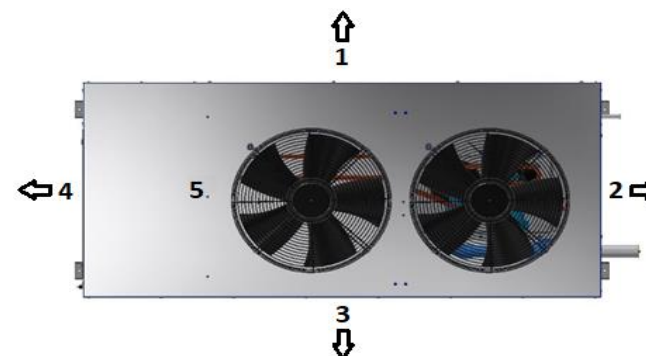


POOL CHILLER HEAT PUMP SPECIFICATIONS		
Titanium Heat Exchanger / Rheem IQ Control		RTCH019TK-DQV-1 RTCH019TK-DQVL-1
Titanium Heat Exchanger / Rheem IQ Control (Low Temp)		
ELECTRICAL INPUT		
Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz	
Full Load / Locked Rotor (Amps Per Phase)	12.0 FLA / 74 LRA	
Min. Circuit Breaker Size	20 Amps	
Refrigerant	R407C	
Nominal Cooling Capacity	18.93 kW	
Power Input	4.32 kW	
COP	4.39 COP	
Noise Level	54 dBA @ 3 m	
Rated Load Amps @ 8°C SST / 45°C SCT	8.5 Amps	
TECHNICAL DATA		
	Compressor	Fan
Reference/Size	20012	450mm
Type	Scroll	Axial
Number Per Unit	1	2
FLA (Full Load Amps, each)	10.7 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	0.81 °C	1.61 °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	140 kg	110 kg
Size L x W x H	1200 mm x 565 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	22.73 kW 6.72 COP	22.08 kW 6.09 COP	21.40 kW 5.50 COP	20.70 kW 4.96 COP	20.33 kW 4.70 COP	19.97 kW 4.45 COP	19.21 kW 3.98 COP	18.43 kW 3.54 COP	17.63 kW 3.14 COP
	27 °C	21.21 kW 6.30 COP	20.59 kW 5.70 COP	19.95 kW 5.15 COP	19.28 kW 4.63 COP	18.93 kW 4.39 COP	18.58 kW 4.15 COP	17.86 kW 3.71 COP	17.13 kW 3.30 COP	16.36 kW 2.92 COP
	25 °C	19.06 kW 5.69 COP	18.48 kW 5.14 COP	17.88 kW 4.64 COP	17.26 kW 4.17 COP	16.94 kW 3.94 COP	16.62 kW 3.73 COP	15.96 kW 3.33 COP	15.27 kW 2.95 COP	14.57 kW 2.61 COP
	20 °C	17.70 kW 5.31 COP	17.15 kW 4.79 COP	16.58 kW 4.31 COP	15.99 kW 3.87 COP	15.69 kW 3.66 COP	15.38 kW 3.46 COP	14.76 kW 3.08 COP	14.11 kW 2.74 COP	13.45 kW 2.42 COP
	15 °C	15.77 kW 4.76 COP	15.26 kW 4.29 COP	14.74 kW 3.85 COP	14.20 kW 3.45 COP	13.92 kW 3.26 COP	13.64 kW 3.08 COP	13.07 kW 2.74 COP	12.48 kW 2.43 COP	11.88 kW 2.14 COP
	10 °C	13.42 kW 4.07 COP	12.96 kW 3.66 COP	12.49 kW 3.29 COP	12.01 kW 2.94 COP	11.77 kW 2.78 COP	11.52 kW 2.62 COP	11.02 kW 2.33 COP	10.50 kW 2.06 COP	9.98 kW 1.81 COP
Low Temp										



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