

HOT WATER HEAT PUMP SPECIFICATIONS

Single wall heat exchanger / thermostat control	RTHW070DS-DEV-1
Double wall heat exchanger / thermostat control	RTHW070DV-DEV-1
Single wall heat exchanger / Rheem IQ control	RTHW070DS-DQV-1
Double wall heat exchanger / Rheem IQ control	RTHW070DV-DQV-1

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	38.0 FLA / 118 LRA
Min. Circuit Size	50.0 Amps
Refrigerant	R134A
Nominal Heating capacity	70.04 kW
Power input	14.19 kW
COP	4.94 COP
Noise Level	69 dBA @ 3 m
Rated Load Amps @ 12°C SST / 51°C SCT	30.7 Amps

TECHNICAL DATA

	Compressor	Fan
Make	Copeland	EBM-Papst
Type	Scroll 20018	Axial
Number Per Unit	2	2
FLA (Full Load Amps)	17.8 Amps (Each)	1.2 Amps (Each)
Voltage / Phase	380 - 415 / 3	380 - 415 / 3
Pole/RPM	2/2,900	6/890
Air Flow	N/A	4700 L/s

HEAT EXCHANGER (Water Side)

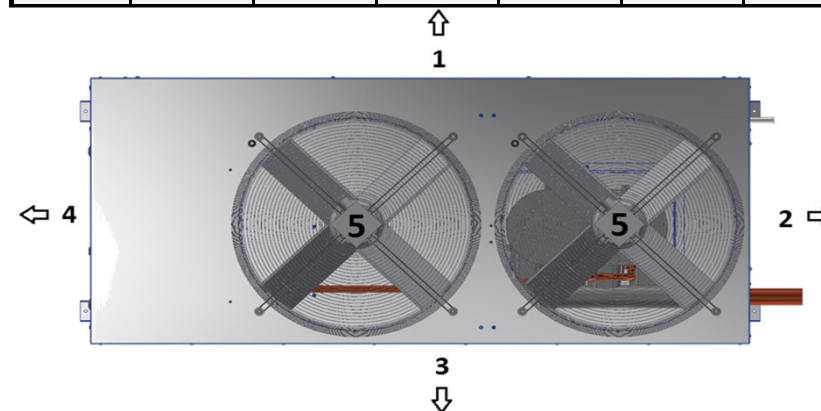
Type of Water Tube	Single Wall	Double Wall
Design	Shell and Tube	Co-axial Vented
Flow Rate Excl. By Pass	2.79 L/s	
Max. Outlet Water Temp	65°C / 70°C*	
Design Pressure Drop	50 kPa	
Max. Operating Pressure	2,450 kPa	

GENERAL INFORMATION

Water Connections	65mm (2 1/2") Copper
Drain	20mm aluminium
Defrost	Hot Gas Injection
Cabinet Construction	1.2mm Stucco Aluminium
Approx. shipping weight	400 kg
Size L x W x H	1905mm x 1005mm x 1103mm

COP TABLE

Water Out °C	Ambient Temperature					
	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C
45 °C	56.75 kW 4.02 COP	59.85 kW 4.24 COP	63.08 kW 4.47 COP	66.40 kW 4.70 COP	70.04 kW 4.94 COP	71.54 kW 5.05 COP
50 °C	55.06 kW 3.53 COP	57.98 kW 3.73 COP	61.03 kW 3.93 COP	64.15 kW 4.14 COP	67.55 kW 4.35 COP	68.98 kW 4.45 COP
55 °C	53.60 kW 3.19 COP	56.47 kW 3.37 COP	59.40 kW 3.55 COP	62.28 kW 3.73 COP	65.44 kW 3.93 COP	66.83 kW 4.02 COP
60 °C	51.98 kW 2.89 COP	54.69 kW 3.04 COP	57.46 kW 3.20 COP	60.28 kW 3.37 COP	63.22 kW 3.55 COP	64.57 kW 3.63 COP
65 °C	50.16 kW 2.62 COP	52.72 kW 2.75 COP	55.33 kW 2.89 COP	57.98 kW 3.04 COP	60.69 kW 3.19 COP	61.97 kW 3.26 COP



UNIT CLEARANCES

Direction	Description	Minimum Clearance Required
1	Evaporator Coil	1000mm
2	Water Connections	500mm
3	Plain Back	Nil
4	Compressor Access	850mm
5	Top – Fan Discharge	3500mm

When units placed side by side allow 2000mm between evaporator coils.

Rating Conditions: 30°C ambient, 60% RH, 39°C Water in, 45°C Water out

* Max outlet temperature when ambient is above 20°C



Rheem
THERMAL SYSTEMS GROUP

Manufactured In Australia by Rheem Thermal Systems Group

Unit specifications subject to change without notice. ABN 28 062 383 224