

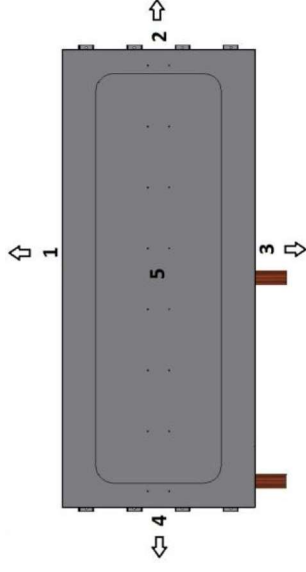
WATER-TO-WATER HEAT PUMP SPECIFICATIONS

Double Wall Heat Exchanger Condenser / Rheem IQ Control 955088SDV-DQ-1
 Vented Brazed Plate Heat Exchanger Condenser / Rheem IQ Control 955088SDP-DQ-1

ELECTRICAL INPUT	
Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	46.1 FLA / 310 LRA
Min. Circuit Breaker Size	63.0 Amps
Refrigerant	R134a
Refrigeration Effect	Heating Cooling
Nominal Capacity	87.79 kW 70.47 kW
Power Input	17.32 kW
COP	5.07 COP 4.07 COP
Combined COP	9.14 COP
Noise Level	61 dBa @ 3 m
Rated Load Amps @ 10°C SST / 51°C SCT	31.4 Amps
TECHNICAL DATA	
Make / Type	Compressor
Number Per Unit	Copeland / Scroll 20105
FLA (Full Load Amps, each)	46.1 Amps
Voltage / Phase	380 - 415 / 3
Pole/RPM	2/2,900
HEAT EXCHANGER (Water Side)	
Type of Water Tube	Hot Side (Condenser) Cold Side (Evaporator)
Design	Double Wall Single Wall
Flow Rate Excl. By Pass	Vented Brazed Plate / Co-axial Tube-in-tube Shell & Tube
Max. Outlet Water Temp	5.24 L/s 4.21 L/s
Min. Outlet Water Temp	70°C N/A
Design Pressure Drop	N/A 7 °C
Max. Operating Pressure	50 kPa
	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
955088SDV-DQ-1 (L x W x H)	500 kg 2540mm x 1250mm x 1175mm
955088SDP-DQ-1 (L x W x H)	450 kg 2120mm x 805mm x 1100mm

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	70.66 kW 4.17 COP	75.19 kW 4.41 COP	77.56 kW 4.54 COP	82.52 kW 4.79 COP	87.79 kW 5.07 COP	102.41 kW 5.81 COP	119.33 kW 6.62 COP	126.80 kW 6.97 COP
50 °C	69.65 kW 3.79 COP	74.00 kW 4.00 COP	76.28 kW 4.11 COP	81.05 kW 4.35 COP	86.10 kW 4.59 COP	100.14 kW 5.26 COP	116.38 kW 6.01 COP	123.55 kW 6.33 COP
55 °C	68.47 kW 3.37 COP	72.62 kW 3.55 COP	74.78 kW 3.65 COP	79.31 kW 3.85 COP	84.11 kW 4.06 COP	97.42 kW 4.64 COP	112.82 kW 5.30 COP	119.62 kW 5.58 COP
60 °C	67.60 kW 3.07 COP	71.58 kW 3.23 COP	73.66 kW 3.32 COP	78.00 kW 3.49 COP	82.60 kW 3.68 COP	95.35 kW 4.19 COP	110.08 kW 4.79 COP	116.59 kW 5.04 COP
65 °C	66.61 kW 2.74 COP	70.39 kW 2.88 COP	72.36 kW 2.95 COP	76.47 kW 3.10 COP	80.82 kW 3.26 COP	92.86 kW 3.70 COP	106.78 kW 4.21 COP	112.93 kW 4.43 COP
70 °C	65.70 kW 2.46 COP	69.28 kW 2.57 COP	71.15 kW 2.63 COP	75.03 kW 2.76 COP	79.14 kW 2.89 COP	90.50 kW 3.26 COP	103.61 kW 3.70 COP	109.41 kW 3.89 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