



Munters CELdek[®]

Evaporative Cooling Pad

Maximum Cooling Efficiency with CELdek

CELdek evaporative cooling pads are designed to provide maximum cooling, low pressure drop and years of reliable service. It is made from specifically engineered cellulose paper that is chemically treated to resist deterioration and meets the UL Environmental GREENGUARD GOLD certifications emission standards, improving the indoor air quality for both humans and livestock.

Features

- Excellent cooling efficiency due to the unique design, manufacturing methods and materials used
- High face velocity allows the air to travel through the pad without water droplet carryover
- Low pressure drop allows the high velocity air to travel through the pad without significant resistance
- Self-cleaning design due to steeper angle of unequal flute design, flushing dirt and debris from the surface of the pad
- Easy to maintain
- UL GREENGUARD Certification

The cross fluted, unequal angle pad design promotes the beneficial mixing of air and water for optimum cooling. This unique design also functions to continually direct more water to the air entering face of the pad, where the air is the hottest, driest, dirtiest and the most intense evaporation occurs.

MI-T-edg[™] Protection Features

MI-T-edg by Munters is a tough and resilient optional edge treatment applied to the air entering face of a CELdek pad. It has been formulated to withstand repeated cleaning without damaging the pad.

MI-T-edg is nonporous and quick drying. It prevents algae and minerals from anchoring themselves into the substrate of the pad, so they fall off when dried. MI-T-edg also protects CELdek pads from the damaging effects of severe weather and long term exposure to UV light.

MI-T-edg protective edge coating extends the life of the pad over that of non-treated pads. MI-T-edg is the strongest, most weather resistant edge coating available and is the only edge coating patented algae resistance.



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Design Considerations

Water Distribution

Water flow rates vary based on the depth of the media. CELdek evaporative cooling pads require 1.5 gallons per minute of water per square foot of horizontal (top) pad surface area. For installations that have intense evaporation or pad walls taller than 72", an additional 10-20% of water may be required.

Supply

The gutter and sump should be sized to supply the system with enough water to operate maximum flow rate and not overflow when the system is shut down. Usually water storage equal to 10% of the volume of the pad is sufficient.

Selection

The depth and height of media varies depending on the application. Call Munters for help in determining the requirements for specific installations. CELdek cooling pads may also be cut to fit smaller equipment.

Maintenance

Minerals: Mineral deposits can be minimized by maintaining a continuous water bleed-off or by periodically dumping the sump. The methods and/or quantity of bleed-off may vary depending on the pH and hardness of the supply water. Munters can assist you by recommending individual bleed-off rates.

Algae: If algae is allowed to grow freely on a CELdek pad it may eventually clog the flutes and inhibit the flow of air. This increases the static pressure and reduces the efficiency of the pad. Algae growth can be controlled by early implementation of simple maintenance techniques. Never use chlorine or bromine on CELdek pads.

Note: Fractional timers do not enhance the performance of a cooling pad and actually contribute to the development of scale which will reduce airflow and should not be used.

CELdek® and MI-T-edg™ are registered trademarks of Munters Corporation US Patent number 5,248,454



CELdek Standard Sizes

Depth	4", 6", 8", 12", 24"
Width	12", 24"
Height	48", 60", 72"