

Icon EXQ 130, EXQ170 & EXQ210

The Breezair Icon EXQ Series: the world's quietest evaporative cooler

Breezair's Icon series boasts the most advanced features available in evaporative coolers. It's led the market in its class for many years – and still remains the most efficient and quietest available.

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.

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.



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 17% more than before, for the highest efficiency models

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

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.



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.



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.



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

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.



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 troubleshooting and minimise downtime. Several user choice parameters are available to allow you to set up your preferred environment.



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.



Icon EXQ 130, EXQ170 & EXQ210

Technical specifications

		EXQ 130	EXQ 170	EXQ 210
Airflow @ 80Pa	(m³/h)	4680	7450	9140
Cooling capacity*	(kW)	7.6	11.6	13.5
Power consumption (total)	Watts max / min	760 / 70	1220 / 70	1870 / 70
	Current max (amp)	3.6	5.8	9.0
Power supply	Voltage / Phases / Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
	Type	Digital	Digital	Digital
Fan	Type	Centrifugal	Centrifugal	Centrifugal
	Dia x width (mm)	380 x 380	460 x 380	460 x 380
Motor	Type	Direct drive inverter	Direct drive inverter	Direct drive inverter
	Speed max (rpm)	640 VAR	510 VAR	680 VAR
	Output Watts max	500	750	1500
	Overload & Fuse	Auto reset	Auto reset	Auto reset
	Enclosure	IP2X	IP2X	IP2X
Pump	Type	Centrifugal	Centrifugal	Centrifugal
	Motor	Synchronous	Synchronous	Synchronous
	Rating Watts (input)	25	25	25
	Flow rate (L/min)	21	21	21
	Voltage / Phases / Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Cooling pad Chillcel	Size (mm)	800 x 436 (H) x 90 (4 pads)	800 x 635 (H) x 90 (4 pads)	800 x 635 (H) x 90 (2 pads) 800 x 635 (H) x 100 (2 pads)
	Pad area (m²)	1.40	2.03	2.03
Water	Tank capacity (L)	11	11	11
	Inlet (mm / inches)	12.7 / ½" male BSP	12.7 / ½" male BSP	12.7 / ½" male BSP
Shipping	Dimensions including pallet (mm)	1160 x 1160 x 775 (H)	1160 x 1160 x 955 (H)	1160 x 1160 x 955 (H)
	Volume (m³)	1.02	1.29	1.29
Connecting duct (raw edged)	Length x width (mm)	550 x 550	550 x 550	550 x 550
	Colour	Beige, Grey and Limited Red (Terracotta)	Beige and Grey	Beige, Grey and Limited Red (Terracotta)

*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.

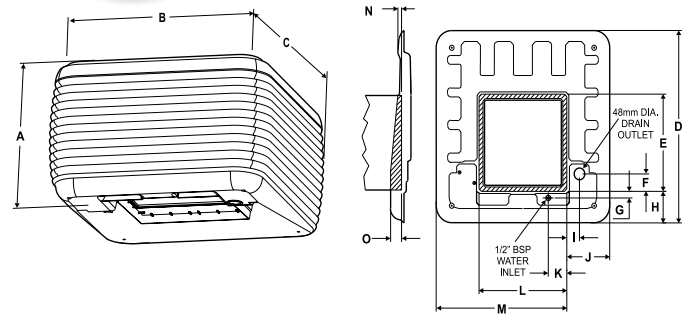


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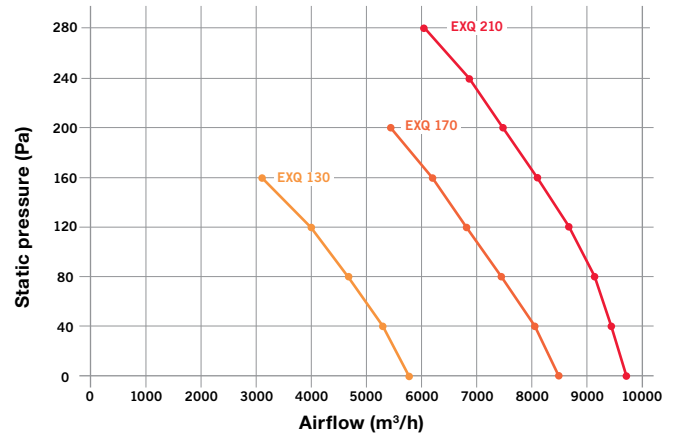
CABINET DETAILS



Model#	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
EXQ 130	660	1160	1160	1108	555	109	38	182	81	274	118	555	834	38	84
EXQ 170	860	1160	1160	1108	555	109	38	182	81	274	118	555	834	38	84
EXQ 210															

Note: All dimensions are in mm.

FAN CURVES



Model#	Industry STD Rating m³/h @ 80Pa	Certified Air Delivery (m³/h) (static pressure Pa)							
		0	40	80	120	160	200	240	280
EXQ 130	4680	5800	5290	4680	4000	3100	-	-	-
EXQ 170	7450	8500	8030	7450	6800	6190	5440	-	-
EXQ 210	9140	9720	9470	9140	8680	8100	7520	6880	6080

Cooler Discharge Air Temperature Chart

Ambient Dry Bulb Temperature °C	Ambient Relative Humidity %								
	10	20	30	40	50	60	70	80	90
10	2.6	3.5	4.4	5.3	6.1	6.9	7.7	8.5	9.3
15	6.0	7.1	8.3	9.3	10.4	11.4	12.3	13.2	14.1
20	9.2	10.7	12.0	13.4	14.6	15.8	16.9	18.1	19.0
25	12.4	14.2	15.8	17.4	18.8	20.2	21.5	22.7	23.9
30	15.4	17.6	19.6	21.4	23.1	24.6	26.1	27.5	28.8
35	18.4	21.0	23.3	25.4	27.3	29.1	30.7	32.2	33.7
40	21.5	24.4	27.1	29.5	31.6	33.6	35.4	37.0	38.6
45	24.3	27.8	30.9	33.5	35.9	38.1	40.0	41.8	43.5
50	27.3	31.3	34.7	37.7	40.3	42.6	44.7	46.6	48.4

This chart represents approximate air temperatures based on cooling performance at sea level for the EXQ 210. From tests carried out to Australian Standard 2913.

