

HUMICOOOL DIVISION

CELdek with MI-T-edg



ENGINEERED TO PROVIDE MAXIMUM COOLING AND HUMIDIFICATION, LOW PRESSURE DROP AND YEARS OF RELIABLE SERVICE

CELdek FEATURES:

- **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.
- **Self-Cleaning Design**
The steeper angle of Munters 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.
- **Low Pressure Drop**
The shallow angle of Munters unequal flute design allows high velocity air to travel through the pad without significant resistance or water droplet carry over.
- **Simple to Maintain**
In most cases, routine maintenance can be performed while systems are still operating. When

properly maintained, Munters CELdek pads will provide many years of highly efficient cooling and humidification.

MI-T-edg PROTECTION

- **Protective Edge Coating**
Munters MI-T-edg is a tough and resilient edge treatment applied to the air entering face of a CELdek pad. It has been formulated to withstand repeated cleaning without damaging the pad.
- **Algae and Weather Resistant**
Munters MI-T-edg is nonporous and quick drying. It prevents algae and minerals from anchoring themselves into the substrate of the pad, so they slough off when dried. MI-T-edg also protects CELdek pads from the damaging effects of severe weather and long term exposure to UV light.
- **Extends the Service Life of Evaporative Pads**
Munters MI-T-edg protective edge coating extends the life of the pad over that of non-treated pads.



CELdek evaporative media is made from a specially engineered cellulose paper that is chemically treated to resist deterioration. Our cross fluted, unequal angle pad design promotes the highly turbulent mixing of air and water for optimum cooling and humidification. This unique design also functions to continually direct more water to the air entering face of the pad, where the air is hottest, driest and dirtiest, and the most intense evaporation occurs.

DESIGN CONSIDERATIONS

■ Water Distribution

Water flow rates vary based on the depth of the media. CELdek requires 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 should be used.

■ Supply

The gutter and sump should be sized to supply the system with enough water to operate at its maximum flow rate and not overflow when the system is shut down.

OPTIONS

■ Protective Edge Coating

MI-T-edg algae resistant edge coating is available for all sizes of CELdek evaporative cooling media for longer pad life and easier cleaning.

■ Distribution Pads

CELdek is designed to distribute water from the front to the back of the pad. For lateral distribution, a 2" or 3" distribution pad should be used. These specially designed pads are also protected with Munters patented edge treatment.

CELdek Standard Sizes:

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

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, and Munters 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.

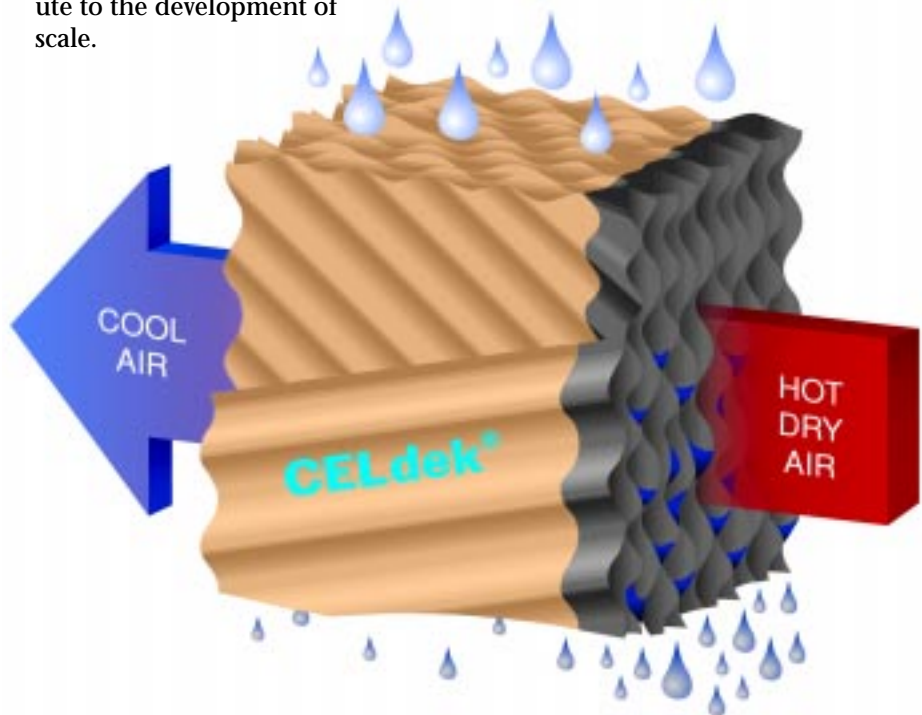
■ Algae

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.

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

SELECTION

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



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



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