

HOT WATER HEAT PUMP SPECIFICATIONS

Single wall heat exchanger / thermostat control	RTHW040KS-DEV-1
Double wall heat exchanger / thermostat control	RTHW040KV-DEV-1
Single wall heat exchanger / Rheem IQ control	RTHW040KS-DQV-1
Double wall heat exchanger / Rheem IQ control	RTHW040KV-DQV-1

ELECTRICAL INPUT

Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	19.0 FLA / 111 LRA
Min. Circuit Size	25.0 Amps
Refrigerant	R407C
Nominal Heating capacity	39.35 kW
Power input	7.59 kW
COP	5.18 COP
Noise Level	62 dBa @ 3 m
Rated Load Amps @ 12°C SST / 51°C SCT	15.46 Amps

TECHNICAL DATA

	Compressor	Fan
Make	Copeland	EBM-Papst
Type	Scroll 20016	Axial
Number Per Unit	1	2
FLA (Full Load Amps)	16.6 Amps	1.18 Amps (Each)
Voltage / Phase	380 - 415 / 3	220 - 240 / 1
Pole/RPM	2/2,900	6/890
Air Flow	N/A	2300 L/s

HEAT EXCHANGER (Water Side)

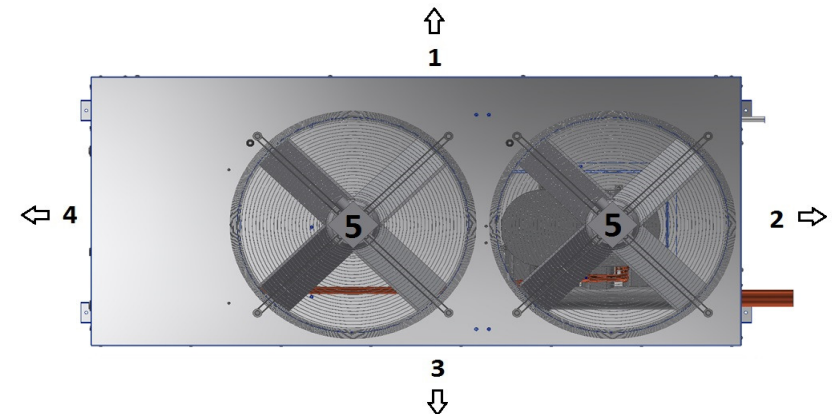
Type of Water Tube	Single Wall	Double Wall
Design	Shell and Tube	Co-axial Vented
Flow Rate Excl. By Pass	1.57 L/s	
Max. Outlet Water Temp	61°C / 65°C*	
Design Pressure Drop	50 kPa	
Max. Operating Pressure	2,450 kPa	

GENERAL INFORMATION

Water Connections	50.8mm (2") Copper
Drain	20mm aluminium
Defrost	Hot Gas Injection
Cabinet Construction	1.2mm Stucco Aluminium
Approx. shipping weight	220 kg
Size L x W x H	1755mm x 807mm x 994mm

COP TABLE

Water Out °C	Ambient Temperature					
	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C
45 °C	30.91 kW	32.80 kW	34.85 kW	36.98 kW	39.35 kW	40.29 kW
	4.09 COP	4.33 COP	4.60 COP	4.88 COP	5.18 COP	5.31 COP
50 °C	30.17 kW	31.96 kW	33.92 kW	35.96 kW	38.15 kW	39.07 kW
	3.59 COP	3.80 COP	4.04 COP	4.28 COP	4.54 COP	4.65 COP
55 °C	29.58 kW	31.30 kW	33.16 kW	35.09 kW	37.19 kW	38.06 kW
	3.24 COP	3.43 COP	3.63 COP	3.84 COP	4.07 COP	4.17 COP
60 °C	29.13 kW	30.85 kW	32.65 kW	34.50 kW	36.54 kW	37.38 kW
	2.99 COP	3.17 COP	3.35 COP	3.54 COP	3.75 COP	3.84 COP



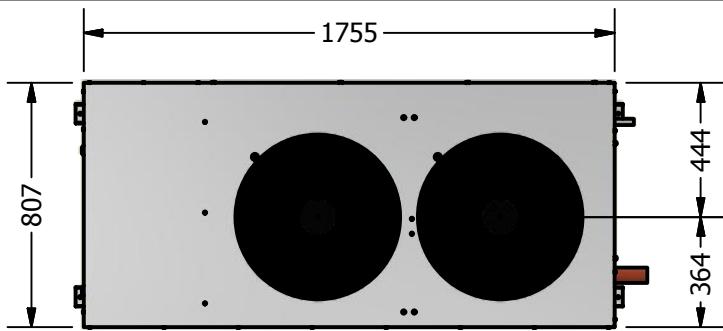
UNIT CLEARANCES

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

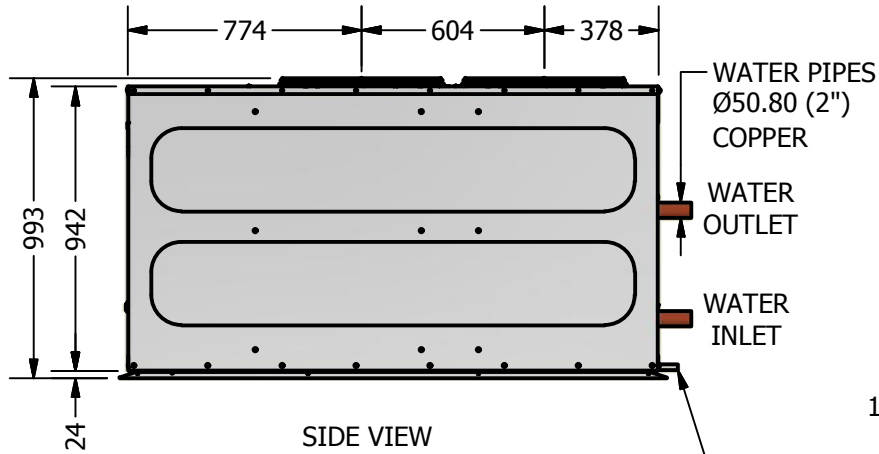
When units placed side by side allow 2000mm between evaporator coils.

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

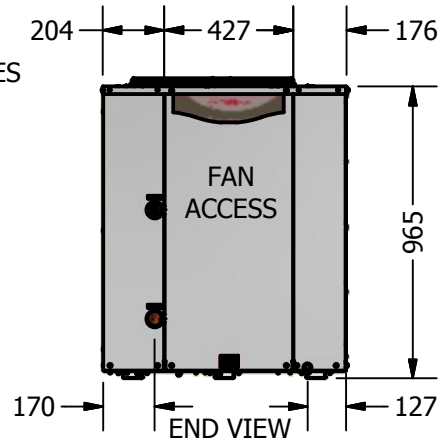
* Max outlet temperature when ambient is above 20°C



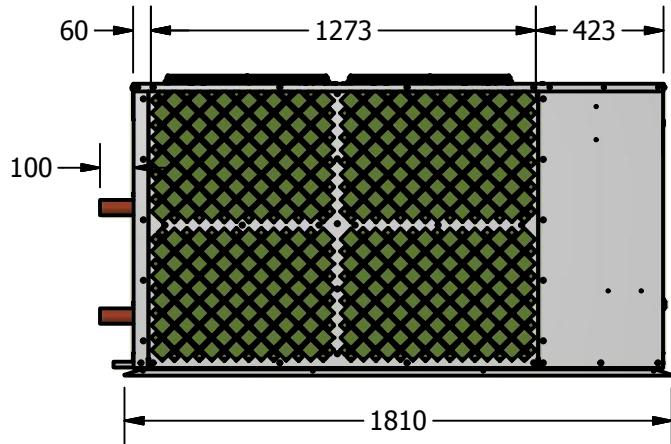
TOP VIEW



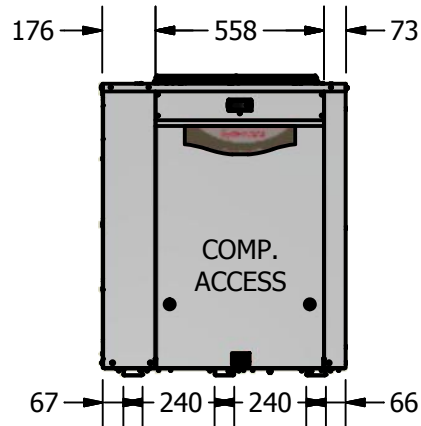
SIDE VIEW



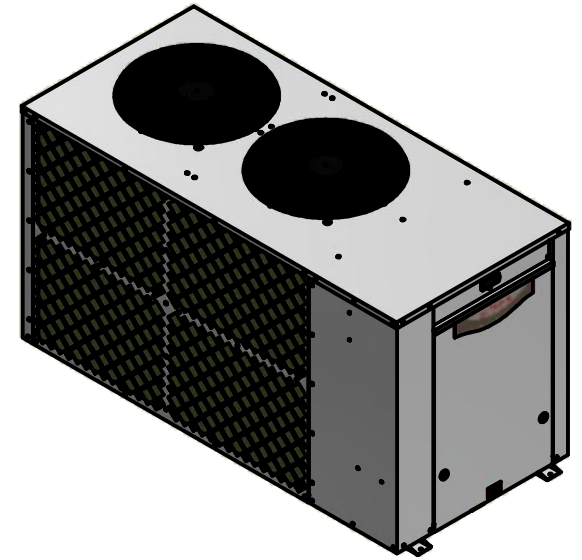
END VIEW




SIDE VIEW

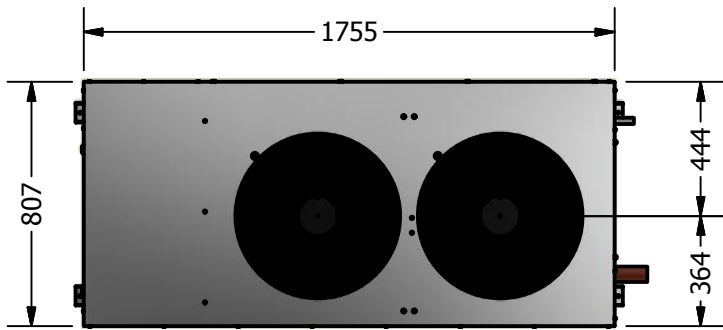


END VIEW

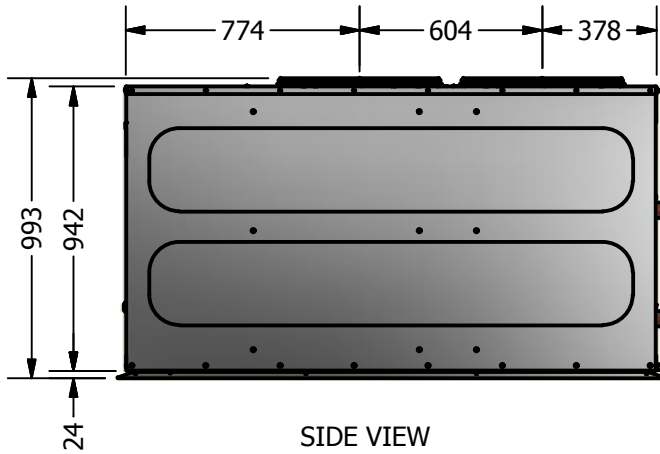


REV	ECN	DESCRIPTION	DATE

 Rheem THERMAL SYSTEMS GROUP		SHEET 1 OF 3	
		RHEEM THERMAL A2W RTHW	
Description:	RHEEM THERMAL A2W RTHW		
Part No:	RTHW040K#-DEV-1	Rev.	
Material:		Date:	15/06/2018
Drawn By:	JPB	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



TOP VIEW



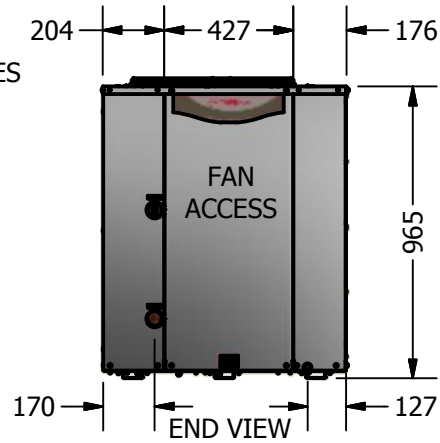
SIDE VIEW

WATER PIPES
Ø50.80 (2")
COPPER

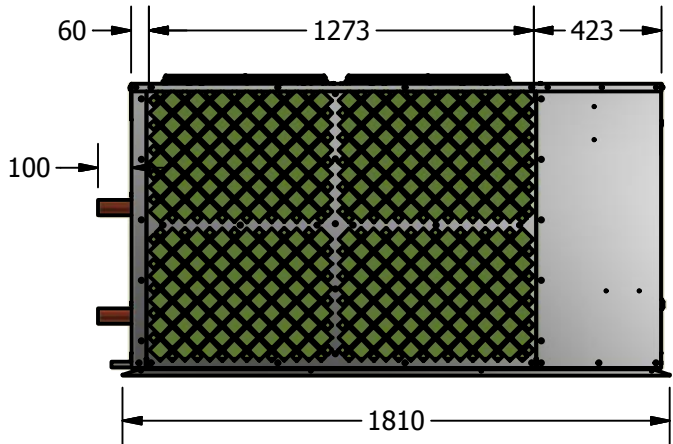
WATER
OUTLET

WATER
INLET

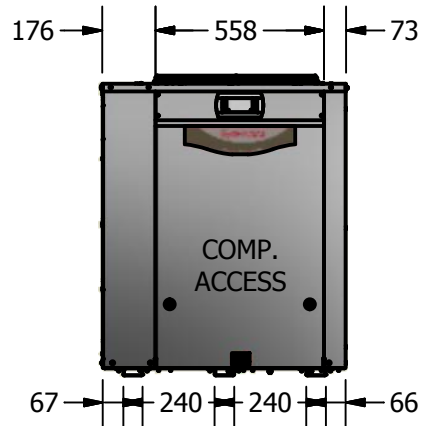
CONDENSATE DRAIN Ø20mm



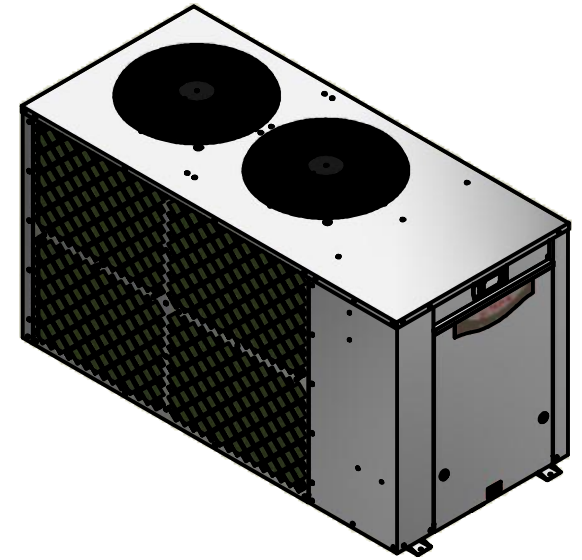
END VIEW




SIDE VIEW



END VIEW



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