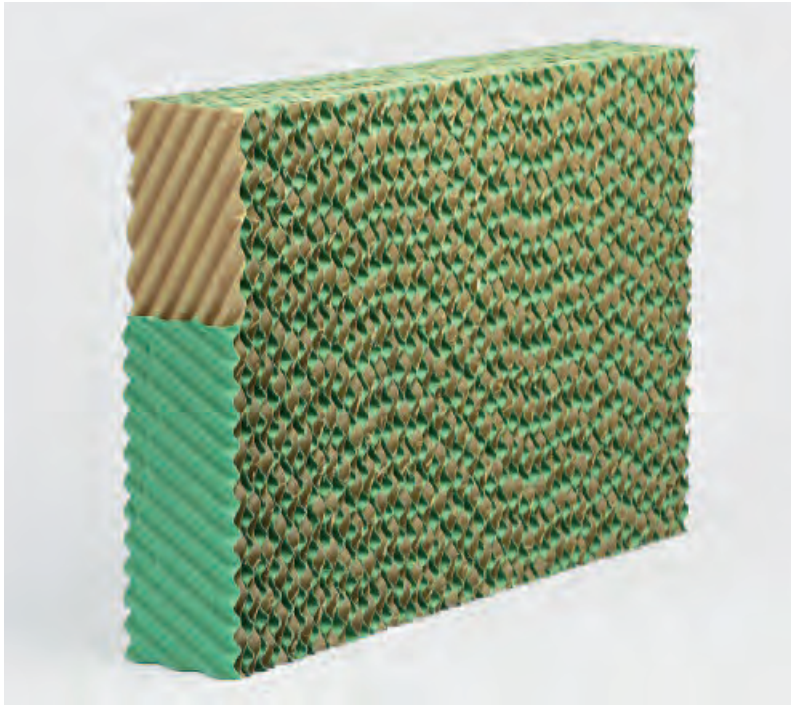


EQUIPMENT

7090-15

CELdek® 7090-15

Evaporative Cooling Pad



- High evaporation efficiency
- Superb wetting properties
- Low pressure drop when wet, leading to lower operating costs
- No water carry-over
- Low scaling
- Self cleaning
- Strong and self supporting
- Long life time
- Low running costs
- Quick and easy to install
- Environmentally friendly
- Consistent high quality

CELdek® 7090-15 evaporative cooling pad is used in systems where high efficiency cooling is required. It can be used for many different cooling purposes but is particularly suitable for cooling of live stock buildings and greenhouses.

The green stripe pad consists of specially impregnated and corrugated cellulose paper sheets with different flute angles, one steep (60°) and one flat (30°) that have been bonded together. This unique design yields a cooling pad with a high evaporation efficiency while still operating at a very low pressure drop. In addition scaling is kept to a minimum and no water carry-over occurs due to the fact that the water is directed to the air inlet side of the pad. This is where most of the evaporation takes place.

The impregnation procedure for the cellulose paper ensures a strong self supporting product, with high absorbance, which is protected against decomposition and rotting and therefore increasing longevity.

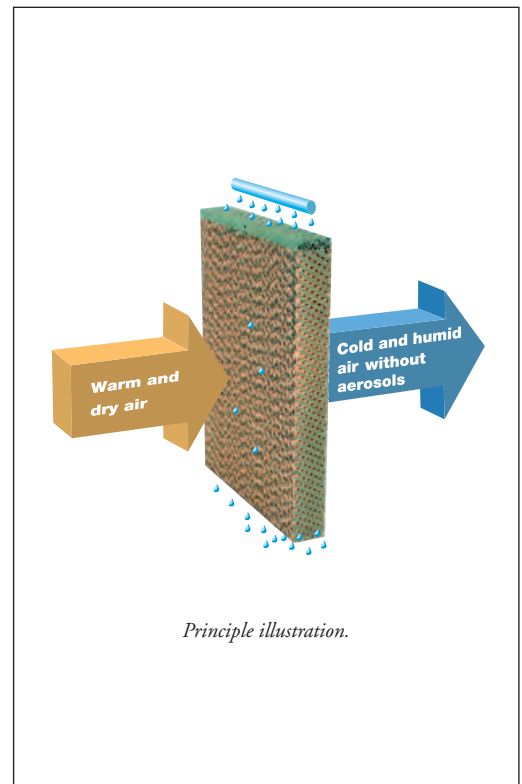
The distribution pad constitutes a vital part of a complete system and should always be ordered in combination with CELdek evaporative cooling pads. Placed on top of the cooling pad it ensures a uniform supply of the water to the cooling pad and minimises the risk of dry spots.

The evaporative cooling technology

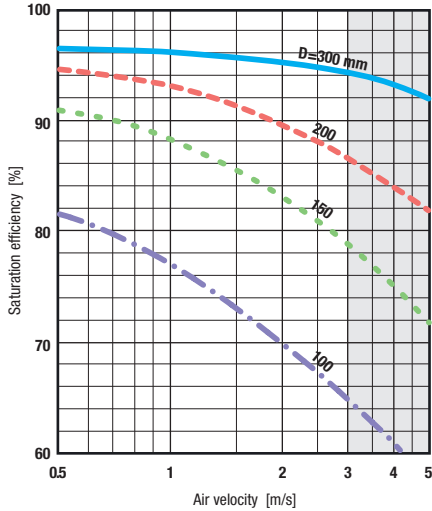
Water is circulated through a pump station and supplied to the top of the cooling pad via a distribution manifold. A distribution pad on the top of the cooling pad ensures an even water distribution. The water flows down the corrugated surface of the CELdek evaporative cooling pad. Part of the water is evaporated by the warm and dry air that passes through the pad. The rest of the water assists in washing the pad, and is drained back to the pump station through a gutter system.

The heat that is needed for the evaporation is taken from the air itself.

The air that leaves the pad is therefore cooled and humidified simultaneously without any external energy supply for the evaporation process. This is nature's own cooling process.

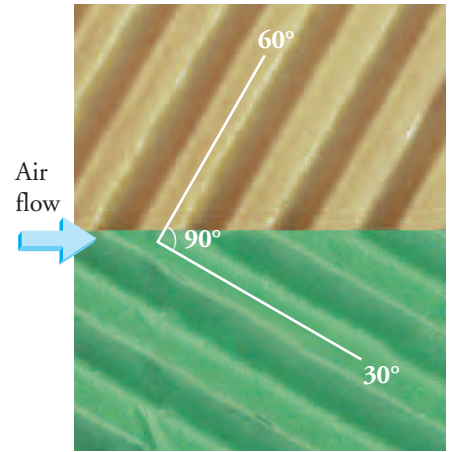
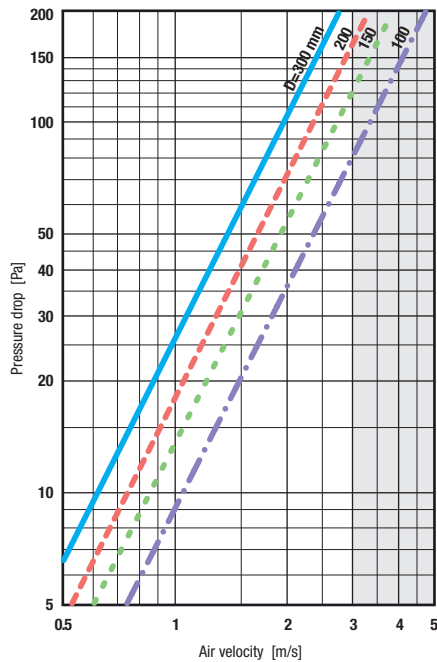


Saturation efficiency CELdek 7090-15



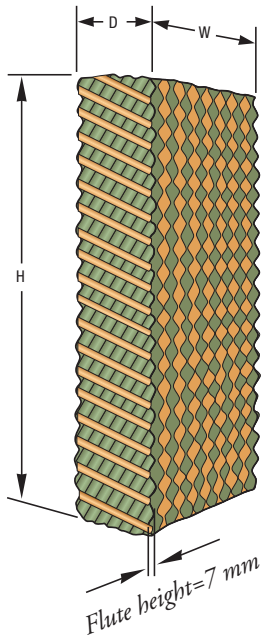
— D=300 mm ... D=150 mm Risk of droplet (grey field)
- - - D=200 mm - · - D=100 mm

Pressure drop CELdek 7090-15



Performance curves

The pressure drop diagram shows the pressure-drop over the pad in the wet condition. With the pad in a dry condition the pressure-drop is <10% less. Therefore there is minimal loss of air-flow when the pad is wet compared to when it is dry.



**Order information
Evaporative cooling pads**

CELdek 7090-15-X-X-X

Height, mm _____

Width, mm _____

Depth, mm _____

e.g., CELdek 7090-15-1800-600-200

Standard heights,

H = 1000, 1500, 1800 and 2000 mm

Standard width,

W = 600 mm

Standard depths,

D = 100, 150, 200 and 300 mm

**Order information
Water distribution pads**

CELdek 70120-0-X-X-X

Width, mm _____

Depth, mm _____

Thickness, mm _____

e.g., CELdek 70120-0-600-200-30

Standard width,

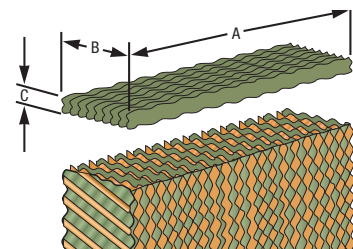
A = 600 mm

Standard depths,

B = 100, 150, 200 and 300 mm

Standard thickness,

C = 30 and 50 mm



CELdek® is developed by Munters AB and produced worldwide.



Munters AB, Isafjordsgatan 1, P.O. Box 1188, SE-164 26 Kista, Sweden. Phone +46 8 626 63 00.

www.munters.com

Australia Munters Pty Limited, Phone +61 2 6025 6422, **Brazil** Munters Brasil Indústria e Comercio Ltda, Phone +55 41 3317 5050, **Belgium** Munters Belgium NV, Phone +32 15 20 55 75, **Canada** Munters Incorporated, Phone +1 905 858 5894, **China** Munters Air Treatment Equipment (Beijing) Co. Ltd., Phone +86 10 80 418 000, **Denmark** Munters A/S, Phone +45 9862 3311, **Finland** Munters Finland Oy, Phone +358 207 768 230, **France** Munters France S.A., Phone +33 1 34 11 57 50, **Germany** Munters Euroform GmbH, Phone +49 241 89 00 0, **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, Munters Italy S.p.A., **Mondovi** Phone +39 0174 560 600, **Japan** Munters K.K., Phone +81 3 5970 0021, **Kingdom of Saudi Arabia and Middle East** Hawa Munters, Phone +966 1 241 8808, **Korea** Munters Korea Co. Ltd., Phone +82 2 761 8701, **Mexico** Munters Mexico, Phone +52 818 262 54 00, **Russia** Munters Europe AB, Phone +7 812 448 5740, **Singapore** Munters Pte Ltd., Phone +65 744 6828, **South Africa and Sub-Sahara Countries** Munters (Pty) Ltd., Phone +27 11 997 2000, **Spain** Munters Spain S.A., Phone +34 91 640 09 02, **Sweden** Munters Europe AB, Phone +46 8 626 63 00, **Thailand** Munters Co. Ltd., Phone +66 2 645 2708 12, **United Kingdom** Munters Ltd., Phone +44 845 644 3980, **Turkey** Munters Form Endüstri Sistemleri A.Ş., Phone +90 322 231 13 38, **USA** Munters Corporation **Fort Myers** Phone +1 239 936 1555, Munters Corporation **Mason** Phone +1 517 676 7070, **Vietnam** Munters Vietnam, Phone +84 8 825 6838, **Export & Other countries** Munters Europe AB, Phone +46 8 626 63 00.

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