Breezair Icon Series Evaporative Coolers **Technical** Specifications

Specifications		EXH 170	EXH 210		
Airflow	Industry standard (cfm)	7500	9500		
Cooling capacity*	0.3 IWG-(BTU/hr)	45,000	51,000		
Power consumption (total)	Watts max Watts min	1290 100	2040 100		
Total max cooler current	Amps	5.8	7.6		
Fan	Dia x width (inches)	18 1/8" x 15"	18 1/8" x 15"		
	Variable speed range (rpm)	170 to 556	170 to 584		
Motor	Output Watts max/min	750/60 @200-264V	1500/60 @200-264V		
	Туре	Direct drive	Direct drive		
	Variable speed range (rpm)	170 to 556	170 to 584		
Controller	Voltage/phases/Hz (input)	208-230/1/60	208-230/1/60		
	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 (gal/min)	5.1@3.9ft head	5.1@3.9ft head		
	Voltage/phases/Hz	208-230/1/60	208-230/1/60		
Cooling pad Chillcel™	Size (inches)	31 1/2" x 25" x 3 1/2"	31 1/2" x 25" x 3 1/2"		
			31 1/2" x 25" x 4"		
	Number of pads	4	4 (2 each)		
	Pad area (sq. feet)	22	22		
	Maximum velocity (fpm)	227 (@0.3wg)	268 (@0.3wg)		
	Saturation efficiency %	87.4	86.1		
Water	Tank capacity (gal)	3.6	3.6		
	Inlet (inches)	1/2" male BSP	1/2" male BSP		
Shipping	Dimensions including pallet (inches)	45 1/2" x 45 1/2" x 38 1/2" (H)	45 1/2" x 45 1/2" x 38 1/2" (H)		
	Volume (cu. feet)	42	42		
	Mass - shipping (lbs)	197	197		
	Mass - net unit (lbs)	184	184		
	Mass - operating (lbs)	212	212		

*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

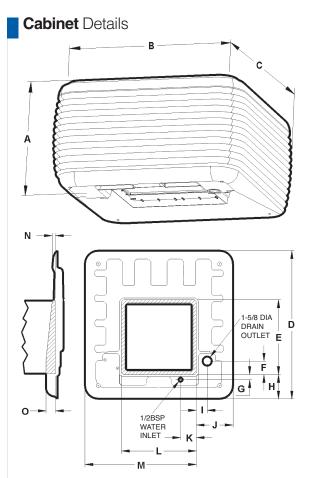
Ambient Dry Bulb Temperature	Ambient Relative Humidity %									
°F	10	20	30	40	50	60	70	80	90	
50	36.2	37.9	39.6	41.2	42.8	44.3	45.8	47.2	48.7	
60	42.9	45.1	47.2	49.3	51.3	53.2	55.0	56.7	58.4	
70	49.2	52.1	54.7	57.3	59.7	61.9	64.1	66.1	68.1	
80	55.3	58.9	62.2	65.2	68.1	70.7	73.3	75.6	77.8	
90	61.4	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



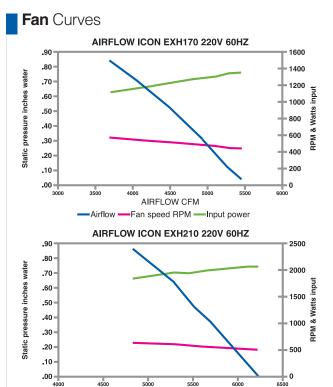
Seeley International (Americas) 1202 North 54th Avenue Building 2, Suite 117 Phoenix, AZ 85043 USA 602-353-8066

www.breezaircooler.com



Model A B C D E F G H I J K L M N O 170/210 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



AIRFLOW CFM

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THE WORLD'S MOST QUIET EVAPORATIVE COOLER

Icon PLAC

Breezair

CON



ECM Variable Speed Direct Drive Motor



How evaporative cooling works

Evaporative cooling takes place when water and warm air converge. The simple process of evaporation cools the air by several degrees.



The healthy advantage

Evaporative cooling is an economical and remarkably efficient way to cool a large area, such as your home or business.

Doors and windows are kept open - and they actually **contribute** to the cooling efficiency. The result: 100% fresh air, with no recirculated fumes, germs or odors.

Even better, as the surrounding temperature rises, the cooler it becomes inside - and the benefits don't stop there!

How do Breezair evaporative coolers operate?

All Breezair coolers contain large Chillcel[™] cooling pads. When the cooler is operating, the media is kept consistently wet. The quiet, powerful fan in the Breezair cooler draws hot. ambient air into the water-soaked Chillcel[™] pads. The water absorbs much of the heat through the natural evaporation process – resulting in a cool, refreshing breeze.

The combination of a reduced temperature and constant air flow produces a more comfortable environment - at work or at home.

Keep your cool – as you keep your energy bills down.

A Breezair system can use up to 90% less energy than conventional air conditioning. That contributes to a tremendous savings on your monthly summer cooling bills!

The advantages to the environment are obvious with this green, environmentally conscious alternative. The advantages to your budget are obvious right away.

The **Breezair Icon** Series is the **world's most quiet** evaporative cooler

The Breezair Icon is a new generation of centrifugal fan evaporative coolers. It incorporates electronically commutated (ECM) direct drive motor technology. The result is a more economical, reliable, efficient cooling choice that requires less frequent maintenance.

The Icon series has all of the features of the traditional Breezair coolers - plus many more. The Auto Drain, the Tornado water pump and the long life Chillcel™ pads are features incorporated within the Icon cooler.

Using the revolutionary ECM direct drive variable speed motor technology, the Icon employs an efficient centrifugal fan. These well-designed advantages contribute to make the Breezair Icon the world's most quiet ducted evaporative cooling system.

Advanced electronic controls manage and monitor the motor. This ensures that the system operates at its optimum efficiency at all times.

The Icon adjusts its motor speed automatically to accommodate different ducting systems and back pressures.

The cooler's quiet operation makes it suitable for all commercial and residential installations where fan or motor noise may be a problem.

side air Air passes through n by watersoaked Chillcel[™] cooling pads





Our cutting-edge technology is very cool.

For more than 30 years, the secret of Breezair's energy-efficient performance has been state-of-the-art technology, innovative design and superior cooling.

New Icon Series **Direct Drive Motor/Fan**

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

Harmony SensorTouch®

Horizon SensorTouch®

· Programmable climate control

· Auto mode, manual mode, timer

· Programmable climate control

· Auto mode, manual mode, timer

Wall Controller

Variable speed

Drain function

Remote Control

Variable speed

Drain function



Exclusive Breezair ECM Direct Drive Motor

- Super efficient over operating range
- · Electronically commutated for optimum efficiency
- Corrosion-resistant construction
- Reduced energy use
- Variable speed
- Unsurpassed reliability
- · Quietness beyond belief

Control Power Module

Breeza

- Advanced electronic controls ensure that the Icon operates at optimum efficiency at all times
- Smart, reliable & durable

Microprocessor

· Constantly analyzes water quality, 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 Monitors water guality by

- · Drain option setting

Integrated Diagnostics Module

· Automatically monitors cooler operations and provides self diagnostics

Long Life Chillcel[™] Cooling Pads

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



Non-clogging Water Distribution System Unique water flow distributor

distribution to all Chillcel[™] cooling pads

(patented worldwide by Breezair) · Fully balanced and continuous water

Maintains perfect pad saturation,

maximizing cooling efficiency



The Only Cabinet with a 25-year Warranty!

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



Breezair Icon offers these built-in safety features!

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

The intelligent choice for large and small spaces

It is a proven fact! For what it costs to operate a single light bulb, you can cool your entire home with a Breezair Icon. The Icon is:

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





- sensing total dissolved solids in cooler sump
- Automatic water draining when cooler is not in use
- · Prevents algae growth

