CeLPad Applications

- Livestocks
- Greenhouses
- Gas Turbine
- Pre-cooler for

Air-cooled condenser

CeLPad  Economical solutions for optimal cooling / humidification

HuTek (Asia) Company Limited is an ISO 9001:2008 certified joint venture between Thai and Swedish. We provide complete solution for climate; ranging from dehumidification and humidification to evaporative cooling and energy recovery. We also provide consultation on how climate control can help reduce costs, enhance productivity, and improve product quality. We provide solution to customers in more than 50 countries world-wide and hope that we can do the same for your business. Please contact us for more details.
CeLPad Evaporative Cooling Principal

Maximum Efficiency: CeLPad is designed to provide maximum contact surface between air and water. Such massive surface enables an optimum cooling and humidification effect from evaporation.

Maximum Freshness: CeLPad acts as a natural filter that purifies inlet air. Carefully designed flute angle directs water towards both the air inlet and outlet side; the water then intrinsically flushes away dust, algae, and mineral buildup on the evaporation surfaces.

Maximum Durability: CeLPad is made of special cellulose paper impregnated with insoluble chemical compounds to preserve its long working life in your system.

Maximum Toughness: CeLPad with proper water bleed-off and regular brushing, can be used in imperfect water and air conditions.

Customization: CeLPad can be customized to any sizing, shape, and color of your choice.

Solutions to any applications: CeLPad has several configurations that can ensure the most suitable solutions to your various applications.

The effectiveness of temperature reduction (∆T) depends on how effective the evaporation process is, as shown by the following formula

\[
\Delta T = \frac{\text{Wet Bulb Temperature} - \text{Dry Bulb Temperature}}{\text{Saturation Efficiency of CeLPad}}
\]

<table>
<thead>
<tr>
<th>T0 (°C)</th>
<th>T1 (°C)</th>
<th>T2 (°C)</th>
<th>Relative Humidity (％)</th>
<th>∆T (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>22</td>
<td>35</td>
<td>30%</td>
<td>-12</td>
</tr>
<tr>
<td>35</td>
<td>24</td>
<td>35</td>
<td>40%</td>
<td>-10</td>
</tr>
<tr>
<td>35</td>
<td>26</td>
<td>35</td>
<td>50%</td>
<td>-8</td>
</tr>
<tr>
<td>35</td>
<td>28</td>
<td>35</td>
<td>60%</td>
<td>-6</td>
</tr>
</tbody>
</table>

*Based on 1.5 m/s air velocity, CeLPad 070x, 150 mm thickness.

Ordering key

- Standard Height: up to 2000 mm
- Standard Width: 200 mm, 300 mm, 600 mm
- Standard Depth: 50 mm, 75 mm, 100 mm, 150 mm, 200 mm, 300 mm
- *custom size available upon request*

CeLPad Black+

- Optional protective coating to prevent CeLPad surface from constantly exposing to tough environment
- Prevent bacteria/algae/mineral deposits to anchor on CeLPad surface
- Special Anti-fouling modifier for easy cleaning
- Hardest CeLPad surface so that it can be repeatedly cleaned without damages
- Can be applied to any CeLPad configuration
- Color can be customized upon request