The Breezair Mobile Evaporative Cooler EA120SVM



Motionless, stale air and high temperatures commonly found in a variety of places can have an adverse effect on morale, production and productivity. By reducing the ambient temperature by several degrees and producing a cooling breeze, we are able to generate a more pleasant working environment.

How Does An Evaporative Cooler Work

Each Breezair cooler contains large cooling pads and during the operating cycle these pads are kept constantly wet. Hot air is drawn into the Breezair cooler by a quiet, powerful centrifugal fan. The air passes through the water soaked pads and the water adsorbs some of the heat by a natural evaporation process, resulting in a cool, refreshing breeze.

Features

- Natural process
- Healthier to the environment
- Cleaner, healthier air
- Improves production and productivity
- More energy efficient
- Low operating costs
- Easy to maintain
- Doors and windows can be left open

Let Nature Do The Work

The beauty of evaporative cooling is its simplicity. It is a process that has been utilised for hundreds of years. The Arabs hung wet blankets in the entrances of their tents and the Greeks placed terracotta pots filled with water in their doorways.

This process occurs naturally whenever water and hot air come into contact. Natural evaporation takes place which adsorbs the heat and cools the hot air by several degrees.





The Breezair Mobile Evaporative Cooler



Features And Benefits

Lightweight

The Breezair mobile is lightweight, being constructed entirely of tough, polymer plastic with the exception of the fan –shaft, motor mount and the electrics which are made of stainless steel.

Mobile

The unit is mounted on four wheels, the front pair being fixed whilst the rear pair can swivel enabling it to be positioned with minimal effort.

Large Capacity Water Tank

The cooler has a large 100 litre tank which enables it to operate for up to 8 hours in normal conditions.

Variable Speed Controller

This regulates the speed of the fan and also incorporates a switch to turn off the water pump.

Louvre Panels and Filter Pads

The side panels are moulded from a high strength structural polymer which are non fading and UV resistant. The pads are made from shredded Aspen wood fibre giving a maximum efficiency of 80%.

Low Operating Costs

Power consumption and water usage are very low and in comparison with traditional refrigerated systems, the Breezair mobile cooler uses about one fifth of the electrical energy.

Applications

The mobile Breezair cooler will bring benefit to a large number of industries including factories, warehouses, mezzanine floors, sports centres, fitness centres, shops, showrooms, conference rooms and temporary tents and marquees to name but a few. Often it will not be necessary to cool a large building completely but it might be a requirement just to cool a specific area or process or a group of people. The mobile cooler is ideal for this purpose. It can be simply wheeled into position and is ready to use almost immediately.

For the best results always allow the air from the cooler to flow through the room or building. This gives a constant supply of fresh cool air with the hot, stale, polluted air being pushed out.

For this reason, doors and windows can be left open with absolutely no loss in cooling efficiency.

Technical Specification

Width (mm)	980
Depth (mm)	920
Height (mm)	1310
Dry Weight (kg)	110
Fan Motor (watts)	750
Capacity (m3 /hr)	8210
Typical Coverage (m2)	120



Our Company has a policy of continuous product development and therefore reserves the right to make changes to these specifications without notice



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Breezair **EXT** 2-Speed Series Evaporative Coolers **Technical** Specifications

Specifications		EXT 155	EXT 265	
Airflow	Industry standard (cfm)	5500	6500	
Cooling capacity*	0.3 IWG (BTU/hr)	27,631	36,245	
Power consumption (total)	Watts	996	992	
Fan	Diameter (inches)	15	18	
V-belt	4L/A	4L-480/A46	4L-570/A55	
Motor	Туре	PSC	PSC	
	Speed (rpm) Hi/Lo	1470/1050	1470/1050	
	Rating (Watts)	550	550	
	Current (amp) Hi/Lo	8.4/5.6	8.4/5.6	
	Capacitor (uF)	30	30	
	Voltage/Hz	115/60	115/60	
	Overload	Auto	Auto	
	Enclosure	IP21	IP21	
Pump	Туре	Centr Encapsulated Syn	ifugal chronous 2 pole	
	Rating (input) (Watts)	30	30	
	Flow rate (gal/min)	5.1@3.9ft head	5.1@3.9ft head	
	Overload	Auto reset	Auto reset	
	Enclosure rating	IPX 4	IPX 4	
Cooling pad	Size (inches)	31 1/2 x 17 1/2 x 3 1/2	31 1/2 x 25 x 3 1/2	
Chillcel™	Pad area (ft ²)	15.3	22	
Water	Capacity (gal)	3.6	3.6	
	Inlet (inches)	1/2" male BSP	1/2" male BSP	
Shipping	Dimensions including pallet (inches)	30 1/2 x 45 1/4 x 45 1/4	38 1/2 x 45 1/4 x 45 1/4	
	Volume (ft ³)	36	42	
	Mass (lbs)	156	190	
	Operating (lbs)	172	206	
Connecting duct (raw edged)	Length x width (inches)	21 5/8 x 21 5/8	21 5/8 x 21 5/8	

*This cooler has been tested in accordance with the requirements of the California Energy Commission Appliance Efficiency Regulations, Section 1603 and 1604

Cooler Discharge Air Temperature Chart

Ambient Dry Bulb Temperature	Ambient Relative Humidity %									
°F	10	20	30	40	50	60	70	80	90	
50	36.2	37.9	39.6	41.2	42.8	44.3	45.8	47.2	48.7	
60	42.9	45.1	47.2	49.3	51.3	53.2	55.0	56.7	58.4	
70	49.2	52.1	54.7	57.3	59.7	61.9	64.1	66.1	68.1	
80	55.3	58.9	62.2	65.2	68.1	70.7	73.3	75.6	77.8	
90	61.4	65.7	69.6	73.3	76.5	79.7	82.4	85.1	87.7	
100	67.2	72.5	77.1	81.3	85.1	88.5	91.7	na	na	
110	72.9	79.1	84.5	89.3	93.6	97.5	na	na	na	
120	78.7	86.0	92.2	97.5	na	na	na	na	na	
130	84.5	92.8	99.9	na	na	na	na	na	na	

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



Seeley International (Americas) 1202 North 54th Avenue Building 2, Suite 117

Phoenix, AZ 85043 USA 602-353-8066 www.breezaircooler.com



Model A B C D E F G H I J K L M N O 155/265 26/34 45.5 45.5 45.2 21.65 3.25 2.5 8.25 81 11.75 3.66 21.65 32 1.5 3.33

Note: All dimensions are in inches

Fan Curves



Model #	Industry STD Rating	Motor H.P.	Certified Air Delivery (CFM) (inches of static pressure)						
	CFM		0.0	0.1	0.2	0.3	0.4	0.5	0.6
EXT 155 EXT 265	5500 6500	.75 .75	4240 5080	4030 4870	3830 4640	3670 4390	3470 4130	3260 3900	3020 3670

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WHOLE-HOUSE 2-SPEED EVAPORATIVE COOLING

Breezair













How evaporative cooling works

The secret to evaporative cooling is implied by the term itself: evaporation! Warm air is drawn into the Breezair EXT cooler, where it's filtered through water-saturated Chillcel[™] pads. Evaporation cools the air while the Chillcel[™] pads filter out dust, pollen and other contaminants. The result: cool. clean, 100% fresh air. No Freon or other chemicals are needed. No fluorocarbons to worry about. So it's great for both you and the environment.



You Save Money, Too.

The Breezair EXT requires only about 20% of the energy needed for refrigerated air conditioning. This significantly reduces your cooling costs and peak energy demand! Plus, with no toxic chemicals, emissions are reduced.

To ensure homeowner safety at all times, the Breezair EXT offers these built-in features:

- Circuit breaker
- Thermally-protected variable-speed motor and pump
- On-board isolation switch

The **Breezair EXT** Series: The best in whole-house evaporative cooling

The highest rated 2-speed cooler on the market.

One of the finest evaporative coolers on the market today, the Breezair EXT combines sleek, upscale design with Seeley's dependable solid-quality construction. The result is an unobtrusive - yet incredibly attractive - powerhouse of cooling efficiency.

The unique Breezair UV-resistant cabinet is guaranteed for 25 years! All of the structural components are guaranteed for 10 years.

That's the kind of warranty you'd expect only from Seeley International. Because nobody makes an evaporative cooler guite like we do.

The Breezair EXT uses a constant stream of fresh air to cool, instead of recycling the same stale air. Its unique advanced cooling technology provides superior indoor air quality. By adding moisture to the air, your nose, eyes and skin will appreciate the difference immediately. You will enjoy cooler, more enjoyable air for years to come.

Bleed-off Tray

The easy-to-install bleed-off tray provides a more precise bleed rate, which results in less mineral build-up in the pads.



Air passes through watersoaked Chillcel™ cooling pads





Water absorbs heat by the natural evaporation process. Cool, fresh air is produced

World-class features. First-class cooling.

The secret to the cooling power of the Breezair EXT lies in the state-of-the-art technology that is built into every Breezair evaporative cooler.

Exclusive One-piece Aerodynamic Fan

- Double inlet
- · Molded one-piece polypropylene centrifugal fan
- · Square steel shaft to prevent fan slippage
- · Cools more efficiently
- Operates guietly
- · Motor lasts longer
- Costs less to operate
- · Pre-lubricated and sealed bearings (no oil needed)



 Overload circuit breaker protection on pump and motor circuits

Non-clogging Water Distribution System

- Unique water flow distributor (patented worldwide by Breezair)
- · Fully balanced and continuous water distribution to all Chillcel[™] cooling pads
- · Maintains perfect pad saturation, maximizing cooling efficiency





Seelectric[™] 2-Speed Motor

- · Double-coated with rust inhibitors
- · Heavy-duty to last longer
- · Low energy use
- Low maintenance requirements

Breezair Salinity Manager (optional feature) Water Management

- · Electronically monitors water quality
- Maintains cooling efficiency by detecting impurities before they build up
- · Automatically replaces impure water with clean water
- Increases cooling effectiveness and pad reliability
- · Decreases maintenance

Automatic Drain System

- · Prevents algae, dirt build-up and odors
- Reduces maintenance to unit

Long Life Chillcel[™] Cooling Pads

- - the cooling effect
 - competitive products



Tornado Water Pump · Fully encapsulated









protectors

- Top and bottom ball bearings
- Pumps in 1/2" water

· Cooler sump stays clean and dry when not in use

- Breezair unique Chillcel[™] pads provide maximum cooling · Honeycomb design with water
- · Durable design outlasts







The Only Cabinet with a 25-year Warranty!

- Injection molded
- · High-strength structural polymer
- UV resistant
- Non-rusting







distribution header block optimizes

The intelligent choice for your home, the environment and your **budget**

Unlike air conditioning that requires harsh,

earth-unfriendly chemicals to cool the air, Breezair uses only water. That makes the Breezair EXT 2-Speed Series the green alternative - and



the environmentally conscious choice.

When cooling a large area – and when conventional air conditioning is simply not an option - evaporative cooling is the smartest move you can make. Whether it is used for space cooling or spot cooling, the Breezair EXT 2-Speed Series cooler is:

- Energy efficient
- Cleaner and healthier
- Easier and less expensive to install
- Environmentally friendly
- Simple to maintain
- Productivity enhancing



Breezair **EXV** Series Evaporative Coolers **Technical** Specifications

Specifications		EXV 155	EXV 275	
Airflow	Industry standard (cfm)	5500	7500	
Cooling capacity*	0.3 IWG (BTU/hr)	27,583	39,974	
Power consumption (total)	Watts max	870	1230	
Fan	Diameter (inches)	15	18	
V-belt	4L/A	4L-490/A47	4L-580/A56	
Motor	Туре	PSC	PSC	
	Speed (rpm)	1510	1450	
	Rating (Watts)	550	750	
	Current (amp)	7.2	10.5	
	Capacitor (uF)	30	40	
	Voltage/Hz	115/60	115/60	
	Overload	Auto reset	Auto reset	
	Enclosure	IP21	IP21	
Pump	Туре	Centrifugal	Centrifugal	
	Motor	Synchronous	Synchronous	
	Rating (input) (Watts)	30	30	
	Flow rate (gal/min)	5.1@3.9ft head	5.1@3.9ft head	
	Overload	Auto reset	Auto reset	
	Enclosure rating	IPX 4	IPX 4	
Cooling pad	Size (inches)	31 1/2 x 17 1/2 x 3 1/2	31 1/2 x 25 x 3 1/2	
Chillcel™	Pad area (ft ²)	15.3	22	
Water	Capacity (gal)	3.6	3.6	
	Inlet (inches)	1/2" male BSP	1/2" male BSP	
Shipping	Dimensions (including pallet) (inches)	30 1/2 x 45 1/4 x 45 1/4	38 1/2 x 45 1/4 x 45 1/4	
	Volume (ft ³)	36	42	
	Mass (lbs)	157	197	
	Operating (lbs)	173	212	
Connecting duct (raw edged)	Length x width (inches)	21 5/8 x 21 5/8	21 5/8 x 21 5/8	

*This cooler has been tested in accordance with the requirements of the California Energy Commission Appliance Efficiency Regulations, Section 1603 and 1604

Cooler Discharge Air Temperature Chart

Ambient Dry Bulb Temperature	Ambient Relative Humidity %									
°F	10	20	30	40	50	60	70	80	90	
50	36.2	37.9	39.6	41.2	42.8	44.3	45.8	47.2	48.7	
60	42.9	45.1	47.2	49.3	51.3	53.2	55.0	56.7	58.4	
70	49.2	52.1	54.7	57.3	59.7	61.9	64.1	66.1	68.1	
80	55.3	58.9	62.2	65.2	68.1	70.7	73.3	75.6	77.8	
90	61.4	65.7	69.6	73.3	76.5	79.7	82.4	85.1	87.7	
100	67.2	72.5	77.1	81.3	85.1	88.5	91.7	na	na	
110	72.9	79.1	84.5	89.3	93.6	97.5	na	na	na	
120	78.7	86.0	92.2	97.5	na	na	na	na	na	
130	84.5	92.8	99.9	na	na	na	na	na	na	

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



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Note: All dimensions are in inches

Cabinet Details

Fan Curves





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THE VARIABLE SPEED REVOLUTION



Variable Speed Series













How evaporative cooling works

Evaporation occurs when warm air is drawn into the Breezair EXV. where it's filtered through water-saturated Chillcel[™] pads. The air is cooled while the Chillcel[™] pads filter out dust, pollen and other contaminants. The result: cool, clean, chemical-free, 100% fresh air that is great for you, your family – and the environment.



Natural Cooling. Natural Savings.

The Breezair EXV Variable Speed Series cooler uses natural evaporation to clean and cool the air. So it's environmentally friendly and economical.

While air conditioners can use CFCs, Freon, ammonia or other chemicals to artificially cool the air, all the Breezair EXV uses is water! So it costs up to 80% less to operate than a conventional air conditioner.

In addition, the Breezair EXV circulates fresh air from outside, where air conditioners continue to recirculate the same stale, dry air. That makes the Breezair EXV Variable Speed Series healthier and better for sensitive noses, eyes and skin.

The **Breezair EXV** Variable Speed Series: The intelligent choice

Keeping cool has never been easier.

The Breezair EXV is a high performance evaporative cooler that provides the kind of performance you need for cooling spacious living areas.

It features an exclusive SensorTouch® Remote Control that allows you to vary and adjust the comfort level, monitor your cooler – and even drain it – from virtually anywhere in your home. In addition, the Breezair EXV comes with a built-in Water Manager and Auto Drain System for easy maintenance. The Breezair Water Manager electronically monitors water quality. Before impurities build-up inside the cooler, they are automatically detected and replaced with clean water. By doing so, cooling efficiency and pad reliability are increased, resulting in decreased

Harmony SensorTouch®

- Wall Controller
- Variable speed
- Programmable climate control ALITO C · Auto mode, manual mode, timer TANKI 1

maintenance over time.

9:04-

10 -

Drain function

Horizon SensorTouch®

- Programmable climate control
- · Auto mode, manual mode, timer
- Drain function

Air passes through watersoaked Chillcel™ cooling pads



natural evaporation process. Cool, fresh air is produced

Exclusive One-piece Aerodynamic Fan Double inlet

- Molded one-piece polypropylene centrifugal fan
- · Square steel shaft to prevent fan slippage
- · Cools more efficiently
- · Operates quietly
- Motor lasts longer
- · Costs less to operate
- · Pre-lubricated and sealed bearings (no oil needed)

Seelectric[™] Variable Speed Motor

Double-coated with rust inhibitors

· Automatically adjusts speed

to maintain comfort level



The Only Cabinet with a 25-year Warranty!

- Injection molded
- High-strength structural polymer
- UV resistant
- Non-rusting

Integrated Diagnostics Module

Control Power Module

 Advanced electronic controls ensure that the EXV operates at optimum efficiency at all times

R CAB,

· Smart, reliable & durable

Microprocessor

· Constantly analyzes water guality, water consumption and power output



Tornado Water Pump

- Impact start
- Fully encapsulated motor windings
- Thermal overload protectors
- Top and bottom ball bearings
- Pumps in 1/2" water

Water Manager and Auto Drain Function

- in cooler sump
- when cooler is not in use
- · Prevents algae growth



Long Life Chillcel[™] Cooling Pads

- Breezair unique Chillcel[™] pads provide maximum cooling
- · Honeycomb design with water the cooling effect
- · Durable design outlasts competitive products

















- Variable speed

Non-clogging Water Distribution System

- · Unique water flow distributor (patented worldwide by Breezair)
- · Fully balanced and continuous water distribution to all Chillcel[™] cooling pads
- · Maintains perfect pad saturation, maximizing cooling efficiency















· Automatically monitors cooler operations and provides self diagnostics

> · Monitors water quality by sensing total dissolved solids

· Automatic water draining

· Drain option setting

distribution header block optimizes

Breezair EXV offers these built-in safety features!

- Circuit breaker
- Thermally-protected variable speed motor and pump
- · On-board isolation switch

The variable speed choice for large and small spaces

Unlike air conditioning that requires harsh,

earth-unfriendly chemicals to cool the air, Breezair uses only water. That makes the Breezair EXV Variable Speed Series the green alternative -



and the environmentally conscious choice.

When cooling a large area - and when conventional air conditioning is simply not an option - evaporative cooling is the smartest move you can make. Whether it is used for space cooling or spot cooling, the Breezair EXV Variable Speed Series cooler is:

- Energy efficient
- Cleaner and healthier
- Easier and less expensive to install
- Environmentally friendly
- Simple to maintain
- Productivity enhancing



The Breezair ICON Series

The world's quietest evaporative air cooler





Let **nature** do the **work**

The beauty of **evaporative cooling** is its **simplicity**. It is a process which has been utilised for hundreds of years. The Arabs hung wet blankets in the entrances of their tents and the Greeks placed terracotta pots filled with water in

their doorways.



This process occurs naturally whenever water and hot air come into contact. Natural

evaporation takes place which absorbs the heat and cools the hot air by several degrees.

How does an evaporative **cooler** operate?

Each Breezair cooler contains large cooling pads and during the operating cycle these pads are constantly kept wet. Hot ambient air is drawn into the Breezair cooler by a quiet, powerful fan. The air passes through the water soaked pads and the water absorbs some of the heat by the natural evaporation process, resulting in a cool, refreshing breeze. This combination of a reduced temperature and constant air flow produces a more comfortable working environment, thus improving morale, absenteeism, production and ultimately productivity.

> Hot outside air is drawn in by a powerful and quiet fan

The Breezair Icon Series

The Breezair Icon series of evaporative coolers will build on the established and successful EA series. The Icon offers a new generation of centrifugal fan evaporative coolers which will be even more reliable and require less frequent maintenance.

The **Icon** series has all of the features of the EA coolers plus many more. The autodrain facility, the Tornado pump, the long life Chillcel[™] pads are features incorporated within the **Icon** cooler.

They also use revolutionary "**Hushpower**" permanent magnet motor technology. This produces an efficient centrifugal fan, making it the quietest ducted evaporative cooling system available.

Advanced electronic controls, managing and monitoring the motor, ensure that the system operates at its optimum efficiency at all times. It even adjusts motor speed automatically to cope with different ducting systems and back pressures.

The quiet operation of this cooler makes it particularly suitable for commercial and retail installations where fan/motor noise may be a problem.

> Air passes through watersoaked cooling pads



Innovative state of the art technology

What makes Breezair shine above all others as an innovative world-class evaporative air conditioning system is the investment made in developing next generation features. For over 20 years Breezair has been synonymous with leading-edge technology, innovative design and superior cooling.

Led by the state of the art Breezair lcon Series motor/fan combination, the Breezair lcon Series technology also boasts a host of other world-class features.

New Icon Series Fan

· Combined motor fan

(delpri

- Ultra quiet centrifugal fan
- Responsive to duct sizing & back pressure
- Designed to deliver optimum air output

Tornado Pump

- Exceptional reliability in extreme conditions
- Australian designed & manufactured

Non Clogging Water Distribution

- Unique design ensures the whole cooling pad is saturated at all times
- Balanced continuous flow of water
- Maximises the cooling effect and outperforms competitors products

194





Cabinet

- Non fading
- Non discolouring
- UV resistant
- Non rusting

AutoWeatherseal

- Clever automatic sealing system
- · Assists in preventing draughts and dust
- · No need for unsightly winter covers

Hushpower Direct Drive Motor

- Super efficient over operating range
- · Electronically controlled for optimum efficiency
- Exclusive to Breezair
- Corrosive resistant construction
- Reduced energy use
- Variable speed
- Unsurpassed reliability
- Quietness beyond belief



Control Power Module

- Advanced electronic controls ensure that the lcon operates at optimum efficiency at all times
- Microprocessor constantly analyses water quality, water consumption and power output
- Smart, reliable & durable

Clean and Dry function

- · Automatic water draining when cooler not in use
- · Prevents algae growth
- · Maintains clean unit



Long Life Chillcel[™] cooling pads

- Breezair unique Chillcel[™] pads provide maximum cooling
- Honeycomb design optimises the cooling effect
- Durable design outlasts competitive products

The intelligent choice

Evaporative cooling is fast becoming the only viable option when cooling large areas. A Breezair system consumes up to **80% less energy** than a conventional air conditioning system. Doors and windows can be left open with absolutely no loss in cooling efficiency, the air is **100% fresh**, with no risk of



recirculation fumes, germs or odours and most importantly as the ambient temperature rises, the more cooling

you get inside – the fundamental benefit of the evaporative process.

If you only need to cool small areas within a large space then evaporative cooling provides you with the only effective option **spot cooling**. An envelope of cool, high velocity air can be directed to a specific area irrespective of the surrounding conditions.

- More energy efficient
- Cleaner, healthier air
- Easier and cheaper to install
- Improves productivity
- Healthier to the environment
- Easier to maintain



Breezair Icon Series Evaporative Coolers

Technical specifications

Specifications		EXH 170	EXH190		
Airflow	High Speed at 80pa L/sec(m³/h)	2319 (8350)	2583 (9300)		
Cooling Capacity*	kW	12.6	14.4		
Power Consumption (total)	Watts max Watts min	1350 70	1745 70		
Tota Max Cooler Current	Amps	5.8	7.3		
Fan	Dia x Width	460 x 380	460 x 380		
	Variable Speed Range rpm	170 to 556	170 to 584		
Motor	Output Watts max/min	750/60 @200-264V	1150/60 @200-264V		
	Туре	Direct Drive	Direct Drive		
	Variable Speed Range rpm	170 to 556	170 to 584		
Controller	Voltage/Phases/Hz (input)	230/1/50	230/1/50		
	Voltage/Phases/Hz (output)	(75-220)/3/(28-110)	(75-220)/3/(28-110)		
Pump	Туре	Centrifugal	Centrifugal		
	Motor	Synchronous	Synchronous		
	Rating Watts (input)	30	30		
	Flow Rate L/Min	23	23		
	Voltage/Phases/Hz	230/1/50	230/1/50		
Cooling Pad	Size mm	90 x 800 x 635(H)	90 x 800 x 635(H)		
Chilicel (1m)	Number of Pads	4	4		
	Pad Area m ²	2.05	2.05		
	Maximum Velocity m/sec	1.13 (@80pa)	1.26 (@80pa)		
	Saturation Efficiency %	88.5	89.1		
Water	Tank Capacity litres	11	11		
	Inlet inches	1/2" Male BSP	1/2" Male BSP		
	Drain mm	40 Male BSP	40 Male BSP		
Shipping	Dimensions (inc pallet) mm	1160 x 1160 x 975 (H)	1160 x 1160 x 975 (H)		
	Volume m ³	1.31	1.31		
	Mass - Shipping Kg	77	77		
	Mass - Nett Unit Kg	68	68		
	Mass - Operating Kg	84	84		

Cabinet Details





 Model
 A
 B
 C
 D
 E
 F
 G
 H
 I
 J
 K
 L
 M
 N
 O

 170/190
 86
 1160
 1108
 555
 109
 38
 182
 81
 274
 118
 558
 384
 84

Note: All dimensions are in mm

Cooling capacity calculated to Australian standard AS 2913 - 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 Dry Bulb Temperature			Ambien	t Relati	uive Hun	nidity %	•		
°C	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
20	10.1	11.4	12.8	13.9	15.2	16.2	17.2	18.2	19.2
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
35	19.8	22.2	24.2	26.2	28.0	29.6	31.0	32.4	33.7
40	23.0	25.6	28.1	30.4	32.3	33.9	na	na	na
45	25.9	29.2	32.0	34.4	na	na	na	na	na
50	29.0	32.7	35.8	na	na	na	na	na	na

This chart represents approximate air temperatures based on 80% saturation efficiency at sea level. From tests carried out to Australian Standard 2913



Our Company has a policy of continuous product development and therefore reserves the right to make changes to these specifications without notice



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The Breezair RPA X900

Heavy Duty Evaporative Air Cooler

The reliable and effective **RPA** evaporative air coolers are proven performers for heavy duty industrial cooling. They are a cooler of choice for contractors where high static pressure and/or complex ductwork is experienced. Breezair **RPA Evaporative** Coolers provide a low cost, low maintenance and energy efficient method of cooling your every application.

The cabinet is constructed of marine grade aluminium, incorporating channel section corner pillars, mounted on a heavy gauge base frame for structural stability. Many components have been powder-coated for extra corrosion protection. Cabinet fasteners are stainless steel, monel, nylon and aluminium.

Blower Wheel

Cabinet

The blower wheel is a double inlet, multi blade, forward curve, centrifugal type. Constructed from galvanised steel, the wheel is statically balanced. The blower shaft is precision ground solid stainless steel and is mounted in rubber insulated, self aligning, single row ball bearings.

Water Reservoir

The water reservoir is a one piece rotational moulding of polyethylene, providing a thick walled, corrosion free component with excellent sound deadening properties.

Fan Motors

Three phase motors are TEFC tropic proof, aluminium frame, IP55 enclosures to AS 1359.

Electrical Control

The **three phase starter assembly** is prewired within the unit and

for control of the high and low speeds. The enclosure is hoseproof to IP55 and incorporates an isolation switch. The wall control switch supplied incorporates pump, fan and speed variation mechanisms.

Water Connection

Water supply connection is $1^{1}/2^{"}$ BSP, this connects directly to a $1^{1}/2^{"}$ NB standard approved ball valve. Bleed off adjustment is by an external valve located at the corner pillar.

Filter Pads

Chillcel[™] with a typical saturation efficiency of 80 %.

Unit Rating

Units are factory set to run, "free discharge" at the motor rated current, unless operating conditions are specified.

Motor ratings, pulley and belt sizes are nominal, and may vary slightly due to manufacturing tolerances. Larger and smaller belts and pulleys available on request.



The Breezair[™] TBA Series

The intelligent evaporative air cooler



Breezsir

Let nature do the **work**

The beauty of evaporative cooling is its simplicity. It is a process which has been utilised for hundreds of years. The Arabs hung wet blankets in the entrances of their tents and the Greeks placed terracotta pots filled with water in their doorways.



This process occurs naturally whenever water and hot air come into contact. Natural

evaporation takes place which absorbs the heat and cools the hot air by several degrees.

How does an evaporative cooler operate?

Each Breezair cooler contains large cooling pads and during the operating cycle these pads are kept constantly wet. Hot ambient air is drawn into the Breezair cooler by a quiet, powerful fan. The air passes through the water soaked pads and the water absorbs some of the heat by the natural evaporation process, resulting in a cool, refreshing breeze. This combination of a reduced temperature and constant air flow produces a more comfortable working environment, thus improving morale, absenteeism, production and ultimately productivity.

> Hot outside air is n in by a powerful d quiet fan

The Breezair[™] TBA Series

The Breezair TBA series revolutionises the concept of fixed direct drive evaporative coolers. Both functionally and aesthetically the TBA 550 cooler sets new standards in advanced design, incorporating the clever use of modern injection moulding technology.

Intelligently designed with installers and end users in mind; its ease of installation and the flexibility of its control system configuration; make it more user friendly than any competitive cooler in the market today.

Seeley International is a world leader in Axial polymer fan technology and their latest stateof-the-art fan offers impressive airflow and performance characteristics.

Innovative use of materials and state of the art components provides comfort cooling at economical prices into a variety of applications.

Water absorbs heat by the natural evaporation process.

Cool, fresh air is produced

Air passes through watersoaked cooling pads

Innovative state of the art technology

What makes Breezair shine above all others as an innovative world-class evaporative air conditioning system is the investment made in developing next generation features. For over 30 years Breezair has been synonymous with leading-edge technology, innovative design and superior cooling.

Led by the state of the art Breezair TBA Series fan design, the Breezair TBA Series technology also boasts a host of other worldclass features.

Plastic Super-powerful fan

- · Registered design with leading-edge technology
- Manufactured in 100% glass reinforced polypropylene
- Aerodynamically designed blades ensure smooth airflow

1000

- **Tornado Pump**
- · Exceptional reliability in extreme conditions
- Australian designed & manufactured



AQUAflow™ non-clogging water distribution

- Unique water flow distributor (patented worldwide by Breezair)
- Fully balanced and continuous water distribution to all the Chillcel™ cooling pads
- Maintains perfect pad saturation maximising cooling efficiency





Cabinet

- Non fading
- Non discolouring
- UV resistant
- Non rusting



Automatic duct closure (AutoWeatherseal)

- · Activates when the cooler is not in operation
- · Prevents dust and dirt from accumulating in winter
- Stops the "chimney effect"- prevents hot air from escaping or cold air ingress from outside



Totally Enclosed fan motor

- Specially designed for optimum efficiency in a moisture laden space
- Tropicalised with an additional insulation process ensuring a longer service life

Control Power Module

- Advanced electronic controls ensure that the TBA operates at optimum efficiency at all times
- Microprocessor constantly analyses water quality, water consumption and power output
- Smart, reliable & durable

Clean and Dry function

- · Automatic water draining when cooler not in use
- Prevents algae growth
- Maintains clean machine



Long Life Chillcel[™] cooling pads

- Breezair unique Chillcel[™] pads provide maximum cooling
- Honeycomb design optimises the cooling effect
- Durable design outlasts competitive products

The **intelligent** choice

Evaporative cooling is usually the only viable option when cooling large areas. A Breezair system consumes up to **80% less energy** than a conventional air conditioning system. Doors and windows can be left open with absolutely no loss in cooling efficiency, the air is **100% fresh**, with no risk of recirculation fumes,



germs or odours and most importantly as the ambient temperature rises, the more cooling you get inside –

the fundamental benefit of the evaporative process.

If you only need to cool small areas within a large space then evaporative cooling provides you with the only effective option - **spot cooling**. An envelope of cool, high velocity air can be directed to a specific area irrespective of the surrounding conditions.

- More energy efficient
- Cleaner, healthier air
- Easier and cheaper to install
- Improves productivity
- Friendlier to the environment
- Easier to maintain

