

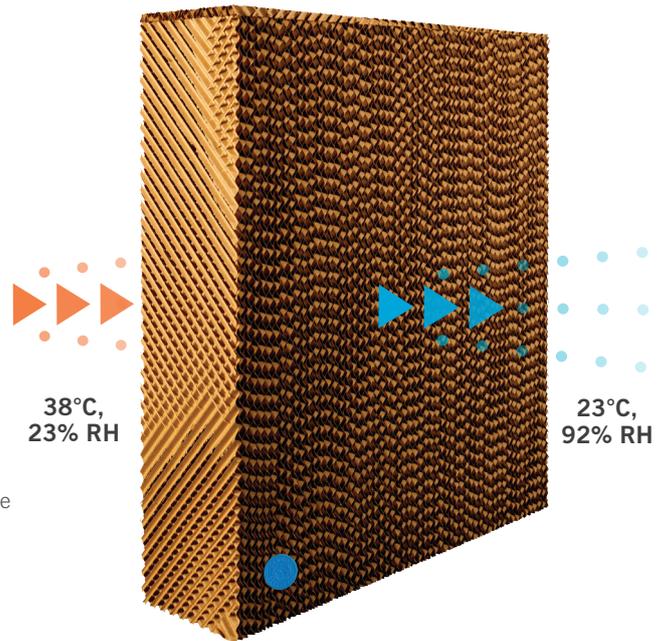


## Breakthrough Technology

Mini-Cell<sup>^</sup> Chillcel<sup>®</sup> Pad Technology

Dramatic improvement in cooling efficiency

- Revolutionary new Mini-cell structure with 4mm flute means improved cooling capacity of 8-13%\*
- New pad formulation has 25% more surface area, dramatically improving cooling efficiency\*
- Only the best quality paper is used, which gives the pads optimal saturation efficiencies to suit the harshest climates
- Pads are specifically designed for Seeley International coolers and all identified by the Genuine Seeley Parts label.



\*As compared with previous Seeley International chillcel technology. Tested in the NATA (National Association of Testing Authorities) accredited laboratory.

### The principles of evaporative cooling

Evaporative cooling is where evaporation is used to cool the air. As water is evaporated, energy is absorbed from the air, reducing the temperature. Two temperatures are important when dealing with evaporative cooling systems, the outside ambient air temperature and the cooled supply air.

The key to effective evaporative cooling is ensuring that each of the cooling pads are completely saturated at all times during operation. For this reason only the best cellulose material (paper) and thermoset resin is used to make Seeley International Mini-cell Chillcel pads.

$$\Delta T = \%SE \times (db - wb)$$

$\Delta T$  = temperature reduction

%SE = Saturation Efficiency of Mini-cell Chillcel

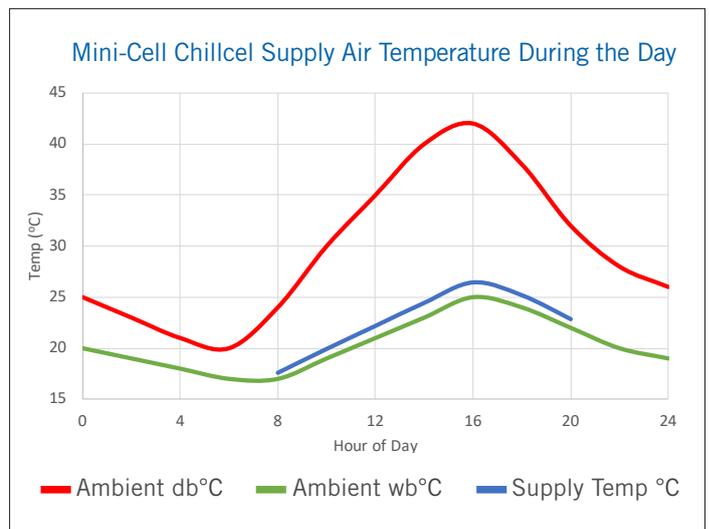
db = Dry Bulb

wb = Wet Bulb

RH = Relative Humidity

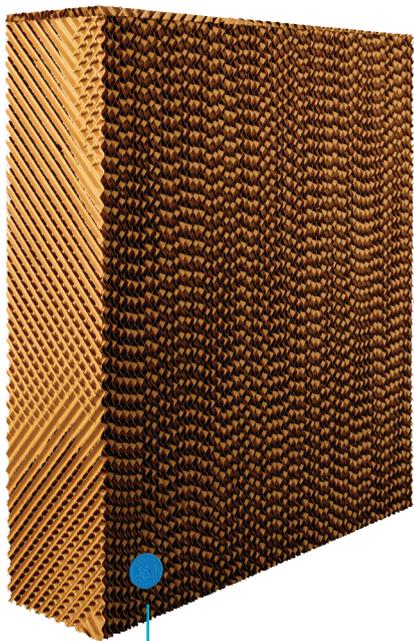
db (°C)	wb (°C)	% RH	% SE	$\Delta T$ (°C)	Supply Temp °C
35	22	31	91.5%	11.9	23.1°C
35	24	40	91.5%	10.1	24.9°C
35	26	49	91.5%	8.2	26.8°C
35	28	59	91.5%	6.4	28.6°C

<sup>^</sup>Patent pending

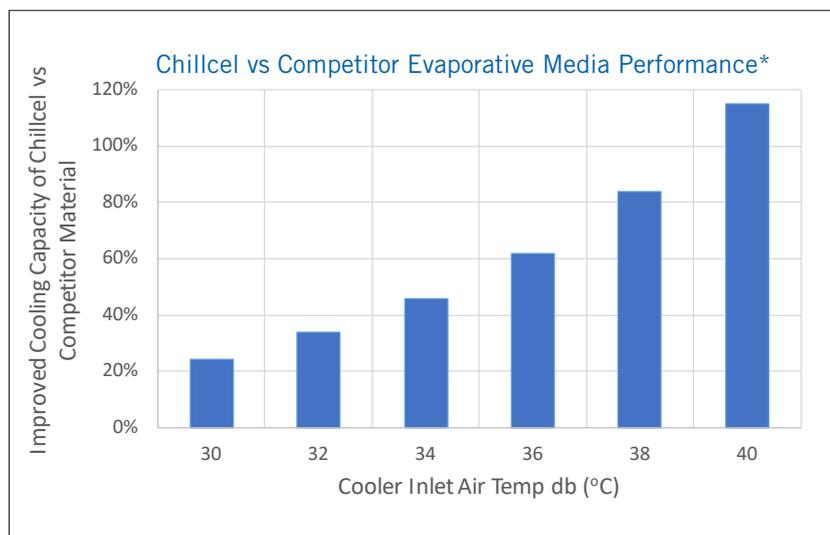
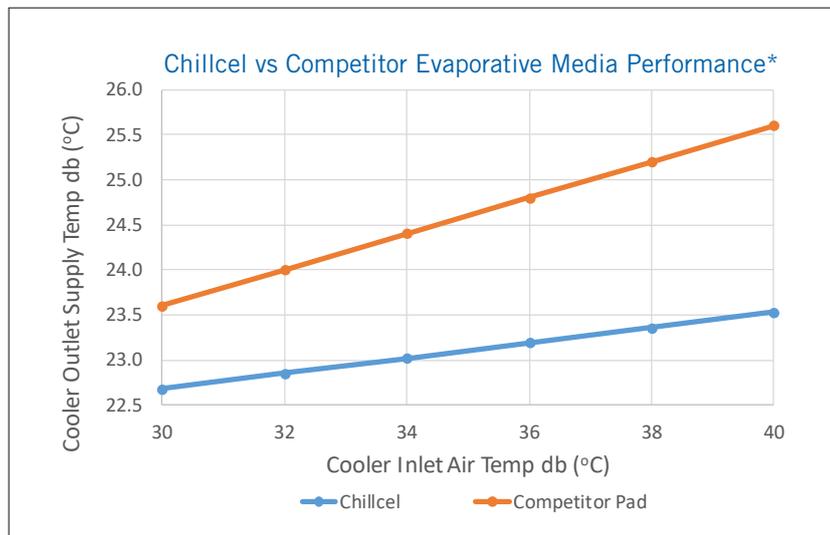


# Mini-Cell<sup>^</sup> Chillcel<sup>®</sup> Pad Technology

## Dramatic improvement in cooling efficiency



Genuine Seeley Part identification label.



\*Tested in a NATA (National Association of Testing Authorities) accredited laboratory. Cooling capacity calculation based on AS2913, Breezair TBSI580 Cooler and inlet air temperature wb 22°C. Competitor evaporative media saturation efficiency assumed to be 80%.

BREEZAIR MODEL	PAD PART NUMBER	PAD DIMENSIONS (mm)	PAD AREA (m <sup>2</sup> )
TBA 500	114606 (4-pack)	850(w) x 526(h) x 90(d)	1.79
TBA 550			
TBQ 500			
TBS 580	116242 (4-pack)	850(w) x 526(h) x 120(d)	1.79
TBSI 580			
EXH 210	114583 (4-pack)	800(w) x 635(h) x 90(d) (2 pads)	2.03
		800(w) x 635(h) x 100(d) (2 pads)	
EXS 220	116717 (4-pack)	800(w) x 635(h) x 120(d) (4 pads)	2.03



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