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

| Specifications                 |   | EXV 155                  | EXV 275                  |  |
|--------------------------------|---|--------------------------|--------------------------|--|
| Airflow                        | Industry standard<br>(cfm)                | 5500                     | 7500                     |  |
| Cooling capacity*              | 0.3 IWG (BTU/hr)                          | 27,583                   | 39,974                   |  |
| Power<br>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 <sup>2</sup> )               | 15.3                     | 22                       |  |
| Water                          | Capacity (gal)                            | 3.6                      | 3.6                      |  |
|                                | Inlet (inches)                            | 1/2" male BSP            | 1/2" male BSP            |  |
| Shipping                       | Dimensions<br>(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 <sup>3</sup> )                 | 36                       | 42                       |  |
|                                | Mass (lbs)                                | 157                      | 197                      |  |
|                                | Operating (lbs)                           | 173                      | 212                      |  |
| Connecting duct<br>(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

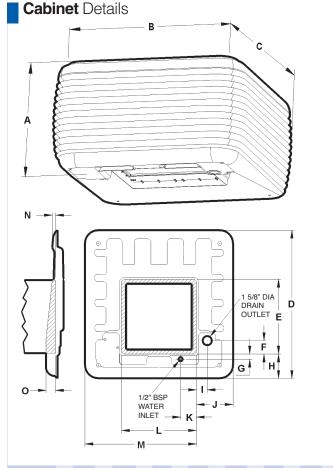
| Ambient<br>Dry Bulb<br>Temperature | Ambient Relative Humidity % |      |      |      |      |      |      |      |      |
|------------------------------------|-----------------------------|------|------|------|------|------|------|------|------|
| °F                                 | 10                          | 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

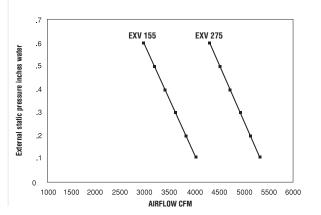
Phoenix, AZ 85043 USA 602-353-8066 www.breezaircooler.com



Model A B C D E F G H I J K L M N O 155/275 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<br>STD Rating | Motor<br>H.P. | Certified Air Delivery (CFM)<br>(inches of static pressure) |              |              |              |              |              |              |
|--------------------|------------------------|---------------|---|--------------|--------------|--------------|--------------|--------------|--------------|
|                    | CFM                    |               | 0.0   | 0.1          | 0.2          | 0.3          | 0.4          | 0.5          | 0.6          |
| EXV 155<br>EXV 275 | 5500<br>7500           | .75<br>1      | 4240<br>5590  | 4030<br>5380 | 3830<br>5170 | 3670<br>4980 | 3470<br>4720 | 3260<br>4530 | 3020<br>4320 |

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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<sup>™</sup> pads. The air is cooled while the Chillcel<sup>™</sup> 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
- ALITO C TANKI 1

maintenance over time.

9:04-

10 -

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Drain function

# Horizon SensorTouch®

- **Remote Control** Variable speed
- · 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)





### 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
- · 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
- · Drain option setting



## Long Life Chillcel<sup>™</sup> Cooling Pads

- Breezair unique Chillcel<sup>™</sup> pads provide maximum cooling
- · Honeycomb design with water the cooling effect
- · Durable design outlasts competitive products





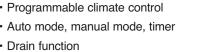
- distribution to all Chillcel<sup>™</sup> cooling pads
- · Maintains perfect pad saturation, maximizing cooling efficiency



Seelectric<sup>™</sup> Variable Speed Motor

# **Non-clogging Water Distribution System**

- · Unique water flow distributor (patented worldwide by Breezair)
- · Fully balanced and continuous water









· Automatically monitors cooler operations and provides self diagnostics

> · Monitors water quality by sensing total dissolved solids

Automatic water draining

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

