

CELdek®

with MI-T-edg® coating



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. Our 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

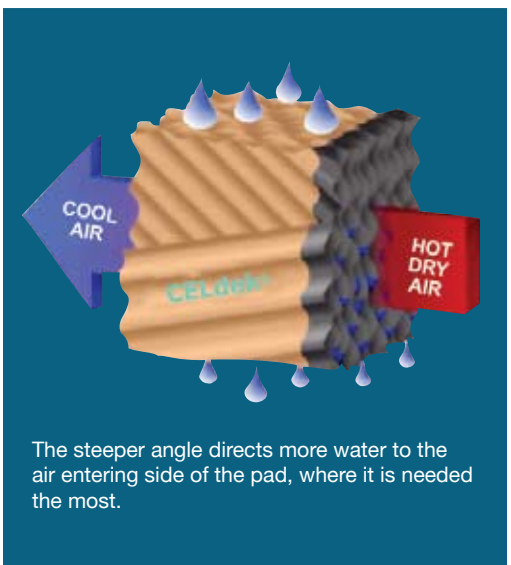
MI-T-edg® by Munters is a tough and resilient optional edge treatment applied to the air entering face of a CELdek pad. It has been formulated to withstand repeated cleaning without damaging the pad.

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 with patented algae resistance.

PRODUCT INFORMATION

- High Cooling Efficiency. Exceptional cooling rates are achieved due to the design, manufacturing and materials used in CELdek.
- High Face Velocity. The shallower angle of Munters unequal flute design allows high velocity air to travel through the pad without water droplet carryover.
- Low Pressure Drop. The shallower angle allows high velocity air to travel through the pad without significant resistance.
- Self-Cleaning Design. The steeper angle of unequal flute design flushes dirt and debris from the surface of the pad. This cleaning action directs water toward the air entering face of the pad where it is needed most.
- Simple to Maintain. In most cases, routine maintenance can be performed while systems still are operating. When properly maintained, CELdek pads by Munters will provide many years of high efficiency cooling.



The steeper angle directs more water to the air entering side of the pad, where it is needed the most.

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.

Options

Protective Edge Coating. MI-T-edg algae resistant edge coating is recommended for all CELdek evaporative cooling pads. It will promote longer pad life and easier cleaning.

CELdek Standard Sizes

Depth:	4", 6", 8", 12", 24"
Height:	48", 60", 72"
Width:	12", (24" special order)

Selection

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



Maintenance

Scale. 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. Aerotech can assist you by recommending individual bleed-off rates.

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

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.

Maintenance bulletins provide information to help maximize the efficiency and life of CELdek evaporative pads.

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

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