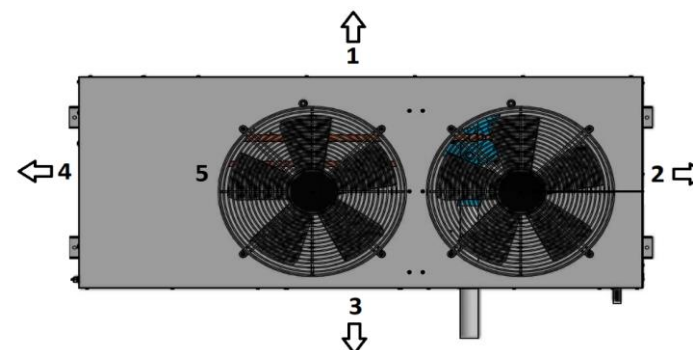


POOL CHILLER HEAT PUMP SPECIFICATIONS		
Titanium Heat Exchanger / Rheem IQ Control		RTCH022TK-DQV-1 RTCH022TK-DQVL-1
Titanium Heat Exchanger / Rheem IQ Control (Low Temp)		
ELECTRICAL INPUT		
Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz	
Full Load / Locked Rotor (Amps Per Phase)	14.9 FLA / 101 LRA	
Min. Circuit Size	25 Amps	
Refrigerant	R407C	
Nominal Cooling Capacity	21.88 kW	
Power Input	4.98 kW	
COP	4.39 COP	
Noise Level	51 dBA @ 3 m	
Rated Load Amps @ 8°C SST / 45°C SCT	10.4 Amps	
TECHNICAL DATA		
	Compressor	Fan
Make	Copeland	EBM-Papst
Type	Scroll 20014	Axial
Number Per Unit	1	2
FLA (Full Load Amps, each)	13.7 Amps	0.64 Amps
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)		
Water In Temperature Range	Low	Standard
Type of Water Tube	Titanium Tube / PVC Shell	
Design	Shell and Tube	
Flow Rate Excl. By Pass	5.60 L/s	2.80 L/s
Design Temperature Difference	0.93 °C	1.86 °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 PVC	
Cabinet Construction	1.2mm Stucco Aluminium	
Approx. Shipping Weight	160 kg	
Size L x W x H	1536 mm x 617 mm x 983 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	45 °C
Standard Temp	30 °C	26.43 kW 6.82 COP	25.70 kW 6.17 COP	24.91 kW 5.56 COP	24.05 kW 4.99 COP	23.60 kW 4.71 COP	23.14 kW 4.45 COP	22.18 kW 3.95 COP	21.17 kW 3.49 COP	20.13 kW 3.07 COP
	27 °C	24.55 kW 6.40 COP	23.87 kW 5.78 COP	23.11 kW 5.20 COP	22.30 kW 4.65 COP	21.88 kW 4.39 COP	21.44 kW 4.14 COP	20.53 kW 3.67 COP	19.58 kW 3.24 COP	18.59 kW 2.84 COP
	25 °C	21.94 kW 5.78 COP	21.31 kW 5.21 COP	20.61 kW 4.68 COP	19.87 kW 4.17 COP	19.48 kW 3.94 COP	19.07 kW 3.71 COP	18.24 kW 3.28 COP	17.36 kW 2.88 COP	16.46 kW 2.52 COP
	20 °C	20.33 kW 5.39 COP	19.73 kW 4.85 COP	19.07 kW 4.35 COP	18.36 kW 3.87 COP	17.99 kW 3.65 COP	17.61 kW 3.43 COP	16.82 kW 3.03 COP	16.00 kW 2.66 COP	15.14 kW 2.32 COP
	15 °C	18.08 kW 4.83 COP	17.53 kW 4.34 COP	16.92 kW 3.88 COP	16.27 kW 3.45 COP	15.93 kW 3.24 COP	15.58 kW 3.05 COP	14.85 kW 2.68 COP	14.09 kW 2.34 COP	13.32 kW 2.04 COP
	10 °C	15.38 kW 4.14 COP	14.88 kW 3.71 COP	14.33 kW 3.30 COP	13.75 kW 2.92 COP	13.44 kW 2.75 COP	13.13 kW 2.57 COP	12.48 kW 2.25 COP	11.81 kW 1.96 COP	11.12 kW 1.70 COP
Low Temp										



UNIT CLEARANCES		
Direction	Description	Minimum Clearance Required
1	Evaporator Coil	350 mm
2	Evaporator Coil	350 mm
3	Water Connections	500 mm
4	Compressor Access	850 mm
5	Top – Fan Discharge	2500 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