

CELdek® with MI-T-edg® coating

CELdek evaporative cooling pads are designed to provide maximum cooling, low pressure drop and years of reliable service. It is manufactured 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 helps to continually direct more water to the air entering face of the pad, where the air is the hottest, driest, dirtiest and where most intense evaporation occurs.

MI-T-edg by Munters is a tough and resilient optional edge treatment applied to the air entering face of the CELdek pad. It has been formulated to withstand repeated cleaning without damaging the pad. MI-T-edg is nonporous and quick drying edge treatment. It prevents algae and minerals from anchoring themselves into the substrate of the pad, so they fall off when dried. It offers protection to the 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.





Design considerations

When it comes to water distribution system, the water flow rates vary based on the depth of the cooling media. CELdek evaporative cooling pads require around 7liters/min of water for 0.1 m² of horizontal (top) pad surface area. For installations that have intense evaporation or pad walls taller than 1.8m, an additional 10-20% of water may be required.

The gutter and pump should be properly 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.



Maintenance

As for scaling, the mineral deposits can be minimized by maintaining a continuous water bleed-off or by periodically dumping the pump. 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. Note that 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.

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 instructions provide the necessary information to help maximize the efficiency and life of CELdek evaporative pads.

Standard dimensions

Available heights: 1,000 / 1,500 / 1,800 / 2,000

Available widths: 600

Available depths: 100 / 150 / 200

All measurements are in millimiters.

The depth and height of cooling media varies depending on the application.



Your closest distributor

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