

TECHNICAL SPECIFICATIONS - RPCQi-OR MODELS EVAPORATIVE COOLERS

GENERAL SPECIFICATIONS:

CABINET

The cabinet is constructed from marine grade aluminium, incorporating channel section corner pillars, mounted on a heavy gauge base frame for structural stability. Many components are powder coated for extra corrosion protection. Cabinet fasteners are Stainless Steel or Aluminium. Available in three (3) different discharge orientations - Down (D), Side (S) and Top (T). All cabinets are IPX4 rated.

ELECTRICAL CONTROL

The electrical control box is pre-wired within the cooler and incorporates an isolating switch. A 4 metre long power supply cord is supplied as standard on all models. Provision is included for plug-in connection of drain valve and solenoid kits.

WATER RESERVOIR

The water reservoir is a one piece rotational moulding from polyethylene, providing a thick walled, corrosion free component with excellent sound deadening properties.

COOLING PADS

Choice between 2 different filter pads. Chillcel[®] (C) fabricated, honeycomb, high efficiency type and Aspen (A) shredded wood wool fibre (RPCQi 150 Only). All models incorporate plastic louvres (UV stabilised) to enhance the appearance of the pad and to prevent water splash.

FAN MOTORS

Electronically commutated permanent magnet motor, incorporating sealed ball bearings. The rotor is external to the stator and is injection moulded from glass reinforced fire resistant polymers. For safety, the motor is fitted with auto re-set overload protection.

THERMOSTAT CONTROL

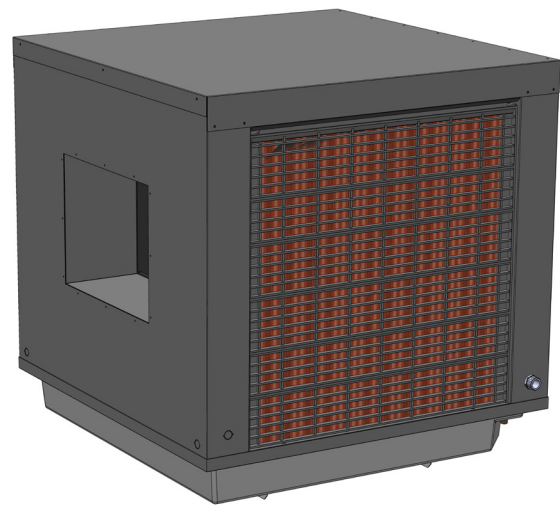
All RPCQi model coolers are compatible with the full range of Seeley MagIQtouch and MagIQcool thermostats. Connection of the thermostat to the control box is via the 20 metre low voltage cable. WiFi, RF and BMS options are also available

WATER CONNECTION

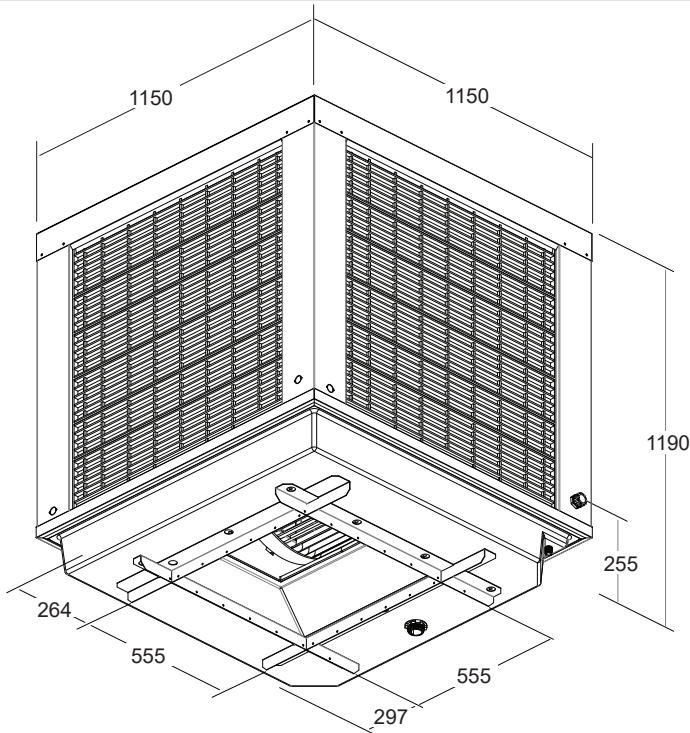
Water supply connection is 1/2" BSP, this connects directly to a 1/2" NB standard approved ball valve.

COLOURS

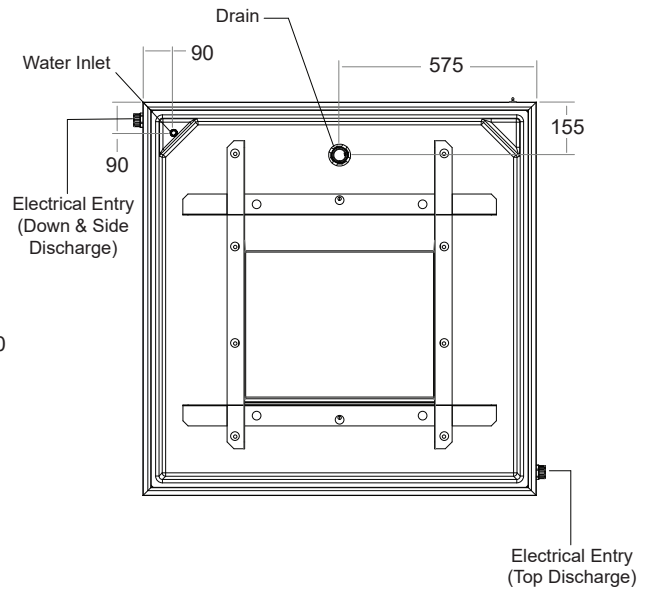
Braemar RPCQi series coolers are available in "Basalt".



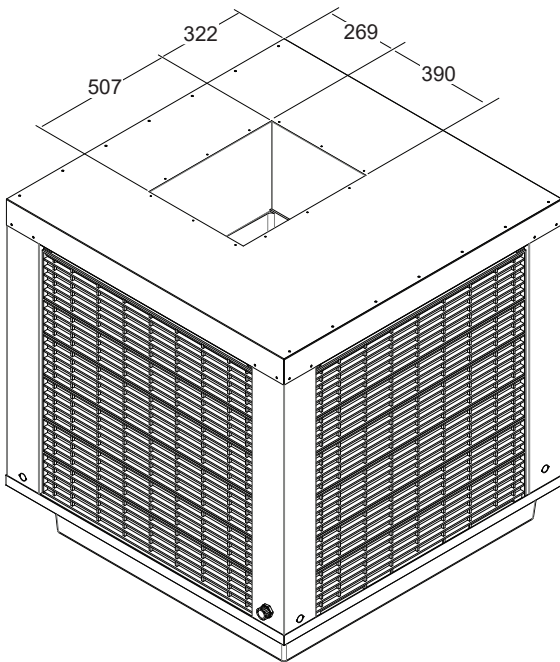
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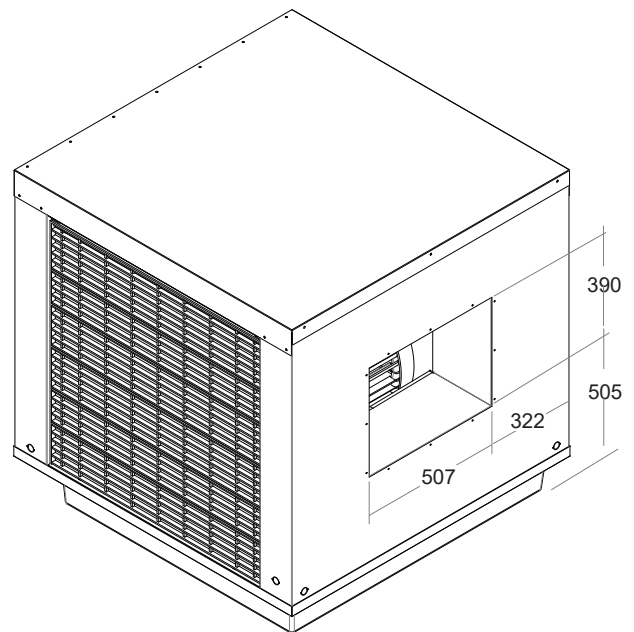
DOWN DISCHARGE



BOTTOM VIEW



TOP DISCHARGE*



SIDE DISCHARGE*

***SIDE AND TOP DISCHARGE COOLERS ARE SUPPLIED WITH 300mm FLEXIBLE TRANSITIONS ON**

Dimensions are in mm.

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Specification		RPCQi75	RPCQi75	RPCQi150	RPCQi150
Discharge		Down (D)/Top (T)	Side (S)	Down (D)/Top (T)	Side (S)
Airflow @ 0Pa	(L/s)	2400	2400	2740	2740
	(m ³ /h)	8640	8640	9860	9860
Airflow @ 80Pa	(L/s)	2100	2100	2530	2530
	(m ³ /h)	7560	7560	9110	9110
Cooling Capacity*	(kW)	9.0(C)	8.3(C)	10.8(C) 9.1(A)	9.7(C) 9.7(A)
Power Consumption (total)	Power Max (W)	1220	1220	1860	1860
	Current - Rated (A)	5.8	5.8	9.0	9.0
	Energy Efficiency Ratio (EER)	7.4	7.4	5.8	5.8
Power Supply	Voltage / Phases / Hz	230-240/1/50	230-240/1/50	230-240/1/50	230-240/1/50
Controller	Type	MagIQtouch	MagIQtouch	MagIQtouch	MagIQtouch
Sound Power	dB(A) re 1pW	71	71	74	74
Fan	Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Diameter - External (mm)	460	460	460	460
	Width (mm)	380	380	380	380
Motor	Type	Direct Drive	Direct Drive	Direct Drive	Direct Drive
	Speed Max (rpm)	510 VAR	510 VAR	680 VAR	680 VAR
	Output Max (W)	750 @ 200-264V	750 @ 200-264V	1500 @ 200-264V	1500 @ 200-264V
	Overload	Auto Reset	Auto Reset	Auto Reset	Auto Reset
	Enclosure Rating	IP2X	IP2X	IP2X	IP2X
Pump	Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Motor	Synchronous	Synchronous	Synchronous	Synchronous
	Power - rated (W)	25	25	25	25
	Flow Rate (L/min)	21	21	21	21
	Voltage / Phases / Hz	230/1/50	230/1/50	230/1/50	230/1/50
	Overload	One-shot	One-shot	One-shot	One-shot
	Enclosure Rating	IPX4	IPX4	IPX4	IPX4
Cooling Pad - Chillcel	Size (mm)	800x890x90(C) (4 pads)	800x890x90(C) (3 pads)	800x890x90(C) 800x890x70(A) (4 pads)	800x890x90(C) 800x890x70(A) (3 pads)
	Pad Area (m ²)	1.86	1.40	1.86	1.40
Water	Tank Capacity (L)	48	48	48	48
	Inlet (mm/inches)	12.7mm / 1/2" male BSP	12.7mm / 1/2" male BSP	12.7mm / 1/2" male BSP	12.7mm / 1/2" male BSP
	Drain (mm/inches) Configurable to local requirements	40mm / 1 1/2" male BSP	40mm / 1 1/2" male BSP	40mm / 1 1/2" male BSP	40mm / 1 1/2" male BSP
Shipping	Dimensions (mm) including pallet (H x W x D)	1255x1200x1200	1255x1200x1200	1255x1200x1200	1255x1200x1200
	Volume (m ³)	1.8	1.8	1.8	1.8
	Mass - Shipping (kg)	113(DC) 116(TC)	108(SC)	108(DA) 114(DC) 111(TA) 117(TC)	105(SA) 109(SC)
	Operating (kg)	135(DC) 138(TC)	130(SC)	130(DA) 136(DC) 133(TA) 139(TC)	127(SA) 131(SC)
Connecting Duct	Length & Width (mm)	550x550	550x550	550x550	550x550

T(TOP), D(DOWN), S(SIDE), A(ASPEN PAD), C(CHILLCEL)



Air flow performance has been measured in accordance with Australian Standard AS2913:2000 "Evaporative Air Conditioning Equipment" by Meridian Laboratories Pty Ltd

*Meridian Laboratories is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration. Registration No.: 3697



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