

## AIR-TO-WATER HEAT PUMP SPECIFICATIONS

Vented Brazed Plate Heat Exchanger / Hi-Static Fan / Rheem IQ Control	<b>95201500</b>
Co-axial Tube-in-Tube Heat Exchanger / Hi-Static Fan / Rheem IQ Control	<b>9520150V</b>

ELECTRICAL INPUT	
Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	14.4 FLA / 74 LRA
Min. Circuit Size	20.0 Amps
Refrigerant	R1234yf
Nominal Heating Capacity	15.16 kW
Power Input	3.89 kW
COP	3.90 COP
Noise Level	63 dBA @ 3 m
Rated Load Amps @ 8°C SST / 49°C SCT	11.6 Amps

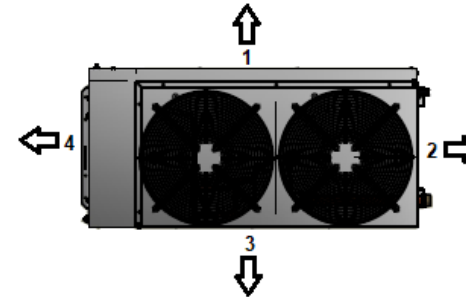
TECHNICAL DATA		
	Compressor	Fan
Reference/Size	20150	450mm
Type	Scroll	Axial EC
Number Per Unit	1	2
FLA (Full Load Amps, each)	9.68 Amps	2.35 Amps
Voltage / Phase	380 - 415 / 3	220 - 240 / 1
Pole/RPM	2 / 2900	EC / 1310
Air Flow	N/A	1972 L/s

HEAT EXCHANGER (Water Side)	
Type of Water Tube	Double Wall
Design	Vented Brazed Plate      Co-axial Tube-in-Tube
Flow Rate Excl. By Pass	1.10 L/s
Max. Outlet Water Temp	70°C*
Design Pressure Drop	40 kPa
Max. Operating Pressure	1550 +200/-300 kPa

GENERAL INFORMATION	
Water Connections	Male 1 1/4" BSP
Drain	20mm PVC
Defrost	Reverse Cycle De-ice
Cabinet Construction	1.2mm Stucco Aluminium
Approx. shipping weight	130 kg
Size L x W x H	1200 mm x 565 mm x 1050 mm
Min. Ventilation per Inlet and Outlet	1.2 m <sup>2</sup>

### 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	9.54 kW 2.69 COP	10.68 kW 2.94 COP	12.38 kW 3.31 COP	13.62 kW 3.58 COP	15.16 kW 3.90 COP	15.95 kW 4.06 COP	16.46 kW 4.16 COP	16.98 kW 4.26 COP	19.10 kW 4.69 COP	19.78 kW 4.82 COP
45 °C	9.42 kW 2.59 COP	10.54 kW 2.83 COP	12.20 kW 3.17 COP	13.43 kW 3.42 COP	14.89 kW 3.71 COP	15.71 kW 3.88 COP	16.21 kW 3.97 COP	16.72 kW 4.07 COP	18.81 kW 4.47 COP	19.48 kW 4.60 COP
50 °C	9.16 kW 2.36 COP	10.22 kW 2.57 COP	11.81 kW 2.87 COP	12.98 kW 3.08 COP	14.37 kW 3.34 COP	15.17 kW 3.48 COP	15.64 kW 3.56 COP	16.13 kW 3.65 COP	18.13 kW 4.00 COP	18.78 kW 4.11 COP
55 °C	8.90 kW 2.15 COP	9.91 kW 2.33 COP	11.42 kW 2.59 COP	12.54 kW 2.77 COP	13.87 kW 2.99 COP	14.63 kW 3.12 COP	15.08 kW 3.19 COP	15.55 kW 3.26 COP	17.46 kW 3.56 COP	18.08 kW 3.66 COP
60 °C	8.66 kW 2.01 COP	9.62 kW 2.17 COP	11.05 kW 2.40 COP	12.11 kW 2.57 COP	13.38 kW 2.77 COP	14.10 kW 2.88 COP	14.53 kW 2.94 COP	14.98 kW 3.01 COP	16.13 kW 3.15 COP	17.40 kW 3.36 COP
65 °C	N/A	9.49 kW 1.92 COP	10.62 kW 2.06 COP	11.62 kW 2.20 COP	12.81 kW 2.35 COP	13.49 kW 2.44 COP	13.89 kW 2.49 COP	14.31 kW 2.55 COP	16.04 kW 2.76 COP	16.60 kW 2.83 COP
70 °C	N/A	N/A	10.47 kW 1.97 COP	11.44 kW 2.10 COP	12.60 kW 2.24 COP	13.26 kW 2.32 COP	13.66 kW 2.37 COP	14.07 kW 2.42 COP	15.75 kW 2.62 COP	16.30 kW 2.69 COP



UNIT CLEARANCES		
Direction	Description	Minimum Clearance Required
1	Evaporator Coil	350mm
2	Water Connections	500mm
3	Plain Back	Nil
4	Compressor Access	850mm
5	Top - Fan Discharge	2500mm

When units are placed side by side, allow at least 700mm 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