

AIR-TO-WATER HEAT PUMP SPECIFICATIONS
 Tube-in-Tube Heat Exchanger / Rheem IQ Control 953079DV-DQV-1
 Vented Brazed Plate Heat Exchanger / Rheem IQ Control 953079DP-DQV-1

ELECTRICAL INPUT	
Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load Amps	60.6 Amps
Locked Rotor (Amps Per Phase)	174.0 Amps
Min. Circuit Breaker Size	80.0 Amps
Refrigerant	R134A
Nominal Heating Capacity	81.96 kW
Power Input	19.22 kW
COP	4.26 COP
Noise Level	66 dBa @ 3 m
Rated Load Amps @ 7°C SST / 51°C SCT	49.3 Amps

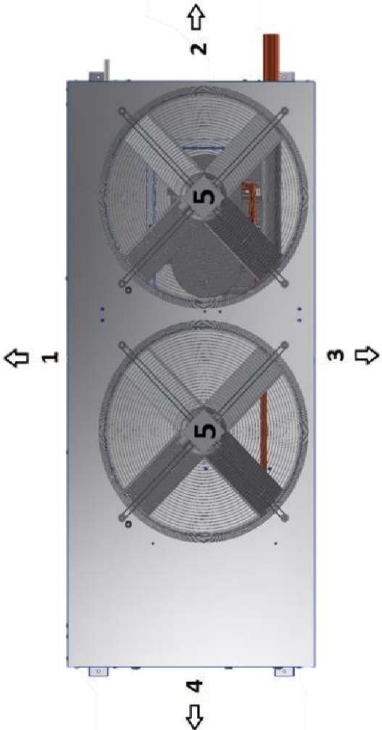
TECHNICAL DATA	
Reference/Size	Compressor
Type	20056
Number Per Unit	Scroll
FLA (Full Load Amps, each)	2
Voltage / Phase	27.2 Amps
Pole/RPM	380 - 415 / 3
Air Flow	2/2,900
External Static Pressure	N/A
	N/A
	Fan
	710mm
	Axial
	2
	3.1 Amps
	380 - 415 / 3
	6/970
	7,083 L/s
	5 Pa

HEAT EXCHANGER (Water Side)	
Type of Water Tube	Double Wall
Design	Vented Brazed Plate / Co-axial Tube-in-Tube
Flow Rate Excl. By Pass	4.89 L/s
Max. Outlet Water Temp	65°C / 70°C*
Design Pressure Drop	50 kPa
Max. Operating Pressure	2,450 kPa

GENERAL INFORMATION	
Water Connections	80mm Table E Flange
Drain	20mm Aluminium
Defrost	Reverse Cycle De-ice
Cabinet Construction	1.2mm Stucco Aluminium
Approx. Shipping Weight	600 kg
953079DV-DQV-1 (L x W x H)	2180mm x 1135mm x 1545mm
953079DP-DQV-1 (L x W x H)	2180mm x 1135mm x 1545mm

COP TABLE

Water Out °C	Ambient Temperature °C										
	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	27 °C	30 °C	35 °C	40 °C	45 °C
45 °C	53.45 kW 2.80 COP	60.97 kW 3.19 COP	69.33 kW 3.62 COP	76.24 kW 3.97 COP	81.96 kW 4.26 COP	89.19 kW 4.63 COP	92.01 kW 4.77 COP	96.41 kW 4.98 COP	97.92 kW 5.05 COP	99.46 kW 5.13 COP	103.55 kW 5.33 COP
50 °C	52.37 kW 2.49 COP	59.64 kW 2.83 COP	67.68 kW 3.21 COP	74.31 kW 3.52 COP	79.79 kW 3.77 COP	86.70 kW 4.09 COP	89.40 kW 4.22 COP	93.60 kW 4.41 COP	95.04 kW 4.47 COP	96.51 kW 4.54 COP	100.42 kW 4.71 COP
55 °C	51.53 kW 2.26 COP	58.61 kW 2.57 COP	66.40 kW 2.91 COP	72.80 kW 3.19 COP	78.07 kW 3.41 COP	84.73 kW 3.70 COP	87.33 kW 3.81 COP	91.37 kW 3.99 COP	92.76 kW 4.05 COP	94.17 kW 4.10 COP	97.93 kW 4.26 COP
60 °C	50.74 kW 2.05 COP	57.62 kW 2.33 COP	65.15 kW 2.63 COP	71.32 kW 2.88 COP	76.40 kW 3.09 COP	82.80 kW 3.34 COP	85.30 kW 3.44 COP	89.18 kW 3.60 COP	90.51 kW 3.65 COP	91.87 kW 3.71 COP	95.48 kW 3.85 COP
65 °C	N/A	56.46 kW 2.06 COP	63.67 kW 2.33 COP	69.55 kW 2.54 COP	74.38 kW 2.72 COP	80.46 kW 2.94 COP	82.83 kW 3.03 COP	86.51 kW 3.16 COP	87.78 kW 3.21 COP	89.06 kW 3.26 COP	92.48 kW 3.38 COP
70 °C	N/A	N/A	N/A	N/A	72.47 kW 2.40 COP	78.23 kW 2.59 COP	80.47 kW 2.66 COP	83.95 kW 2.78 COP	85.15 kW 2.82 COP	86.36 kW 2.86 COP	89.59 kW 2.97 COP



UNIT CLEARANCES	
Direction	Description
1	Evaporator Coil
2	Water Connections
3	Evaporator Coil
4	Compressor Access
5	Top - Fan Discharge
	Minimum Clearance Required
	1000mm
	500mm
	1000mm
	850mm
	3500mm

When the units are placed side by side, allow 2000mm distance between evaporator coils.
 Rating Conditions: 30°C ambient, 60% RH, 41°C Water in, 45°C Water out
 * Max outlet temperature when ambient is above 20°C