

Commercial and Industrial Cooling

World-leading evaporative cooling technology





Why Breezair?

How evaporative air cooling works

The beauty of evaporative air conditioning is its simplicity. It's a process that's been used throughout history – thousands of years ago, the Arabs hung wet blankets in the entrances to their tents, while the Greeks placed terracotta pots filled with water in their doorways.

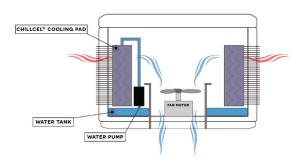
Evaporative air conditioning takes advantage of this natural process. Each Breezair cooler contains large cooling pads, which are soaked with water. Hot ambient (outside) air is

drawn through the cooler with a quiet but powerful fan.

As the hot air passes through the wet pads, the water absorbs some of the heat as it evaporates. The beautifully cooled, fresh air is then delivered into the building.

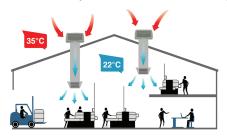
Natural evaporation cools the air, while the pads filter out dust, pollen and other contaminants. The result: cooler, cleaner, fresher air, without using fluorocarbons or potentially toxic chemicals.

1. Hot outside air is pumped through water-soaked pads



2. As the air blows through the pads water is evaporated and the heat in the air is absorbed

3. This lowers the temperature of the air, which is then pushed to the whole building





FOR COMMERCIAL & INDUSTRIAL SPACES

Evaporative cooling is fast becoming the only viable option for cooling large areas. Traditional A/C systems are often not an option, due to the high capital and running costs.



100% FRESH, NOT RECIRCULATING AIR

Traditional A/C systems rely on recirculating the air inside the building, which in industrial spaces can be full of fumes and germes. Evaporative cooling always use fresh air from outside.



GREEN TECHNOLOGY

Evaporative cooling systems contain no harmful synthetic refrigerants. Compare this to refrigerated systems which use potent greenhouse gases like hydro fluorocarbons or chlorofluorocarbons, which deplete the ozone layer.



SAVING ON RUNNING COSTS

A Breezair system uses up to 87% less energy than refrigerated air conditioning systems. The only power-consuming components of an evaporative cooler are the fan and a water pump.



EASY TO MAINTAIN AND INSTALL

With no compressor installed and not using chemical refrigerants to cool the air, Breezair evaporative coolers are simple to install and even easier to maintain.



ONLY WATER USED

Evaporative coolers only use water and electricity to run. 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.



Breezair Supercool™ TBS 580

Optimum efficiency and unsurpassed reliability

Technical Specifications

TBS 580

		103 300
Airflow @ 80Pa	Industry standard	10010 m³/h 5890 cfm
Cooling capacity*	kW	16.8
Power consumption	Watts max	1210
(total)	Current max (amp)	6.0
Power supply	Voltage / Phases / Hz	220-240 / 1 / 50
Controller	Туре	Digital
Fan	Туре	Axial
	Dia (mm)	541
Motor	Туре	PSC
	Speed max (rpm)	1350 VAR
	Output Watts max	950
	Overload	Auto reset & "one shot" fuse
	Enclosure	IP24
Pump	Туре	Centrifugal
	Motor	Synchronous
	Power - rated (A)	0.25
	Flow rate (L/min)	21
	Voltage / Phases / Hz	230 / 1 / 50
	Overload	Thermal One Shot Fuse
	Enclosure rating	IPX4
Cooling pad Chillcel™	Size (mm)	850 x 526 (H) x 120 (4 pads)
	Pad area (m²)	1.79
Water	Tank capacity (L)	23
	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.

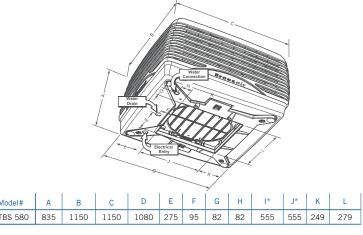
Cooler Discharge Air Temperature Chart

		Ambient Relative Humidity %									
		10	20	30	40	50	60	70	80	90	
Bulb ° C	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	
Dry E	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	
oier mp(35	17.8	20.4	22.8	25.0	27.0	28.8	30.5	32.1	33.6	
Ambient Temper	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 90% saturation efficiency at sea level. From tests carried out to Australian Standard 2913.



CARINET DETAILS



Note: All dimensions are in mm *Dropper dimension

FAN CURVE



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

Breezair Supercool™ SuperStealth™ TBSI 580

World's first high performance inverter axial evaporative cooler

Technical Specifications

TBSI 580

Airflow @ 80Pa	Industry standard	10910 m ³ /h 6420 cfm
Casling conseitut	kW	18.4
Cooling capacity* Power consumption	Watts max	1500
(total)	Current max (amp)	7.0
*****	1 11	220-240 / 1 / 50
Power supply Controller	Voltage / Phases / Hz	
	Туре	Digital
Fan	Туре	Axial
	Dia (mm)	534
Motor	Туре	Inverter
	Speed max (rpm)	1700 VAR
	Output Watts max	950
	Overload	Two "One shot" fuse
	Enclosure	IP24
Pump	Туре	Centrifugal
	Motor	Synchronous
	Power - rated (A)	0.25
	Flow rate (L/min)	21
	Voltage / Phases / Hz	230 / 1 / 50
	Overload	Thermal One Shot Fuse
	Enclosure rating	IPX4
Cooling pad Chillcel™	Size (mm)	850 x 526 (H) x 120 (4 pads)
	Pad area (m²)	1.79
Water	Tank capacity (L)	23
	Inlet (mm / inches)	12.7 / ½ male BSP
	Drain (mm / inches)	40 / 1½ male BSP
Shipping	Dimensions	1150 x 1150 x 902
	including pallet (mm)	(H)
	Volume (m³)	1.19
	Mass (kg)	71
	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 .

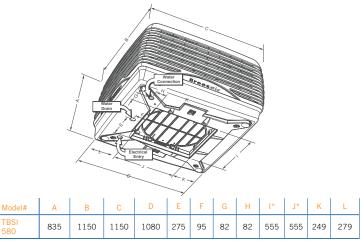
Cooler Discharge Air Temperature Chart

		Ambient Relative Humidity %												
		10 20 30 40 50 60 70 80												
	10	2.2	3.2	4.2	5.1	5.9	6.8	7.6	8.4	9.2				
Ambient Dry Bulb Temperature °	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	11.8	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				
ry B	35	17.7	20.4	22.8	25.0	27.0	28.8	30.5	32.1	33.6				
i E	40	20.7	23.7	26.5	29.0	31.2	33.3	35.2	36.9	38.5				
mbie	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	39.8	42.2	44.5	46.4	48.3				

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

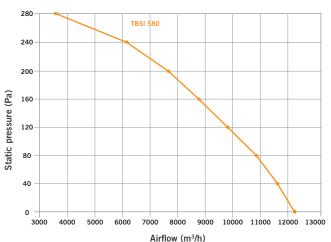


CARINET DETAILS



Note: All dimensions are in mm *Dropper dimensions

FAN CURVE



	Industry STD Rating m ³ /h	Motor		Certified Air Delivery (m³/h) (static pressure Pa)								
Model#	@ 80Pa									280		
TBSI 580	10910	950	12240	11660	10910	9860	8820	7700	6160	3600		



Breezair Icon[®] Supercool[™] EXS 220

Centrifugal fan for quiet cooling

Technical Specifications

EXS 220

		LAO ZZO
Airflow @ 80Pa	Industry standard	9140 m³/h 5380 cfm
Cooling capacity*	kW	15.1
Power consumption	Watts max	1860
(total)	Current max (amp)	9.0
Power supply	Voltage / Phases / Hz	220-240 / 1 / 50
Controller	Туре	Digital
Fan	Туре	Centrifugal
	Dia x width (mm)	460 x 380
Motor	Туре	Centrifugal
	Speed max (rpm)	680 VAR
	Output Watts max	1500
	Overload	Auto reset
	Enclosure	IP2X
Pump	Туре	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 (m²)	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 (m³)	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.

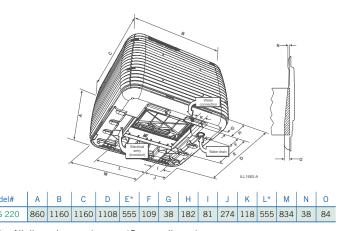
Cooler Discharge Air Temperature Chart

		Ambient Relative Humidity %											
		10	20	30	40	50	60	70	80	90			
ပွ	10	2.3	3.3	4.2	5.1	6.0	6.8	7.7	8.5	9.2			
Temperature °(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			
ry B	35	17.9	20.5	22.9	25.1	27.1	28.9	30.6	32.1	33.6			
int D	40	20.8	23.9	26.6	29.1	31.3	33.3	35.2	36.9	38.5			
Ambient Dry Bulb	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.

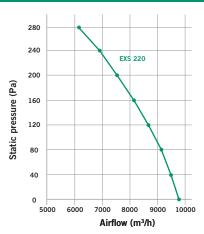


CABINET DETAILS



Note: All dimensions are in mm. *Dropper dimensions

FAN CURVE



	Industry STD Rating m ³ /h	Motor	Certified Air Delivery (m³/h) (static pressure Pa)								
Model#	@ 80Pa	W	0	40	80	120	160	200	240	280	
EXS 220	9140	1500	9790	9500	9140	8680	8140	7560	6910	6160	

Breezair EAQ120SVM Mobile

Fresh, cool air with flexibility option.

Technical Specifications

EAQ120SVM

		LITATEOUTIVI
Airflow @ 80Pa	Industry standard	8480 m³/h 4990 cfm
Cooling capacity*	kW	13.96
Power consumption	Watts max	1150
(total)	Current max (amp)	5.2
Power supply	Voltage / Phases / Hz	230 / 1 / 50
Controller	Туре	Variable speed
Fan	Туре	Centrifugal
	Dia x width (mm)	460 x 380
Motor	Туре	PSC - variable speed
	Output Watts max	750
	Overload	Auto
	Enclosure	IP21
Pump	Туре	Centrifugal
	Motor	Synchronous
	Rating Watts (input)	19
	Flow rate (L/min)	17
	Voltage / Phases / Hz	240 / 1 / 50
	Overload	Auto reset
	Enclosure rating	IPX4
Cooling pad	Size (mm)	870 x 800 (3 pads)
	Pad area (m²)	2.1
Water	Tank capacity (L)	98
	Inlet (mm / inches)	12.7 / ½ male BSP
Shipping	Dimensions including pallet (mm)	1020 x 1220 x 1475
	Volume (m³)	1.84
	Mass (kg)	121
	Operating (kg)	193

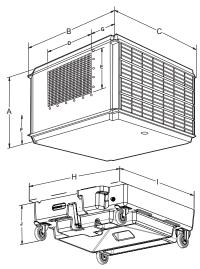
*Cooling capacity measured to Australian Standard AS2913-2000, ambient of 38° C dry bulb & 21° C wet bulb, with room exit temperature of 27.4° C.



			Ambient Relative Humidity %											
		10	20	30	40	50	60	70	80	90				
	10	3.3	4.0	4.8	5.6	6.4	7.2	8.0	8.6	9.4				
	15	6.6	7.8	8.8	9.8	10.8	11.7	12.6	13.4	14.3				
Bulb °C	20	10.1	11.4	12.8	13.9	15.2	16.2	17.2	18.2	19.2				
Dry E ature	25	13.4	15.0	16.6	18.0	19.4	20.6	21.8	22.9	24.0				
	30	16.6	18.6	20.4	22.0	23.6	25.0	26.4	27.7	28.9				
oier mpe	35	19.8	22.2	24.2	26.2	28.0	29.6	31.0	32.4	33.7				
Ambient Tempera	40	23.0	25.6	28.1	30.4	32.3	33.9	N/A	N/A	N/A				
	45	25.9	29.2	32.0	34.4	N/A	N/A	N/A	N/A	N/A				
	50	29.0	32.7	35.8	N/A	N/A	N/A	N/A	N/A	N/A				

This chart represents approximate air temperatures based on 90% saturation efficiency at sea level. From tests carried out to Australian Standard 2913.

CABINET DETAILS



Model#	١.		۱ ۵	l 6	-	-	۱ ۵			
Model#	Α	В	C	U	E	F	G	Н	l l	J
EAQ 120SVM	1160	1005	945	553	448	395	237	1020	1035	345

Note: All dimensions are in mm

FAN CURVE 200 EAQ120SVM 160 160 80 40 40 Airflow (m³/h)

	Industry STD Rating m ³ /h @	Motor	Certified Air Delivery (m³/h) (static pressure Pa)					
Model#	40Pa	W	0	40	80	120	160	200
EAQ120SVM	8480	750	8890	8480	7990	7380	6860	6410

Features

	TBS	TBSI	EXS	EA
Permatuf™ Corrosion-proof Cabinet The Breezair cabinet will not corrode or rust. The UV stabilized 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 This super powerful fan is designed to maximise performance. TBSI 580 is fitted with a SuperStealth™ Fan specifically designed to be more energy efficient.	✓	✓		
Centrifugal Fan Centrifugal fans are the first choice of air conditioning engineers worldwide. The Breezair forward curved, centrifugal fans are made from injection-moulded polypropylene. They are double-width, inherently statically and dynamically balanced, with aerofoil blades to provide high pressure performance and very low noise levels.			√	√
Tornado® Pump The perfect pump for the job! The Tornado pump is built to last. 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.	✓	✓	✓	✓
AUTOWeatherseal TM 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.	✓	√	✓	
Non-clogging water distribution system It maximises cooling efficiency by supplying a continuous and balanced flow of water across the cooling pads, which ensures highest evaporation efficiency and maximum cooling.	✓	√	✓	√
Mini-Cell^ Chillcel™ Pad Technology ^Patent pending Our revolutionary Black Opal™ Mini-Cell Chillcel pads have transformed the aesthetics of our coolers as they seamlessly bler into their surroundings.	nd 🗸	✓	✓	
Aspen Pads Aspen wood fibre pads retain many times their own weight in water, so are ideal for evaporative cooling due to their remarkably high saturation efficiency. They can be easily cleaned and replaced when necessary.				✓
Switch Plate MagIQ Basic tool that can control an individual cooler: Water Pump (ON/OFF), Fan (ON/OFF) & Fan Speed.	0	0	0	✓
MaglQcool™ Controller 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.	✓	✓	✓	0
Advanced touch screen MaglQtouch™ Controller The technology includes in-built Installation Wizard, making the operating process simple. Each cooler comes supplied wi a 20 m wiring loom and it may be extended up to a maximum length of 40 m (optional), and to operate up to 60 coolers* from a single MaglQtouch Controller, using optional Link Module and wiring loom - no special controllers required! *Total loom length must be <= 1000 m		0	0	0
MaglQtouch [™] suite Compatibility (each appliance can be ordered separately) Internal air sensor: checking internal temperture & humidity to be installed in the area that you need to cool. External air sensor: intuitively optimises water and energy consumption based on outside ambient conditions. BMS Controller M1 & MS1: allows to connect coolers to an external BMS system. Link Module: Link any additional MaglQtouch appliance into the system using this small module! MaglQtouch [™] App: control your system from an easy to use mobile app!	0	0	0	0
Digital Smartbox / Control Power Module The Smartbox digital control module monitors and controls all of the air conditioner's features to provide ultimate comfort conditions, temperature sensing and water quality supervision. The module also incorporates diagnostic features and memory to aid troubleshooting and minimise downtime.	√	✓	√	√
WATERManager™ System The Breezair WATERManager ensures optimum machine life with minimum maintenance by constantly checking water quality. As the water in the air conditioner evaporates, it leaves behind impurities and salts, which then become deposite on the cooling pads and cause the cooling power to fall. The WATERManager System senses water quality with a probe th sends a signal back to the electronic module, which then ejects some water and allows fresh water to enter.		✓	✓	
Manual bleed Clean and Dry Function				√
The cooler drains automatically when it's not in use, preventing algae growth and maintaining a clean cooler. Totally Enclosed Motor	√	√	√	
Breezair's fan motor is fully enclosed to international standards and excludes any moisture ingress from all sources. Invertair™ Motor	√			
The Inverter motor is highly efficient throughout the operating range, using far less energy than a standard fan and motor. HushPower® Direct Drive 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.			√	
Seelectric TM Motor A single phase induction motor, designed and built to the highest mechanical and electrical standards.				✓



Breezair evaporative cooling is suitable for a large range of commercial and industrial applications:



























eurosales@seeleyinternational.com uksales@seeleyinternational.com



Seeley International France

320 Avenue Berthelot 69371 Lyon Cedex 08 France

Phone: +33 (0) 472 7847 80

Seeley International Italy

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

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