CELdek®

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.

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 with patented algae resistance.
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 Aerotech for help in determining the requirements for specific installations. CELdek cooling pads may also be cut to fit smaller equipment.

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.

Option:
MI-T-edg protective edge coating, algae resistant edge coating is recommended for all CELdek evaporative cooling pads. It will promote longer pad life and easier cleaning with UL certification GREENGUARD GOLD.

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

Australia Munters Pty Limited, Phone +61 2 8843 1594, Brazil Munters Brasil Industria e Comercio Ltda, Phone +55 41 3317 5050, Canada Munters Corporation Mason, Phone +1 517 676 7070, China Munters Air Treatment Equipment (Beijing) Co Ltd, Phone +86 10 80 418 000, Denmark Munters A/S, Phone +45 9862 3311, India Munters India, Phone +91 20 3052 2520, Indonesia Munters, Phone +62 818 739 235, Italy Munters Italy S.p.A., Chiusavecchia, Phone +39 0183 52 11, Japan Munters K.K., Phone +81 3 5970 0021, Korea Munters Korea Co Ltd., Phone +82 2 761 8701, Mexico Munters Mexico, Phone +52 818 262 34 00, Russia Munters AB, Phone +7 812 448 5740, Singapore Munters Pte Ltd., Phone +65 744 6828, South Africa and Sub-Saharan Countries Munters (Pty) Ltd., Phone +27 11 997 2000, Spain Munters Spain S.A., Phone +34 91 640 09 02, Sweden Munters AB, Phone +46 8 626 63 00, Thailand Munters Co. Ltd., Phone +66 2 642 2670, Turkey Munters Form Endüstri Sistemleri A.Ş, Phone +90 262 751 3750, USA Munters Corporation Mason, Phone +1 517 676 7070, Vietnam Munters Vietnam, Phone +84 8 3825 6838, Export & Other countries Munters Italy S.p.A., Chiusavecchia Phone +39 0183 52 11.

Munters reserves the right to make alterations to specifications, quantities, etc., for production or other reasons, subsequent to publication.
© Munters AB, 2012