

HOT WATER HEAT PUMP SPECIFICATIONS

Single wall heat exchanger / thermostat control	RTHW025KS-DEV-1
Double wall heat exchanger / thermostat control	RTHW025KV-DEV-1
Single wall heat exchanger / Rheem IQ control	RTHW025KS-DQV-1
Double wall heat exchanger / Rheem IQ control	RTHW025KV-DQV-1

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	12.5 FLA / 74 LRA
Min. Circuit Size	20.0 Amps
Refrigerant	R407C
Nominal Heating capacity	25.43 kW
Power input	4.98 kW
COP	5.11 COP
Noise Level	59 dBa @ 3 m
Rated Load Amps @ 12°C SST / 51°C SCT	9.64 Amps

TECHNICAL DATA

	Compressor	Fan
Make	Copeland	EBM-Papst
Type	Scroll 20012	Axial
Number Per Unit	1	2
FLA (Full Load Amps)	11.2 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)

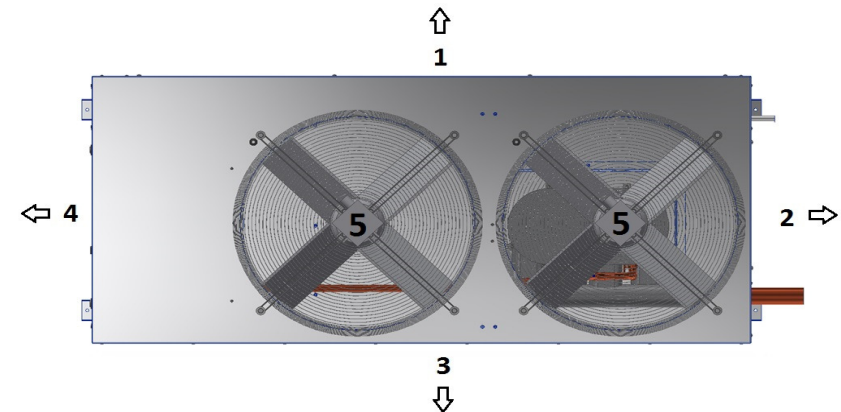
Type of Water Tube	Single Wall	Double Wall
Design	Shell and Tube	Co-axial Vented
Flow Rate Excl. By Pass	1.01 L/s	
Max. Outlet Water Temp	61°C / 65°C*	
Design Pressure Drop	80 kPa	50 kPa
Max. Operating Pressure	2,450 kPa	

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	110 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	18.74 kW	20.26 kW	21.91 kW	23.62 kW	25.43 kW	26.22 kW
	3.78 COP	4.08 COP	4.41 COP	4.75 COP	5.11 COP	5.27 COP
50 °C	18.34 kW	19.81 kW	21.38 kW	22.98 kW	24.76 kW	25.49 kW
	3.26 COP	3.52 COP	3.80 COP	4.08 COP	4.40 COP	4.53 COP
55 °C	17.92 kW	19.35 kW	20.90 kW	22.50 kW	24.20 kW	24.94 kW
	2.89 COP	3.13 COP	3.38 COP	3.63 COP	3.91 COP	4.03 COP
60 °C	17.55 kW	18.99 kW	20.49 kW	22.05 kW	23.69 kW	24.41 kW
	2.63 COP	2.85 COP	3.09 COP	3.32 COP	3.57 COP	3.68 COP



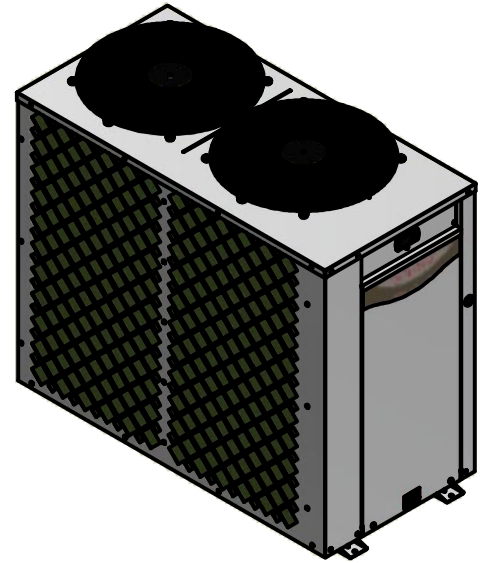
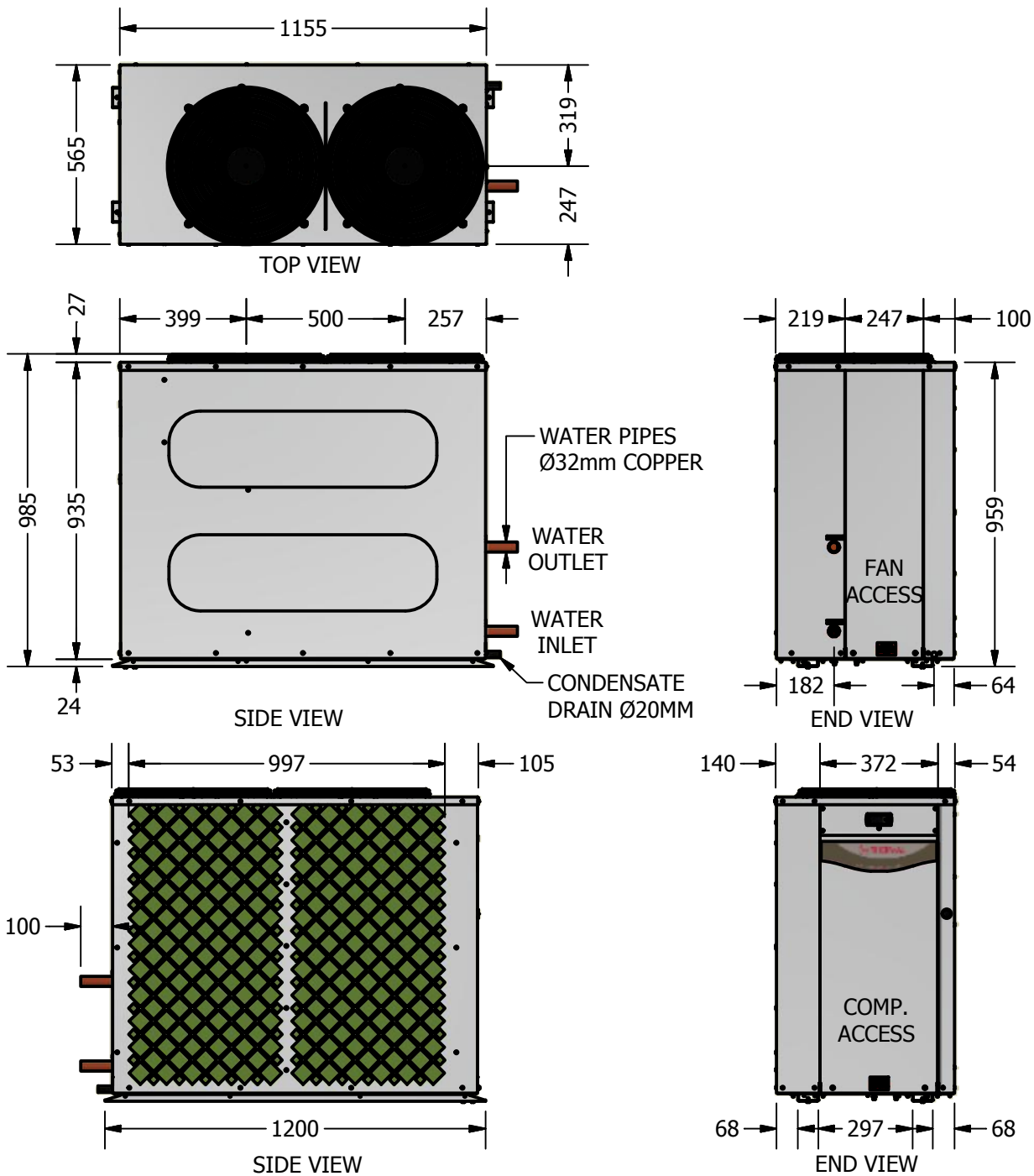
UNIT CLEARANCES

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.

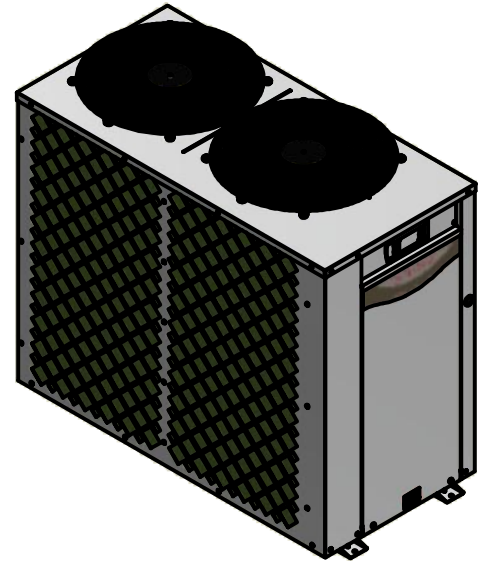
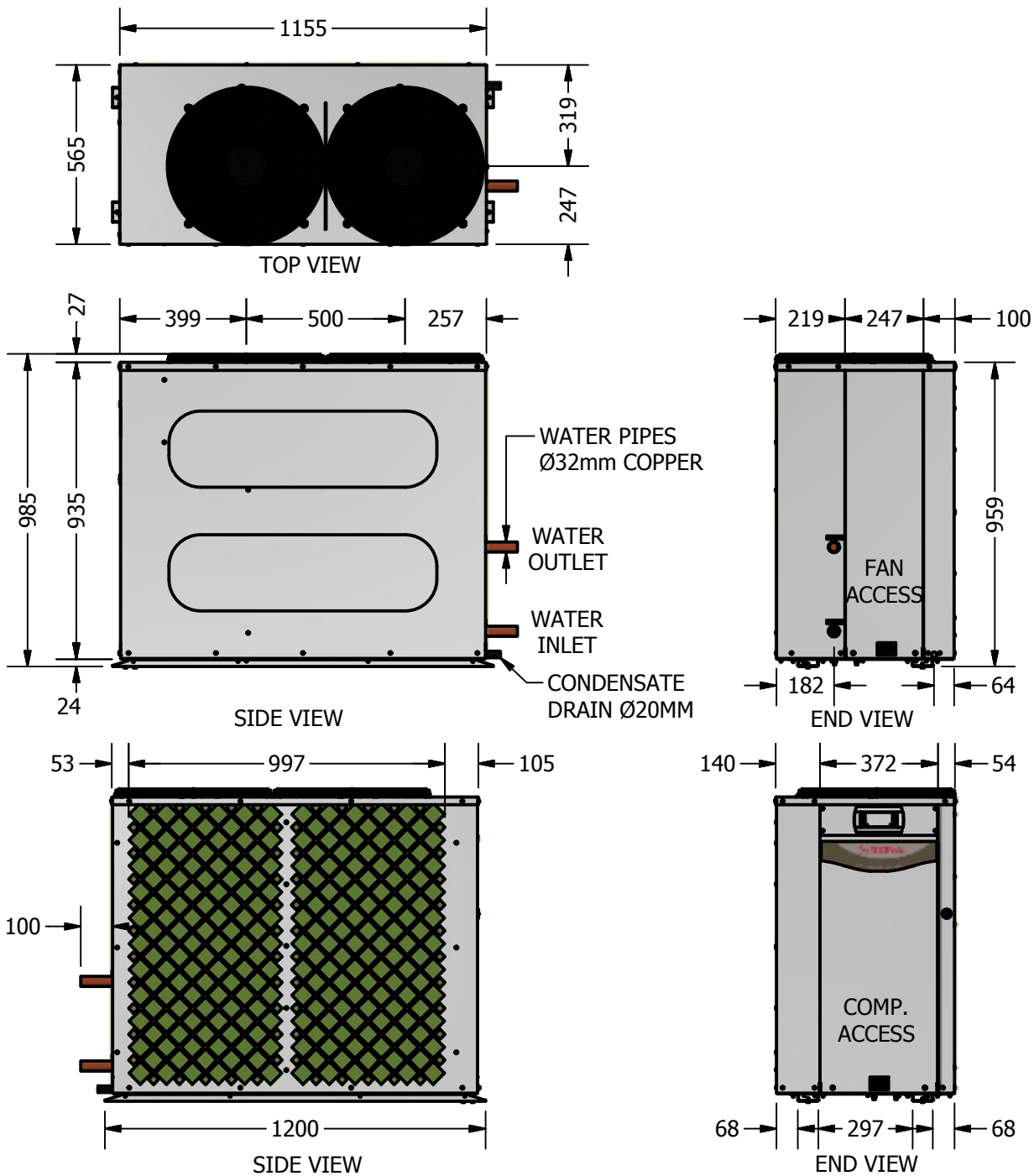
Rating Conditions: 30°C ambient, 60% RH, 39°C Water in, 45°C Water out

* Max outlet temperature when ambient is above 20°C




REV	ECN	DESCRIPTION	DATE

 Rheem THERMAL SYSTEMS GROUP		SHEET 1 OF 3	
		RHEEM THERMAL A2W RTHW	
Description:	RHEEM THERMAL A2W RTHW		
Part No:	RTHW025K#-DEV-1	Rev.	
Material:		Date:	22/05/2018
Drawn By:	jbbates	Checked By:	
General Tolerance:	Sheetmetal - Cut Size - ± 0.5mm, Angle - ± 0.5°, Bend size - ± 0.3mm Tubes - Dimensions ± 2, Angle ± 2°		Scale: N.T.S



REV	ECN	DESCRIPTION	DATE

 Rheem THERMAL SYSTEMS GROUP		SHEET 1 OF 3	
		Description: RHEEM THERMAL A2W RTHW	
Part No: RTHW025K#-DQV-1		Rev.:	
Material:		Date: 15/06/2018	
Drawn By: jbbates		Checked By:	
General Tolerance: Sheetmetal - Cut Size - ± 0.5mm, Angle - ± 0.5°, Bend size - ± 0.3mm Tubes - Dimensions ± 2, Angle ± 2°		Scale: N.T.S	