SEELEY INTERNATIONAL

coolair By SEELEY INTERNATIONAL

# TECHNICAL SPECIFICATIONS - CPQ1100X

## GENERAL SPECIFICATIONS:

### CABINET and WATER RESERVOIR
The cabinet and water reservoir components are injection moulded structural foam polypropylene (Permatuf®). The cabinet and reservoir are UV stabilised and corrosion free. The major components clip together without additional fasteners. The pump is secured with two stainless steel screws.

### FAN
The fan is a multi blade assembly constructed of glass reinforced polypropylene. The blades are aerofoil shaped. The fan is mounted to the motor shaft by means of a screw-on collet.

### FAN MOTORS
Single phase, permanent split capacitor (P.S.C.) motors, with die-cast fully enclosed aluminium frame. IP24 rating enclosures designed to AS60034. The motor and fan assembly are supported on the injection moulded glass reinforced polypropylene venturi ring by the stator blades. The fan motor is fitted with a polarised plug for quick removal and replacement in order to reduce the weight of the assembly for installation.

### WEATHERSEAL
The Weatherseal consists of two semi-circular, polypropylene blades, hinged and counterbalanced, to open automatically when the fan is activated, and to close when the fan is switched off. Latching is by magnets to steel striker plates.

### MAIN CONNECTION DUCT
The main connection duct must incorporate a raw edge or safe edge to avoid fouling of the Weatherseal.

### ELECTRICAL CONTROL
The electrical control box is pre-wired within the cooler.

A 2 metre long power supply cord is supplied as standard on all models. Provision is included for plug-in connection of drain valve and solenoid kits. A 12 amp circuit breaker is fitted to the underside of the enclosure.

### THERMOSTAT CONTROL
All CPQ model coolers are supplied with a MaglQcool thermostat, for full automatic control. Connection of thermostat to control box is via the 20m low voltage wiring loom supplied.

### WATER CONNECTION
Water supply connection is via a flexible connector which is terminated with a 1/2" BSP compression nipple. An isolating valve must be fitted adjacent to the cooler for service. A drain-down facility is required in areas subject to freezing.

The patented water distribution system is an integral part of the lid, and can be readily viewed from the top by removing the pad frame assembly.

### COOLING PADS
Cooling filter pads are Chillcel® fabricated, honeycomb, high efficiency type.

### SPECIAL FEATURES
CPQ Coolers are available in "Slate Grey" colour.

## AIR FLOW PERFORMANCE SUMMARY

| Model | Airflow L/s ($m^3/h$) @ 80Pa | Motor W | Air Flow - L/s ($m^3/h$) versus Static Pressure (Pa) | | | | |
|---|---|---|---|---|---|---|---|
| | | | 0 | 40 | 80 | 120 | 160 |
| CPQ1100X | 2810 (10120) | 950 | 3200 (11520) | 3010 (10840) | 2810 (10120) | 2520 (9070) | 2200 (7920) |

It is a policy of Seeley International to introduce continual product improvement. Accordingly specifications are subject to change without notice.

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| Specification | | CPQ1100X |
|---|---|---|
| Airflow @ 80Pa | (L/s) | 2810 |
| | ($m^3/h$) | 10120 |
| Cooling Capacity* | (kW) | 14.1 |
| Power Consumption (total) | Power Max/Min (W) | 1220 |
| | Current - Rated (A) | 6.0 |
| | Energy Efficiency Ratio (EER) | 11.56 |
| Power Supply | Voltage / Phases / Hz | 220-240/1/50 |
| Controller | Type | Digital |
| Fan | Type | Axial |
| | Diameter - External (mm) | 541 |
| | Capacity | High |
| Motor | Type | PSC |
| | Speed Max (rpm) | 1350 VAR |
| | Output Max (W) | 950 |
| | Capacitor (uF/V) | 30/440 |
| | Overload | Auto Reset & 'one shot' fuse |
| | Enclosure Rating | IP24 |
| Pump | Type | Centrifugal |
| | Motor | Synchronous |
| | Power - rated (W) | 25 |
| | Flow Rate (L/min) | 21 |
| | Voltage / Phases / Hz | 230 / 1 / 50 |
| | Overload | Auto Reset |
| | Enclosure Rating | IPX4 |
| Cooling Pad Chillcel | Size (mm) | 850x526Hx90 (4 pads) |
| | Pad Area ($m^2$) | 1.79 |
| Water | Tank Capacity (L) | 23 |
| | Inlet (mm/inches) | 12.7mm / 1/2" male BSP |
| | Drain (mm/inches) Configurable to local requirements | 40mm / $1^{1/2}$" male BSP |
| Shipping | Dimensions (mm) including pallet | 1150x1150x902H |
| | Volume ($m^3$) | 1.19 |
| | Mass - Shipping (kg) | 68 |
| | Operating (kg) | 91 |
| Connecting Duct (raw edged) | Length & Width (mm) | 550x550 |

* 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.

NATA WORLD RECOGNISED ACCREDITATION

**Air flow performance has been measured in accordance with Australian Standard AS2913:2000 "Evaporative Air Conditioning Equipment" by Meridian Laboratories Pty Ltd**

*Meridian Laboratories is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration. Registration No.: 3697

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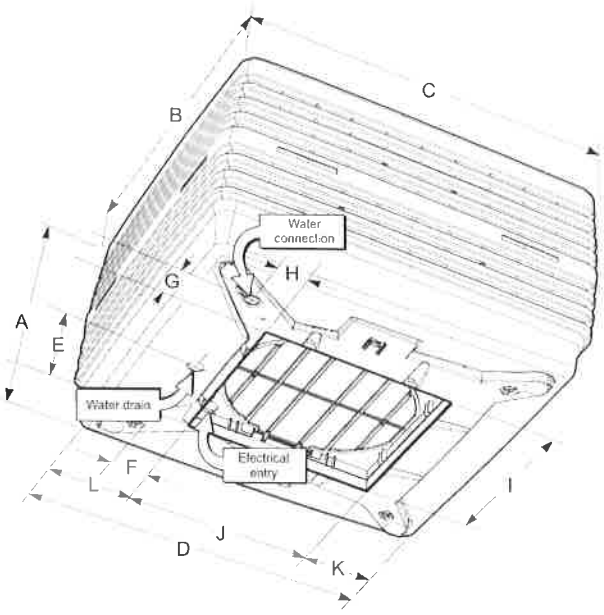


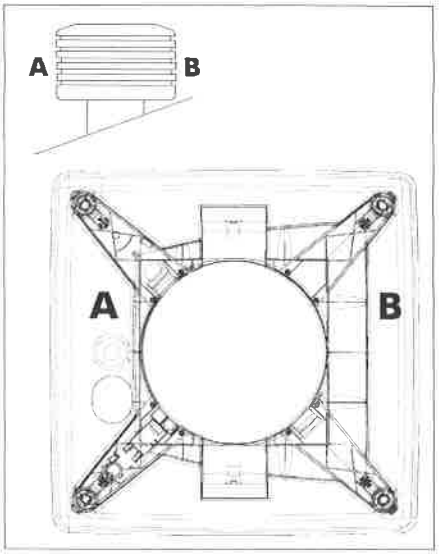


| Model | A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CPQ1100X | 835 (32.9) | 1150 (45.3) | 1150 (45.3) | 1080 (42.5) | 275 (10.8) | 95 (3.7) | 82 (3.2) | 82 (3.2) | 555 (21.85) | 555 (21.85) | 249 (9.8) | 279 (11.0) |

Dimensions are in mm (inches in brackets).