

TBA 550

The Breezair TBA Series: quiet cooling, optimum efficiency and unsurpassed reliability

Breezair units feature advanced technology and a range of unique and clever design features that combine to achieve incredible cooling performance.

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.



Thermostat control

Operate one cooler from an easy to use, wall mounted thermostat controller. Each cooler comes with 20m wiring loom and it can be extended up to a maximum length of 40 m (optional).



Industrial wall control (optional accessory)

The IWC can handle up to 10 smart hubs and control up to 41 Breezair coolers. The IWC identifies any faulty cooler in a group and provides comprehensive fault diagnostics enabling any cooler in a multi cooler installation to be quickly identified and repaired. The IWC10 may also be set up to control Breezair cooler from EXTERNAL devices, such as PLCs and Building Management Systems (BMS).



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.

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 13% 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.



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.



TBA 550

Technical specifications

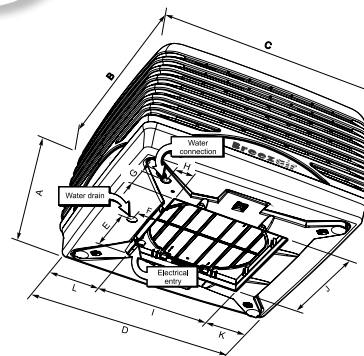
TBA 550

Airflow @ 80Pa	Industry standard (m³/h)	10120
Cooling capacity*	(kW)	14.1
Power consumption (total)	Watts max / min	1220 / 400
	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
	Output Watts max	950
	Overload & Fuse	Auto reset & 'one shot' fuse
	Enclosure	IP24
Pump	Type	Centrifugal
	Motor	Synchronous
	Rating Watts (input)	25
	Flow rate (L/min)	21
	Voltage / Phases / Hz	230 / 1 / 50
	Overload	Auto reset
New! Cooling pad Mini-Cell Chillcel	Size (mm)	850 x 526 (H) x 90 (4 pads)
	Pad area (m²)	1.79
	Tank capacity (L)	23
Water	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 (m³)	1.19
	Mass (kg)	68
	Operating (kg)	91
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.

NEW!
INCREASED
COOLING
CAPACITY

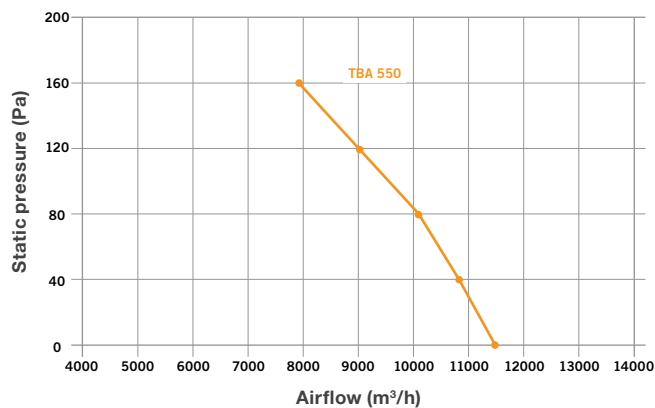
CABINET DETAILS



Model#	A	B	C	D	E	F	G	H	I*	J*	K	L
TBA 550	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
TBA 550	10120	950	11520	10840	10120	9070	7920

Cooler Discharge Air Temperature Chart

Ambient Dry Bulb Temperature °C	Ambient Relative Humidity %								
	10	20	30	40	50	60	70	80	90
10	2.7	3.6	4.5	5.3	6.2	7.0	7.8	8.5	9.3
15	6.1	7.3	8.4	9.4	10.4	11.4	12.4	13.3	14.1
20	9.4	10.8	12.2	13.5	14.7	15.8	17.0	18.1	19.0
25	12.6	14.3	16.0	17.5	18.9	20.3	21.5	22.8	23.9
30	15.7	17.8	19.7	21.5	23.2	24.7	26.2	27.5	28.8
35	18.7	21.2	23.5	25.6	27.4	29.2	30.8	32.3	33.7
40	21.8	24.7	27.3	29.6	31.7	33.7	35.4	37.1	38.6
45	24.7	28.1	31.1	33.7	36.1	38.2	40.1	41.9	43.5
50	27.6	31.6	35.0	37.8	40.4	42.7	44.8	46.7	48.4

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

breezair.com

eurosales@seeleyinternational.com

Seeley International UK

Unit 11 Byron Business Centre
Duke Street
Hucknall Nottingham
NG15 7HP United Kingdom
Phone +44 (0)115 9635630

Seeley International France

320 avenue Berthelot
69371 Lyon cedex 08
France
Phone +33 (0) 472 7847 80

Seeley International Italy

Loc. Policiano 72M
52100 Arezzo Italy
Phone: +39 (0) 575 97189

