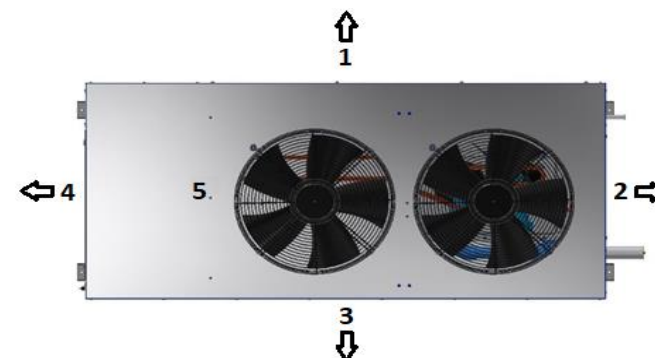


POOL CHILLER HEAT PUMP SPECIFICATIONS		
Titanium Heat Exchanger / Rheem IQ Control		RTCH030TK-DQV-1 RTCH030TK-DQVL-1
Titanium Heat Exchanger / Rheem IQ Control (Low Temp)		
ELECTRICAL INPUT		
Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz	
Full Load / Locked Rotor (Amps Per Phase)	19.0 FLA / 111 LRA	
Min. Circuit Size	25 Amps	
Refrigerant	R407C	
Nominal Cooling Capacity	29.95 kW	
Power Input	6.67 kW	
COP	4.49 COP	
Noise Level	62 dBA @ 3 m	
Rated Load Amps @ 8°C SST / 45°C SCT	13.2 Amps	
TECHNICAL DATA		
	Compressor	Fan
Make	Copeland	EBM-Papst
Type	Scroll 20016	Axial
Number Per Unit	1	2
FLA (Full Load Amps, each)	16.6 Amps	1.18 Amps
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)		
Water In Temperature Range	Low	Standard
Type of Water Tube	Titanium Tube / PVC Shell	
Design	Shell and Tube	
Flow Rate Excl. By Pass	7.00 L/s	3.50 L/s
Design Temperature Difference	1.02 °C	2.04 °C
Min. Outlet Water Temp	7 °C	
Design Pressure Drop	25 kPa	
Max. Operating Pressure	300 kPa	
GENERAL INFORMATION		
Water Connections	80mm PVC	40mm PVC
Drain	20mm Aluminium	
Cabinet Construction	1.2mm Stucco Aluminium	
Approx. Shipping Weight	220 kg	
Size L x W x H	1810 mm x 807 mm x 994 mm	

COP TABLE

		Water In °C	Ambient Temperature °C							
			10 °C	15 °C	20 °C	25 °C	27 °C	30 °C	35 °C	40 °C
Standard Temp	30 °C	36.29 kW	35.19 kW	34.04 kW	32.85 kW	32.24 kW	31.62 kW	30.35 kW	29.04 kW	27.70 kW
		6.66 COP	6.13 COP	5.60 COP	5.07 COP	4.82 COP	4.57 COP	4.09 COP	3.64 COP	3.23 COP
	27 °C	33.78 kW	32.74 kW	31.65 kW	30.53 kW	29.95 kW	29.36 kW	28.16 kW	26.93 kW	25.66 kW
		6.27 COP	5.75 COP	5.23 COP	4.73 COP	4.49 COP	4.25 COP	3.80 COP	3.38 COP	2.99 COP
	25 °C	30.26 kW	29.30 kW	28.31 kW	27.28 kW	26.75 kW	26.21 kW	25.11 kW	23.98 kW	22.82 kW
		5.70 COP	5.20 COP	4.71 COP	4.25 COP	4.02 COP	3.80 COP	3.39 COP	3.01 COP	2.66 COP
	20 °C	28.07 kW	27.17 kW	26.24 kW	25.26 kW	24.77 kW	24.26 kW	23.22 kW	22.16 kW	21.06 kW
		5.33 COP	4.85 COP	4.38 COP	3.94 COP	3.73 COP	3.52 COP	3.14 COP	2.78 COP	2.46 COP
Low Temp	15 °C	25.01 kW	24.20 kW	23.34 kW	22.45 kW	22.00 kW	21.53 kW	20.59 kW	19.61 kW	18.62 kW
		4.79 COP	4.34 COP	3.92 COP	3.51 COP	3.32 COP	3.13 COP	2.78 COP	2.47 COP	2.17 COP
	10 °C	21.35 kW	20.62 kW	19.86 kW	19.08 kW	18.67 kW	18.27 kW	17.43 kW	16.57 kW	15.69 kW
		4.13 COP	3.72 COP	3.34 COP	2.99 COP	2.82 COP	2.66 COP	2.36 COP	2.09 COP	1.84 COP



UNIT CLEARANCES		
Direction	Description	Minimum Clearance Required
1	Evaporator Coil	350 mm
2	Water Connections	500 mm
3	Plain Back	Nil
4	Compressor Access	850 mm
5	Top – Fan Discharge	3500 mm

When units are placed side by side, allow at least 700mm between evaporator coils.

Rating Conditions: 27°C ambient, 60% RH, 27°C Water in