

**Breezee**  
By SEELEY INTERNATIONAL 

Super*Health*<sup>®</sup>

**TBQI SERIES**

PREMIUM RESIDENTIAL &  
LIGHT COMMERCIAL



SUPERIOR COOLING PERFORMANCE WITH UNMATCHED  
QUALITY, DESIGN AND VALUE OFFERING THE  
**HIGHEST ENERGY EFFICIENCY IN EVAPORATIVE COOLING**



Introducing the advanced  
**MAGI@TOUCH**

Next generation smart controller

# THE BREEZAIR TBQI SERIES: NEXT GENERATION

## UNRIVALLED COOLING CAPACITY

TBQI is the ideal unit for residential applications and offers premium advanced technology and a revolutionary design for the entire home. With the Breezair TBQI, you will experience outstanding comfort and remarkable energy efficiency.

- Best cabinet warranty in the world; no other manufacturer compares to our 25-year guarantee
- Air volume [CFM] meets industry standard rating
- Trusted by homeowners and contractor friendly to install.

## EXCEPTIONAL WATER DISTRIBUTION INCREASES COOLING EFFECT

This Australian designed, world patented, free flow, water distributor ensures constant, even pad saturation increasing the cooling effect and outperforming competitor products.

## INVERTAIR™ INVERTER MOTOR

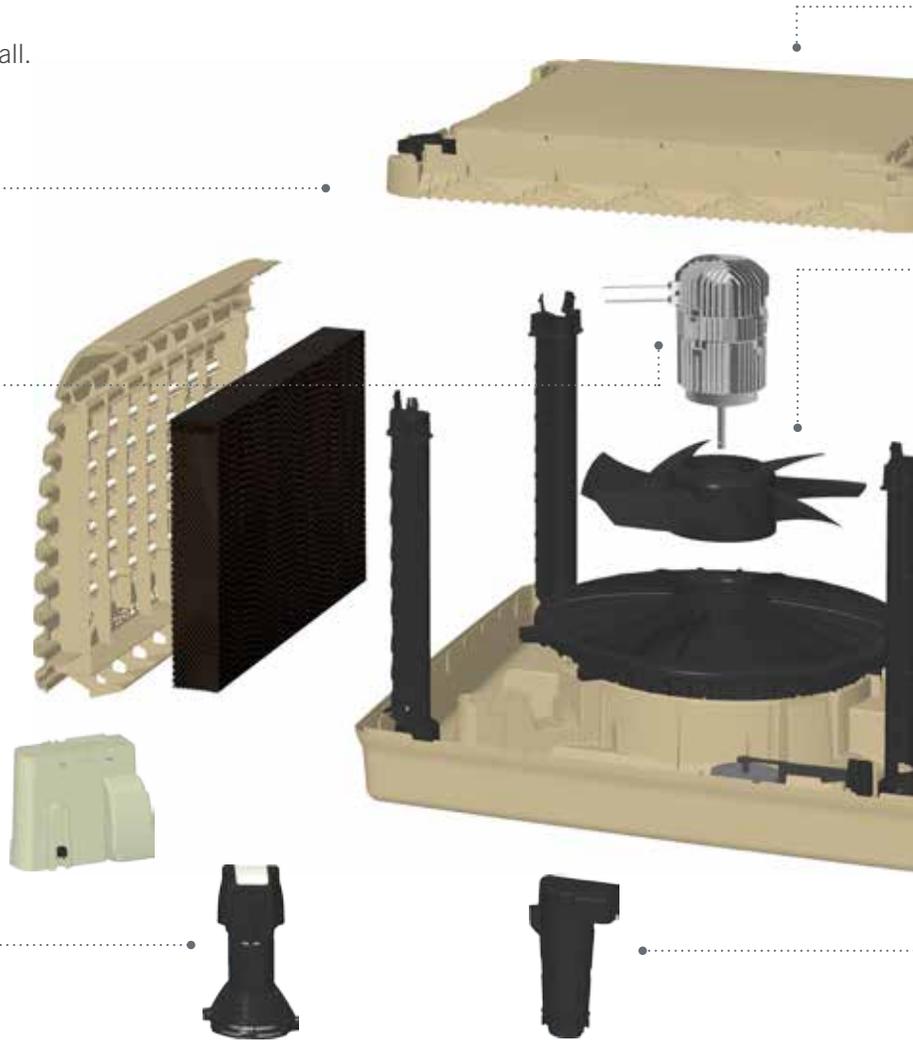
- Ensures long term performance and incredible reliability of your system
- Variable speed motor offers maximum control over comfort level
- Energy efficient - consumes less energy than conventional motors
- Motor has been tested by a Nationally Recognized Testing Laboratory. ETL Listed to Standard for Electric Fans (UL-507).

## DIGITAL SMARTBOX™

The Smartbox™ digital control module monitors and controls all of the cooler's features to provide ultimate comfort conditions, temperature sensing and water quality supervision – completely, safely and reliably.

## TORNADO® PUMP

- Exceptional reliability in extreme conditions
- Dual directional impact start motor/impeller
- Encapsulated motor with overload cut-out, stainless steel shafts and bearings are fully protected from water



## MAGIQTOUCH® (Additional Cost) TOUCH SCREEN TECHNOLOGY

Smart, sophisticated and incredibly intuitive, your MagIQtouch® controller makes operating your Breezair, a breeze. Control the temperature, fan speed and many more features on a user friendly touch screen. Discreet and modern design will blend seamlessly into the décor of your home.



**MAGIQTOUCH®**  
wired controller

Touch screen, wall mounted controller wired to your home



**MAGIQTOUCH®**  
wireless controller  
(Radio Frequency)

Use the latest in Radio Frequency (RF) channel hopping technology with no need for wiring





## BREEZAIR GUARANTEE

For complete peace of mind, Breezair backs every one of its air conditioning systems with an industry leading comprehensive guarantee program.

Refer to your owner's manual for all service and guarantee terms and conditions.

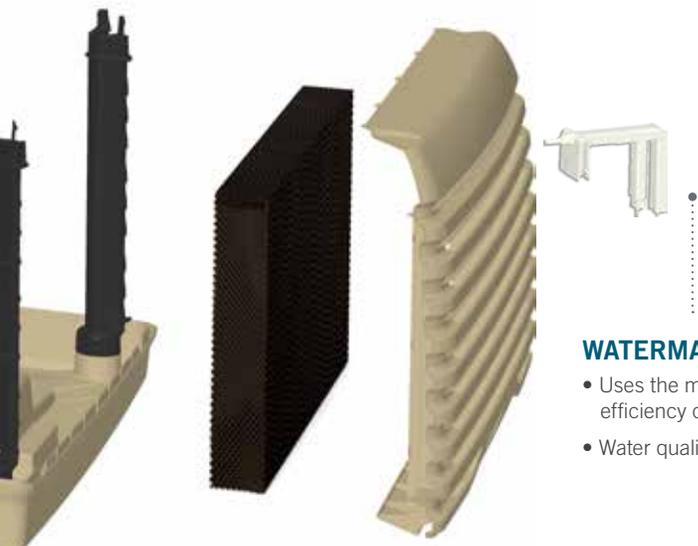
### HIGHLY DURABLE AND NON-CORROSIVE CABINET AND WATER RESERVOIR

High performance Permatuf® polymer construction will not corrode or rust.



### SUPERSTEALTH® FAN

SuperStealth® axial fan is specifically designed for aerodynamic, efficient and reliable air delivery



### WATERMANAGER™ SAVES WATER

- Uses the minimum amount of water to achieve high efficiency cooling
- Water quality monitoring to maximize water savings

### AUTO WATER DRAINING KEEPS YOUR SYSTEM CLEAN

- Empties the reservoir automatically when system is not in use, leaving it clean and dry
- Ensures the system is operating at maximum efficiency, while using the minimum amount of water
- Helps to avoid the seasonal maintenance\* as required by some other similar products

\*Seasonal maintenance does not replace regular maintenance of the unit as required for peak performance.

### BREAKTHROUGH BLACK OPAL™ MINI-CELL CHILLCEL® PAD TECHNOLOGY

- The only evaporative cooling medium of its kind. Fully manufactured in Australia. It's an **absolute out-performer!**
- Exclusive small cell design provides cutting-edge cooling capacity.
- Maintains our global leading Mini-Cell Chillcel® pad technology, which increases surface area of the pads by 25%, dramatically multiplying cooling capacity and efficiency - **BEYOND BELIEF!**
- **BLACK OPAL™ MINI-CELL CHILLCEL® pads** deliver transformational aesthetics to your home enabling the unit to blend seamlessly into its surroundings.

## OPTIONAL EXTRAS MAGIQTOUCH® AIR SENSORS & AUTO WEATHERSEAL

### Internal Air Sensor

A remote temperature and humidity sensing module.

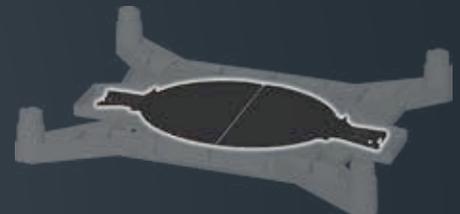
Enables the MaglQtouch® Controller to be mounted in a convenient location (e.g. living area), while still sensing air from the conditioned space.



### External Air Sensor

Intuitively optimizes water and energy usage based on outside ambient conditions and displays current outside temperature.

Sensing module automatically drains the water tank when temperature nears freezing.



### AUTO WEATHERSEAL

The AUTO Weatherseal 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.

*\* Requires a 21 5/8" square raw edged roof jack. Refer to technical specifications for more information. Be sure to talk to your installer about optional extras. Units will not operate with a Breezair roof jack adapter.*

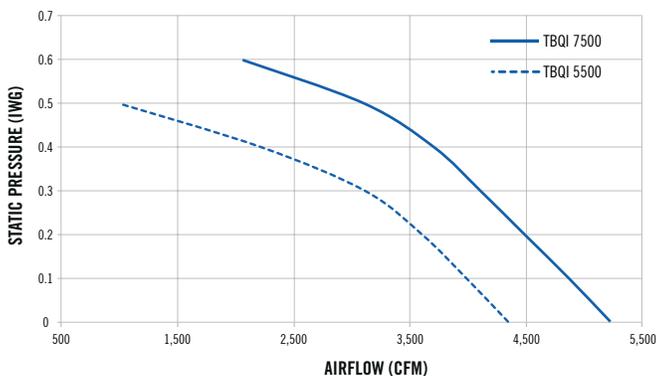
# TBQI Technical Information

# TBQI SERIES

Specification		TBQI 5500	TBQI 7500
Airflow	Industry standard (cfm)	5,500	7,500
Cooling Capacity*	0.3 IWG (BTU/hr)	25,930	34,460
Power Consumption (total)	Watts max	510	680
	Current rated (amp)	5.5	7.0
Power Supply	Voltage / Phases / Hz	115 / 1 / 60	115 / 1 / 60
Controller	Type	Digital	Digital
Fan	Type	Axial	Axial
	Diameter (mm)	21.1	21.1
Motor	Type	Inverter	Inverter
	Speed max (rpm)	1,150 VAR	1,300 VAR
	Output Max (Watts)	300	380
	Current Max (amp)	4.0	5.0
	Overload	One Shot Fuse	One Shot Fuse
Pump	Type	Centrifugal	Centrifugal
	Motor	Synchronous	Synchronous
	Power - Rated (amp)	0.7	0.7
	Flow rate (gal/min)	5.5	5.5
	Voltage / Phases / Hz	115 / 1 / 60	115 / 1 / 60
	Overload	Thermal One Shot Fuse	Thermal One Shot Fuse
	Enclosure rating	IPX4	IPX4
Cooling pad Chillcel™	Size (inches)	33½ x 14¾ x 3¾ (4 Pads)	33½ x 20¾ x 4¾ (4 Pads)
	Pad area (ft2)	13.8	19.2
Water	Tank capacity (gal)	6.1	6.1
	Inlet (inches)	½" male BSP	½" male BSP
Shipping	Drain (mm/inches) Configurable to local requirements	1½" male BSP	1½" male BSP
	Dimensions incl. pallet (inches)	45¼" x 45¼" x 29½"	45¼" x 45¼" x 35½"
	Volume (ft3)	35	42.4
	Mass (lbs)	148	155
	Operating (lbs)	199	205
Connecting Duct	Length x width (inches)	21½" x 21½"	21½" x 21½"
		17¾" x 17¾" Adapter	19¾" x 19¾" Adapter

Breezair's TBQI Series has been tested by the Nationally Recognized Testing Laboratory. ETL List to Standard for Electric Fans (UL-507).

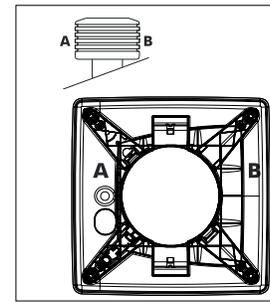
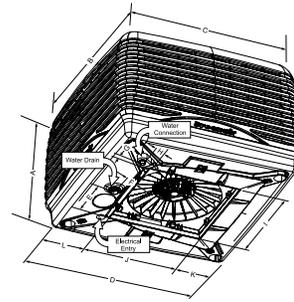
## FAN CURVE (CFM)



Model#	Industry STD Rating CFM	Motor H.P.	Certified Air Delivery (CFM) vs. Inch Water Gauge (IWG)						
			0.0	0.1	0.2	0.3	0.4	0.5	0.6
TBQI 5500	5,500	0.4	4,340	3,980	3,600	3,110	2,220	1,000	-
TBQI 7500	7,500	0.5	5,230	4,870	4,490	4,110	3,710	3,110	2,060

At Seeley International, we have invested more than 40+ years designing and developing superior cooling systems. Known as a trusted leader in the industry, Seeley International is committed to product innovation. Our state-of-the-art NATA Accredited Meridian Test Laboratory allows us to conduct extensive in-house performance testing.

[www.seeleyinternational.com](http://www.seeleyinternational.com)



## CABINET DETAILS

Model#	A	D	C	D	E	F	G	H	I	J	K
TBQI 5500	27	45 ¼	45 ¼	42 ½	10 ¾	3 ¾	3 ¼	3 ¼	21 ⅞	21 ⅞	9 ¾
TBQI 7500	33	45 ¼	45 ¼	42 ½	10 ¾	3 ¾	3 ¼	3 ¼	21 ⅞	21 ⅞	9 ¾

Note: All dimensions are in inches.

## Typical installation

Drain outlet	1 ½" BSP to ¾" OD Reducer piece designed for push-on use with a flexible hose (¾" ID) or solid PVC pipe (¾" ID)
Water inlet	½" BSP to ¾" Nom or ½" BSP to ¼" compression adapter pieces
Electrical	½" Flexible conduit
Pack Out Kit	The kit consists of 65' 6 pin cable, auto drain valve and plumbing fittings (supplied as standard inside cooler).
Wall Control Kit Options (Required)	Option 1: MagIQtouch Wall Control KIT - WIRED Part #094298 Option 2: MagIQtouch Wall Control KIT - RF WIRELESS Part #118376

## Cooler Discharge Air Temperature Chart

Ambient Dry Bulb Temperature °F	Ambient Relative Humidity %								
	10	20	30	40	50	60	70	80	90
50	37	38	40	42	43	45	46	47	49
60	43	46	47	50	52	53	55	57	58
70	50	53	55	58	60	62	64	66	68
80	56	60	63	66	68	71	73	76	78
90	62	66	70	74	77	80	83	85	88
100	68	73	78	82	85	89	92	95	N/A
110	74	80	85	90	94	N/A	N/A	N/A	N/A
120	80	87	93	98	103	N/A	N/A	N/A	N/A
130	86	94	101	106	N/A	N/A	N/A	N/A	N/A

This chart represents approximate air temperatures based on 87% saturation efficiency at sea level from tests carried out to Australian Standard 2913.

## Sizing Instructions

Use the Certified Air Delivery performance tables and the following procedure to properly size a Seeley International evaporative cooling unit for your application.

The performance or Cooling Capacity of an evaporative cooler is a function of both the air flow (CFM) and air discharge temperature.

Static pressure, or duct system resistance, also impacts on air delivery and should be considered to correctly size the cooling unit.

### 1. Determine design Conditions

Outside Dry-Bulb (DB)  
Outside Wet-Bulb (WB)  
Inside Dry-Bulb (TI)

### 4. Determine the CFM required

$CFM = 0.925 \times \text{Sensible Heat Load} / (TI - LAT)$

### 2. Determine the design Sensible Heat Load (Btu/h)

### 5. Determine the cooler(s) required by referring to the air flow charts above.

### 3. Determine the Cooler Leaving Air Temperature (LAT)

$LAT = DB - [(DB - WB) \times EFF]$   
where EFF = 0.87 for Chillcel media



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Information in this brochure was correct at the time of preparation. E & OE

