

HOT WATER HEAT PUMP SPECIFICATIONS

Single wall / thermostat control / vertical discharge **RTHW010KS-JEV-1**
 Single wall / Rheem IQ control / vertical discharge **RTHW010KS-JQV-1**

ELECTRICAL INPUT

Voltage/Phase	220 - 240 Volts / 1 Phase / 50 Hz
Full Load / Locked Rotor (Amps Per Phase)	14.2 FLA / 61 LRA
Min. Circuit Size	16.0 Amps
Refrigerant	R407C
Nominal Heating capacity	10.38 kW
Power input	2.08 kW
COP	5.00 COP
Noise Level	59 dBa @ 3 m
Rated Load Amps @ 12°C SST / 51°C SCT	10.08 Amps

TECHNICAL DATA

	Compressor	Fan
Make	Copeland	EBM-Papst
Type	Scroll 20077	Axial
Number Per Unit	1	1
FLA (Full Load Amps)	13.60 Amps (Each)	0.64 Amps (Each)
Voltage / Phase	220 - 240 / 1	220 - 240 / 1
Pole/RPM	2/2,900	6/890
Air Flow	N/A	800 L/s

HEAT EXCHANGER (Water Side)

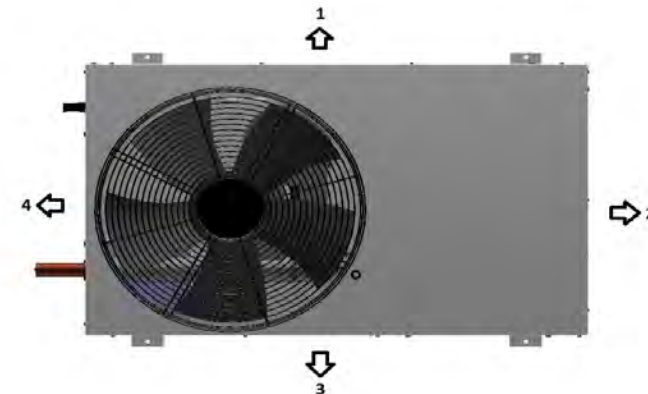
Type of Water Tube	Single Wall
Design	Shell and Tube
Flow Rate Excl. By Pass	0.41 L/s
Max. Outlet Water Temp	61 °C / 65 °C*
Design Pressure Drop	60 kPa
Max. Operating Pressure	2,450 kPa

GENERAL INFORMATION

Water Connections	25.4 mm (1") Copper
Drain	20mm PVC
Defrost	Hot Gas Injection
Cabinet Construction	1.2mm Stucco Aluminium
Approx. shipping weight	90 kg
Size L x W x H	1000mm x 640mm x 800mm

COP TABLE

Water Out °C	Ambient Temperature							
	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C
45 °C	5.43 kW	6.97 kW	7.76 kW	8.47 kW	9.24 kW	9.79 kW	10.38 kW	10.63 kW
	2.49 COP	3.25 COP	3.65 COP	4.00 COP	4.40 COP	4.70 COP	5.00 COP	5.14 COP
50 °C	5.44 kW	6.91 kW	7.62 kW	8.29 kW	9.04 kW	9.56 kW	10.09 kW	10.34 kW
	2.21 COP	2.86 COP	3.17 COP	3.48 COP	3.82 COP	4.06 COP	4.32 COP	4.43 COP
55 °C	5.36 kW	6.48 kW	7.50 kW	8.11 kW	8.83 kW	9.32 kW	9.86 kW	10.09 kW
	1.93 COP	2.35 COP	2.75 COP	3.00 COP	3.30 COP	3.50 COP	3.71 COP	3.81 COP
60 °C	5.38 kW	6.40 kW	7.36 kW	8.03 kW	8.72 kW	9.18 kW	9.72 kW	9.93 kW
	1.79 COP	2.15 COP	2.50 COP	2.74 COP	3.00 COP	3.18 COP	3.38 COP	3.46 COP



UNIT CLEARANCES

Direction	Description	Minimum Clearance Required
1	Evaporator Coil	500mm
2	Compressor Access	850mm
3	Plain Back	Nil
4	Water Connections	500mm
5	Fan Clearance	2500mm

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