

Air-to-Air Heat Exchangers

The heat exchanger operating principle is to use heat recovered from exhaust air to temper (pre-warm) the fresh air coming into the building, which helps to reduce the overall load and potentially the size of the air conditioning equipment required to maintain set point within the building. The air-to-air heat exchanger offers a highly-efficient way of providing fresh air to and extract air from a building and can help comply with building regulations.

A constant flow of fresh air is mandatory in an indoor environment where a large number of people are present in the same rooms for extended periods of times. Utilising an air-to-air heat exchanger can also reduce the load within a building, reducing overall power consumption.

The ventilation in air-tight insulated buildings may cause the unwanted loss of heat whenever the exhaust air is rejected outdoors. In these conditions, the stale air should be exhausted and effectively replaced by new fresh air to maintain the correct oxygen levels and remove most pollutants.

In buildings where different premises have different ventilation needs (kitchens, hospitals, laboratories, etc.) it is important to create the right balance of air flow in order to prevent diffusion of unwanted odours and humidity.

The use of an air-to-air heat exchanger, to complete both functions of stale air exhaust and fresh air intake, limits this heat dispersion and consequently reduces the load on the air conditioning equipment.

Fresh Air Process Patterns

Heating mode

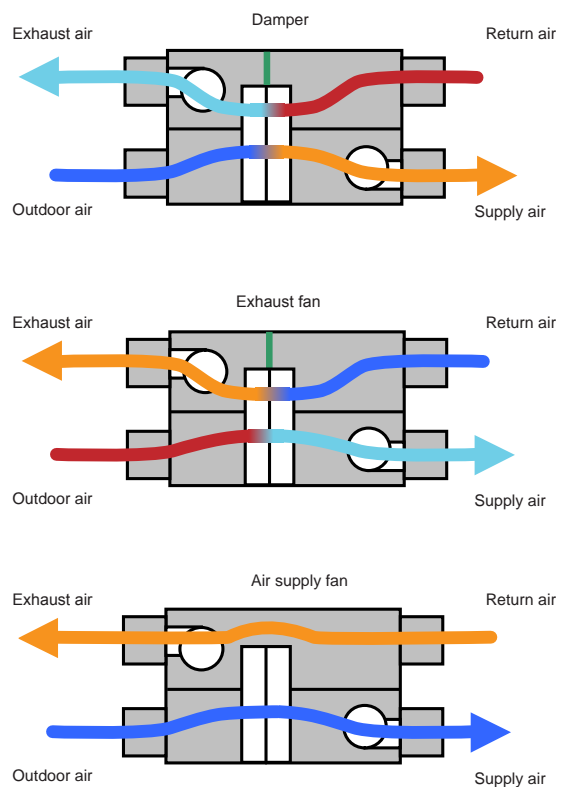
Outdoor cold air and saturated hot air pass through the exchanger element. The unit blows fresh clean air inside the ducts.

Cooling mode

Outdoor hot air and saturated cold air pass through the exchanger element. The unit blows warm clean air inside the ducts.

Free cooling mode

Outdoor fresh air passes through the filter element and enters without treatment.





Air-to-Air Heat Exchangers Standard Version

| Air-to-Air Heat Exchanger | | VN- | M150HE | M250HE | M350HE | M500HE | |
|--|---|--|---------------------------|---------------------------|---------------------------|-----------------------|--------------------|
| Operating Range | Around Unit | °C - %RH | -10 to 40 - ≤ 80 | -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 | -15 to 43 - ≤ 80 | |
| | Return Air | °C - %RH | 5 to 40 - ≤ 80 | 5 to 40 - ≤ 80 | 5 to 40 - ≤ 80 | 5 to 40 - ≤ 80 | |
| Air Flow | Standard Extra High - High - Low | l/s | 42 - 42 - 30 | 70 - 70 - 43 | 97 - 97 - 58 | 138 - 138 - 108 | |
| | Standard Extra High - High - Low | m³/h | 150 - 150 - 110 | 250 - 250 - 155 | 350 - 350 - 210 | 500 - 500 - 390 | |
| Fan | External Static Pressure Extra High - High - Low | Pa | 102 - 78 - 64 | 98 - 65 - 40 | 125 - 83 - 94 | 150 - 99 - 92 | |
| | Specific Power Extra High - High - Low | W/l/s | 0.93 - 0.8 - 0.78 | 0.99 - 0.79 - 0.69 | 0.94 - 0.75 - 0.76 | 0.86 - 0.7 - 0.66 | |
| Efficiency | Temperature Exchange Extra High - High - Low | % | 81.5 - 81.5 - 83.0 | 78.0 - 78.0 - 81.5 | 74.5 - 74.5 - 79.5 | 76.5 - 76.5 - 78.0 | |
| | Enthalpy Exchange Efficiency Cooling Extra High - High - Low | % | 69.5 - 69.5 - 71.0 | 65.0 - 65.0 - 69.0 | 60.5 - 60.5 - 67.0 | 64.5 - 64.5 - 66.5 | |
| | Enthalpy Exchange Efficiency Heating Extra High - High - Low | % | 74.5 - 74.5 - 76.0 | 70.0 - 70.0 - 74.0 | 65.0 - 65.0 - 71.5 | 72.0 - 72.0 - 73.5 | |
| Sound | Pressure Extra High - High - Low | dB(A) | 28.0 - 25.5 - 20.0 | 30.0 - 27.0 - 21.0 | 35.0 - 32.0 - 27.0 | 34.0 - 31.0 - 26.0 | |
| | Power Level Extra High - High - Low | dB(A) | 43.0 - 40.5 - 35.0 | 45.0 - 42.0 - 36.0 | 50.0 - 47.0 - 42.0 | 49.0 - 46.0 - 41.0 | |
| Unit | Heat Exchanger | | Special paper + Resin | Special paper + Resin | Special paper + Resin | Special paper + Resin | |
| | Filter Type | | Nonwoven fabric | Nonwoven fabric | Nonwoven fabric | Nonwoven fabric | |
| | Standard Air Filter | | Gravitational method | Gravitational method | Gravitational method | Gravitational method | |
| | High Efficiency Air Filter | | Colorimetric method | Colorimetric method | Colorimetric method | Colorimetric method | |
| | Filtration Efficiency Grade (Collection Effect Weighing Method) | % | 82 | 82 | 82 | 82 | |
| | Height x Width x Depth | mm | 900 x 900 x 290 | 900 x 900 x 290 | 900 x 900 x 290 | 1140 x 1140 x 350 | |
| | Weight | kg | 36 | 36 | 38 | 53 | |
| | Duct Nominal Diameter Supply/Return | mm | 100 x 2/100 x 2 | 150 x 2/150 x 2 | 150 x 2/150 x 2 | 200 x 2/200 x 2 | |
| | Electrical | Power Input (Heat exchange mode) Extra High - High - Low | W | 78 - 67 - 47 | 138 - 111 - 59 | 182 - 145 - 88 | 238 - 192 - 142 |
| | | Run Current Extra High - High - Low | A | 0.33 - 0.28 - 0.20 | 0.61 - 0.49 - 0.26 | 0.76 - 0.62 - 0.38 | 1.00 - 0.81 - 0.60 |
| Maximum Run Current | | A | 0.33 | 0.61 | 0.76 | 1.00 | |
| Power Supply | | V/ph/Hz | 220-240/1/50 | 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) | 6 (16) | |
| Remote Controller Option | | Wired 2-core non-polarity | Wired 2-core non-polarity | Wired 2-core non-polarity | Wired 2-core non-polarity | | |

| Air-To-Air Heat Exchanger | | VN- | M650HE | M800HE | M1000HE1 | M1500HE1 | M2000HE1 | |
|--|---|--|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------|-----------------|
| Operating Range | Around Unit | °C - %RH | -10 to 40 - ≤ 80 | -10 to 40 - ≤ 80 | -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 | -15 to 43 - ≤ 80 | -15 to 43 - ≤ 80 | |
| | Return Air | °C - %RH | 5 to 40 - ≤ 80 | 5 to 40 - ≤ 80 | 5 to 40 - ≤ 80 | 5 to 40 - ≤ 80 | 5 to 40 - ≤ 80 | |
| Air Flow | Standard Extra High - High - Low | l/s | 180 - 180 - 145 | 222 - 222 - 195 | 278 - 278 - 194 | 417 - 417 - 333 | 555 - 555 - 388 | |
| | Standard Extra High - High - Low | m³/h | 650 - 650 - 520 | 800 - 800 - 700 | 1000 - 1000 - 700 | 1500 - 1500 - 1200 | 2000 - 2000 - 1400 | |
| Fan | External Static Pressure Extra High - High - Low | Pa | 107 - 82 - 96 | 158 - 132 - 112 | 105 - 80 - 70 | 140 - 110 - 80 | 105 - 80 - 70 | |
| | Specific Power Extra High - High - Low | W/l/s | 0.81 - 0.72 - 0.66 | 0.86 - 0.8 - 0.77 | 1.4 - 1.2 - 1.0 | 1.5 - 1.4 - 1.0 | 1.4 - 1.2 - 1.0 | |
| Efficiency | Temperature Exchange Extra High - High - Low | % | 75.0 - 75.0 - 76.5 | 76.5 - 76.5 - 77.5 | 73.5 - 73.5 - 77.0 | 76.5 - 76.5 - 79.0 | 73.5 - 73.5 - 77.5 | |
| | Enthalpy Exchange Efficiency Cooling Extra High - High - Low | % | 61.5 - 61.5 - 64.0 | 64.0 - 64.0 - 65.5 | 60.5 - 60.5 - 64.5 | 64.0 - 64.0 - 67.0 | 60.5 - 60.5 - 65.5 | |
| | Enthalpy Exchange Efficiency Heating Extra High - High - Low | % | 69.5 - 69.5 - 71.5 | 71.0 - 71.0 - 71.5 | 68.5 - 68.5 - 71.5 | 71.0 - 71.0 - 73.5 | 68.5 - 68.5 - 72.0 | |
| Sound | Pressure Extra High - High - Low | dB(A) | 36.0 - 34.0 - 31.0 | 38.5 - 37.0 - 33.5 | 38.0 - 37.0 - 33.0 | 41.0 - 40.0 - 36.0 | 41.5 - 40.5 - 36.5 | |
| | Power Level Extra High - High - Low | dB(A) | 51.0 - 49.0 - 46.0 | 53.5 - 52.0 - 48.5 | 53.0 - 52.0 - 48.0 | 56.0 - 55.0 - 51.0 | 56.5 - 55.5 - 51.5 | |
| Unit | Heat Exchanger | | Special paper + Resin | Special paper + Resin | Special paper + Resin | Special paper + Resin | Special paper + Resin | |
| | Filter Type | | Nonwoven fabric | Nonwoven fabric | Nonwoven fabric | Nonwoven fabric | Nonwoven fabric | |
| | Standard Air Filter | | Gravitational method | Gravitational method | Gravitational method | Gravitational method | Gravitational method | |
| | High Efficiency Air Filter | | Colorimetric method | Colorimetric method | Colorimetric method | Colorimetric method | Colorimetric method | |
| | Filtration Efficiency Grade (Collection Effect Weighing Method) | % | 82 | 82 | 82 | 82 | 82 | |
| | Height x Width x Depth | mm | 1140 x 1140 x 350 | 1189 x 1189 x 400 | 1189 x 1189 x 400 | 1189 x 1189 x 810 | 1189 x 1189 x 810 | |
| | Weight | kg | 53 | 70 | 62 | 126 | 126 | |
| | Duct Nominal Diameter Supply/Return | mm | 200 x 2/200 x 2 | 250 x 2/250 x 2 | 250 x 2/250 x 2 | 250 x 4/283 x 730 x 2 | 250 x 4/283 x 730 x 2 | |
| | Electrical | Power Input (Heat exchange mode) Extra High - High - Low | W | 290 - 258 - 191 | 383 - 353 - 300 | 390 - 340 - 190 | 640 - 570 - 320 | 780 - 680 - 380 |
| | | Run Current Extra High - High - Low | A | 1.30 - 1.14 - 1.30 | 1.67 - 1.57 - 1.31 | 2.56 | 4.32 | 4.8 |
| Maximum Run Current | | A | 1.30 | 1.67 | 2.70 | 5.08 | 5.08 | |
| Power Supply | | V/ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | |
| Suggested Fused Supply (with Heater Kit) | | A | 6 (16) | 6 (16) | 10 (16) | 10 (16) | 10 (20) | |
| Remote Controller Option | | Wired 2-core non-polarity | Wired 2-core non-polarity | 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-VNMF1-PE | 100 mm Heater Kit 1 kW | VN-M150HE Heat Exchanger |
| RBC-VNMF2-PE | 150 mm Heater Kit 1 kW | VN-M250/350HE Heat Exchanger |
| RBC-VNMF3-PE | 200 mm Heater Kit 2 x 1 kW | VN-M500/650HE Heat Exchanger |
| RBC-VNMF4-PE | 250 mm Heater Kit 2 x 1 kW | VN-M800/1000HE Heat Exchanger |
| TCB-PCUC2E | Indoor Control Interface | Application Control Kit |

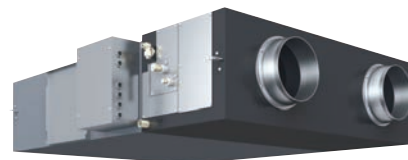


VRF Air-to-Air Heat Exchangers + DX Coil

| CODE | | 41 | 65 | 82 | |
|----------------------------------|---|-------------|-----------------------------------|---------------------------|---------------------------|
| Air-to-Air Heat Exchanger | | MMD- | VN502HEX1E | VN802HEX1E | VN1002HEX1E |
| 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 | 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-VNMF1-PE | 100 mm Heater Kit 1 kW | VN-M150HE Heat Exchanger |
| RBC-VNMF2-PE | 150 mm Heater Kit 1 kW | VN-M250/350HE Heat Exchanger |
| RBC-VNMF3-PE | 200 mm Heater Kit 2 x 1 kW | VN-M500/650HE Heat Exchanger |
| RBC-VNMF4-PE | 250 mm Heater Kit 2 x 1 kW | VN-M800/1000HE Heat Exchanger |



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

| | | |
|---------------|----------------------------------|---|
| RBC-01HE | Remote Controller | VN-M150-2000HE |
| RBC-AMT32E | Remote Controller Built-In Timer | Full control including service functions |
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| 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 |