



VRF Air-to-Air Heat Exchangers + DX Coil + Humidifier

CODE		41	65	82	
Air-to-Air Heat Exchanger		MMD-	VNK502HEX1E	VNK802HEX1E	VNK1002HEX1E
Combinations			SMMSe - SHRMe - MiNi SMMSe		
Nominal	Cooling Capacity	kW	4.10 (1.30)	6.56 (2.06)	8.25 (2.32)
	Heating Capacity	kW	5.53 (2.33)	8.61 (3.61)	10.92 (4.32)
Operating Range	Around Unit	°C - %RH	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80	-10 to 40 - ≤ 80
	Outdoor Air	°C - %RH	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80	-15 to 43 - ≤ 80
	Return Air	°C - %RH	5 to 40 - ≤ 80	5 to 40 - ≤ 80	5 to 40 - ≤ 80
Air Flow	Standard Extra High - High - Low	l/s	139 - 139 - 122	222 - 222 - 178	264 - 264 - 228
	Standard Extra High - High - Low	m³/h	500 - 500 - 440	800 - 800 - 640	950 - 950 - 820
Fan	Limit Upper - Lower	l/s	167 - 92	267 - 133	317 - 178
	Limit Upper - Lower	m³/h	600 - 330	960 - 480	1140 - 640
	External Static Pressure Extra High - High - Low	Pa	95 - 85 - 95	105 - 85 - 90	110 - 90 - 115
Efficiency	Specific Power Extra High - High - Low	W/l/s	1.10 - 1.03 - 0.98	1.19 - 1.09 - 0.98	1.09 - 1.07 - 1.14
	Temperature Exchange Extra High - High - Low	%	70.5 - 70.5 - 71.5	70.0 - 70.0 - 72.5	65.5 - 65.5 - 67.5
	Enthalpy Exchange Efficiency Cooling Extra High - High - Low	%	56.5 - 56.5 - 57.5	56.0 - 56.0 - 59.0	52.0 - 52.0 - 54.5
Sound	Enthalpy Exchange Efficiency Heating Extra High - High - Low	%	68.5 - 68.5 - 69.0	70.0 - 70.0 - 73.0	66.0 - 66.0 - 68.5
	Pressure Extra High - High - Low	dB(A)	36.5 - 35.5 - 33.5	40.0 - 39.0 - 38.0	42.0 - 41.0 - 39.0
	Power Level Extra High - High - Low	dB(A)	51.5 - 50.5 - 48.5	55.0 - 54.0 - 53.0	57.0 - 56.0 - 54.0
Unit	Heat Exchanger		Special paper + Resin	Special paper + Resin	Special paper + Resin
	Filter Type		Nonwoven fabric	Nonwoven fabric	Nonwoven fabric
	Standard Air Filter		Gravitational method	Gravitational method	Gravitational method
	High Efficiency Air Filter		Colorimetric method	Colorimetric method	Colorimetric method
	Filtration Efficiency Grade (Collection Effect Weighing Method)	%	82	82	82
	Height x Width x Depth	mm	430 x 1140 x 1690	430 x 1189 x 1739	430 x 1189 x 1739
	Weight	kg	91	111	112
	Humidifier		Permeable film humidifier	Permeable film humidifier	Permeable film humidifier
	Humidifier Capacity	kg/h	3.0	5.0	6.0
	Humidifier Feed Water Pressure	mPa	0.02 - 0.49	0.02 - 0.49	0.02 - 0.49
Pipe Connection	Duct Nominal Diameter Supply/Return	mm	200 x 2/200 x 2	250 x 2/250 x 2	250 x 2/250 x 2
	Flare Connection (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Water Supply Connection External Threaded		R1/2	R1/2	R1/2
Electrical	Drain Pipe Connection OD/ID	mm	VP30/25	VP30/25	VP30/25
	Power Input (Heat Exchange Mode) Extra High - High - Low	W	305 - 285 - 240	530 - 485 - 350	575 - 565 - 520
	Run Current Extra High - High - Low	A	1.33 - 1.24 - 1.03	2.37 - 2.14 - 1.54	2.56 - 2.51 - 2.31
	Maximum Run Current	A	1.33	2.37	2.56
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply (with Heater Kit)	A	6 (10)	6 (10)	6 (10)
Remote Controller Option		Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity	

Accessories

RRC-01HE	Remote Controller	VN-M150-2000HE
RBC-AMT32E	Remote Controller Built-In Timer	Full control including service functions
RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer
RBC-AMS55E-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual
RBC-VNL1	CN705 Unit Interface Lead 1.5 m	VN-M150-2000HE external 0 V contact closure for ON/OFF, local controller lock, increase fan speed and damper position
RBC-VNMC-PE	Heater Kit Controller	Control of the VN-M Heater Kits
RBC-VNMH1-PE	100 mm Heater Kit 1 kW	VN-M150HE Heat Exchanger
RBC-VNMH2-PE	150 mm Heater Kit 1 kW	VN-M250/350HE Heat Exchanger
RBC-VNMH3-PE	200 mm Heater Kit 2 x 1 kW	VN-M500/650HE Heat Exchanger
RBC-VNMH4-PE	250 mm Heater Kit 2 x 1 kW	VN-M800/1000HE Heat Exchanger