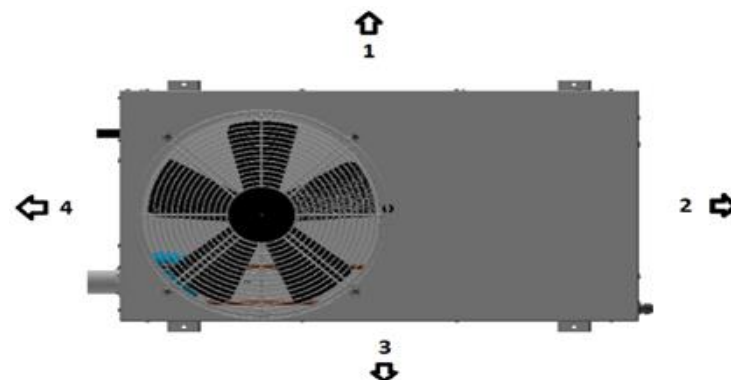


POOL CHILLER HEAT PUMP SPECIFICATIONS		
Titanium Heat Exchanger / Rheem IQ Control		RTCH015TA-DQV-1 RTCH015TA-DQVL-1
Titanium Heat Exchanger / Rheem IQ Control (Low Temp)		
ELECTRICAL INPUT		
Voltage/Phase	380 - 415 Volts / 3 Phase / 50 Hz	
Full Load / Locked Rotor (Amps Per Phase)	10.6 FLA / 69 LRA	
Min. Circuit Size	20 Amps	
Refrigerant	R410a	
Nominal Cooling Capacity	14.79 kW	
Power Input	3.90 kW	
COP	3.79 COP	
Noise Level	51 dBa @ 3 m	
Rated Load Amps @ 8°C SST / 45°C SCT	7.3 Amps	
TECHNICAL DATA		
	Compressor	Fan
Make	Highly	EBM-Papst
Type	Rotary 20115	Axial
Number Per Unit	1	1
FLA (Full Load Amps, each)	9.4 Amps	1.18 Amps
Voltage / Phase	380 - 415 / 3	220 - 240 / 1
Pole/RPM	2/2,900	6/890
Air Flow	N/A	1150 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	3.50 L/s	2.80 L/s
Design Temperature Difference	1.01 °C	1.26 °C
Min. Outlet Water Temp	7 °C	
Design Pressure Drop	20 kPa	
Max. Operating Pressure	300 kPa	
GENERAL INFORMATION		
Water Connections	40mm PVC	
Drain	20mm PVC	
Cabinet Construction	1.2mm Stucco Aluminium	
Approx. Shipping Weight (Standard/Low Temp)	100/110 kg	
Size L x W x H (RTCH015AT-DQV-1)	1007 mm x 650 mm x 1087 mm	
Size L x W x H (RTCH015AT-DQVL-1)	1007 mm x 650 mm x 1087 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	17.68 kW 5.97 COP	17.14 kW 5.27 COP	16.61 kW 4.70 COP	16.07 kW 4.23 COP	15.81 kW 4.02 COP	15.54 kW 3.83 COP	15.00 kW 3.47 COP	14.44 kW 3.16 COP	13.87 kW 2.87 COP
	27 °C	16.57 kW 5.57 COP	16.06 kW 4.93 COP	15.55 kW 4.42 COP	15.05 kW 3.98 COP	14.79 kW 3.79 COP	14.54 kW 3.61 COP	14.03 kW 3.28 COP	13.50 kW 2.98 COP	12.96 kW 2.71 COP
	25 °C	15.00 kW 5.04 COP	14.53 kW 4.48 COP	14.06 kW 4.02 COP	13.60 kW 3.64 COP	13.37 kW 3.47 COP	13.13 kW 3.30 COP	12.66 kW 3.01 COP	12.18 kW 2.74 COP	11.68 kW 2.49 COP
	20 °C	14.02 kW 4.71 COP	13.57 kW 4.20 COP	13.13 kW 3.78 COP	12.69 kW 3.42 COP	12.47 kW 3.26 COP	12.25 kW 3.11 COP	11.81 kW 2.84 COP	11.35 kW 2.59 COP	10.88 kW 2.36 COP
	15 °C	12.65 kW 4.26 COP	12.23 kW 3.81 COP	11.83 kW 3.44 COP	11.42 kW 3.12 COP	11.22 kW 2.98 COP	11.02 kW 2.85 COP	10.61 kW 2.60 COP	10.19 kW 2.37 COP	9.75 kW 2.16 COP
	10 °C	11.00 kW 3.74 COP	10.62 kW 3.35 COP	10.25 kW 3.03 COP	9.89 kW 2.76 COP	9.71 kW 2.64 COP	9.52 kW 2.52 COP	9.15 kW 2.30 COP	8.77 kW 2.10 COP	8.38 kW 1.92 COP
Low Temp										



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