

WATER-TO-WATER HEAT PUMP SPECIFICATIONS

Double Wall Heat Exchanger Condenser / Rheem IQ Control	955116SDV-DQ-1
Vented Brazed Plate Heat Exchanger Condenser / Rheem IQ Control	955116SDP-DQ-1

ELECTRICAL INPUT		
Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz	
Full Load / Locked Rotor (Amps Per Phase)	61.8 FLA / 225 LRA	
Min. Circuit Breaker Size	80.0 Amps	
Refrigerant	R134a	
Refrigeration Effect	Heating	Cooling
Nominal Capacity	114.52 kW	91.49 kW
Power Input	23.03 kW	
COP	4.97 COP	3.97 COP
Combined COP	8.94 COP	
Noise Level	64 dBA @ 3 m	
Rated Load Amps @ 10°C SST / 51°C SCT	43.3 Amps	

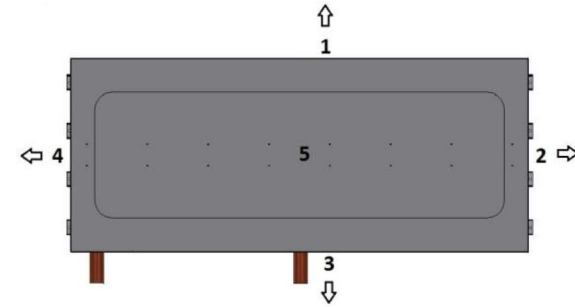
TECHNICAL DATA	
Compressor	
Make / Type	Copeland / Scroll 20092
Number Per Unit	2
FLA (Full Load Amps, each)	30.9 Amps
Voltage / Phase	380 - 415 / 3
Pole/RPM	2/2,900

HEAT EXCHANGER (Water Side)		
	Hot Side (Condenser)	Cold Side (Evaporator)
Type of Water Tube	Double Wall	Single Wall
Design	Vented Brazed Plate / Co-axial Tube-in-tube	Shell & Tube
Flow Rate Excl. By Pass	6.84 L/s	5.46 L/s
Max. Outlet Water Temp	70°C	N/A
Min. Outlet Water Temp	N/A	7 °C
Design Pressure Drop	50 kPa	
Max. Operating Pressure	2,450 kPa	

GENERAL INFORMATION		
Water Connections	80mm Table E Flange	
Drain	20mm Aluminium	
Cabinet Construction	1.2mm Stucco Aluminium	
Approx. Shipping Size	Weight	Dimensions
955116SDV-DQ-1 (L x W x H)	675 kg	2540mm x 1250mm x 1175mm
955116SDP-DQ-1 (L x W x H)	625 kg	2400mm x 1150mm x 1175mm

COP TABLE

Hot Water Out °C	Cold Water In °C							
	12 °C	14 °C	16 °C	18 °C	20 °C	25 °C	30 °C	35 °C
45 °C	92.00 kW 4.05 COP	97.96 kW 4.30 COP	101.08 kW 4.43 COP	107.60 kW 4.69 COP	114.52 kW 4.97 COP	133.69 kW 5.74 COP	155.78 kW 6.60 COP	165.49 kW 6.97 COP
50 °C	90.36 kW 3.59 COP	96.04 kW 3.80 COP	99.00 kW 3.91 COP	105.21 kW 4.14 COP	111.78 kW 4.38 COP	129.99 kW 5.05 COP	150.97 kW 5.81 COP	160.21 kW 6.14 COP
55 °C	89.15 kW 3.27 COP	94.60 kW 3.45 COP	97.44 kW 3.55 COP	103.39 kW 3.75 COP	109.70 kW 3.96 COP	127.14 kW 4.55 COP	147.24 kW 5.23 COP	156.09 kW 5.53 COP
60 °C	88.02 kW 2.97 COP	93.25 kW 3.13 COP	95.97 kW 3.21 COP	101.67 kW 3.39 COP	107.70 kW 3.58 COP	124.39 kW 4.10 COP	143.62 kW 4.70 COP	152.08 kW 4.97 COP
65 °C	86.75 kW 2.64 COP	91.69 kW 2.77 COP	94.27 kW 2.84 COP	99.66 kW 2.99 COP	105.35 kW 3.15 COP	121.10 kW 3.59 COP	139.24 kW 4.11 COP	147.23 kW 4.33 COP
70 °C	85.63 kW 2.34 COP	90.30 kW 2.46 COP	92.73 kW 2.52 COP	97.81 kW 2.64 COP	103.17 kW 2.77 COP	117.98 kW 3.15 COP	135.03 kW 3.58 COP	142.55 kW 3.77 COP



UNIT CLEARANCES		
Direction	Description	Minimum Clearance Required
1	Plain Back	200mm
2	Side Access	200mm
3	Compressor Access / Water	850mm
4	Side Access	200mm
5	Top – Height Clearance	500mm

Rating Conditions: Cooling: 20°C EWT, 15°C LWT, Heating: 41°C EWT, 45°C LWT