

coolair®

CPQ700 and 1100 series

Coolair delivers high performance evaporative cooling at unbelievable value. Its standards in design and manufacture are second to none, ensuring reliable and long lasting operation.

Permatuf™ corrosion-proof cabinet

The Coolair cabinet will not corrode or rust. The UV stabilised structural polymer material is the same type used to make acid baths, battery cases and some space satellite components.

Axial fan

The better the fan, the more efficient the system. This super powerful fan is designed to maximise performance and minimise noise. The purpose designed fans are inherently balanced, with aerofoil blades to provide energy efficient, high pressure performance.



Totally enclosed motor

Coolair's fan motor is fully enclosed to international standards and excludes any moisture ingress from all sources. The advanced design is rigorously tested and completely reliable.



MagIQcool controller (standard)

Operate one cooler from an easy to use, wall mounted thermostat controller. Each cooler comes with 20m wiring loom and it can be extended up to a maximum length of 40 m (optional).



AUTOWeatherseal

The AUTOWeatherseal closes the cooler air discharge outlet automatically, thus significantly reducing natural air currents from circulating in and out of the building. The result – a more comfortable and controlled environment.



WATERManager™ system (optional)

The Coolair WATERManager ensures optimum machine life with minimum maintenance by constantly checking water quality. As the water in the cooler evaporates, it leaves behind impurities and salts, which then become deposited on the cooling pads and cause the cooling power to fall. The WATERManager system senses water quality with a probe that sends a signal back to the electronic module, which then ejects some dirty water and allows fresh water to enter.



NEW BREAKTHROUGH

Mini-Cell® Chillcel® Pad Technology! Dramatic improvement in cooling efficiency

Revolutionary new Mini-Cell structure provides a new development in cooling technology

New enhanced small cell design, means that the Breezair range boasts a new cutting edge level of cooling capacity – up to 46% more than before, for the highest efficiency product

New pad formulation has resulted in having 25% more surface area dramatically improving cooling efficiency

The only evaporative cooling pads fully manufactured in Australia to suit the harshest climates, and now, the absolute over-performer!

*Patent pending

Non-clogging water distribution system

Coolair's non-clogging water distribution is one of the things that make it unique. The water distributor maximises cooling efficiency by supplying a continuous and balanced flow of water across the cooling pads. This is different to any other brand of evaporative coolers, which are subject to water flow variations for a number of reasons. Coolair's balanced flow ensures highest evaporation efficiency and maximum cooling.



Tornado® water pump

The perfect pump for the job! The Tornado pump is built to last. Designed, manufactured and tested by Seeley International, the Tornado pump epitomises reliability. It features very safe material choices, an encapsulated motor with overload cut-out, stainless steel shafts and bearings fully protected from water. Plus, it has a clever impact-start feature that will overcome any tendency for the pump to become locked up with residue during prolonged off periods. The strong synchronous motor has constant speed, independent of voltage fluctuations, and runs very cool.



Clean and dry function (optional)

The cooler drains automatically when it's not in use, preventing algae growth and maintaining a clean cooler.



Digital Smartbox™ / control power module

A state-of-the-art digital electronic control means optimum performance. The Smartbox digital control module monitors and controls all of the cooler's features to provide ultimate comfort conditions, temperature sensing and water quality supervision – completely safely and reliably. The module also incorporates diagnostic features and memory to aid trouble-shooting and minimise downtime. Several user choice parameters are available to allow you to set up your preferred environment.



METAIR
SOLUTIONS

Why choose Coolair?

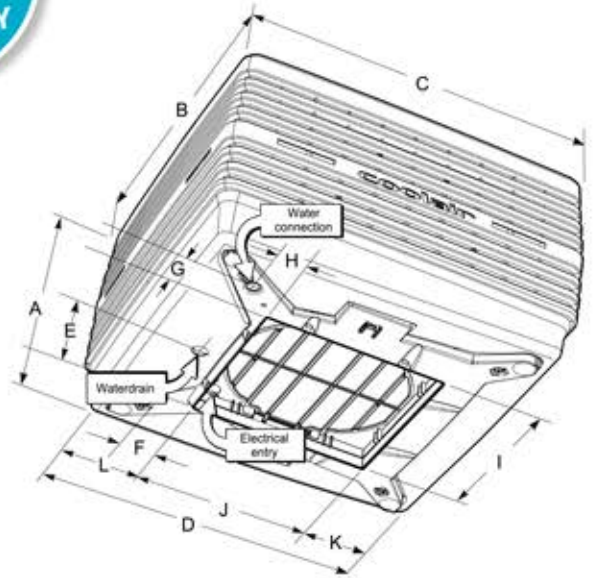
Technical specifications



		CPQ 700	CPQ 1100
Airflow @ 80Pa	Industry standard (m³/h)	6980	9760
Cooling capacity*	(kW)	11.8	13.3
Power consumption (total)	Watts max / min	880 / 400	1260 / 400
	Current max (amp)	4.0	5.7
Power supply	Voltage / Phases / Hz	220-240 / 1 / 50	220-240 / 1 / 50
Controller	Type	Digital	Digital
Fan	Type	Axial	Axial
	Dia (mm)	541	541
Motor	Type	PSC	PSC
	Speed max (rpm)	1260	1350
	Output Watts max	430	750
	Overload & Fuse	Auto reset & 'one shot' fuse	Auto reset & 'one shot' fuse
Pump	Enclosure	IP54	IP54
	Type	Centrifugal	Centrifugal
	Motor	Synchronous	Synchronous
	Rating Watts (input)	25	25
	Flow rate (L/min)	21	21
Cooling pad Chilled	Size (mm)	850 x 376 (H) x 90 (4 pads)	850 x 526 (H) x 90 (4 pads)
	Pad area (m²)	1.28	1.79
	Tank capacity (L)	23	23
Water	Inlet (mm / inches)	12.7 / 1/2" male BSP	12.7 / 1/2" male" BSP
	Drain (mm / inches)	40 / 1 1/2" male BSP	40 / 1 1/2" male" BSP
Shipping	Dimensions including pallet (mm)	1150 x 1150 x 752 (H)	1150 x 1150 x 902 (H)
	Volume (m³)	0.99	1.19
	Mass (kg)	56	68
	Operating (kg)	79	89
Connecting duct (raw edged)	Length x width (mm)	550 x 550	550 x 550

*Cooling capacity measured to Australian Standard AS2913-2000, ambient of 38° C dry bulb & 21° C wet bulb, with room exit temperature of 27.4° C.

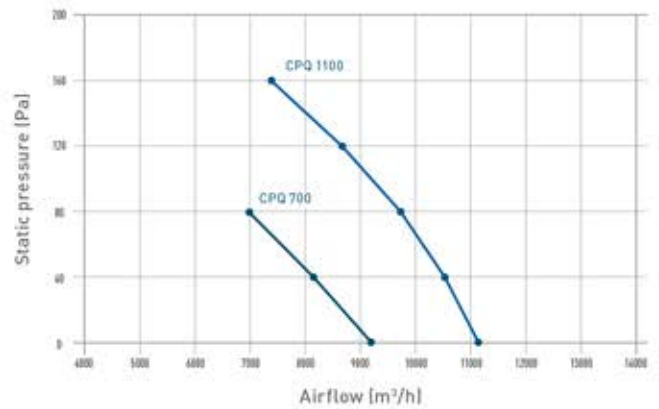
CABINET DETAILS



Model#	A	B	C	D	E	F	G	H	I	J	K	L
CPL1100X	835	1150	1150	1080	275	95	82	82	555	505	249	279

Note: All dimensions are in mm.

FAN CURVES



Model#	Industry STD Rating m³/h @ 80Pa	Motor W	Certified Air Delivery (m³/h) (static pressure Pa)				
			0	40	80	120	160
CPQ 700	6980	430	9220	8140	6980	-	-
CPQ 1100	9760	750	11160	10550	9760	8680	7420

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Cooler Discharge Air Temperature Chart

Ambient Dry Bulb Temperature °C	Ambient Relative Humidity %								
	10	20	30	40	50	60	70	80	90
10	2.7	3.6	4.5	5.4	6.2	7.0	7.8	8.5	9.3
15	6.2	7.3	8.4	9.4	10.5	11.4	12.4	13.3	14.2
20	9.5	10.9	12.2	13.5	14.7	15.9	17.0	18.1	19.0
25	12.6	14.4	16.0	17.5	19.0	20.3	21.6	22.8	23.9
30	15.8	17.9	19.8	21.6	23.2	24.7	26.2	27.5	28.8
35	18.8	21.3	23.6	25.6	27.5	29.2	30.8	32.3	33.7
40	21.9	24.8	27.4	29.7	31.8	33.7	35.5	37.1	38.6
45	24.8	28.2	31.2	33.8	36.1	38.2	40.1	41.9	43.5
50	27.8	31.7	35.0	37.9	40.5	42.7	44.8	46.7	48.4

This chart represents approximate air temperatures based on cooling performance at sea level. From tests carried out to Australian Standard 2913.

