



# **SUBMITTAL DATA SHEET - CTA500**

Job Name:		Location:			
Contractor:		Project Manager:			
Superintendent:		Subcontractor:			
Purchaser:		Order No:			
Engineer:		Project Manager:			
Submitted To:	For:	Approval:	Construction:		
Submitted By:		Submitted By:			
		Mechanical Schedule ID/Tag Number:			

## **Cooling Performance**

Outdoor Design Temp: °F DB °F WB

Elevation Above Sea Level: FT

Supply Air Ext. Static Pressure: IWG Total

Supply Air @ Full Speed: CFM
Supply Air Temperature: °F DB

Supply Air Added Humidity: °F WB

## **Water Specifications**

Water Supply Line Pressure: 35 - 115 PSIG

Inlet Connection: ½" BSP to 3/8" or

1/2" BSP to 1/4"

Drain Connection: 1 1/2" BSP to 3/4" OD Reducer

Water Tank Capacity: 6 gal @ normal max. op. level

## **Optional Features**

Installation / Adaptor Kit\* for Purge Pump\*\*
\* Purge Pump not supplied

\*\* Suitable aftermarket 115V Purge Pumps Dial Power Clean (1540 or 1541) MasterCool CM120 or MCP44

## Standard Features

- Fresh, outside air for better indoor air quality (IAQ).
- No chemical refrigerants or ozone depleting chemicals.
- Low maintenance, simple winterization.
- **✓** Bleed-off Tray controls mineral build up.
- Quiet and vibration free operation.
- Easy to connect power/control wiring.
- Completely enclosed fan motor excludes moisture ingress.
- Black Opal™ Mini-Cell^ Chillcel® Pad technology, 3 year delamination guarantee.
- "Aquaflow" non-clogging water distribution system.
- "Permatuf®" corrosion-proof cabinet and drain pan.
- 10 year corrosion-free cabinet guarantee.
- 10 year structural components guarantee.
- Made in Australia from local and imported parts.
- ETL Listed to Standard for Electric Fans (UL-507).
- 2 year limited warranty.

^ patent pending





# **TECHNICAL SPECIFICATIONS - CTA500**

#### **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.

#### FAN

The fan is a multi blade assembly constructed of glass reinforced polypropylene. The blades are aerofoil shaped. The fan is mounted directly to the motor shaft by means of a set screw.

# **FAN MOTOR**

Single phase, permanent split capacitor (P.S.C.) motor with die-cast fully enclosed aluminium frame. The capacitor is also located on top of the motor. The motor and fan assembly are supported on an injection moulded glass reinforced ABS venturi ring via a glass reinforced polypropylene motor mount.

#### **ELECTRICAL ENCLOSURE**

Fully enclosed DIN rail allows easy connection of preexisting or new wiring. 3 seperate DIN rail mounted fuses for motor and pump protection are supplied and can be easily replaced.

#### WATER CONNECTION

Water supply connection is terminated with a  $\frac{1}{2}$ " BSP to  $\frac{3}{8}$ " or  $\frac{1}{2}$ " BSP to  $\frac{1}{4}$ " compression adapter piece. An isolating valve must be fitted adjacent to the cooler for service. A drain-down facility is required in areas subject to freezing.

The pump is a centrifugal type with encapsulated windings and is an ETL Recognised Component to product standard UL778.

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 Black Opal<sup>™</sup> Mini-Cell<sup>^</sup> Chillcel<sup>®</sup> fabricated, honeycomb, high efficiency type.

#### **SPECIAL FEATURES**

CTA500 coolers are available in "Beige" and are ETL listed to product standard UL507.

^patent pending

# **AIR FLOW PERFORMANCE SUMMARY**

	Industry	Motor		Air Flow (CFM) versus Inch Water Gauge (IWG)						
Model	Standard CFM	(HP)	Speed	0	0.1	0.2	0.3	0.4	0.5	0.6
CTAEOO	9500	1 1/4	High	7070	6780	6460	6120	5740	5340	4890
CTA500 8500	1 1/4	Low	5170	4530	3690	2710	1800	1230	-	

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





# **TECHNICAL SPECIFICATIONS - CTA500**

Specification		CTA500			
Airflow	US Industry Standard (CFM)	8500			
Allilow	Actual @ 0.3 IWG (CFM)	6120			
Cooling Capacity*	BTU/hr	44,020			
Evaporative Efficiency	Percentage (%)	85.0			
Pausa	Power Max (W)	1330			
Power	Current - Rated (A)	14			
Consumption (total)	Energy Efficiency Ratio (EER)	9.7			
Power Supply	Voltage / Phases / Hz	115/1/60			
Controller	Туре	Not Supplied			
For	Туре	Axial			
Fan	Diameter - External (inch)	21.1			
	Туре	PSC - 2 Speed			
	Speed Max (rpm)	1650 / 1250			
	Output Max (HP)	1 1/4			
Motor	Output Max (W)	950			
	Current Max (A)	13 / 6.5			
	Capacitor (uF/V)	60/250			
	Overload	Auto Reset & One Shot Fuse			
	Туре	Centrifugal			
	Motor	Synchronous			
	Power - rated (A)	0.7			
Pump	Flow Rate (gal/min)	5.5			
	Voltage / Phases / Hz	115/1/60			
	Overload	Thermal One Shot Fuse			
	Enclosure Rating	IPX4			
Cooling Pad Chillcel	Size (inch)	33 ½ x 20 <sup>3</sup> / <sub>4</sub> H x 3 ½ (4 pads)			
obbining i au binincei	Pad Area (feet <sup>2</sup> )	19.2			
	Tank Capacity (gal)	6.1			
Water	Inlet (inch)	½" male BSP			
	Drain (inch) Configurable to local requirements	1½" male BSP			
	Dimensions (inch)	45 <sup>1</sup> / <sub>4</sub> x 45 <sup>1</sup> / <sub>4</sub> x 35 <sup>1</sup> / <sub>2</sub> H			
Objection.	including pallet Volume (feet <sup>3</sup> )	42.4			
Shipping	Mass - Shipping (lb)	148			
	Operating (lb)	148			
Oannastina Post	Operating (ib)	21 <sup>5</sup> / <sub>8</sub> x 21 <sup>5</sup> / <sub>8</sub>			
Connecting Duct	Length & Width (inch)	21 -78 X 21 -78 or			
(raw edged)	3 2	19 34 X 19 34 Adaptor			

<sup>\*</sup> Cooling capacity measured to Australian Standard AS2913-2000, ambient of 100.4°F dry bulb & 69.8°F wet bulb, with room exit temperature of 81.3°F.

Model	Model	Speed	Radiated	Total Sound Power						
	Monci	Speeu	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	dB(A) re 1pW
	CTA500	High	57	58	64	70	68	61	53	73



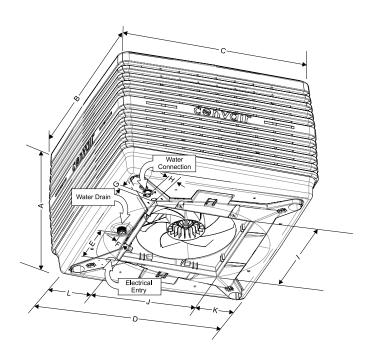
Air flow performance has been measured in accordance with Australian Standard AS2913:2000 "Evaporative Air Conditioning Equipment" by Meridian Laboratories Pty Ltd

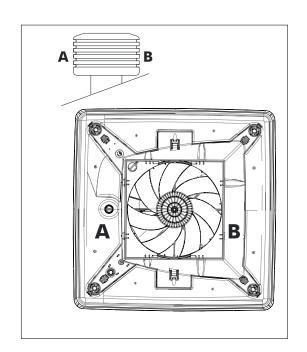
\*Meridian Laboratories is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration. Registration No.: 3697





# **TECHNICAL SPECIFICATIONS - CTA500**





Model	A	В	C	D	E	F	G	Н	I	J	K	L
CTA500	33	45 ¼	45 ¼	42 ½	10 ¾	3 ¾	3 1/4	3 1/4	21 1/8	21 1/8	9 ¾	11

Dimensions are in inches

# FAN CURVE (CFM)

