convair®

Delivering high performance evaporative cooling at unbelievable value

CVQ1100 Series

Tornado® water pump

Designed, manufactured and tested by Seeley International and manufactured with materials that are built to last, the Tornado pump epitomises reliability.

The encapsulated motor has overload cut-out, stainless steel shafts and bearings 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.

Venturi fan

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

Water management system

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 bleed funnel ensures optimum machine life with minimum maintenance by constantly checking water quality.

Chillcel™ high efficiency pads

Made from organic paper materials, cleverly manufactured into honeycomb panels, Seeley International's Chillcel pads have excellent structural and cooling strength that lasts for up to seven years.

Totally enclosed motor

Convair's fan motor is fully enclosed to international standards and excludes any moisture ingress from all sources.

Permatuf™ corrosion-proof cabinet

UV stabilised structural polymer material as used in some space satellites means the cabinet will not corrode or rust.

Digital Smartbox™/ control power module

A state-of-the-art digital electronic control for optimum performance. The Smartbox monitors and controls all of the cooler's features to provide ultimate comfort conditions. The module also incorporates diagnostic features and memory with several user choices to set up your preferred environment.

Thermostat control

Operate one cooler from an easy to use, wall mounted controller. The controller comes with 20m wiring loom.

sales@liftair.co.za

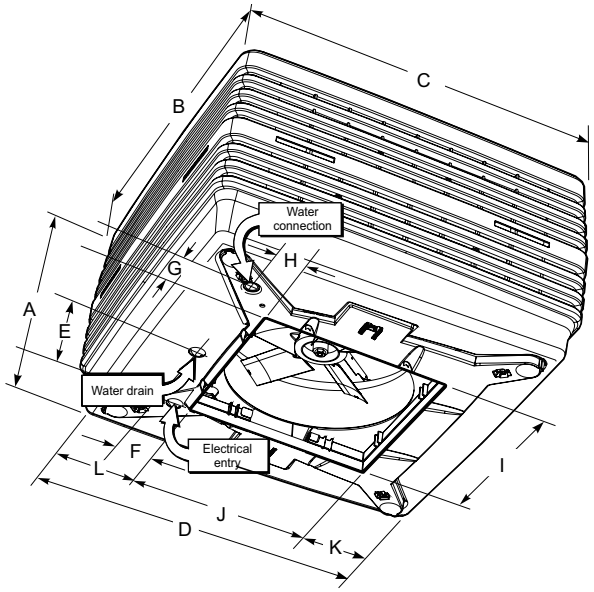
convair®

TECHNICAL SPECIFICATIONS

Airflow @ 80Pa	(L/s)	2370
	(m^3/h)	8530
Cooling capacity*	(kW)	9.9
Power consumption (total)	Max (Watts)	1090
	Current - Rated (A)	5.7
	Energy Efficiency Ratio	9.08
Power supply	Voltage / Phases / Hz	220-240 / 1 / 50
Controller	Type	Digital
Fan	Type	Axial
	Dia (mm)	541
	Pitch (degrees)	35
Motor	Type	PSC
	Speed Max (rpm)	1350 VAR
	Output Max (Watts)	750
	Overload & Fuse	Auto reset & 'one shot' fuse
	Enclosure Rating	IP54
Pump	Type	Centrifugal
	Motor	Synchronous
	Power - rated (Watts)	25
	Flow rate (L/min)	21
	Voltage / Phases / Hz	230 / 1 / 50
	Overload	Auto reset
	Enclosure Rating	IPX4
Cooling pad Chillcel	Size (mm)	850 x 526 (H) x 75 (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 / 1½" male BSP
Shipping	Dimensions including pallet (mm)	1150 x 1150 x 902 (H)
	Volume (m^3)	1.2
	Mass (kg)	59
	Operating (kg)	81
Connecting duct (raw edged)	Length x width (mm)	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.

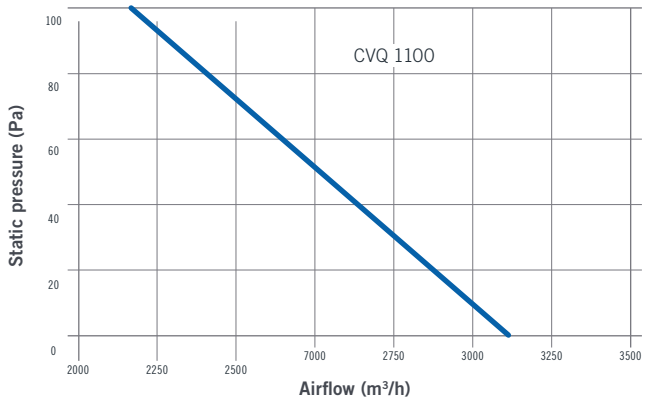
CABINET DETAILS



Model#	A	B	C	D	E	F	G	H	I	J	K	L
CVQ1100	835 (32.9)	1150 (45.3)	1150 (45.3)	1080 (42.5)	275 (10.8)	95 (3.7)	82 (3.2)	82 (3.2)	555 (21.85)	555 (21.85)	249 (9.8)	279 (11.0)

Note: Dimensions are in mm (in).

FAN CURVES



Model#	Industry STD Rating m³/h @ 80Pa	Motor W	Certified Air Delivery (m³/h) (static pressure Pa)					
			0	20	40	60	80	100
CVQ1100	8530	750	11050	10480	9900	9220	8530	7850

COOLER DISCHARGE AIR TEMPERATURE CHART

Ambient Dry Bulb Temperature °C	Ambient Relative Humidity %								
	10	20	30	40	50	60	70	80	90
10	3.0	3.9	4.7	5.5	6.3	7.1	7.9	8.6	9.3
15	6.5	7.6	8.6	9.6	10.6	11.6	12.5	13.3	14.2
20	9.8	11.2	12.5	13.7	14.9	16.0	17.1	18.2	19.1
25	13.1	14.8	16.3	17.8	19.2	20.5	21.7	22.8	24.0
30	16.3	18.3	20.2	21.9	23.5	24.9	26.3	27.6	28.8
35	19.4	21.8	24.0	26.0	27.8	29.4	31.0	32.4	33.7
40	22.6	25.3	27.8	30.1	32.1	33.9	35.6	37.2	38.6
45	25.5	28.8	31.7	34.2	36.4	38.5	40.3	42.0	43.5
50	28.6	32.4	35.6	38.4	40.8	43.0	45.0	46.8	48.5

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

Liftair Solutuions CC

website: www.liftair.co.za
e-mail: sales@liftair.co.za
tel: 011 435 5171