

## WATER-TO-WATER HEAT PUMP SPECIFICATIONS

Vented Brazed Plate Heat Exchanger / Rheem IQ Control	<b>95503200</b>
Co-axial Tube-in-Tube Heat Exchanger / Rheem IQ Control	<b>9550320V</b>

### ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz	
Full Load / Locked Rotor (Amps Per Phase)	19.3 FLA / 74 LRA	
Min. Circuit Size	25.0 Amps	
Refrigerant	R1234yf	
Refrigeration Effect	Heating	Cooling
Nominal Capacity	32.09 kW	25.94 kW
Power Input	6.15 kW	
COP	5.22 COP	4.22 COP
Noise Level	62 dBa @ 3 m	
Rated Load Amps @ 10°C SST / 48°C SCT	13.5 Amps	

### TECHNICAL DATA

Compressor	
Make	Copeland
Type	Scroll 20150
Number Per Unit	2
FLA (Full Load Amps, each)	9.63 Amps
Voltage / Phase	380 - 415 / 3
Pole/RPM	2/2900
Air Flow	N/A

### HEAT EXCHANGER (Water Side)

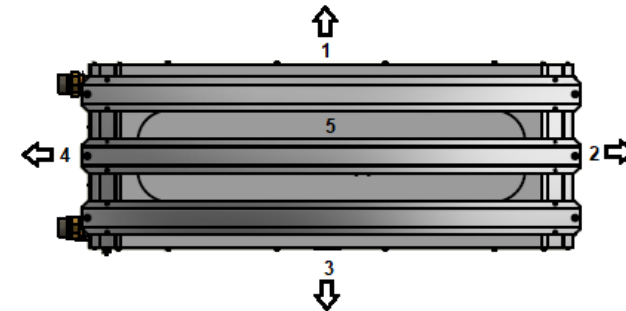
	Hot Side (Condenser)	Cold Side (Evaporator)
Type of Water Tube	Double Wall	Single Wall
Design	Vented Brazed Plate / Co-axial	Shell & Tube
Flow Rate Excl. By Pass	2.39 L/s	2.82 L/s
Max. Outlet Water Temp	70°C*	
Design Pressure Drop	50 kPa	
Max. Operating Pressure	1550 +200/-300 kPa	

### GENERAL INFORMATION

Water Connections	Male 2" BSP
Drain	20mm PVC
Cabinet Construction	1.2mm Stucco Aluminium
Approx. shipping weight	240 kg
Size L x W x H	1600mm x 605 mm x 975 mm

### COP TABLE

Water Out °C	Cold Water In °C							
	12 °C	14 °C	16 °C	18 °C	20 °C	25 °C	30 °C	35 °C
42 °C	24.89 kW 4.31 COP	26.54 kW 4.52 COP	28.28 kW 4.74 COP	30.13 kW 4.98 COP	32.09 kW 5.22 COP	37.45 kW 5.87 COP	43.56 kW 6.59 COP	46.22 kW 6.90 COP
45 °C	24.41 kW 4.02 COP	26.02 kW 4.22 COP	27.72 kW 4.42 COP	29.52 kW 4.63 COP	31.43 kW 4.86 COP	36.66 kW 5.45 COP	42.63 kW 6.11 COP	45.23 kW 6.39 COP
50 °C	23.62 kW 3.58 COP	25.16 kW 3.75 COP	26.79 kW 3.92 COP	28.51 kW 4.10 COP	30.33 kW 4.29 COP	35.35 kW 4.81 COP	41.08 kW 5.37 COP	43.58 kW 5.61 COP
55 °C	23.00 kW 3.26 COP	24.48 kW 3.41 COP	26.05 kW 3.56 COP	27.71 kW 3.72 COP	29.47 kW 3.89 COP	34.31 kW 4.34 COP	39.85 kW 4.83 COP	42.27 kW 5.04 COP
60 °C	22.24 kW 2.90 COP	23.65 kW 3.02 COP	25.14 kW 3.15 COP	26.72 kW 3.29 COP	28.40 kW 3.43 COP	33.02 kW 3.81 COP	38.31 kW 4.23 COP	40.63 kW 4.41 COP
65 °C	21.65 kW 2.64 COP	23.00 kW 2.60 COP	24.43 kW 2.71 COP	25.95 kW 2.82 COP	27.55 kW 2.94 COP	32.00 kW 3.27 COP	37.10 kW 3.62 COP	39.33 kW 3.78 COP
70 °C	N/A	22.21 kW 2.44 COP	23.56 kW 2.53 COP	24.99 kW 2.63 COP	26.52 kW 2.74 COP	30.74 kW 3.02 COP	35.59 kW 3.33 COP	37.72 kW 3.46 COP



### UNIT CLEARANCES

Direction	Description	Minimum Clearance Required
1	Plain Back	Nil
2	Side Access	Nil
3	Compressor Access	850mm
4	Water Connections	500mm
5	Top - Height Clearance	350mm

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

\* Max outlet temperature when cold water inlet is above 14°C