by programming an adjustable minimum supply air temperature.



Refrigeration connections

VRF SET FREE Mini

Refrigeration connections



			4 to 6 HP	8 to 12 HP	8 to 12 HP (energy recovery)	
Maximum piping length	Total	-	180	500	500	
	Between OU and farthest IU	L1	85	125	125	
	Between 1st Multikit branch and farthest IU	L2	40	90*	90*	
	Between Multikit and IU	L3	15	40	40	
	Between CH box and IU	-	-	-	40	
Maximum height difference	Between OU and IU	OU above the IU	H1	30	50	50
		IU above OU	-	30	40	40
	Between IU	H2	15	15	15	
	Between CH boxes	H3	-	-	15	
	Between IU connected to a CH box (same branch)	H4	-	-	4	
	Between IUs and CH boxes	H5	-	-	15	

(*) 60 m when the recommended number of indoor units is exceeded.

Refrigerant piping accessory part numbers

Multikit



2-pipe

3-pipe

E-102SN4

E-102XN3

E-162SN4

E-162XN3

Collector



2-pipe

3-pipe

MH-84AN1

MH-108XN

MH-108AN

-



air365 Max

Reversible system / Energy recovery
8 - 96 HP (R410A)



+ SERVICES

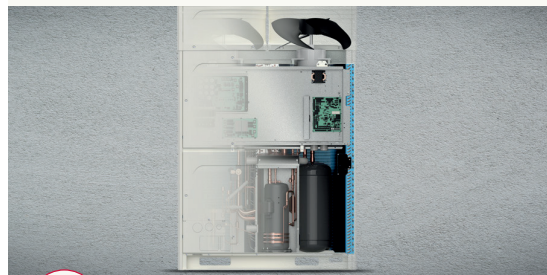
Flexible installation

- Up to 100m after the 1st branch.
- 2-pipe change-over control: 4 modes available.
- Unique 3-pipe / 2-pipe assembly for energy recovery and reversible heat pump applications.
- Reinforced exchanger with three layers of protection.

+ PERFORMANCE

Scroll compressor with hot gas injection

- SCOP up to 4.63.
- SEER up to 7.35.
- **NEW Hitachi Scroll compressor** with hot gas injection for operation down to **-25°C outside in Heating mode** and **52°C in Cooling mode**.



+ TECHNOLOGY

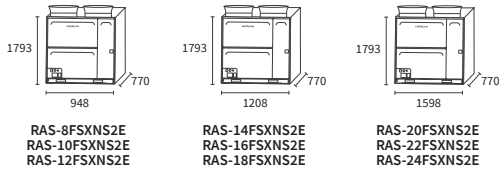
airCloud Tap + NFC technology

- airCloud Tap mobile application for setting OU and IU parameters via NFC contact.
- Function test.
 - Readout of operating parameters.



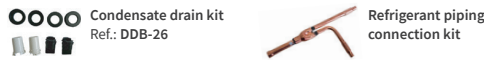
VRF OUTDOOR UNIT

Outdoor units



Compatible controls and accessories

Installation accessories



CSNET Manager



Remote access



VRF air365 Max

Model	Unit	RAS-8FSXNS2E	RAS-10FSXNS2E	RAS-12FSXNS2E	RAS-14FSXNS2E	RAS-16FSXNS2E	RAS-18FSXNS2E	RAS-20FSXNS2E	RAS-22FSXNS2E	RAS-24FSXNS2E	
Cooling performance											
Nominal cooling capacity	kW	22,40	28,00	33,50	40,00	45,00	50,00	56,00	61,50	67,00	
Nominal power input Cooling	kW	6,28	8,20	10,43	13,95	15,64	17,64	19,75	22,53	24,64	
EER	-	3,57	3,41	3,21	2,52	2,64	2,84	2,84	2,73	2,72	
SEER	-	7,35	7,12	6,79	6,91	7,20	6,73	6,43	6,17	6,19	
Seasonal cooling energy efficiency $\eta_{s,c}$	%	291,0	281,8	268,6	273,4	285,0	266,2	254,2	243,8	244,6	
Operating range	-	-10°C / 52°C DB									
Heating performance											
Maximum heating capacity	kW	25,13	31,65	37,70	45,18	50,27	56,28	63,31	69,32	77,86	
Nominal heating capacity	kW	22,4	28,0	33,5	40,0	45,0	50,0	56,0	61,5	67,0	
Nominal power input Heating	kW	4,85	6,45	9,43	10,18	13,63	14,87	15,99	18,30	19,34	
Heating capacity at -7°C ⁽¹⁾	kW	19,92	25,10	26,46	33,08	36,75	39,73	44,70	48,95	51,70	
Heating capacity at -15°C ⁽¹⁾	kW	15,80	19,80	20,30	25,50	28,33	30,20	34,00	37,30	39,50	
COP	-	4,62	4,34	3,34	3,86	4,04	3,00	3,50	3,36	3,47	
SCOP	-	4,63	4,56	4,29	4,51	4,67	4,35	4,76	4,34	4,27	
Seasonal heating energy efficiency $\eta_{s,h}$	%	182,2	179,4	168,6	177,4	183,8	171,0	187,4	170,6	167,8	
Operating range	-	-25°C / 15°C WB									
Technical data											
Air flow	m ³ /h	10500	10500	11880	14340	15360	15780	19740	19740	20880	
Adjustable static pressure	Pa	30 / 60 / 80									
Number of fans	-	1				2					
Sound power (Cooling/Heating)	dB(A)	77/78	79/80	82/83	81/80	83/82	85/86	84/85		85/86	
Sound pressure ⁽²⁾ night mode	dB(A)	57 (55)	59 (56)	61 (55)	60 (57)	62 (58)	64 (58)	64 (63)	65 (63)	65 (62)	
Dimensions (H x W x D)	mm	1793 x 948 x 770			1793 x 1208 x 770			1793 x 1598 x 770			
Net weight	kg	197	203	217	271	272		350		375	
Compressor type	-	DC Inverter Scroll compressor with hot gas injection									
Number of Compressors	-	1					2				
Maximum number of indoor units that can be connected	-	26	32	39	45	52	58	64			
Connection rate ⁽³⁾	-	50 - 150% (200% according to application)									
Refrigeration features											
Refrigerant	-	R410A									
Initial refrigerant charge	kg	5,6		8,3	8,9	9,5	10,2	11,2	11,2	11,5	
Size of refrigerant connections	Liquid	inch 3/8		inch 1/2			inch 5/8				
	Low-pressure gas	inch 3/4		inch 7/8			inch 1 - 1/8				
	High/low pressure gas	inch 5/8		inch 3/4			inch 7/8			inch 1	
Electrical data											
Power supply	-	3N - 400V 50Hz + N + T									
Maximum current	A	16,10	20,00	23,30	27,70	32,70	39,70	40,00	42,70	53,00	
Indoor/outdoor connection (shielded) ⁽⁴⁾	mm ²	2 x 0,75									

⁽¹⁾ For an ambient T* of 20°C and a Connection rate of 100%
⁽²⁾ Readings taken in an anechoic chamber at 1.5 m in front of the device.
⁽³⁾ Above 130%, please refer to technical documentation for application conditions.
⁽⁴⁾ Weight to be regenerated every 300 m.

VRF air365 Max

	Unit	RAS-26FSXNS2E	RAS-28FSXNS2E	RAS-30FSXNS2E	RAS-32FSXNS2E	RAS-34FSXNS2E	RAS-36FSXNS2E	RAS-38FSXNS2E	RAS-40FSXNS2E
Description Unit 1		RAS-14FSXNS2E	RAS-16FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-22FSXNS2E	RAS-22FSXNS2E
Description Unit 2		RAS-12FSXNS2E	RAS-12FSXNS2E	RAS-12FSXNS2E	RAS-14FSXNS2E	RAS-16FSXNS2E	RAS-18FSXNS2E	RAS-16FSXNS2E	RAS-18FSXNS2E
Twin group connection kit		MC-21AN1							
Cooling performance									
Nominal cooling capacity	kW	73,50	78,50	83,50	90,00	95,00	100,00	106,50	111,50
Nominal power input Cooling	kW	24,38	26,07	28,07	31,59	33,28	35,27	38,17	40,16
EER	-	2,79	2,85	2,98	2,69	2,74	2,84	2,69	2,78
SEER	-	6,75	6,90	6,67	6,80	6,93	6,73	6,55	6,40
Seasonal cooling energy efficiency η_s , c	%	267,0	273,0	263,8	269,0	274,2	266,2	259,0	253,0
Operating range	-	-10°C / 52°C DB							
Heating performance									
Maximum heating capacity	kW	82,88	87,97	93,98	101,46	106,55	112,56	123,10	125,60
Nominal heating capacity	kW	73,50	78,50	83,50	90,00	95,00	100,00	106,50	111,50
Nominal power input Heating	kW	20,36	21,15	26,66	27,02	27,77	33,33	29,41	34,95
Heating capacity at -7°C ⁽¹⁾	kW	59,54	63,70	66,19	72,81	76,48	79,46	88,22	88,68
Heating capacity at -15°C ⁽¹⁾	kW	45,8	48,63	50,50	55,70	58,53	60,40	67,56	67,50
COP	-	3,61	3,71	3,13	3,33	3,42	3,00	3,62	3,19
SCOP	-	4,32	4,38	4,20	4,35	4,40	4,25	4,40	4,27
Seasonal heating energy efficiency η_s , h	%	169,8	172,2	165,0	171,0	173,0	167,0	173,0	167,8
Operating range	-	-25°C / 15°C WB							
Technical data									
Air flow	m ³ /h	14340 + 11880	15360 + 11880	15780 + 11880	15780 + 14340	15780 + 15360	15780 + 15780	19740 + 15360	19740 + 15780
Adjustable static pressure	Pa	30 / 60 / 80							
Number of fans	-	3				4			
Sound power (Cooling/Heating)	dB(A)	84/84	85/85	86/87	85/85	86/86	87/88	86/86	87/88
Sound pressure ⁽²⁾ (night mode)	dB(A)	63 (60)	64 (59)	65 (59)	64 (61)	65 (61)	66 (60)	66 (63)	67 (63)
Dimensions (H x W x D)	mm	1793 x 2176 x 770			1793 x 2436 x 770			1793 x 2826 x 770	
Net weight	kg	271 + 217	272 + 217		272 + 271	272 + 272		350 + 272	
Compressor type	-	DC Inverter Scroll compressor with hot gas injection							
Number of Compressors	-	2						3	
Maximum number of connectable indoor units	-	64							
Connection rate ⁽³⁾	-	50 - 150% (200% according to application)							
Refrigeration features									
Refrigerant	-	R410A							
Initial refrigerant charge	kg	17,2	17,8	18,5	19,1	19,7	20,4	20,7	21,4
Size of refrigerant connections	Liquid	inch 3/4							
	Low-pressure gas	inch 1 - 1/4				inch 1 - 1/2			
	High/low pressure gas	inch 1		inch 1 - 1/8					
Electrical data									
Power supply	-	3N - 400V 50Hz + N + T							
Maximum current	A	51,0	56,0	63,0	67,4	72,4	79,4	75,4	82,4
Indoor/outdoor connection (shielded) ⁽⁴⁾	mm ²	2 x 0,75							

⁽¹⁾ For an ambient temperature of 20°C and a Connection rate of 100%.⁽²⁾ Readings taken in an anechoic chamber at 1.5 m in front of the device.⁽³⁾ Above 130%, please refer to technical documentation for application conditions.⁽⁴⁾ Weight to be regenerated every 300 m.

VRF air365 Max

	Unit	RAS-42FSXNS2E	RAS-44FSXNS2E	RAS-46FSXNS2E	RAS-48FSXNS2E	RAS-50FSXNS2E	RAS-52FSXNS2E	RAS-54FSXNS2E
Description Unit 1		RAS-24FSXNS2E	RAS-22FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E
Description Unit 2		RAS-18FSXNS2E	RAS-22FSXNS2E	RAS-22FSXNS2E	RAS-24FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E
Description Unit 3		-	-	-	-	RAS-14FSXNS2E	RAS-16FSXNS2E	RAS-18FSXNS2E
Twin group connection kit		MC-21AN1	MC-21AN1	MC-21AN1	MC-21AN1	MC-30AN1	MC-30AN1	MC-30AN1

Cooling performance

Nominal cooling capacity	kW	117,0	123,00	128,50	134,00	140,00	145,00	150,00
Nominal power input Cooling	kW	42,27	45,05	47,16	49,27	49,23	50,91	52,91
EER	-	2,77	2,73	2,72	2,72	2,74	2,77	2,84
SEER	-	6,40	6,17	6,18	6,19	6,78	6,86	6,73
Seasonal cooling energy efficiency $\eta_{s,c}$	%	253,0	243,8*	244,2*	244,6*	268,2	271,4	266,2
Operating range	-	-10°C / 52°C DB						

Heating performance

Maximum heating capacity	kW	134,14	138,64	147,18	155,72	157,74	162,82	168,84
Nominal heating capacity	kW	117,0	123,0	128,5	134,0	140,0	145,0	150,0
Nominal power input Heating	kW	34,95	36,61	37,68	38,61	43,61	44,47	50,00
Heating capacity at -7°C ⁽¹⁾	kW	91,43	97,90	100,65	103,40	112,54	116,21	119,19
Heating capacity at -15°C ⁽¹⁾	kW	69,70	74,60	76,80	79,00	85,90	88,73	90,60
COP	-	3,25	3,36	3,41	3,47	3,21	3,26	3,00
SCOP	-	4,24	4,29	4,26	4,24	4,32	4,35	4,25
Seasonal heating energy efficiency $\eta_{s,h}$	%	166,6	168,6	167,4	166,6	169,8	171,0	167,0
Operating range	-	-25°C / 15°C WB						

Technical data

Air flow	m ³ /h	20880 + 15780	19740 + 19740	20880 + 19740	20880 + 20880	15780+15780+14340	15780+15780+15360	15780+15780+15780
Adjustable static pressure	Pa	30 / 60 / 80						
Number of fans	-	4				6		
Sound power Cooling/Heating	dB(A)	87/88	86/87	87/88	87/88	87/87	87/88	88/89
Sound pressure ⁽²⁾ (night mode)	dB(A)	67 (62)	67 (65)		67 (64)	66 (62)	66 (61)	67 (61)
Dimensions (H x W x D)	mm	1793 x 2826 x 770	1793 x 3216 x 770			1793 x 3664 x 770		
Net weight	kg	375 + 272	350 + 350	375 + 350	375 + 375	272 + 272 + 271	272 + 272 + 272	
Compressor type	-	DC Inverter Scroll compressor with hot gas injection						
Number of Compressors	-	3	4			3		
Maximum number of connectable indoor units	-	64						
Connection rate ⁽³⁾	-	50 - 150% (200% according to application)						

Refrigerant cycle

Refrigerant	-	R410A						
Initial refrigerant charge	kg	21,7	22,4	22,7	23,0	29,3	29,9	30,6
Size of refrigerant connections	Liquid	inch 3/4						
	Low-pressure gas	inch 1 - 1/2						
	High/low pressure gas	inch 1 - 1/8						

Electrical data

Power supply	-	3N - 400V 50Hz + N + T						
Maximum current	A	92,7	85,4	95,7	106,0	107,1	112,1	119,10
Indoor/outdoor connection (shielded) ⁽⁴⁾	mm ²	2 x 0,75						

⁽¹⁾ For an ambient temperature of 20°C and a Connection rate of 100%.

⁽²⁾ Readings taken in an anechoic chamber at 1.5 m in front of the device.

⁽³⁾ Above 130%, please refer to technical documentation for application conditions.

⁽⁴⁾ Weight to be regenerated every 300 m.

VRF air365 Max

	Unit	RAS-56FSXNS2E	RAS-58FSXNS2E	RAS-60FSXNS2E	RAS-62FSXNS2E	RAS-64FSXNS2E	RAS-66FSXNS2E	RAS-68FSXNS2E
Description Unit 1		RAS-22FSXNS2E	RAS-22FSXNS2E	RAS-24FSXNS2E	RAS-22FSXNS2E	RAS-22FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E
Description Unit 2		RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-22FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E	RAS-22FSXNS2E
Description Unit 3		RAS-16FSXNS2E	RAS-16FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-22FSXNS2E
Twin group connection kit		MC-NP31SA	MC-NP31SA	MC-NP31SA	MC-NP31SA	MC-NP31SA	MC-NP31SA	MC-NP31SA
Cooling performance								
Nominal cooling capacity	kW	156,50	161,50	167,00	173,00	178,50	184,00	190,00
Nominal power input Cooling	kW	51,99	50,44	52,26	59,47	57,93	59,74	63,27
EER	-	2,73	2,79	2,79	2,76	2,75	2,75	2,73
SEER (Medium climate)	-	6,61	6,50	6,50	6,31	6,21	6,32	6,17
Seasonal cooling energy efficiency η_s, c	%	261,4	257,0	257,0	250,0	245,4	250,0	243,8
Operating range	-	-10°C / 52°C DB						
Heating performance								
Maximum heating capacity	kW	179,38	181,88	190,42	200,95	203,46	212,00	216,52
Nominal heating capacity	kW	156,50	161,50	167,00	173,00	178,50	184,00	190,00
Nominal power input Heating	kW	46,03	51,60	52,68	53,23	54,26	55,26	55,88
Heating capacity at -7°C ⁽¹⁾	kW	127,94	128,41	131,16	141,88	140,38	146,27	149,39
Heating capacity at -15°C ⁽¹⁾	kW	97,75	97,70	99,90	108,04	107,00	111,49	113,87
COP	-	3,40	3,13	3,17	3,25	3,29	3,33	3,40
SCOP (Medium climate)	-	4,35	4,26	4,24	4,28	4,25	4,23	4,27
Seasonal heating energy efficiency η_s, h	%	171,0	167,4	166,6	168,2	167,0	166,2	167,8
Operating range	°C	-25°C WB / 15°C DB						
Technical data								
Air flow (Cooling)	m ³ /h	19740+15780+15360	19740+15780+15780	20880+15780+15780	19740+19740+15780	20880+19740+15780	20880+20880+15780	20880+19740+19740
Fan with adjustable static pressure	Pa	30 / 60 / 80						
Number of fans	-	6						
Sound power Cooling/Heating	dB(A)	87/87	88/89		87/88	88/89		87/88
Sound pressure level in Cooling (night) ⁽²⁾	dB(A)	67 (63)		67 (62)	68 (64)		68 (66)	
Dimensions (H x W x D)	mm	1793 x 4054 x 770			1793 x 4444 x 770			1793 x 4834 x 770
Net weight	kg	350 + 272 + 272			350 + 350 + 272		375 + 375 + 272	375 + 350 + 350
Compressor type	-	DC Inverter Scroll compressor with hot gas injection						
Number of Compressors	-	4			5		6	
Maximum number of connectable indoor units	-	64						
Connection rate (min-max) ⁽³⁾	%	50 - 150% (200% according to application)						
Refrigeration features								
Refrigerant	-	R410A						
Initial refrigerant charge	kg	30,9	31,6	31,9	32,6	32,9	33,2	33,9
Size of refrigerant connections	Liquid	inch 3/4						7/8
	Low-pressure gas	inch 1-3/4						
	High/low pressure gas	inch 1-1/2						
Electrical data GE								
Power supply	-	3N - 400V 50Hz + N + T						
Maximum current	A	115,10	122,10	132,40	125,10	135,40	145,70	138,40
Indoor/outdoor connection (shielded) ⁽⁴⁾	mm ²	2 x 0,75						

⁽¹⁾ For an ambient temperature of 20°C and a Connection rate of 100%.

⁽²⁾ Readings taken in an anechoic chamber at 1.5 m in front of the device.

⁽³⁾ Above 130%, please refer to technical documentation for application conditions.

⁽⁴⁾ Weight to be regenerated every 300 m.

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	Unit	RAS-70FSXNS2E	RAS-72FSXNS2E	RAS-74FSXNS2E	RAS-76FSXNS2E	RAS-78FSXNS2E	RAS-80FSXNS2E	RAS-82FSXNS2E
Description Unit 1		RAS-24FSXNS2E	RAS-24FSXNS2E	RAS-22FSXNS2E	RAS-22FSXNS2E	RAS-24FSXNS2E	RAS-22FSXNS2E	RAS-24FSXNS2E
Description Unit 2		RAS-24FSXNS2E	RAS-24FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-22FSXNS2E	RAS-22FSXNS2E
Description Unit 3		RAS-22FSXNS2E	RAS-24FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E
Description Unit 4				RAS-16FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E
Twin group connection kit		MC-NP31SA	MC-NP31SA	MC-NP40SA	MC-NP40SA	MC-NP40SA	MC-NP40SA	MC-NP40SA

Cooling performance

Nominal cooling capacity	kW	195,50	201,00	206,50	211,50	217,00	223,00	228,50
Nominal power input Cooling	kW	71,80	73,91	73,44	75,44	77,55	80,33	82,44
EER	-	2,72	2,72	2,76	2,80	2,80	2,78	2,77
SEER (Medium climate)	-	6,18	6,19	6,63	6,55	6,55	6,40	6,40
Seasonal cooling energy efficiency η , c	%	244,2	244,6	262,2	259	259	253	253
Operating range	°C	-10°C / 52°C DB						

Heating performance

Maximum heating capacity	kW	225,06	233,60	235,61	238,12	246,66	257,21	262,23
Nominal heating capacity	kW	195,50	201,00	206,50	211,50	217,00	223,00	228,50
Nominal power input Heating	kW	57,00	57,92	62,76	68,20	69,32	69,90	70,96
Heating capacity at -7°C ⁽¹⁾	kW	155,28	161,18	162,56	164,29	170,19	177,47	180,93
Heating capacity at -15°C ⁽¹⁾	kW	118,36	122,85	123,91	125,23	129,72	135,27	137,91
COP	-	3,43	3,47	3,29	3,10	3,13	3,19	3,22
SCOP (Medium climate)	-	4,25	4,24	4,33	4,26	4,24	4,27	4,25
Seasonal heating energy efficiency η , h	%	167,0	166,6	170,2	167,4	166,6	167,8	167,0
Operating range	°C	-25°C WB / 15°C DB						

Technical data

Air flow (Cooling)	m ³ /h	20880+20880+19740	20880+20880+20880	19740+15780 +15780+15360	19740+15780 +15780+15780	20880+15780 +15780+15780	19740+19740 +15780+15780	20880+19740 +15780+15780
Fan with adjustable static pressure	Pa	30 / 60 / 80						
Number of fans	-	6		8				
Sound power Cooling/Heating	dB(A)	88/89			89/90			
Sound pressure level in Cooling (night) ⁽²⁾	dB(A)	68 (65)		68 (64)	68 (63)		69 (65)	69 (64)
Dimensions (H x W x D)	mm	1793 x 4834 x 770		1793 x 5282 x 770			1793 x 5672 x 770	
Net weight	kg	375 + 375 + 350	375 + 375 + 375	350 + 272 + 272 + 272		375 + 272 + 272 + 272	350 + 350 + 272 + 272	375 + 350 + 272 + 272
Compressor type	-	DC Inverter Scroll compressor with hot gas injection						
Number of Compressors	-	6		5			6	
Maximum number of connectable indoor units	-	64						
Connection rate (min-max) ⁽³⁾	%	50 - 150% (200% according to application)						

Refrigeration features

Refrigerant	-	R410A						
Initial refrigerant charge	kg	34,2	34,5	41,1	41,8	42,1	42,8	43,1
Size of refrigerant connections	Liquid	inch 7/8						
	Low-pressure gas	inch 1-3/4			inch 2			
	High/low pressure gas	inch 1-1/2			inch 1-3/4			

Electrical data GE

Power supply	-	3N ~ 400V 50Hz + N + T						
Maximum current	A	148,70	159,00	154,80	161,80	172,10	164,80	175,10
Indoor/outdoor connection (shielded) ⁽⁴⁾	mm ²	2 x 0,75						

⁽¹⁾ For an ambient temperature of 20°C and a Connection rate of 100%.

⁽²⁾ Readings taken in an anechoic chamber at 1.5 m in front of the device.

⁽³⁾ Above 130%, please refer to technical documentation for application conditions.

⁽⁴⁾ Weight to be regenerated every 300 m.

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	Unit	RAS-84FSXNS2E	RAS-86FSXNS2E	RAS-88FSXNS2E	RAS-90FSXNS2E	RAS-92FSXNS2E	RAS-94FSXNS2E	RAS-96FSXNS2E
Description Unit 1		RAS-24FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E
Description Unit 2		RAS-24FSXNS2E	RAS-22FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E
Description Unit 3		RAS-18FSXNS2E	RAS-22FSXNS2E	RAS-22FSXNS2E	RAS-24FSXNS2E	RAS-22FSXNS2E	RAS-24FSXNS2E	RAS-24FSXNS2E
Description Unit 4		RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-18FSXNS2E	RAS-22FSXNS2E	RAS-22FSXNS2E	RAS-24FSXNS2E
Twin group connection kit		MC-NP40SA	MC-NP40SA	MC-NP40SA	MC-NP40SA	MC-NP40SA	MC-NP40SA	MC-NP40SA
Cooling performance								
Nominal cooling capacity	kW	234,00	240,00	245,50	251,00	257,00	262,50	268,00
Nominal power input Cooling	kW	84,55	87,33	89,44	91,55	94,33	96,44	98,55
EER	-	2,77	2,75	2,74	2,74	2,72	2,72	2,72
SEER (Medium climate)	-	6,40	6,28	6,28	6,29	6,18	6,18	6,19
Seasonal cooling energy efficiency η_s, c	%	253,0	248,2	248,2	248,6	244,2	244,2	244,6
Operating range	°C	-10°C / 52°C DB						
Heating performance								
Maximum heating capacity	kW	268,26	278,81	283,84	289,86	294,38	302,93	311,47
Nominal heating capacity	kW	234,00	240,00	245,50	251,00	257,00	262,50	268,00
Nominal power input Heating	kW	72,00	72,50	73,72	74,70	75,36	76,30	77,23
Heating capacity at -7°C ⁽¹⁾	kW	185,09	192,37	195,84	200,00	203,12	209,01	214,90
Heating capacity at -15°C ⁽¹⁾	kW	141,08	146,63	149,27	152,44	154,82	159,31	163,80
COP	-	3,25	3,31	3,33	3,36	3,41	3,44	3,47
SCOP (Medium climate)	-	4,24	4,26	4,25	4,23	4,26	4,25	4,24
Seasonal heating energy efficiency η_s, h	%	166,6	167,4	167,0	166,2	167,4	167,0	166,6
Operating range	°C	-25°C WB / 15°C DB						
Technical data								
Air flow (Cooling)	m ³ /h	20880+20880 +15780+15780	20880+19740 +19740+15780	20880+20880 +19740+15780	20880+20880 +20880+15780	20880+20880 +19740+19740	20880+20880 +20880+19740	20880+20880 +20880+20880
Fan with adjustable static pressure	Pa	30 / 60 / 80						
Number of fans	-	8						
Sound power Cooling/Heating	dB(A)	89/90						
Sound pressure level in Cooling (night) ⁽²⁾	dB(A)	69 (64)	69 (66)	69 (65)		69 (67)	69 (66)	
Dimensions (H x W x D)	mm	1793 x 5672 x 770		1793 x 6062 x 770			1793 x 6452 x 770	
Net weight	kg	375 + 375 + 272 + 272	375 + 350 + 350 + 272	375 + 375 + 350 + 272	375 + 375 + 375 + 272	375 + 375 + 350 + 350	375 + 375 + 375 + 350	375 + 375 + 375 + 375
Compressor type	-	DC Inverter Scroll compressor with hot gas injection						
Number of Compressors	-	6		7		8		
Maximum number of connectable indoor units	-	64						
Connection rate (min-max) ⁽³⁾	%	50 - 150% (200% according to application)						
Refrigeration features								
Refrigerant	-	R410A						
Initial refrigerant charge	kg	43,4	44,1	44,4	44,7	45,4	45,7	46,0
Size of refrigerant connections	Liquid	inch 7/8			1			
	Low-pressure gas	inch 2						
	High/low pressure gas	inch 1-3/4						
Electrical data UE								
Power supply	-	3N ~ 400V 50Hz + N + T						
Maximum current	A	185,40	178,10	188,40	198,70	191,40	201,70	212
Indoor/outdoor connection (shielded) ⁽⁴⁾	mm ²	2 x 0,75						

⁽¹⁾ For an ambient temperature of 20°C and a Connection rate of 100%.⁽²⁾ Readings taken in an anechoic chamber at 1.5 m in front of the device.⁽³⁾ Above 130%, please refer to technical documentation for application conditions.⁽⁴⁾ Weight to be regenerated every 300 m.