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Breezair EXV275 Owner's Manual

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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	Type	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	Type	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
Cooling pad Chillcel™	Size (inches)	31 1/2 x 17 1/2 x 3 1/2	31 1/2 x 25 x 3 1/2
	Pad area (ft²)	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 (ft³)	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

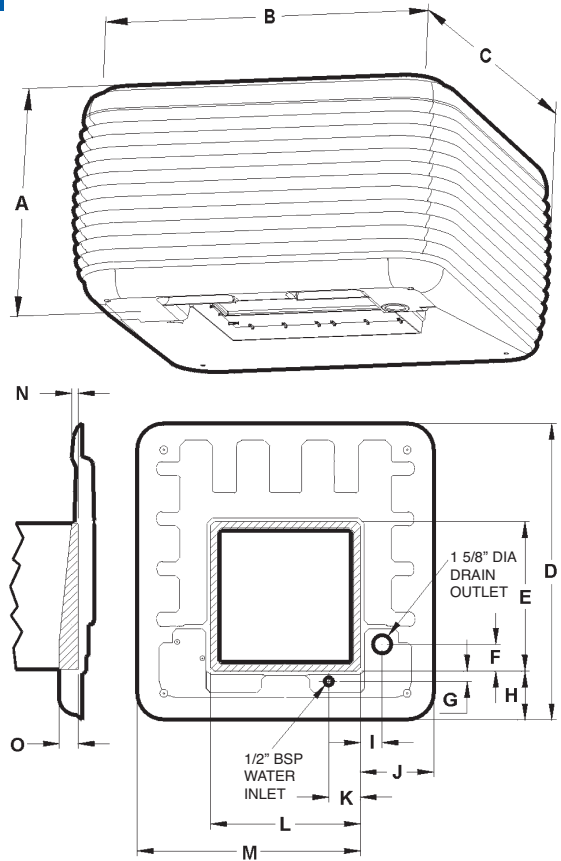
*This cooler has been tested in accordance with the requirements of the California Energy Commission Appliance Efficiency Regulations, Section 1603 and 1604

Cooler Discharge Air Temperature Chart

Ambient Dry Bulb Temperature	Ambient Relative Humidity %								
	10	20	30	40	50	60	70	80	90
°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

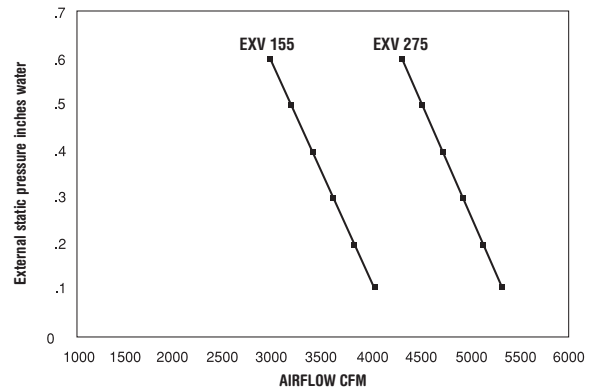
Cabinet Details



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 STD Rating CFM	Motor H.P.	Certified Air Delivery (CFM) (inches of static pressure)							
			0.0	0.1	0.2	0.3	0.4	0.5	0.6	
EXV 155	5500	.75	4240	4030	3830	3670	3470	3260	3020	
EXV 275	7500	1	5590	5380	5170	4980	4720	4530	4320	



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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.

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



Air passes through watersoaked Chillcel™ cooling pads

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

The Breezair EXV Variable Speed Series

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 maintenance over time.



Harmony SensorTouch® Wall Controller

- Variable speed
- Programmable climate control
- Auto mode, manual mode, timer
- Drain function



Horizon SensorTouch® Remote Control

- Variable speed
- Programmable climate control
- Auto mode, manual mode, timer
- Drain function

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

- Automatically adjusts speed to maintain comfort level
- Double-coated with rust inhibitors
- Low energy use
- Heavy duty to last longer
- Low maintenance requirements



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

