

SUBMITTAL DATA SHEET - TBSI580

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: 1/2" 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

Standard Features

- Fresh, outside air for better indoor air quality (IAQ).
- No chemical refrigerants or ozone depleting chemicals.
- Low maintenance, simple winterization.
- Water Management System controls mineral build up.
- Quiet and vibration free operation.
- Easy to connect power/control wiring.
- Digital smart box control module for reliable and economical operation.
- Wall mounted MagIQtouch® Controller with 65ft control cable.
- Superstealth™ Fan with "Invertair" inverter variable speed motor.
- Black Opal™ Mini-Cell^ ChillCel® Pad technology, 5 year delamination guarantee.
- "Aquaflow" non-clogging water distribution system.
- "Permatuf®" corrosion-proof cabinet and drain pan.
- 25 year corrosion-free cabinet guarantee.
- 10 year structural components guarantee.
- Auto Weatherseal barometric dampers close when unit is off.
- Corrosion resistant Tornado™ pump for reliable and trouble-free operation.
- Made in Australia from local and imported parts.
- ETL Listed to Standard for Electric Fans (UL-507).
- 3 year limited warranty.

^ patent pending

TECHNICAL SPECIFICATIONS - TBSI580

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 Superstealth 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

The fan motor is a single phase inverter motor, with die-cast fully enclosed aluminium frame. The motor and fan assembly are supported on an injection moulded glass reinforced ABS venturi ring via a glass reinforced polypropylene motor mount. The fan motor is fitted with a polarised plug for quick removal and replacement.

AutoWinterseal™

The AutoWinterseal™ 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 AutoWinterseal™.

ELECTRICAL CONTROL

The electrical control box is pre-wired within the cooler. A 6'7" 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 10 amp anti-surge fuse is fitted to the underside of the enclosure.

THERMOSTAT CONTROL

TBSI model coolers feature the MagIQtouch® Controller, for full automatic control. Connection of the Controller to the control box is via the 65' low voltage cable supplied. Hard wired and RF options available.

WATER CONNECTION

Water supply connection is via a flexible connector which is terminated with a 1/2" BSP to 3/8" or 1/2" BSP to 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™ Mini-Cell^ Chillcel® fabricated, honeycomb, high efficiency type.

SPECIAL FEATURES

Supercool TBSI series coolers are available in "Slate Grey" and are ETL listed to product standard UL507.

^patent pending

AIR FLOW PERFORMANCE SUMMARY

Model	Industry Standard CFM	Motor (HP)	Air Flow (CFM) versus Inch Water Gauge (IWG)						
			0	0.1	0.2	0.3	0.4	0.5	0.6
TBSI580	10000	1 ¼	7200	6990	6780	6480	6120	5740	5360

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

TECHNICAL SPECIFICATIONS - TBSI580

Specification		TBSI580
Airflow	Industry Standard (CFM)	10,000
	Actual @ 0.3 IWG (CFM)	6480
Cooling Capacity*	BTU/hr	62,780
Evaporative Efficiency	Percentage (%)	91.5
Power Consumption (total)	Power Max (W)	1500
	Current - Rated (A)	7.0
	Energy Efficiency Ratio (EER)	12.3
Power Supply	Voltage / Phases / Hz	200-240/1/60
Controller	Type	Digital
Fan	Type	Axial
	Diameter - External (inch)	21.1
Motor	Type	Inverter
	Speed Max (rpm)	1700 VAR
	Output Max (HP)	1 ¼
	Output Max (W)	950
	Current Max (A)	6.3
	Overload	One Shot Fuse
	Enclosure Rating	IP24
Pump	Type	Centrifugal
	Motor	Synchronous
	Power - rated (A)	0.5
	Flow Rate (gal/min)	5.5
	Voltage / Phases / Hz	200-240/1/60
	Overload	Thermal One Shot Fuse
Cooling Pad Chillcel	Size (inch)	33 ½ x 20 ¾ x 4 ¾ (4 pads)
	Pad Area (ft ²)	19.2
Water	Tank Capacity (gal)	6.1
	Inlet (inch)	½" male BSP
	Drain (inch) Configurable to local requirements	1½" male BSP
Shipping	Dimensions (inch) including pallet	45 ¼ x 45 ¼ x 35 ½H
	Volume (ft ³)	42.4
	Mass - Shipping (lb)	157
	Operating (lb)	207
Connecting Duct (raw edged)	Length & Width (inch)	21 ⅝ x 21 ⅝

* 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.

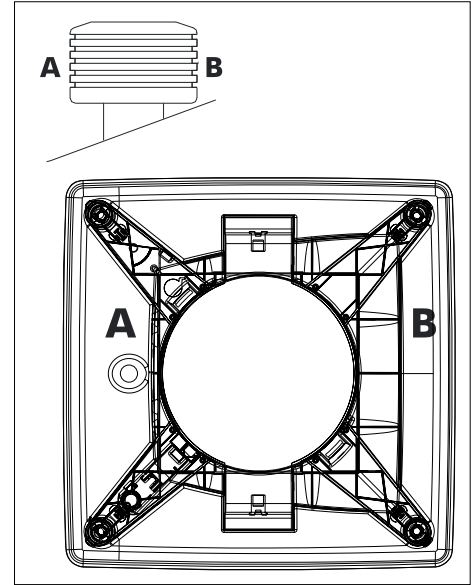
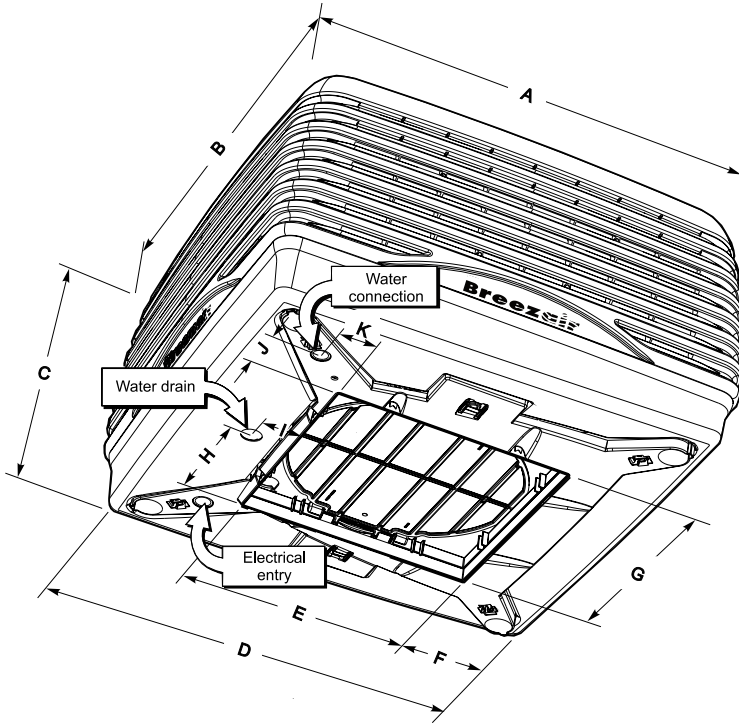
Model	Speed	Radiated Sound Power Level (dB(A) re 1pW) Octave Band Centre Frequency							Total Sound Power dB(A) re 1pW
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
TBSI580	10	58	63	69	71	70	62	52	76



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 - TBSI580



Model	A	B	C	D	E	F	G	H	I	J	K
TBSI580	45 1/4	45 1/4	33	42 1/2	21 7/8	9 3/4	21 7/8	10 3/4	3 3/4	3 1/4	3 1/4

Dimensions are in inches.

FAN CURVE (CFM)

