Breezair®
NUMBER ONE IN NATURAL COOLING

Supercool **EXS 220**

25 Years Corrosion-free cabinets guarantee

10 Years Structural components guarantee

2 Years Pump, motor & electronic control module guarantee

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

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.

MagIQtouch™ BMS Control (optional)

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

Advanced touch screen MagIQtouch™ 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 MagIQtouch Controller, using optional Link Module and wiring loom - no special controllers required! *Total loom length must be <= 1000 m

MagIQcool™ 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.

Centrifugal fan

Centrifugal fans are the first choice of air conditioning engineers worldwide. The Breezair forward curved, centrifugal fans are made from injection-molded polypropylene.

They are double-width, inherently statically and dynamically balanced, with aerofoil blades to provide high pressure performance and very low noise levels.

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.

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 7% 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

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.

HushPower® direct drive (ECM) motor

Exclusive to Breezair, this motor is super efficient and electronically controlled for optimum efficiency. Corrosion resistant, it's the quietest motor available and has unsurpassed reliability, reduced energy use and runs at variable speeds.

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.

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.

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

AUSTRALIAN MADE & OWNED

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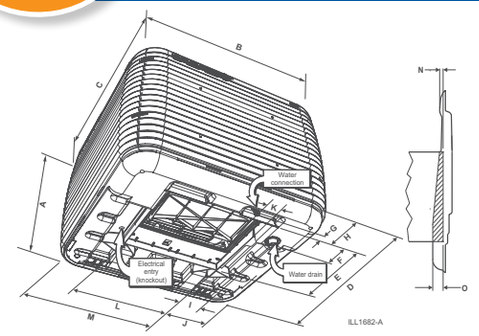
Technical specifications

		EXS 220
Airflow @ 80Pa	Industry standard (m^3/h)	9140
Cooling capacity*	**(kW)**	**15.1**
Power consumption (total)	Watts max / min	1860 / 70
	Current max (amp)	9.0
Power supply	Voltage / Phases / Hz	220-240 / 1 / 50
Controller	Type	Digital
Fan	Type	Centrifugal
	Dia x width (mm)	460 x 380
Motor	Type	Direct drive inverter
	Speed max (rpm)	680 VAR
	Output Watts max	1500
	Overload & Fuse	Auto reset
	Enclosure	IP2X
Pump	Type	Centrifugal
	Motor	Synchronous
	Rating Watts (input)	25
	Flow rate (L/min)	21
	Voltage / Phases / Hz	230 / 1 / 50
	Overload	Auto reset
	Enclosure rating	IPX4
Cooling pad Chillcel	Size (mm)	800 x 635 (H) x 120 (4 pads)
	Pad area (m^2)	2.03
Water	Tank capacity (L)	11
	Inlet (mm / inches)	12.7 / ½" male BSP
	Drain (mm / inches)	40 / 1½" male BSP
Shipping	Dimensions including pallet (mm)	1160 x 1160 x 955 (H)
	Volume (m^3)	1.29
	Mass (kg)	87
	Operating (kg)	94
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

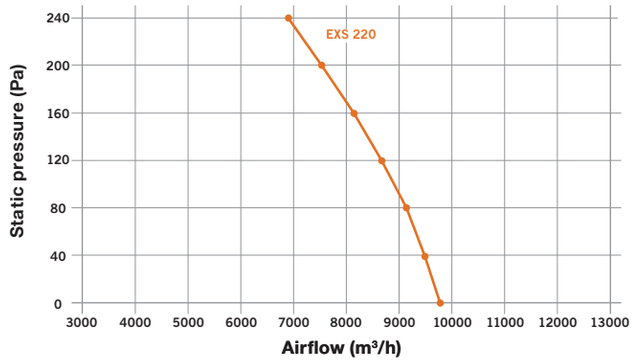
CABINET DETAILS



Model#	A	B	C	D	E*	F	G	H	I	J	K	L*	M	N	O
EXS 220	860	1160	1160	1108	555	109	38	182	81	274	118	555	834	38	84

Note: All dimensions are in mm. *Dropper dimensions

FAN CURVE



Model#	Industry STD Rating m^3/h @ 80Pa	Motor W	Certified Air Delivery (m^3/h) (static pressure Pa)						
			0	40	80	120	160	200	240
EXS 220	9140	1500	9790	9500	9140	8680	8140	7560	6910

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	3.3	4.2	5.1	6.0	6.8	7.7	8.5	9.2
15	5.6	6.9	8.0	9.1	10.2	11.2	12.2	13.2	14.1
20	8.8	10.3	11.8	13.1	14.4	15.6	16.8	18.0	19.0
25	11.9	13.8	15.5	17.1	18.6	20.0	21.4	22.6	23.9
30	14.9	17.2	19.2	21.1	22.8	24.4	26.0	27.4	28.7
35	17.9	20.5	22.9	25.1	27.1	28.9	30.6	32.1	33.6
40	20.8	23.9	26.6	29.1	31.3	33.3	35.2	36.9	38.5
45	23.6	27.2	30.4	33.1	35.6	37.8	39.8	41.7	43.4
50	26.5	30.6	34.2	37.2	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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