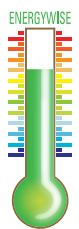




## **powerkool** evaporative coolers

Suitable for commercial, industrial and agricultural applications where large volumes of cool fresh air are required.

Powerkool evaporative coolers utilize the natural process of evaporation of water to cool air. This natural process, combined with its low energy requirement makes evaporative cooling the most environmentally friendly choice possible.



### BENEFITS

- Low capital, energy, and maintenance costs
- Environmentally friendly
- Robust and reliable
- Cool and healthy working environment
- Doors & windows can, and should remain open
- The wet surface of the CeLPaD evaporation media is a fairly efficient filter, trapping pollen and dust
- The conditioned space is maintained at a slightly positive pressure, limiting the ingress of dust and pollutants from outside

### APPLICATIONS

- Industrial plants
- Commercial premises
- Places of worship
- Schools
- Workshops
- Laundries
- Dry cleaners
- Agricultural: Greenhouses, livestock, poultry, packing sheds

### FEATURES

**CeLPaD Evaporation Media** ensures maximum saturation efficiency, maximum freshness, maximum durability and toughness.

Pre-filters are available on request.

### CABINET, PANELS, AND FAN SCROLL

Manufactured in glass reinforced polyester resin, creating an aesthetically pleasing, strong, and robust housing that will provide many years of maintenance-free service. By special request, the cooler can be colour coded to suit the architecture of the premises. All metal fittings are hot dip galvanized after manufacture and are secured using electro-galvanized fasteners.

### FAN IMPELLER AND DRIVE MOTOR

The fan impeller is manufactured using pre-galvanized sheetmetal and coated with an epoxy paint finish for additional protection. It is balanced for vibration-free operation & mounted on a shaft which runs in pillow-block self-aligning ball bearings. The assembly is belt driven by an IP55 motor.

### WATER RECIRCULATION

Water is supplied to the unit via a ½" BSP connection and the level is controlled by means of a standard SABS approved ball valve. It is circulated to the CeLPaDs by means of a semi-submersible pump mounted in the sump of the cabinet. All models utilize a model CP-3 (230V/0.6A) waterpump.

In order to limit the build-up of minerals in the water, an adjustable bleed-off valve is provided.

### ELECTRICAL

Wiring from the electric motor and pump is terminated in an IP55 enclosure inside the cabinet.

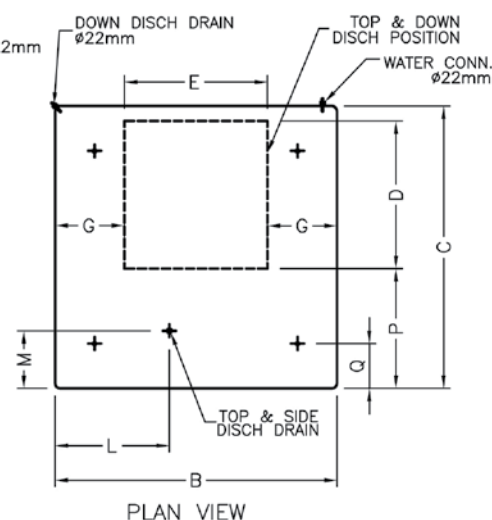
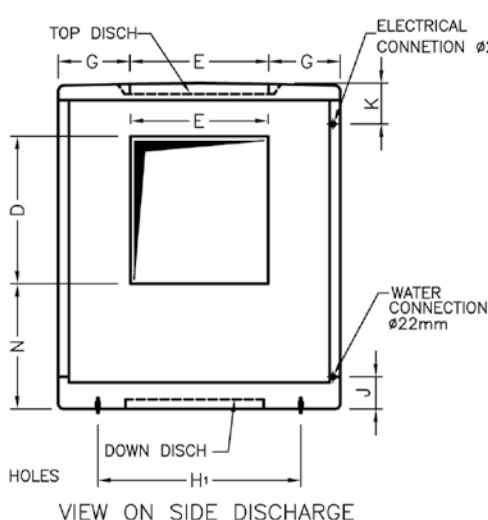
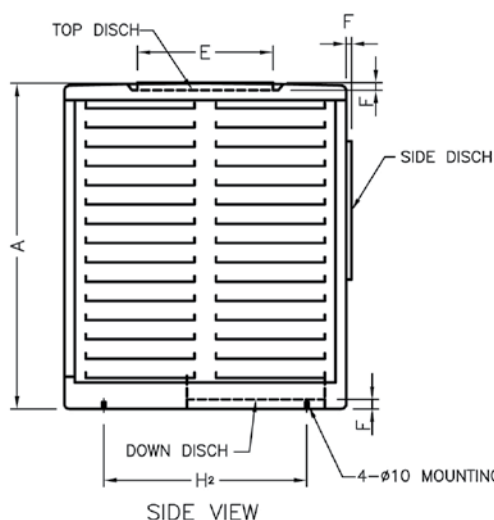
An electrical control module (ECM) is supplied with the evaporative cooler (for indoor mounting). It consists of a Direct-on-line starter with overload and single phase protection, a delay timer, separate pump ON/OFF control, and an isolator.

The function of the delay timer is to ensure proper wetting of the CeLPaDs before the fan starts to run, to prevent water carry-over.



### PHYSICAL DIMENSIONS

MODEL	TOP DISCH		SIDE DISCH		DOWN DISCH	
	EC18	EC22	EC18	EC22	EC18	EC22
A	±1165	±1530	±1180	±1530	±1165	±1522
B	±1010	±1320	±1010	±1320	±1010	±1320
C	1010	1320	1010	1320	1010	1320
D	480	645	480	645	480	645
E	565	645	565	645	565	645
F	35	25	25	25	90	25
G	210	325	230	325	210	325
H1	810	900	620	900	810	900
H2	480	900	615	900	480	900
J	150	150	155	150	150	150
K	180	190	180	190	180	190
L	460	535	460	535		
M	220	210	220	210		
N			385	610		
P	430	555			430	570
Q	160	±210	±195	±210	160	±210
MASS Nett	176 (max)	240 (max)	176 (max)	240 (max)	176 (max)	240 (max)



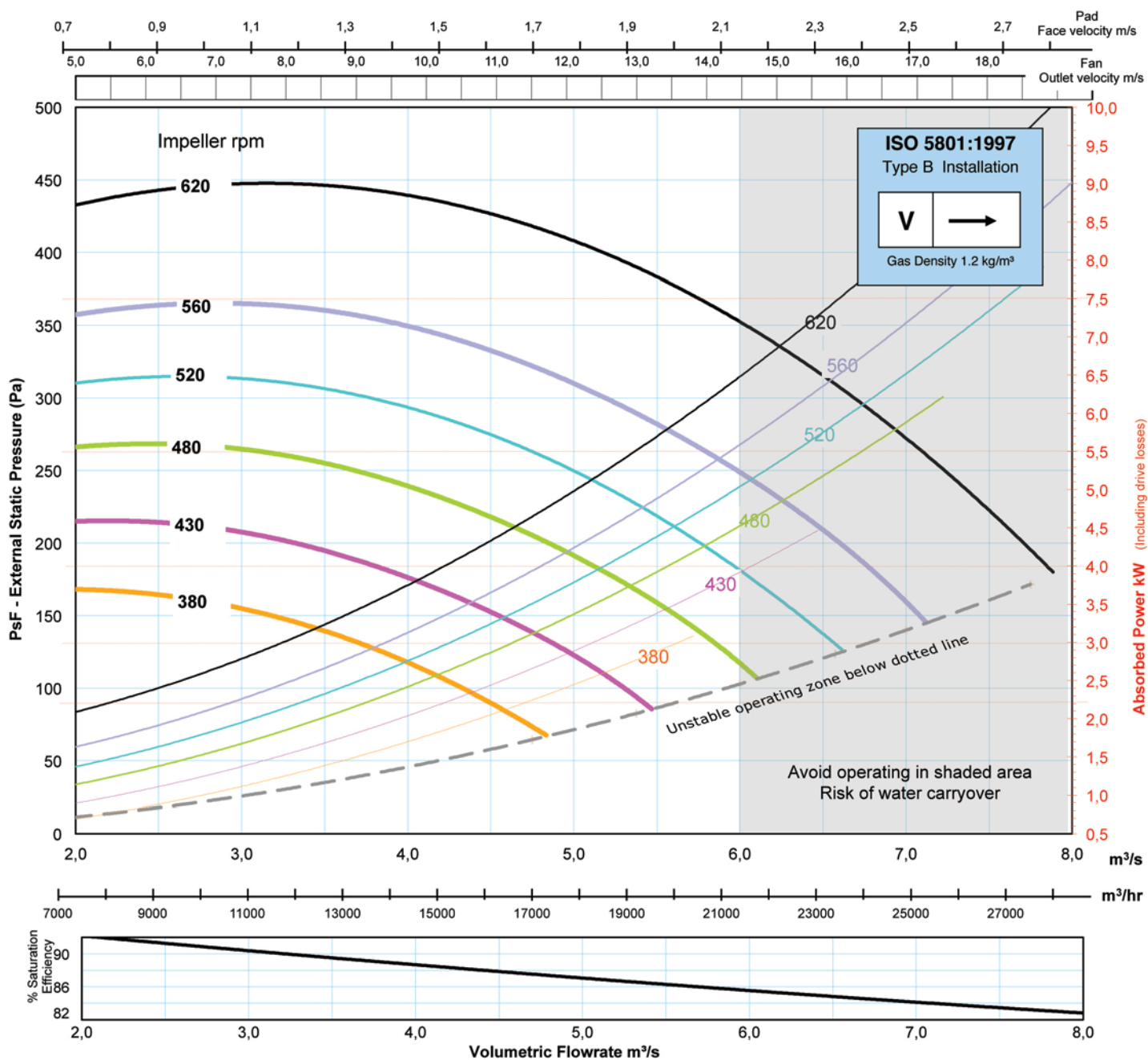
## Evaporative cooler **EC18** Cellpad 3 panel

CFW Model	Fan			Motor			Approx Rated amps	Speed Ratio	SPA No of belts	Belt Length mm	Pump V/A
	RPM	Pulley	Shaft mm	kW	Rpm	C.I.Pulley					
EC 18/380	380	400	25	0,75	1420	106	2,20	3,77	1	1800	230/0.6
EC 18/430	430	315	25	1,10	1430	95	2,75	3,32	1	1600	230/0.6
EC 18/480	480	315	25	1,50	1430	106	3,70	2,97	1	1600	230/0.6
EC 18/515	515	250	25	2,20	1430	90	5,10	2,78	1	1500	230/0.6
EC 18/565	565	315	25	3,00	1430	125	6,90	2,52	2	1800	230/0.6
EC 18/605	605	250	25	3,00	1430	106	6,90	2,36	2	1500	230/0.6
Aluminium	Cast Iron										



TECHNICAL DATA

Evaporative cooler **EC22** Cellpad 3 panel



CFW Model	RFM	Fan Pulley	Shaft mm	kW	Motor Rpm	C.I. Pulley	Approx Rated amps	Speed Ratio	SPA No of belts	Belt Length mm	Pump V/A
EC 22/390	390	400	35	3,0	1420	106	3,56	3,77	1	2240	230/0.6
EC 22/435	435	400	35	4,0	1430	118	4,96	3,39	1	2240	230/0.6
EC 22/480	480	400	35	5,5	1430	132	6,8	3,03	1	2240	230/0.6
EC 22/520	520	400	35	5,5	1430	140	8,7	2,86	1	2240	230/0.6
EC 22/570	570	400	35	5,5	1470	150	12	2,67	2	2240	230/0.6
EC 22/610	610	315	35	7,5	1470	132	16,5	2,39	2	2120	230/0.6
Aluminium	Cast Iron										

Due to continuous efforts to improve our products the right is reserved to supply products which may differ from those illustrated in this publication. Certified dimensions will be supplied on request on receipt of order.

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