

HOT WATER HEAT PUMP SPECIFICATIONS

Single wall heat exchanger / thermostat control	RTHW080KS-DEV-1
Double wall heat exchanger / thermostat control	RTHW080KV-DEV-1
Single wall heat exchanger / Rheem IQ control	RTHW080KS-DQV-1
Double wall heat exchanger / Rheem IQ control	RTHW080KV-DQV-1

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	35.6 FLA / 111 LRA
Min. Circuit Size	63.0 Amps
Refrigerant	R407C
Nominal Heating capacity	78.70 kW
Power input	15.30 kW
COP	5.14 COP
Noise Level	69 dBa @ 3 m
Rated Load Amps @ 12°C SST / 51°C SCT	28.6 Amps

TECHNICAL DATA

	Compressor	Fan
Make	Copeland	EBM-Papst
Type	Scroll 20016	Axial
Number Per Unit	2	2
FLA (Full Load Amps)	16.6 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)

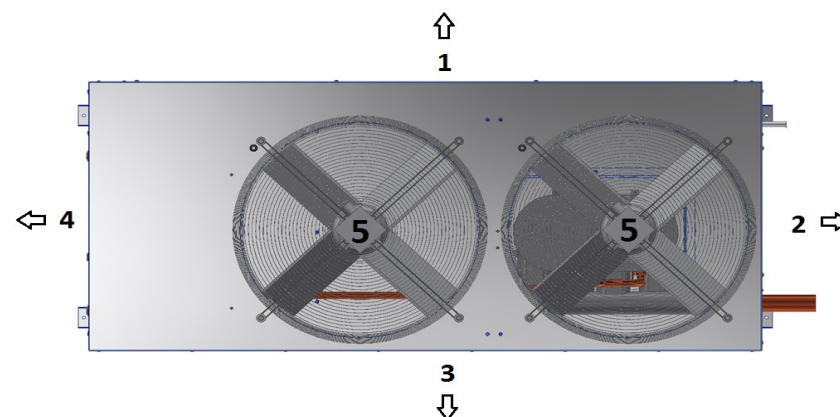
Type of Water Tube	Single Wall	Double Wall
Design	Shell and Tube	Co-axial Vented
Flow Rate Excl. By Pass	3.13 L/s	
Max. Outlet Water Temp	61 °C / 65 °C*	
Design Pressure Drop	50 kPa	
Max. Operating Pressure	2,450 kPa	

GENERAL INFORMATION

Water Connections	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	61.82 kW	65.60 kW	69.71 kW	73.96 kW	78.70 kW	80.59 kW
	4.06 COP	4.30 COP	4.57 COP	4.84 COP	5.14 COP	5.27 COP
50 °C	60.34 kW	63.93 kW	67.85 kW	71.92 kW	76.30 kW	78.15 kW
	3.57 COP	3.78 COP	4.01 COP	4.25 COP	4.50 COP	4.61 COP
55 °C	59.16 kW	62.59 kW	66.33 kW	70.18 kW	74.38 kW	76.13 kW
	3.22 COP	3.40 COP	3.61 COP	3.82 COP	4.05 COP	4.14 COP
60 °C	58.26 kW	61.71 kW	65.30 kW	69.00 kW	73.08 kW	74.75 kW
	2.97 COP	3.15 COP	3.33 COP	3.52 COP	3.73 COP	3.81 COP



UNIT CLEARANCES

Direction	Description	Minimum Clearance Required
1	Evaporator Coil	1000mm
2	Water Connections	500mm
3	Evaporator Coil	1000mm
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

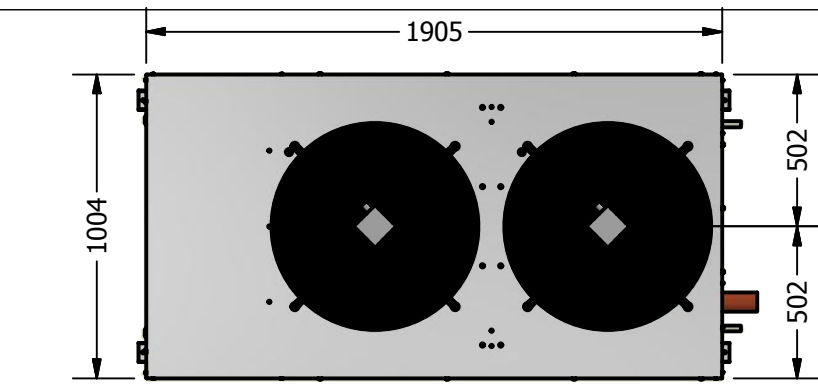


Rheem

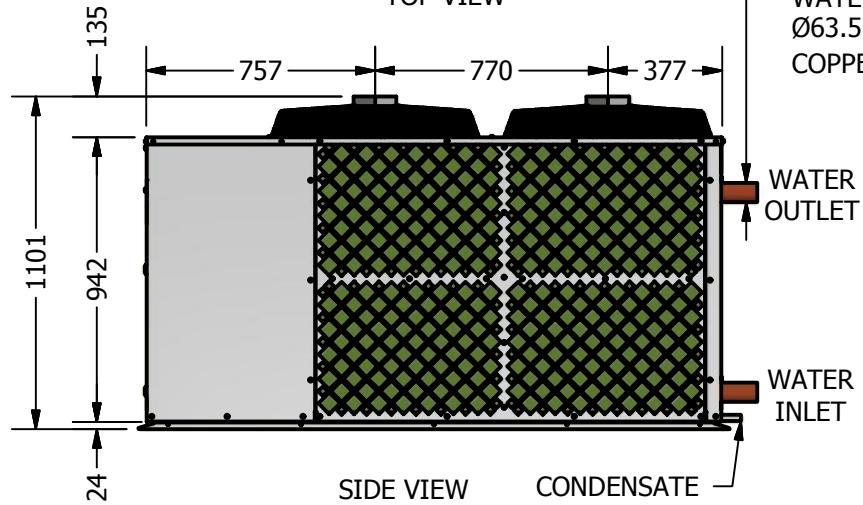
THERMAL SYSTEMS GROUP

Manufactured In Australia by Rheem Thermal Systems Group

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

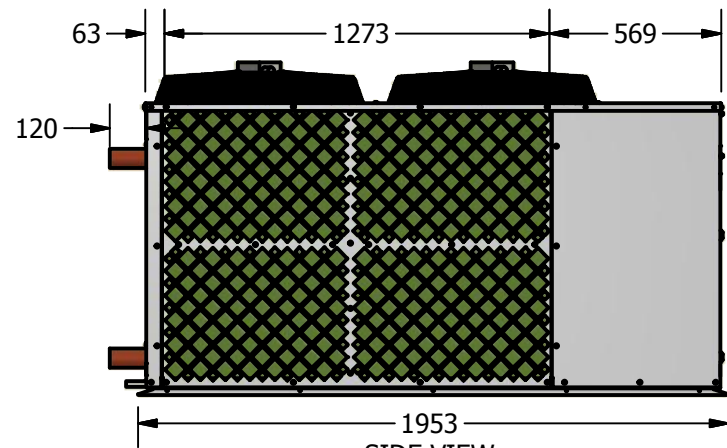


TOP VIEW

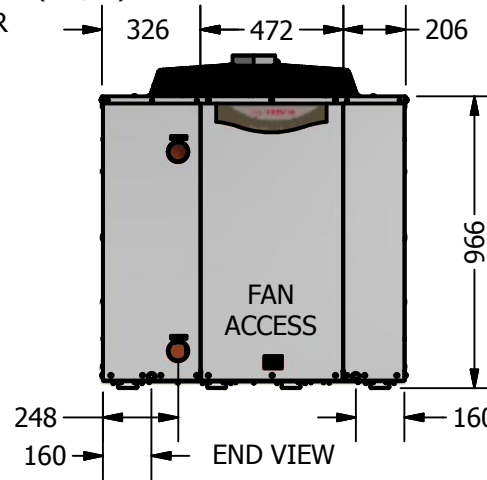


SIDE VIEW

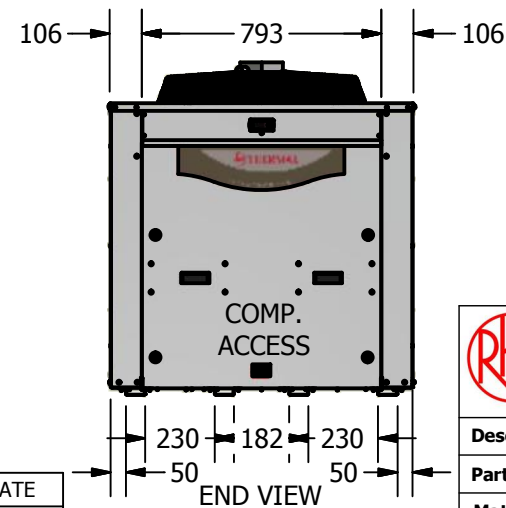
CONDENSATE
DRAIN x2 Ø20MM



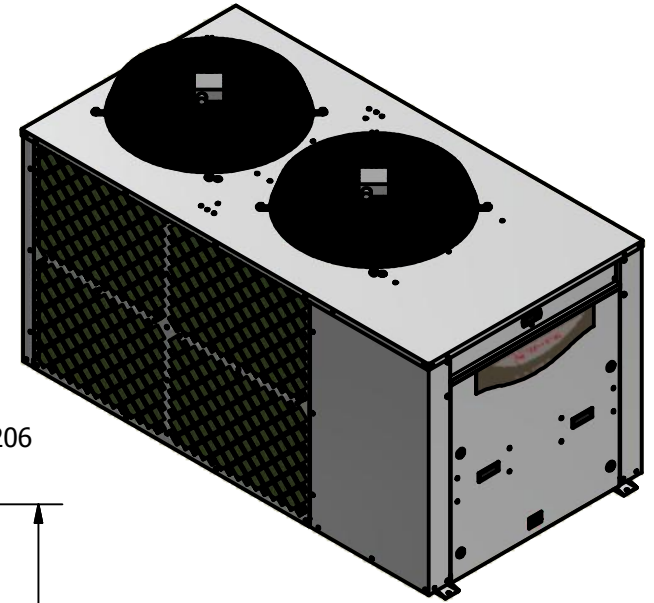
SIDE VIEW



END VIEW



END VIEW



REV	ECN	DESCRIPTION	DATE

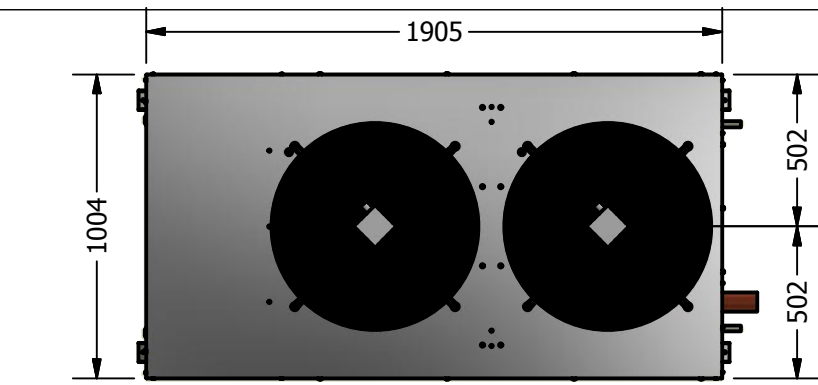


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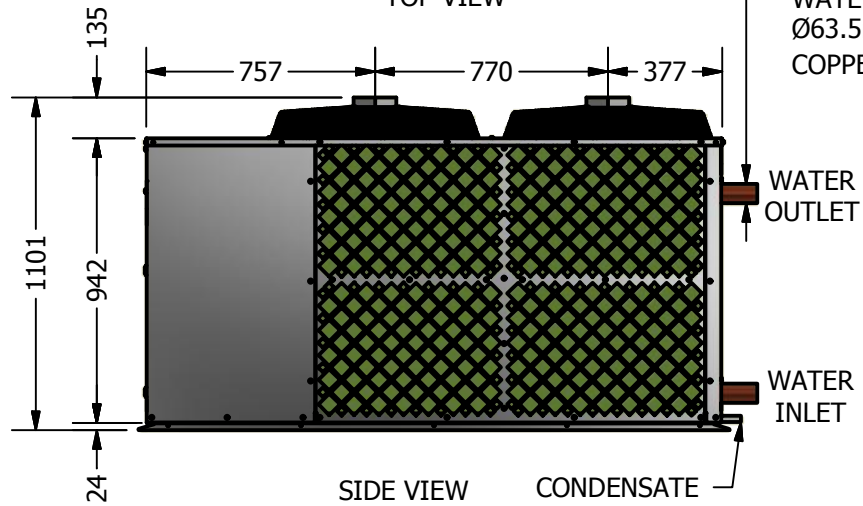
THERMAL SYSTEMS GROUP

SHEET 1 OF 4

Description:	RHEEM THERMAL A2W RTHW					
Part No:	RTHP080K#-DEV-1			Rev.		
Material:				Date:	15/06/2018	
Drawn By:	jbates		Checked By:			
General Tolerance:	Sheetmetal - Cut Size - $\pm 0.5\text{mm}$, Angle - $\pm 0.5^\circ$, Bend size - $\pm 0.3\text{mm}$ Tubes - Dimensions ± 2 , Angle $\pm 2^\circ$				Scale:	N.T.S

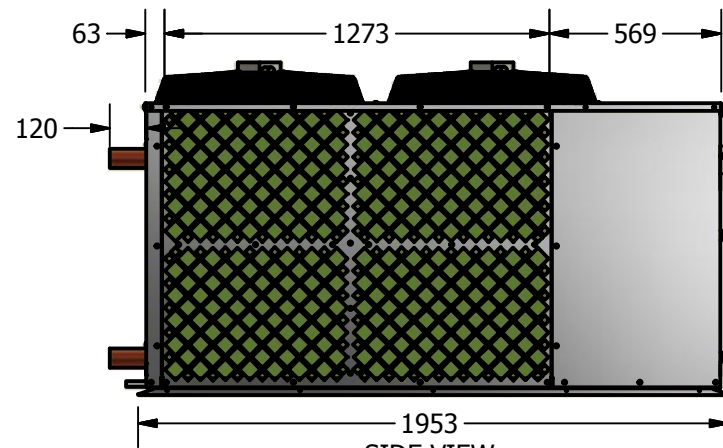


TOP VIEW

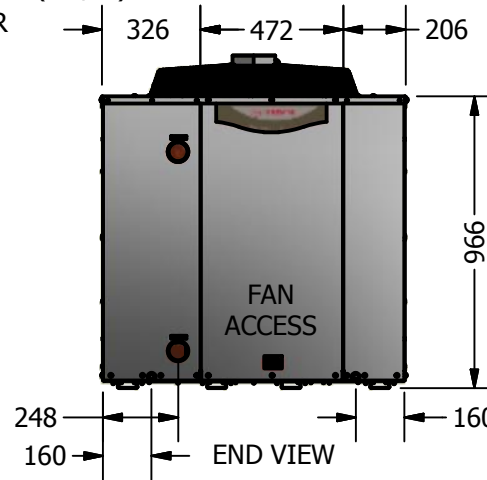


SIDE VIEW

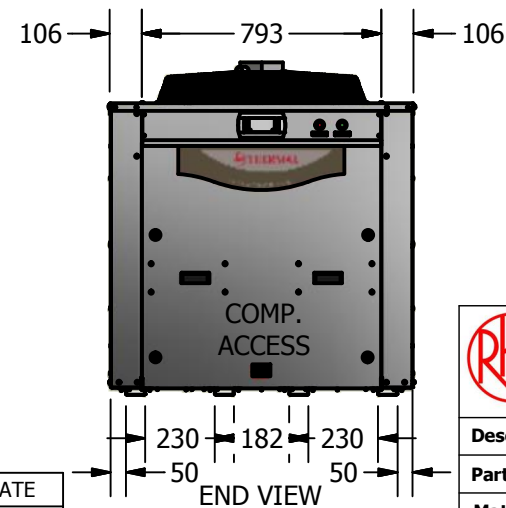
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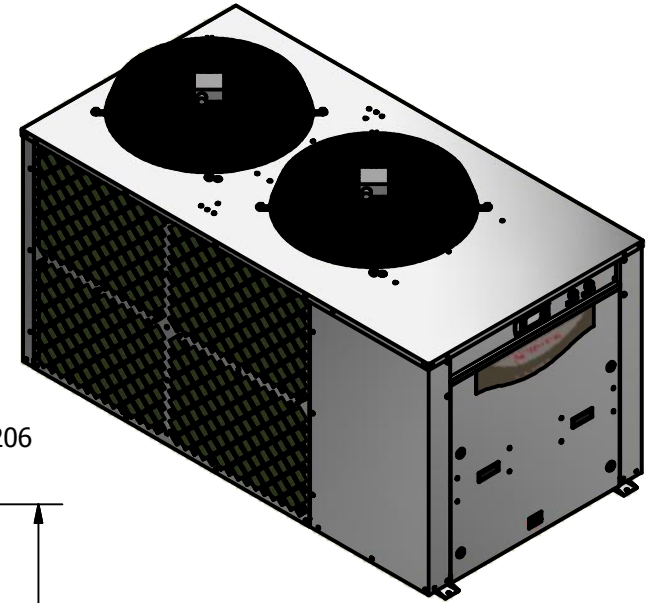
SIDE VIEW



END VIEW



END VIEW



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