

Evaporative Coolers

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Evaporative Coolers

Celmecc International

Leading the way in Air Control, Heating & Cooling

At Celmecc International, it is our belief that working closely with our clients aids the mutual success of both organisations and for this reason we have adopted the following mission:

“To excel in the commercial and industrial building industry by setting new standards with innovative products through leadership, first class customer service and engineering excellence.”

It is with confidence that we at Celmecc International offer the Braemar Evaporative Coolers as part of our Coolheat range.



Evaporative Coolers - RPA Series

RPA Series Medium to Large Installations

Braemar Commercial

Cabinet

Constructed from mill finish marine grade aluminium for longevity and strength. The RPA is available in down, side and top discharge configurations. (RPA500 - down discharge only).

Fan Wheel

The Fan wheel is a double inlet, multi-blade, forward curve, centrifugal type. Constructed from galvanised steel, the wheel is statically balanced and the blower shaft is resilient mounted in metal housing with self aligning, single row ball bearings.

Water Reservoir

Rotational moulded in polyethylene to provide corrosion free long life and durability. Automatic water dumping is optionally available.

Fan Motors

Tropic proofed two speed motors fitted as standard. Three phase coolers have manual re-set overload for added safety. Single phase coolers (RPA400) use resilient mountings.

Water Connection

Industry standard connections (1/2 Inch BSP) make installation quick and easy.

Filter Pads

Aspen Fibre or Chillcel® is available on selected models throughout this series to provide optimum choice and extended trouble free operation. Filter pad frames are manufactured from powder coated aluminium and fitted with ABS plastic louvres to enhance appearance and improve performance. Braemar filter pads are designed and manufactured to maximise cooling effect.



Model No.	RPA400	RPA450	RPA500
Dimensions (mm)			
Height	1170	1170	1170
Width	1145	1145	1145
Depth	1145	1145	1145
Airflow Capacity (liters per second)			
High Speed	4100	4420	4760
Low Speed	2500	2920	3050
Fan Motor			
Kw	1.1	2.5	2.5
Phase/current (amps)	1/7.1	3/4.3	3/5.0
Full load current (amps)	7.65	4.80	4.80
Controller Type	All coolers available with 2 speed controller only		

Evaporative Coolers - RPB Series

RPB Series Medium to Very Large Installations

Braemar Commercial

Cabinet

The RPB's cabinet is constructed from marine grade aluminium, incorporating channel section corner pillars, mounted on a heavy gauge base frame for structural stability. Numerous components powder coated for extra corrosion protection. Available in Down, Side and top discharge. Stainless Steel cabinets are also available.



Fan Wheel

The Fan wheel is a double inlet, multi-blade, forward curve, centrifugal type. Constructed from galvanised steel, the wheel is statically balanced. The blower shaft on the RPB1200 to 1800 models is mounted in plumber blocks with self aligning, single row ball bearings. RPB 600-1000 models have a stainless steel shaft to ensure easy service and long life. Mounted in metal housings with self aligning single row ball bearings.

Water Reservoir

Rotational moulded in polyethylene to provide corrosion-free durability. Enhanced water distribution ensures an even water distribution and improved efficiency. Automatic water dumping is optionally available.

Fan Motors

Tropic proofed two speed motors with high temperature cut-out are fitted as standard. All coolers are three phase and have manual re-set overload for added safety.

Water Connection

Industry standard connections (1/2 Inch BSP) make installation quick and easy.

Filter Pads

Chillcel® pads on all models. Two piece pad frames for easy and safe maintenance when servicing. Two piece pads ensure a more efficient and even pad saturation. 10 year guarantee on pad frames. Braemar filter pads are designed and manufactured to maximise cooling efficiency.

Model No.	RPB600	RPB700	RPB900	RPB1000	RPB1200	RPB1300	RPB1400	RPB1500	RPB1800	RPB1800
Dimensions (mm)									Down & Top	Side
Height	1510	1510	1510	1510	1855	1855	1855	1855	1855	1855
Width	1520	1520	1520	1520	2030	2030	2030	2030	2030	2030
Depth	1520	1520	1520	1520	2030	2030	2030	2030	2030	2030
Airflow Capacity (liters per second)										
High Speed	5900	6450	8810	9800	11400	12750	14080	15050	17690	16300
Low Speed	4360	4600	6000	6625	6625	8545	9435	10005	12052	11890
Fan Motor										
Kw	2.2	2.3	5.5	5.5	4.0	5.5	7.5	10	15	15
Phase/current (amps)	3/4.3	3/4.7	3/8.5	3/11.7	3/8.5	3/11.7	3/16.2	3/18.5	3/26	3/26
Full load current (amps)	4.8	5.2	9	12.7	10	13.2	17.7	20	28	28
Controller Type	All coolers available with 2 speed controller only									

Evaporative Coolers - RPC Series

RPC Series Small to Medium Installations

Braemar Commercial

Cabinet

Constructed from powder coated marine grade aluminium for strength and durability. The RPC series is well suited for direct on-duct mounting for economical and inobtrusive down discharge installations. Side and top discharge options are also available on most units. Stainless Steel cabinets also available.

Fan Wheel

The fan wheel is a double inlet, multi-blade, forward curve, centrifugal type and is statically balanced. The blower shaft is mounted in plummer blocks with, self aligning, single row ball bearings.



Water Reservoir

Rotational moulded in polyethylene to provide corrosion free long life.

Fan Motors

Tropic proof two speed or variable speed, resilient mounted for quiet operation.

Water Connection

Industry standard connections (1/2 Inch BSP) make installation quick and easy.

Filter Pads

Aspen Fibre or Chillcel® is available to ensure optimum saturation efficiency and extended trouble free operation. Filter pad frames are fitted with ABS plastic louvres to enhance appearance and improve performance. Braemar filter pads are designed and manufactured to maximise cooling efficiency.

Model No.	RPC250	RPC320	RPC400	RPC450
Dimensions (mm)				
Height - top & down	860	860	1000	1120
Height - side	1000	1000	1120	-
Width	910	1150	1050	1050
Depth	910	1150	1050	1050
Airflow Capacity (liters per second) at free discharge				
High: 2 speed/ variable	1900/1900	2600/2600	3050/3050	3400/3400
Low: 2 speed / variable	1270/850	1730/1150	2035/1310	2265/1450
Fan Motor				
Watts	560	750	1100	1500
Phase/current (amps)	1/3.6	1/5.4	1/7.1	1/8.6

Note. Motors available in Variable Speed or Two-Speed

Evaporative Coolers - EA Series

EA Series Smaller Commercial & Light Industrial Cooling

Braemar Commercial

Cabinet

Moulded from UV stabilised polymer for long lasting corrosion free performance. Down and side discharge configuration is available on most models. The down discharge cooler is ideal for direct on-duct mounting providing very economical installations.

Fan Wheel

Centrifugal design for maximum performance, moulded from polypropylene and mounted on a stainless steel shaft within a moulded polypropylene housing ensuring long trouble free service.



Water Reservoir

Moulded in structural polymer to guarantee a long, corrosion-free life and ease of service.

Fan Motors

Tropic proof two speed sing phase resilient mounted motors are used for quiet operation.

Water Connection

Industry standard connections (1/2 Inch BSP) make installation quick and easy.

Filter Pads

Aspen fibre is used throughout this series. Filter pad frames are mould in corrosion-free UV stabilised polypropylene to enhance appearance for many years to come.

Model No.	EA90	EA120	EA140	EA150
Dimensions (mm)				
Height	885	1185	1185	1185
Width	1005	1005	1005	1005
Depth	945	945	945	945
Weight (operating)	98kg	106kg	109kg	111kg
Weight (shipping)	72kg	83kg	86kg	88kg
Airflow Capacity (liters per second) at free discharge				
High	1900	2650	2800	3150
Low	1300	1740	1900	2200
Fan Motor				
Watts	550	750	1100kg	1500
Phase/current (amps)	1/3.6	1/4.8	1/6.5	1/8.6

Note. The EA120 model is available with variable or two speed controllers.