

## HOT WATER HEAT PUMP SPECIFICATIONS

Single wall heat exchanger / thermostat control	<b>RTHW030KS-DEV-1</b>
Double wall heat exchanger / thermostat control	<b>RTHW030KV-DEV-1</b>
Single wall heat exchanger / Rheem IQ control	<b>RTHW030KS-DQV-1</b>
Double wall heat exchanger / Rheem IQ control	<b>RTHW030KV-DQV-1</b>

### ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	14.9 FLA / 101 LRA
Min. Circuit Size	20.0 Amps
Refrigerant	R407C
Nominal Heating capacity	29.08 kW
Power input	5.77 kW
COP	5.04 COP
Noise Level	59 dBa @ 3 m
Rated Load Amps @ 12°C SST / 51°C SCT	11.71 Amps

### TECHNICAL DATA

	Compressor	Fan
Make	Copeland	EBM-Papst
Type	Scroll 20014	Axial
Number Per Unit	1	2
FLA (Full Load Amps)	13.6 Amps	0.64 Amps (Each)
Voltage / Phase	380 - 415 / 3	220 - 240 / 1
Pole/RPM	2/2,900	6/890
Air Flow	N/A	1600 L/s

### HEAT EXCHANGER (Water Side)

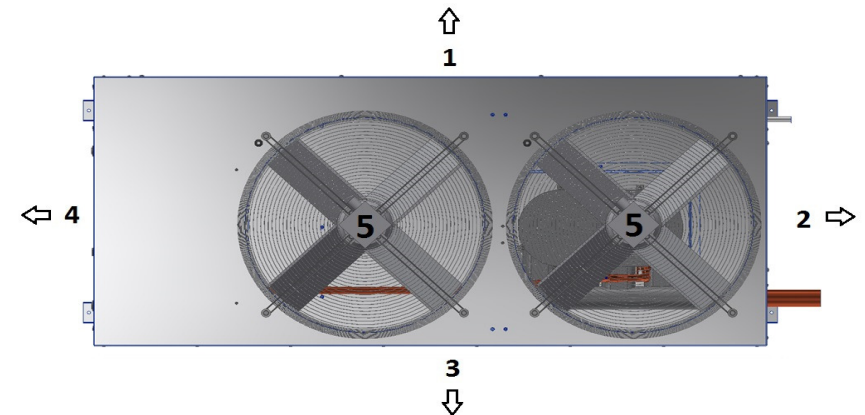
Type of Water Tube	Single Wall	Double Wall
Design	Shell and Tube	Co-axial Vented
Flow Rate Excl. By Pass	1.16 L/s	
Max. Outlet Water Temp	61 °C / 65°C*	
Design Pressure Drop	50 kPa	
Max. Operating Pressure	2,450 kPa	

### GENERAL INFORMATION

Water Connections	32mm (1 1/4") Copper
Drain	20mm PVC
Defrost	Hot Gas Injection
Cabinet Construction	1.2mm Stucco Aluminium
Approx. shipping weight	120 kg
Size L x W x H	1155mm x 565mm x 985mm

## COP TABLE

Water Out °C	Ambient Temperature					
	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C
45 °C	22.50 kW	23.98 kW	25.61 kW	27.30 kW	<b>29.08 kW</b>	29.86 kW
	3.94 COP	4.19 COP	4.46 COP	4.73 COP	<b>5.04 COP</b>	5.16 COP
50 °C	22.00 kW	23.39 kW	24.94 kW	26.55 kW	28.23 kW	28.97 kW
	3.44 COP	3.65 COP	3.89 COP	4.12 COP	4.38 COP	4.49 COP
55 °C	21.63 kW	22.95 kW	24.42 kW	25.95 kW	27.55 kW	28.25 kW
	3.07 COP	3.26 COP	3.47 COP	3.69 COP	3.91 COP	4.01 COP
60 °C	21.32 kW	22.65 kW	24.05 kW	25.50 kW	27.10 kW	27.75 kW
	2.82 COP	3.00 COP	3.18 COP	3.38 COP	3.59 COP	3.67 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

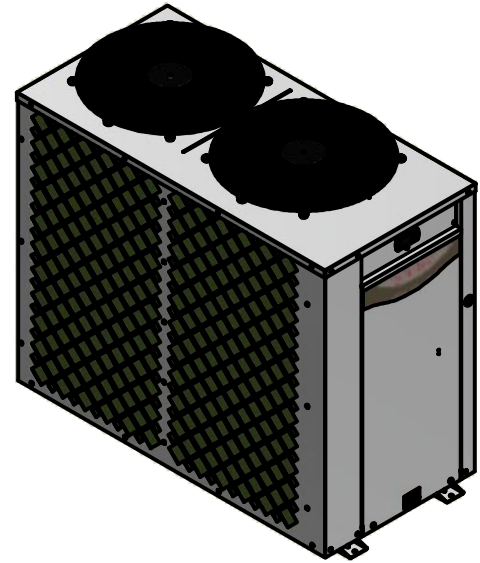
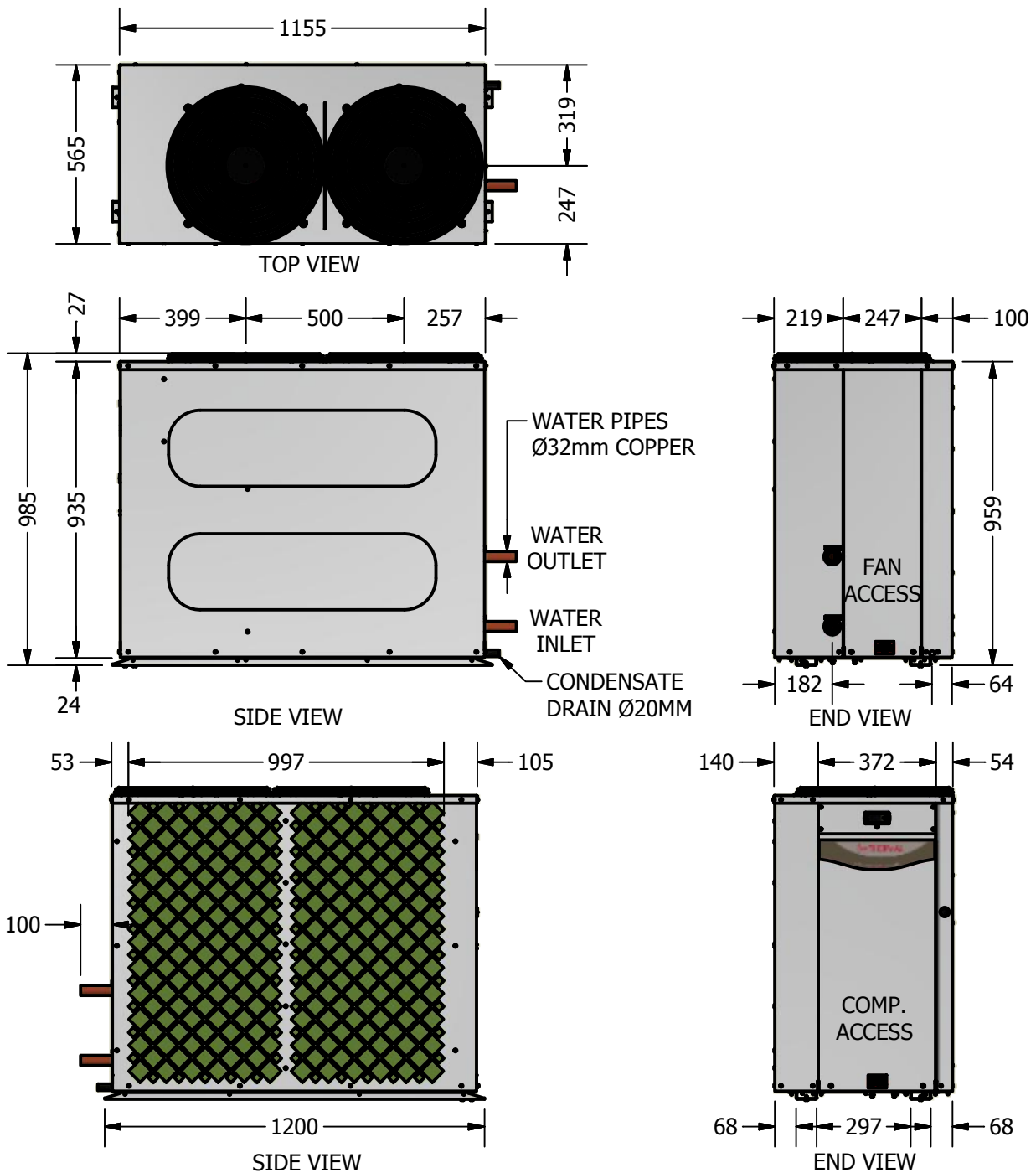


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THERMAL SYSTEMS GROUP

**Manufactured In Australia by Rheem Thermal Systems Group**

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

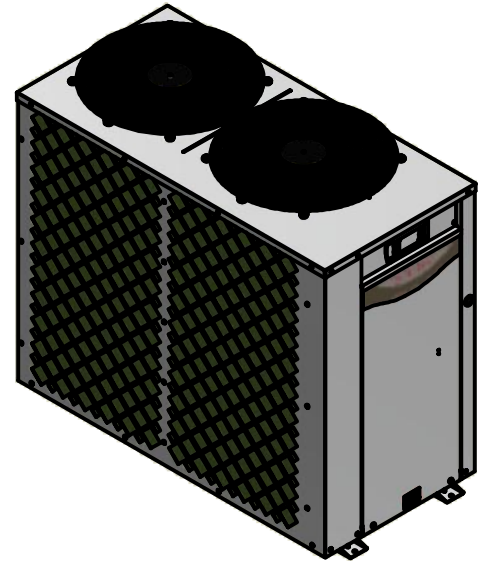
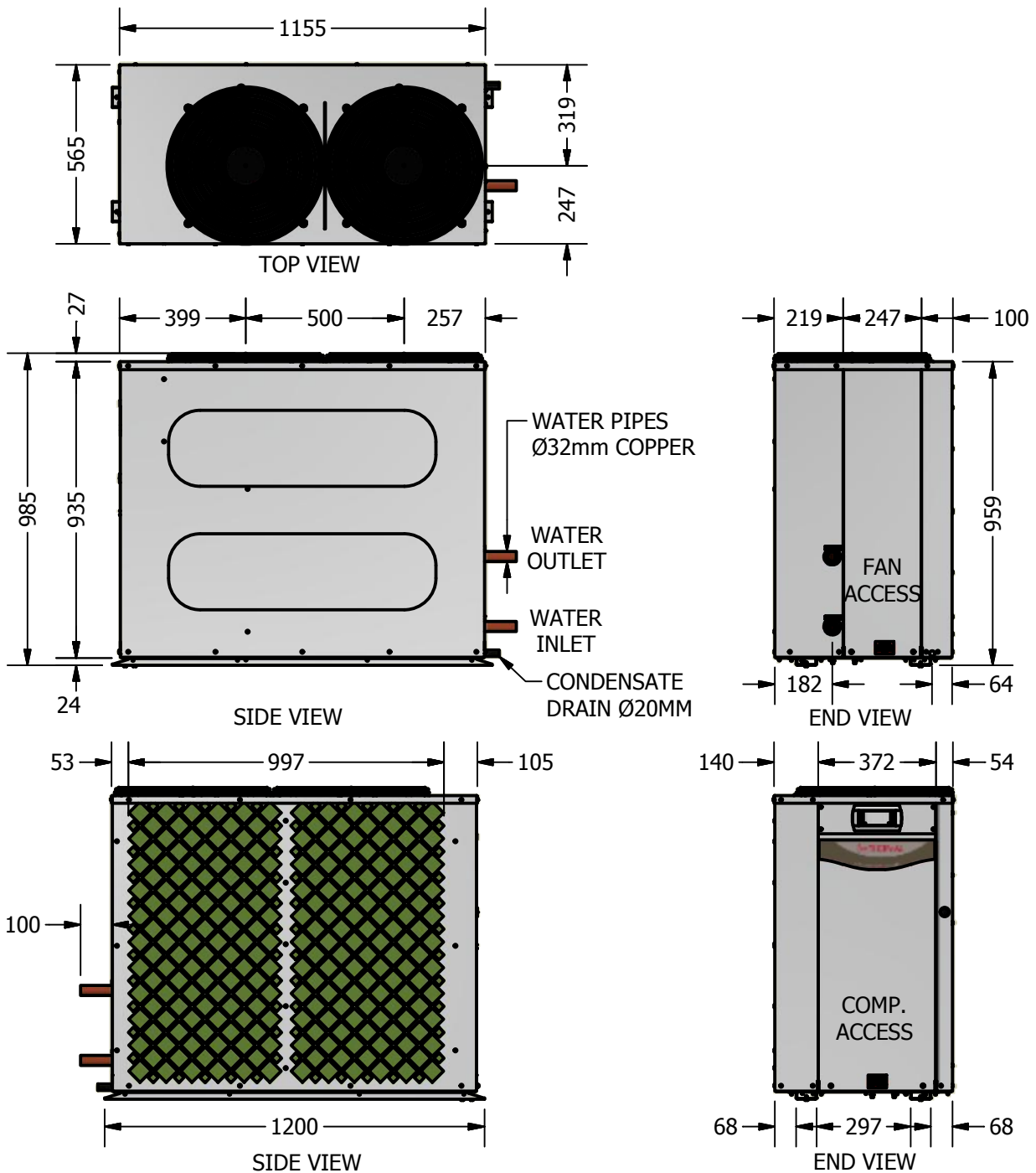


REV	ECN	DESCRIPTION	DATE


**Rheem**  
 THERMAL SYSTEMS GROUP

SHEET 1 OF 3

<b>Description:</b> RHEEM THERMAL A2W RTHW	
<b>Part No:</b> RTHW030K#-DEV-1	<b>Rev.:</b>
<b>Material:</b>	<b>Date:</b> 22/05/2018
<b>Drawn By:</b> jbbates	<b>Checked By:</b>
<b>General Tolerance:</b> Sheetmetal - Cut Size - ± 0.5mm, Angle - ± 0.5°, Bend size - ± 0.3mm Tubes - Dimensions ± 2, Angle ± 2°	<b>Scale:</b> N.T.S



REV	ECN	DESCRIPTION	DATE

 <b>Rheem</b> THERMAL SYSTEMS GROUP		SHEET 1 OF 3	
		<b>Description:</b> RHEEM THERMAL A2W RTHW	
<b>Part No:</b> RTHW030K#-DQV-1		<b>Rev.</b>	
<b>Material:</b>		<b>Date:</b> 15/06/2018	
<b>Drawn By:</b> jrbates		<b>Checked By:</b>	
<b>General Tolerance:</b> Sheetmetal - Cut Size - ± 0.5mm, Angle - ± 0.5°, Bend size - ± 0.3mm Tubes - Dimensions ± 2, Angle ± 2°		<b>Scale:</b> N.T.S	