

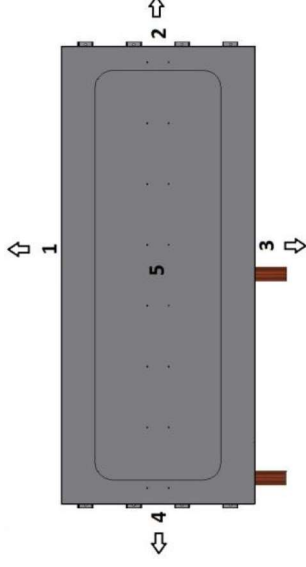
WATER-TO-WATER HEAT PUMP SPECIFICATIONS

Double Wall Heat Exchanger Condenser / Rheem IQ Control 955176SDV-DQ-1
 Vented Brazed Plate Heat Exchanger Condenser / Rheem IQ Control 955176SDP-DQ-1

ELECTRICAL INPUT	
Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	93.7 FLA / 310 LRA
Min. Circuit Breaker Size	120.0 Amps
Refrigerant	R134a
Refrigeration Effect	Heating Cooling
Nominal Capacity	175.58 kW 140.93 kW
Power Input	34.64 kW
COP	5.07 COP 4.07 COP
Combined COP	9.14 COP
Noise Level	64 dBa @ 3 m
Rated Load Amps @ 10°C SST / 51°C SCT	62.7 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	10.48 L/s 8.41 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	100mm Table E Flange
Drain	20mm Aluminium
Cabinet Construction	1.2mm Stucco Aluminium
Approx. Shipping Size	Weight
955176SDV-DQ-1 (L x W x H)	875 kg
955176SDP-DQ-1 (L x W x H)	825 kg

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	141.33 kW 4.17 COP	150.39 kW 4.41 COP	155.13 kW 4.54 COP	165.04 kW 4.79 COP	175.58 kW 5.07 COP	204.83 kW 5.81 COP	253.59 kW 6.97 COP
50 °C	139.29 kW 3.79 COP	148.01 kW 4.00 COP	152.56 kW 4.11 COP	162.09 kW 4.35 COP	172.21 kW 4.59 COP	200.28 kW 5.26 COP	247.09 kW 6.33 COP
55 °C	136.94 kW 3.37 COP	145.23 kW 3.55 COP	149.56 kW 3.65 COP	158.62 kW 3.85 COP	168.22 kW 4.06 COP	194.85 kW 4.64 COP	239.24 kW 5.58 COP
60 °C	135.21 kW 3.07 COP	143.17 kW 3.23 COP	147.32 kW 3.32 COP	156.00 kW 3.49 COP	165.20 kW 3.68 COP	190.69 kW 4.19 COP	233.18 kW 5.04 COP
65 °C	133.21 kW 2.74 COP	140.77 kW 2.88 COP	144.71 kW 2.95 COP	152.93 kW 3.10 COP	161.64 kW 3.26 COP	185.72 kW 3.70 COP	225.86 kW 4.43 COP
70 °C	131.40 kW 2.46 COP	138.57 kW 2.57 COP	142.30 kW 2.63 COP	150.07 kW 2.76 COP	158.29 kW 2.89 COP	181.00 kW 3.26 COP	218.82 kW 3.89 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