

The Breezair Supercool TBS Series: now available with increased cooling capacity and the new External Air Sensor

Permatuf™ corrosion-proof cabinet

The Breezair cabinet will not corrode or rust. The UV stabilised structural polymer material is the same type used to make acid baths, battery cases and some space satellite components. Plus, it's designed to blend with any property.

Axial fan

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



Totally enclosed motor

Breezair's fan motor is fully enclosed to international standards and excludes any moisture ingress from all sources. The advanced design is rigorously tested and completely reliable.

NEW BREAKTHROUGH Mini-Cell[^] Chillcel[®] Pad Technology!

Dramatic improvement in cooling efficiency

Revolutionary new Mini-Cell structure provides a new development in cooling technology

New enhanced small cell design, means that the Breezair range boasts a new cutting edge level of cooling capacity – up to 8% more than before.

New pad formulation has resulted in having 25% more surface area dramatically improving cooling efficiency

The only evaporative cooling pads fully manufactured in Australia to suit the harshest climates, and now, the absolute over-performer!

[^]Patent pending

Non-clogging water distribution system

Breezair's non-clogging water distribution is one of the things that make it unique. The water distributor maximises cooling efficiency by supplying a continuous and balanced flow of water across the cooling pads. This is different to any other brand of evaporative coolers, which are subject to water flow variations for a number of reasons. Breezair's balanced flow ensures highest evaporation efficiency and maximum cooling.



MaglQtouch™ BMS Control (optional)

Our coolers are BMS compatible. Please contact your local representative for further option details.



MaglQcool™ Controller (standard)

Operate one cooler from an easy to use, wall mounted thermostat controller. The controller comes with 20 m wiring loom, that can be extended up to a maximum length of 100 m.



Advanced touch screen MaglQtouch™ Controller (optional)

The technology includes in-built Installation Wizard, making the operating process simple. Each cooler comes supplied with a 20 m wiring loom and it may be extended up to a maximum length of 40 m (optional), and to operate up to 135 coolers* from a single MaglQtouch Controller, using optional Link Module and wiring loom - no special controllers required! *Total loom length must be <= 1000 m

AUTOWeatherseal

The AUTOWeatherseal closes the cooler air discharge outlet automatically, thus significantly reducing natural air currents from circulating in and out of the building. The result – a more comfortable and controlled environment.



WATERManager™ system

The Breezair WATERManager ensures optimum machine life with minimum maintenance by constantly checking water quality. 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 WATERManager system senses water quality with a probe that sends a signal back to the electronic module, which then ejects some dirty water and allows fresh water to enter.

Clean and dry function

The cooler drains automatically when it's not in use, preventing algae growth and maintaining a clean cooler.

Tornado® water pump

The perfect pump for the job! The Tornado pump is built to last. Designed, manufactured and tested by Seeley International, the Tornado pump epitomises reliability. It features very safe material choices, an encapsulated motor with overload cut-out, stainless steel shafts and bearings fully protected from water. Plus, it 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.



Digital Smartbox™ / control power module

A state-of-the-art digital electronic control means optimum performance. The Smartbox digital control module monitors and controls all of the cooler's features to provide ultimate comfort conditions, temperature sensing and water quality supervision – completely safely and reliably. The module also incorporates diagnostic features and memory to aid trouble-shooting and minimise downtime. Several user choice parameters are available to allow you to set up your preferred environment.



NEW! External Air Sensor (Optional Extra)

Displays current outside temperature

Intuitively optimises water and energy usage based on outside ambient conditions

Extends the life of your air conditioner by automatically draining the water tank when temperature nears freezing

25 Years
Corrosion-free
cabinets
guarantee

10 Years
Structural
components
guarantee

1 Year
Pump, motor
& electronic control
module guarantee

Technical specifications

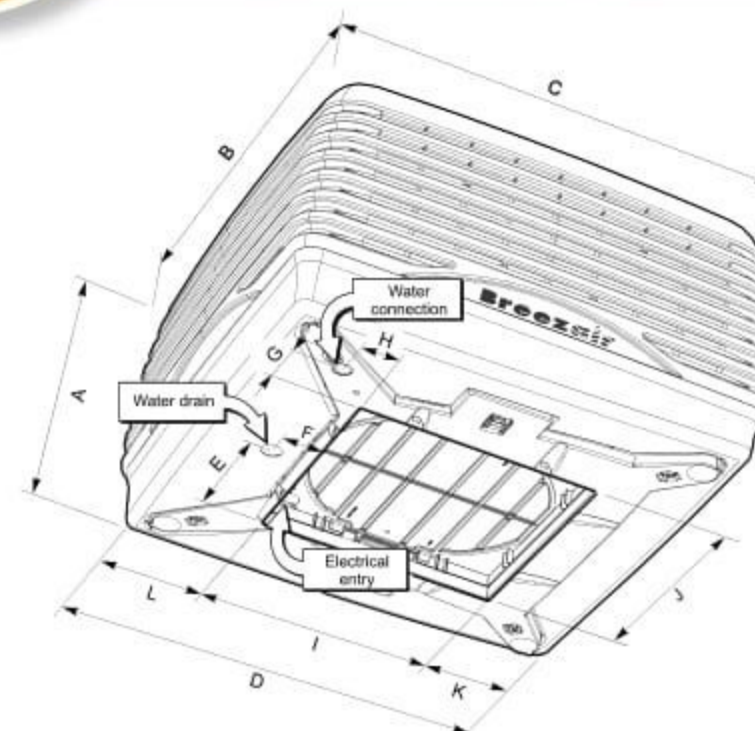
TBS 580

Airflow @ 80Pa	Industry standard (m³/h)	10010
Cooling capacity*	(kW)	16.8
Power consumption (total)	Watts max	1210
	Current max (amp)	6.0
Power supply	Voltage / Phases / Hz	220-240 / 1 / 50
Controller	Type	Digital
Fan	Type	Axial
	Dia (mm)	541
Motor	Type	PSC
	Speed max (rpm)	1350 VAR
	Output Watts max	950
	Overload & Fuse	Auto reset & 'one shot' fuse
Pump	Enclosure	IP24
	Type	Centrifugal
	Motor	Synchronous
	Rating Watts (input)	25
	Flow rate (L/min)	21
	Voltage / Phases / Hz	230 / 1 / 50
New! Cooling pad Mini-Cell Chillcel	Overload	Auto reset
	Enclosure rating	IPX4
Water	Size (mm)	850 x 526 (H) x 120 (4 pads)
	Pad area (m²)	1.79
Shipping	Tank capacity (L)	23
	Inlet (mm / inches)	12.7 / ½" male BSP
Connecting duct (raw edged)	Drain (mm / inches)	40 / 1½" male BSP
	Dimensions including pallet (mm)	1150 x 1150 x 902 (H)
	Volume (m³)	1.19
	Mass (kg)	68
Operating (kg)	91	
	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.



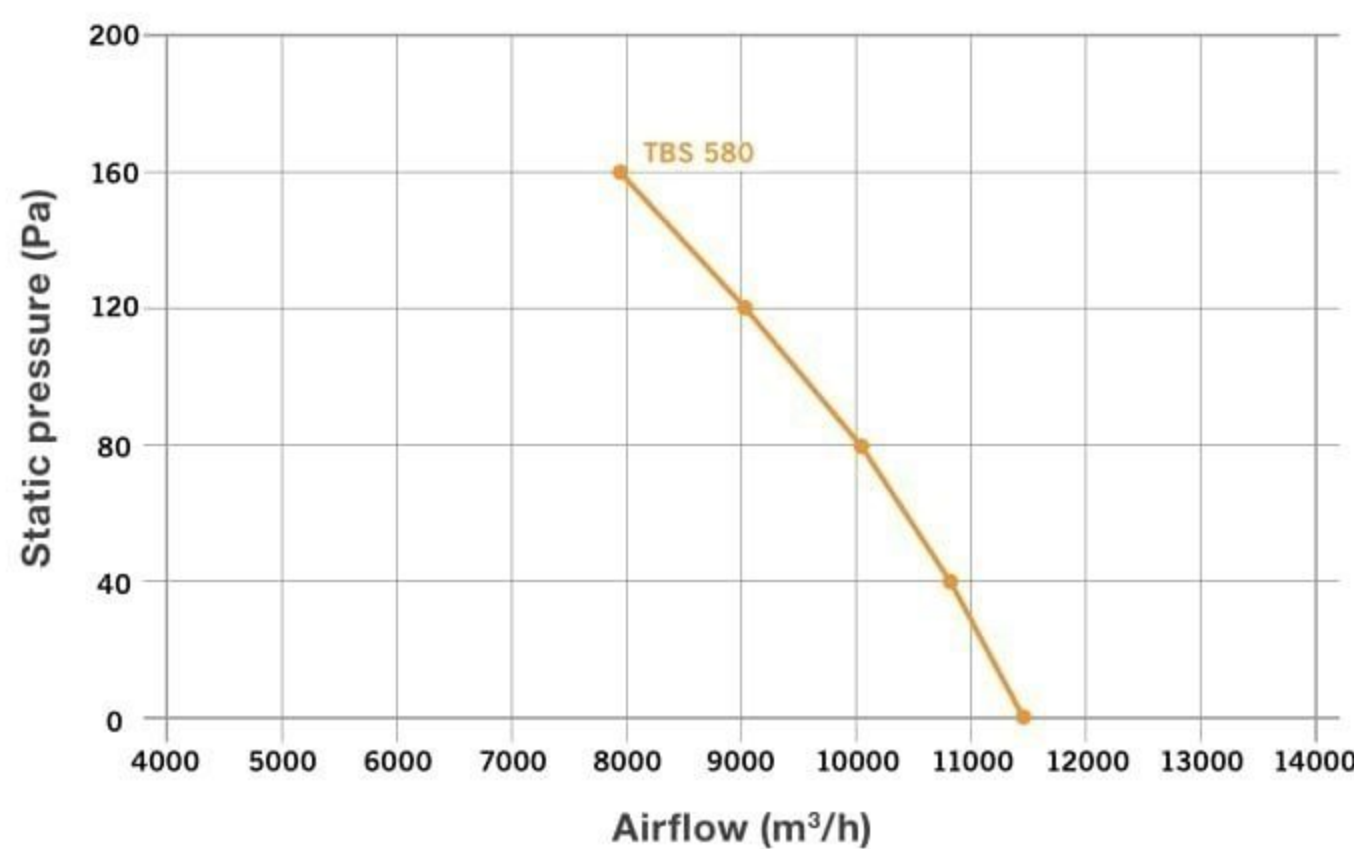
CABINET DETAILS



Model#	A	B	C	D	E	F	G	H	I*	J*	K	L
TBS 580	835	1150	1150	1080	275	95	82	82	555	555	249	279

Note: All dimensions are in mm. *Dropper dimensions

FAN CURVES



Model#	Industry STD Rating m³/h @ 80Pa	Motor W	Certified Air Delivery (m³/h) (static pressure Pa)				
			0	40	80	120	160
TBS 580	10010	950	11410	10800	10010	9070	7960

Cooler Discharge Air Temperature Chart

Ambient Dry Bulb Temperature °C	Ambient Relative Humidity %								
	10	20	30	40	50	60	70	80	90
10	2.3	3.2	4.2	5.1	6.0	6.8	7.6	8.4	9.2
15	5.6	6.8	8.0	9.1	10.2	11.2	12.2	13.2	14.1
20	8.8	10.3	11.7	13.1	14.4	15.6	16.8	18.0	19.0
25	11.9	13.7	15.4	17.0	18.6	20.0	21.3	22.6	23.8
30	14.8	17.1	19.1	21.0	22.8	24.4	25.9	27.4	28.7
35	17.8	20.4	22.8	25.0	27.0	28.8	30.5	32.1	33.6
40	20.7	23.8	26.6	29.0	31.3	33.3	35.2	36.9	38.5
45	23.5	27.1	30.3	33.1	35.5	37.8	39.8	41.7	43.4
50	26.3	30.5	34.1	37.1	39.9	42.3	44.5	46.5	48.3

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

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