

WATER-TO-WATER HEAT PUMP SPECIFICATIONS

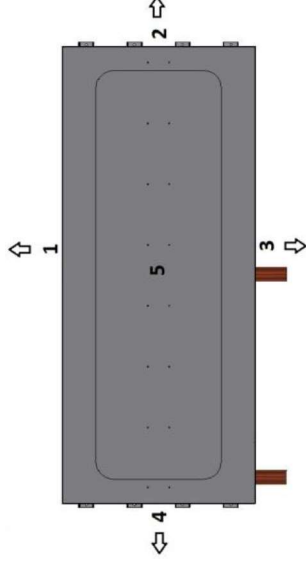
Double Wall Heat Exchanger Condenser / Rheem IQ Control 955142SDV-DQ-1
955142SDP-DQ-1

Vented Brazed Plate Heat Exchanger Condenser / Rheem IQ Control

ELECTRICAL INPUT	
Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	80.6 FLA / 272 LRA
Min. Circuit Breaker Size	100.0 Amps
Refrigerant	R134a
Refrigeration Effect	Heating 142.31 kW Cooling 113.93 kW
Nominal Capacity	142.31 kW
Power Input	28.37 kW
COP	5.02 COP
Combined COP	9.03 COP
Noise Level	64 dBA @ 3 m
Rated Load Amps @ 10°C SST / 51°C SCT	56.1 Amps
TECHNICAL DATA	
Make / Type	Compressor Copeland / Scroll 20103
Number Per Unit	2
FLA (Full Load Amps, each)	40.2 Amps
Voltage / Phase	380 - 415 / 3
Pole/RPM	2/2,900
HEAT EXCHANGER (Water Side)	
Type of Water Tube	Hot Side (Condenser) Double Wall Cold Side (Evaporator) Single Wall
Design	Vented Brazed Plate / Co-axial Tube-in-tube Shell & Tube
Flow Rate Excl. By Pass	8.50 L/s
Max. Outlet Water Temp	70°C
Min. Outlet Water Temp	N/A
Design Pressure Drop	7 °C
Max. Operating Pressure	50 kPa
GENERAL INFORMATION	2,450 kPa
Water Connections	100mm Table E Flange
Drain	20mm Aluminium
Cabinet Construction	1.2mm Stucco Aluminium
Approx. Shipping Size	Weight Dimensions
955142SDV-DQ-1 (L x W x H)	775 kg 2540mm x 1250mm x 1175mm
955142SDP-DQ-1 (L x W x H)	725 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	35 °C
45 °C	114.38 kW 4.09 COP	121.77 kW 4.34 COP	125.63 kW 4.47 COP	133.72 kW 4.73 COP	142.31 kW 5.02 COP	166.14 kW 5.78 COP	205.86 kW 7.01 COP
50 °C	112.30 kW 3.61 COP	119.34 kW 3.83 COP	123.02 kW 3.94 COP	130.71 kW 4.18 COP	138.86 kW 4.42 COP	161.49 kW 5.10 COP	199.20 kW 6.19 COP
55 °C	110.76 kW 3.27 COP	117.52 kW 3.46 COP	121.05 kW 3.56 COP	128.43 kW 3.77 COP	136.25 kW 3.99 COP	157.91 kW 4.60 COP	194.02 kW 5.59 COP
60 °C	109.34 kW 2.95 COP	115.83 kW 3.12 COP	119.21 kW 3.21 COP	126.28 kW 3.40 COP	133.76 kW 3.59 COP	154.47 kW 4.13 COP	188.99 kW 5.02 COP
65 °C	107.76 kW 2.60 COP	113.90 kW 2.75 COP	117.10 kW 2.82 COP	123.78 kW 2.98 COP	130.84 kW 3.15 COP	150.38 kW 3.61 COP	182.91 kW 4.38 COP
70 °C	106.39 kW 2.29 COP	112.20 kW 2.41 COP	115.22 kW 2.48 COP	121.51 kW 2.61 COP	128.16 kW 2.75 COP	146.52 kW 3.15 COP	177.08 kW 3.80 COP



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

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