

CPQ 1100x

Evaporative Cooler



Overview

Powrmatic have brought the Seeley International's Coolair Evaporative Cooler to the HVAC market. The Coolair evaporative coolers delivers cool, 100% fresh air, at much lower costs than refrigerated cooling methods. Evaporative cooling is fast becoming the only viable option for cooling large areas. A Coolair system can typically use less energy than refrigerated cooling system. Doors and windows can be left open, with absolutely no loss of cooling efficiency. Because a constant natural flow of 100% fresh air is drawn into the building and then expelled, odours, germs and airborne contaminants are removed and not recirculated around the building.

Evaporative cooling for a range of applications, from industrial warehouses to commercial facilities. Using evaporation to cool the air within a building, water soaked pads absorb the warm air, which evaporates and lowers the air temperature. This air is then forced by a fan into the building either at roof height, or ducted to the required height.

Benefits

- Provides 100% Fresh Air (not recirculated Air)
- Simple to maintain and operate
- Low Environmental Impact
- Uses only water and electricity
- No chemical refrigerants
- Low Carbon Emissions
- Low Running Costs
- Regular Air Changes within a building

Features

- Single Phase Install
- Ease of Install
- Single Phase Power Supply
- Roof or Wall Mounted
- Retrofittable to existing buildings
- Multi-Unit Install controllable from a single control panel
- Controls and Accessories available
- Easily Maintainable
- For use in multiple applications (Industrial, Commercial and Residential)
- Works in conjunction with Powrmatic Natural Vent Extract Products
- IPX4 Rated

Cooler Discharge Air Temperature Chart

		Ambient Relative Humidity %								
		10	20	30	40	50	60	70	80	90
Ambient Dry Bulb Temperature °C	10	2.7	3.6	4.5	5.3	6.2	7.0	7.8	8.5	9.3
	15	6.1	7.3	8.4	9.4	10.4	11.4	12.4	13.3	14.1
	20	9.4	10.8	12.2	13.5	14.7	15.8	17.0	18.1	19.0
	25	12.6	14.3	16.0	17.5	18.9	20.3	21.5	22.8	23.0
	30	15.7	17.8	19.7	21.5	23.2	24.7	26.2	27.5	28.8
	35	18.7	21.2	23.5	25.6	27.4	29.2	30.8	32.3	33.7
	40	21.8	24.7	27.3	29.6	31.7	33.7	35.4	37.1	38.6
	45	24.7	28.1	31.1	33.7	36.1	38.2	40.1	41.9	43.5
	50	27.6	31.6	35.0	37.8	40.4	42.7	44.8	46.7	48.4

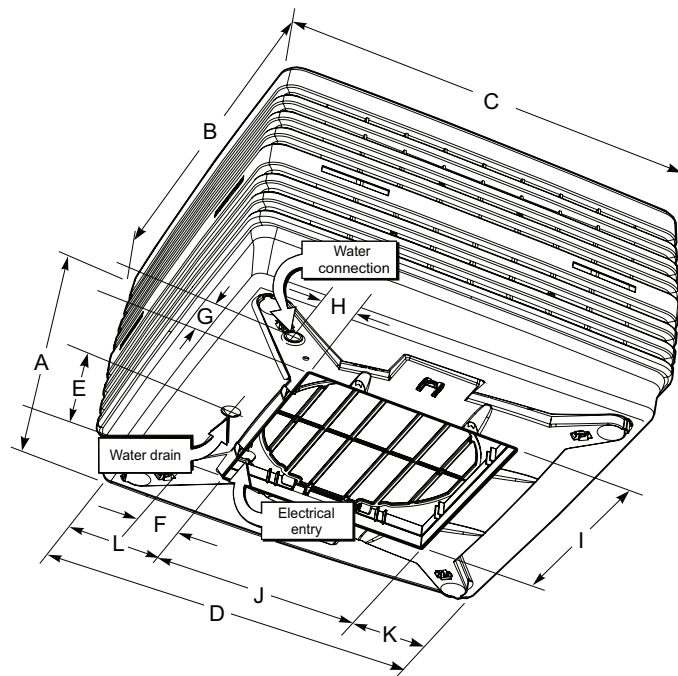
Note: This chart represents approximate air temperatures based on cooling performance at sea level. From tests carried out to Australian Standard 2913.

Technical Performance

Specification		CPQ1100
Cooling Capacity	kW	14.1
Power Consumption	W Max	1220
	Current Max (amp)	6.0
Power Supply	V/ph/Hz	220-240 / 1 / 50
Controller	Type	Digital
Fan	Type	Axial
	Dia (mm)	541
Motor	Type	PSC
	Speed Max (rpm)	1360
	Output W (max)	950
	Overload & Fuse	Auto reset & 'one shot' fuse
Pump	Enclosure	IP24
	Type	Centrifugal
	Motor	Synchronous
	Rating W (input)	25
	Flow rate (L/min)	21
	V/ph/Hz	230 / 1 / 50
	Overload	Auto reset
Cooling Pad Chillcel	Size (mm)	800 x 526 (H) x 90 (4 pads)
	Pad area (m ²)	1.79
Water	Tank Capacity (L)	23
	Inlet (mm / inches)	12.7 / ½ male BSP
	Drain (mm / inches)	40 / 1 ½ male BSP
Packing / Shipping	Dimensions	1150 x 1150 x 902 (H)
	Volume (m ³)	1.19
	Weight (kg)	68
	Operating (kg)	91
Connecting Duct (raw edged)	Length x Width (mm)	550 x 550

Dimensions

Dims	mm
A	835
B	1150
C	1150
D	1080
E	275
F	95
G	82
H	82
I	555
J	555
K	249
L	279



Certified Air Delivery

Model	Industry STD Rating m ³ /h @ 80Pa	Motor W	Certified Air Delivery (m ³ /h) (static pressure Pa)					
			Pa	0	40	80	120	160
CPQ 1100X	10120	950	Certified Air Delivery m ³ /h	11520	10840	10120	9070	7920