

AIR-TO-WATER HEAT PUMP SPECIFICATIONS

Vented Brazed Plate Heat Exchanger / Rheem IQ Control

95303000

Co-axial Tube-in-Tube Heat Exchanger / Rheem IQ Control

9530300V

ELECTRICAL INPUT

| | |
|---|-----------------------------------|
| Voltage/Phase | 380 - 415 Volts / 3 Phase / 50 Hz |
| Full Load / Locked Rotor (Amps Per Phase) | 23.0 FLA / 74 LRA |
| Min. Circuit Size | 32.0 Amps |
| Refrigerant | R1234yf |
| Nominal Heating Capacity | 29.78 kW |
| Power Input | 6.96 kW |
| COP | 4.28 COP |
| Noise Level | 69 dBa @ 3 m |
| Rated Load Amps @ 8°C SST / 48°C SCT | 17.0 Amps |

TECHNICAL DATA

| | Compressor | Fan |
|----------------------------|---------------|---------------|
| Reference/Size | 20150 | 630mm |
| Type | Scroll | Axial EC |
| Number Per Unit | 2 | 2 |
| FLA (Full Load Amps, each) | 9.68 Amps | 1.8 Amps |
| Voltage / Phase | 380 - 415 / 3 | 220 - 240 / 1 |
| Pole/RPM | 2 / 2900 | EC / 798 |
| Air Flow | N/A | 3333 L/s |

HEAT EXCHANGER (Water Side)

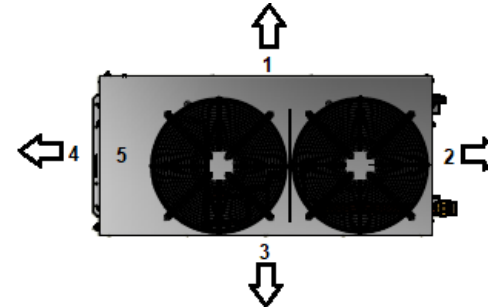
| | | |
|-------------------------|---------------------|-----------------------|
| Type of Water Tube | Double Wall | |
| Design | Vented Brazed Plate | Co-axial Tube-in-Tube |
| Flow Rate Excl. By Pass | 2.20 L/s | |
| Max. Outlet Water Temp | 70°C* | |
| Design Pressure Drop | 50 kPa | |
| Max. Operating Pressure | 1550 +200/-300 kPa | |

GENERAL INFORMATION

| | |
|---------------------------------------|----------------------------|
| Water Connections | Male 2" BSP |
| Drain | 20mm Aluminium |
| Defrost | Reverse Cycle De-ice |
| Cabinet Construction | 1.2mm Stucco Aluminium |
| Approx. shipping weight | 260 kg |
| Size L x W x H | 1850 mm x 810 mm x 1405 mm |
| Min. Ventilation per Inlet and Outlet | 2.64 m ² |

COP TABLE

| Water Out °C | Ambient Temperature °C | | | | | | | | | |
|--------------|------------------------|----------|----------|----------|-----------------|----------|----------|----------|----------|----------|
| | 0 °C | 5 °C | 10 °C | 15 °C | 20 °C | 25 °C | 30 °C | 35 °C | 40 °C | 45 °C |
| 42 °C | 19.82 kW | 22.03 kW | 24.89 kW | 27.40 kW | 29.78 kW | 32.09 kW | 33.11 kW | 34.15 kW | 36.33 kW | 39.81 kW |
| | 3.23 COP | 3.50 COP | 3.84 COP | 4.14 COP | 4.28 COP | 4.68 COP | 4.80 COP | 4.91 COP | 5.16 COP | 5.54 COP |
| 45 °C | 19.47 kW | 21.62 kW | 24.41 kW | 26.86 kW | 29.49 kW | 31.43 kW | 32.42 kW | 33.44 kW | 35.56 kW | 38.96 kW |
| | 3.03 COP | 3.28 COP | 3.60 COP | 3.87 COP | 4.16 COP | 4.37 COP | 4.47 COP | 4.58 COP | 4.81 COP | 5.16 COP |
| 50 °C | 18.69 kW | 20.70 kW | 23.31 kW | 25.60 kW | 28.08 kW | 29.90 kW | 30.83 kW | 31.79 kW | 33.79 kW | 37.00 kW |
| | 2.63 COP | 2.83 COP | 3.09 COP | 3.31 COP | 3.54 COP | 3.71 COP | 3.79 COP | 3.88 COP | 4.06 COP | 4.35 COP |
| 55 °C | 18.47 kW | 20.44 kW | 23.00 kW | 25.25 kW | 27.68 kW | 29.47 kW | 30.38 kW | 31.33 kW | 33.29 kW | 36.44 kW |
| | 2.52 COP | 2.71 COP | 2.95 COP | 3.16 COP | 3.38 COP | 3.54 COP | 3.62 COP | 3.70 COP | 3.87 COP | 4.13 COP |
| 60 °C | 18.79 kW | 19.81 kW | 22.24 kW | 24.38 kW | 26.70 kW | 28.40 kW | 29.27 kW | 30.17 kW | 32.04 kW | 35.05 kW |
| | 2.34 COP | 2.43 COP | 2.64 COP | 2.81 COP | 3.00 COP | 3.14 COP | 3.20 COP | 3.27 COP | 3.42 COP | 3.65 COP |
| 65 °C | N/A | 18.86 kW | 21.08 kW | 23.04 kW | 25.16 kW | 26.72 kW | 27.53 kW | 28.36 kW | 30.09 kW | 32.87 kW |
| | | 2.05 COP | 2.21 COP | 2.34 COP | 2.48 COP | 2.59 COP | 2.64 COP | 2.69 COP | 2.80 COP | 2.98 COP |
| 70 °C | N/A | N/A | 20.52 kW | 22.39 kW | 24.41 kW | 25.91 kW | 26.68 kW | 27.47 kW | 29.13 kW | 31.79 kW |
| | | | 2.02 COP | 2.13 COP | 2.26 COP | 2.35 COP | 2.39 COP | 2.44 COP | 2.54 COP | 2.69 COP |



UNIT CLEARANCES

| Direction | Description | Minimum Clearance Required |
|-----------|-----------------------------------|----------------------------|
| 1 | Evaporator Coil | 500mm |
| 2 | Water Connections | 500mm |
| 3 | Plain Back | Nil |
| 4 | Compressor Access | 850mm |
| 5 | Top - Height Clearance / Stacking | 3500mm |

When units are placed side by side, allow at least 1000mm distance between evaporator coils.

Rating Conditions: 20°C ambient, 60% RH, 39°C Water in, 42°C Water out

* Max outlet temperature when ambient is above 10°C