



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

CODE		41	65	82	
<b>Air-to-Air Heat Exchanger</b>		<b>MMD-</b>	<b>VN502HEX1E</b>	<b>VN802HEX1E</b>	<b>VN1002HEX1E</b>
<b>Combinations</b>			<b>SMMSe - SHRMe - MiNi SMMSe</b>		
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	External Static Pressure Extra High - High - Low	l/s	167 - 92	267 - 133	317 - 178
	Specific Power Extra High - High - Low	m³/h	600 - 330	960 - 480	1140 - 640
	Temperature Exchange Extra High - High - Low	Pa	120 - 105 - 115	120 - 100 - 100	135 - 120 - 105
	Enthalpy Exchange Efficiency Cooling Extra High - High - Low	W/l/s	1.08 - 1.01 - 0.96	1.14 - 1.05 - 0.94	1.04 - 1.03 - 1.06
Efficiency	Enthalpy Exchange Efficiency Heating Extra High - High - Low	%	70.5 - 70.5 - 71.5	70.0 - 70.0 - 72.5	65.5 - 65.5 - 67.5
	Pressure Extra High - High - Low	%	56.5 - 56.5 - 57.5	56.0 - 56.0 - 59.0	52.0 - 52.0 - 54.0
	Power Level Extra High - High - Low	%	68.5 - 68.5 - 69.0	70.0 - 70.0 - 73.0	66.0 - 66.0 - 68.5
Sound	Pressure Extra High/High/Low	dB(A)	37.5 - 36.5 - 34.5	41.0 - 40.0 - 38.0	43.0 - 42.0 - 40.0
	Power Level Extra High/High/Low	dB(A)	52.5 - 51.5 - 49.5	56.0 - 55.0 - 53.0	58.0 - 57.0 - 55.0
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	84	100	101
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
	Drain Pipe Connection OD/ID	mm	VP30/25	VP30/25	VP30/25
Electrical	Power Input (Heat exchange mode) Extra High - High - Low	W	300 - 280 - 235	505 - 465 - 335	550 - 545 - 485
	Run Current Extra High - High - Low	A	1.30 - 1.21 - 1.01	2.25 - 2.07 - 1.46	2.46 - 2.43 - 2.16
	Maximum Run Current	A	1.3	2.25	2.46
	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Suggested Fused Supply (with Heater Kit)	A	3 (10)	3 (10)	6 (10)
	Remote Controller Option		Wired 2-core non-polarity	Wired 2-core non-polarity	Wired 2-core non-polarity

### Accessories

NRC-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-VNMMH1-PE	100 mm Heater Kit 1 kW	VN-M150HE Heat Exchanger	
RBC-VNMMH2-PE	150 mm Heater Kit 1 kW	VN-M250/350HE Heat Exchanger	
RBC-VNMMH3-PE	200 mm Heater Kit 2 x 1 kW	VN-M500/650HE Heat Exchanger	
RBC-VNMMH4-PE	250 mm Heater Kit 2 x 1 kW	VN-M800/1000HE Heat Exchanger	