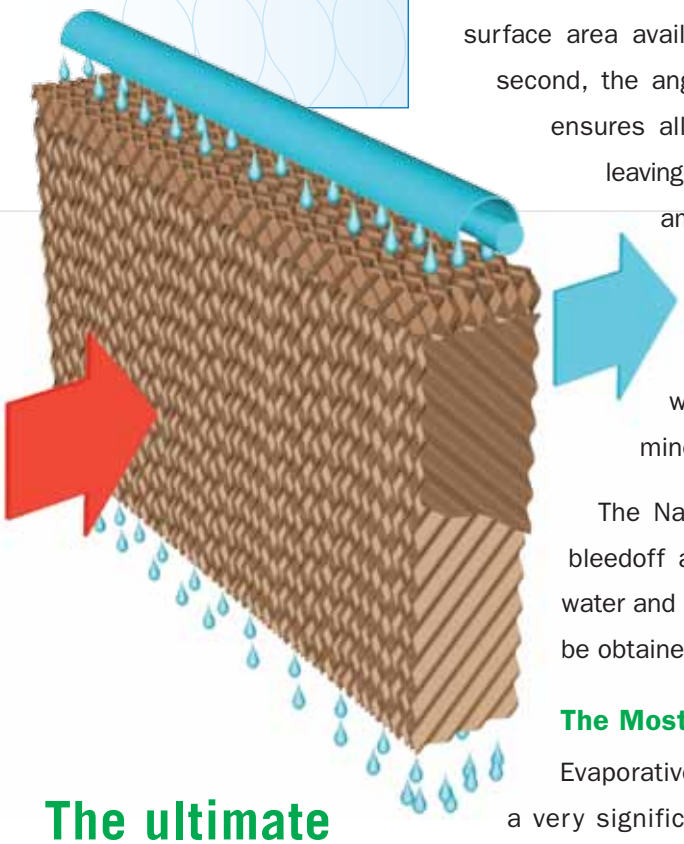
NATURE COOL

Evaporative Cooling Pads

The ultimate cooling pad ...inside and out!

ROTORSOURCE

Nature Cool™ Evaporative Cooling Pads



Nature Cool™ offers both Cel and Glas Pad media. Our Cel Pad is manufactured from a special cellulose and our Glas Pad from a unique glass fiber paper which is impregnated and treated to resist biological and mechanical degradation. This provides media longevity and high adsorption rates for optimum system efficiency. The cross fluted design of the Nature Cool™ media results in two important effects. First, it optimizes the amount of surface area available to hold the water which the air flows over. And second, the angles cause the air to change directions in a way that ensures all of the air will touch a wetted media surface before leaving the pad. Therefore, the air leaves the pad with the greatest amount of cooling and/or humidification possible. Nature Cool™ pads also act as a natural filter that purifies the inlet air. The carefully designed flute angle directs water towards both the air inlet and outlet side; the water then intrinsically flushes away dust, algae, and mineral build up on the evaporation surfaces.

The Nature Cool™ pad is designed tough. With proper water bleedoff and regular maintenance, it can be used in imperfect water and air conditions. Exact and consistent humidity control can be obtained through evaporative cooling with Nature Cool™ pads.

The ultimate cooling pad... inside and out!

The Most Natural System of Cooling

Evaporative cooling utilizes the basics of air and water to produce a very significant temperature drop. Evaporative cooling can also create a desired amount of humidification to increase efficiency of machinery or comfort in buildings. Because of its effectiveness in cooling and humidification, evaporative cooling is the primary choice in such industries as: gas turbine, greenhouse, livestock farming, automobile painting, residential cooling, and commercial building climate control.

An evaporative cooling system consists of pads which are designed to absorb and hold water and give maximum surface area for air and water contact. As air passes through the pads the natural evaporation of water creates cooled and humidified air.

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Pad Sizes and Water Distribution

Nature Cool™ pads are installed side-by-side with no intermittent joints or framing. Maximum size is 24" deep x 24" wide x 72" high. The pads can be cut to 4", 6", 8", 12" or 18" in depth and to any height up to 78" high. For taller pad walls, the media can be stacked to a height of 12', using intermediate supports along the horizontal joints.

Water flow is based on the width and depth of the pad. Nature Cool™ pads require 1.5 gallons per minute per square foot of horizontal surface. For applications that require distribution pads, they are available in 1", 2" and 3" thicknesses.

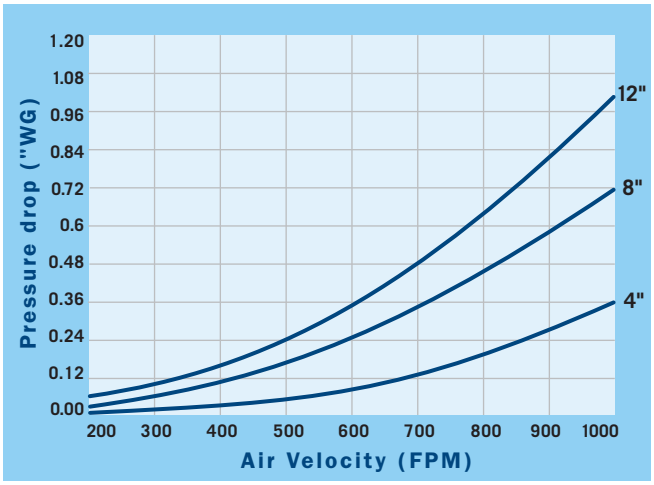
Diverse Application of Nature Cool™ Pads

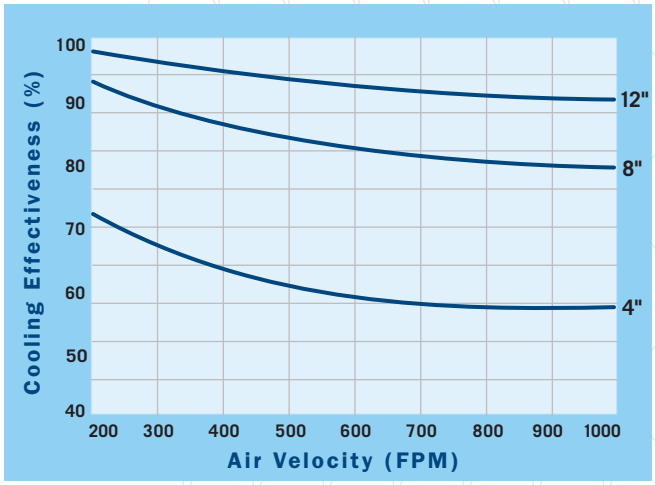
The evaporative cooling technology benefits many industries. Greenhouses are able to maintain climate control even in the hottest, sunniest months. Gas turbine generators utilize the cooler and denser air to increase output by as much as 24% when it is hottest and power demands are the greatest. Nature Cool™ can increase quality and decrease cost in the livestock confinement industry. Humans greatly benefit from evaporative cooling when homes and buildings are cooled in the summer and humidified in the winter.

The Benefits of Evaporative Cooling

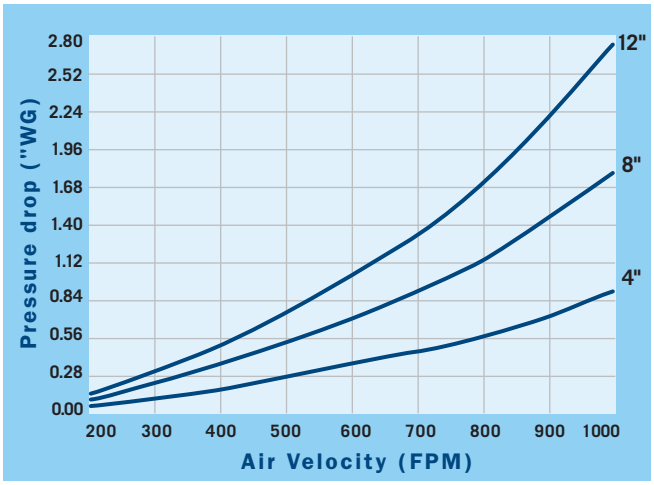
- Operating costs are low.
- Low initial equipment costs.
- Does not use environmentally harmful refrigerants.
- Minimal maintenance.
- Consistent and predictable performance throughout life-span of pads.
- Media acts as a self-cleaning air filter.
- Can be used in all geographical areas.

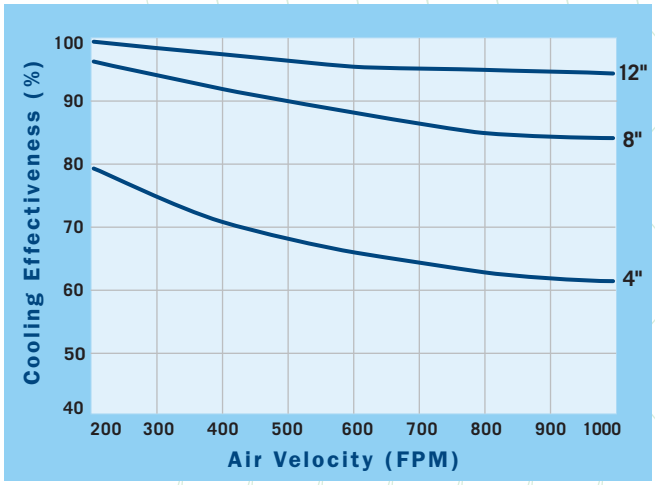
Glas Pad 7060 Performance Curves





Glas Pad 7090 Performance Curves





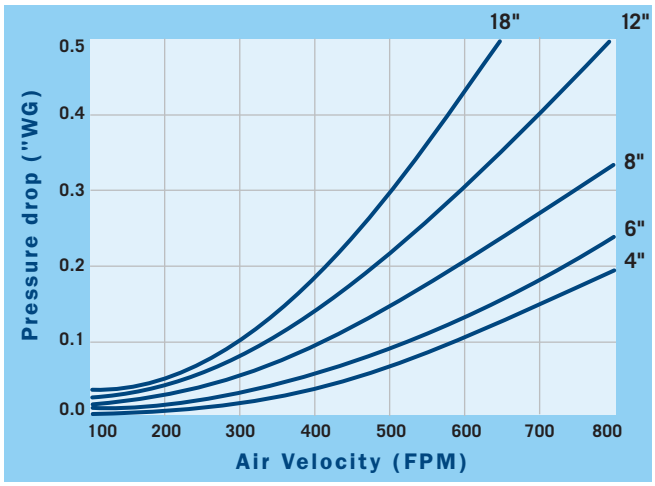
Media Specifications

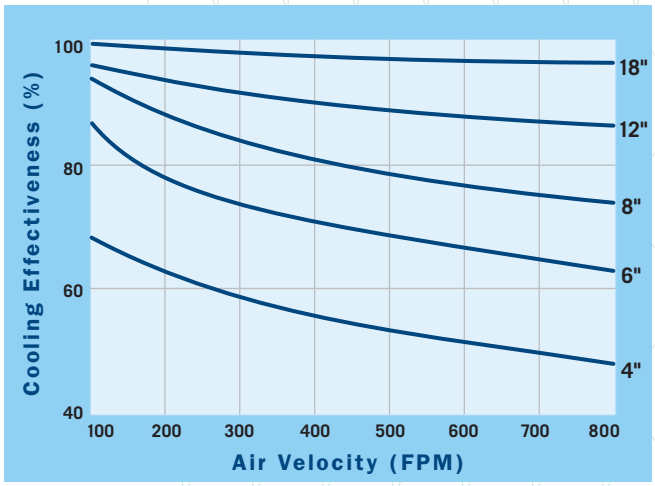
Cel Pad 7-Series	
Base Sheet	Cellulose
Dry Weight	1.8 lb/f^3
Wet Weight	3.5 lb/f^3
Max Water Temp	130°F
Max Air Temp	300°F
PH Range	6-9

Cel Pad 5-Series	
Base Sheet	Cellulose
Dry Weight	2.5 lb/f^3
Wet Weight	4.9 lb/f^3
Max Water Temp	130°F
Max Air Temp	300°F
PH Range	6-9

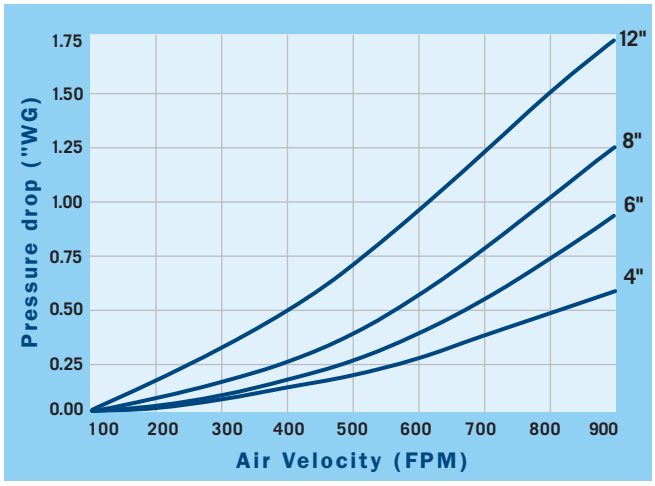
Glas Pad 7-Series	
Base Sheet	Glass Fiber
Dry Weight	2.2 lb/ft^3
Max Water Temp	130°F
Max Air Temp	350°F
Flamability Risk	None
PH Range	6-8
Fire Classification	Class A2, S2, D0 based on EN ISO1182 and EN 13823

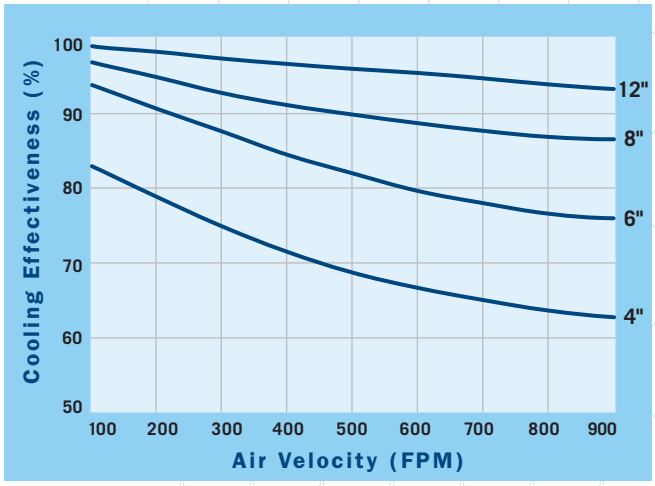
Cel Pad 7060 Performance Curves



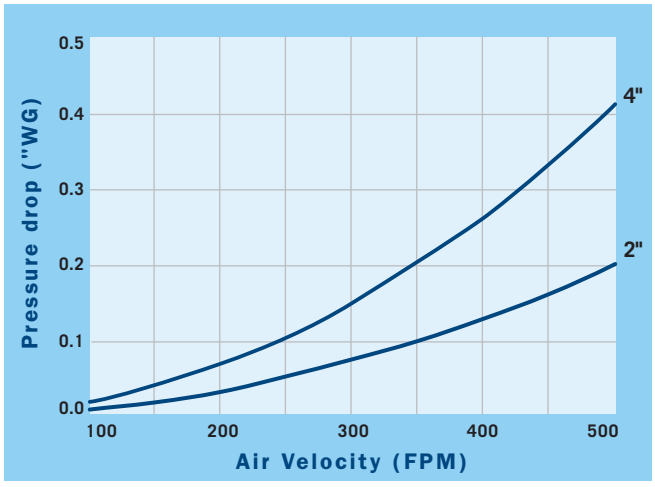


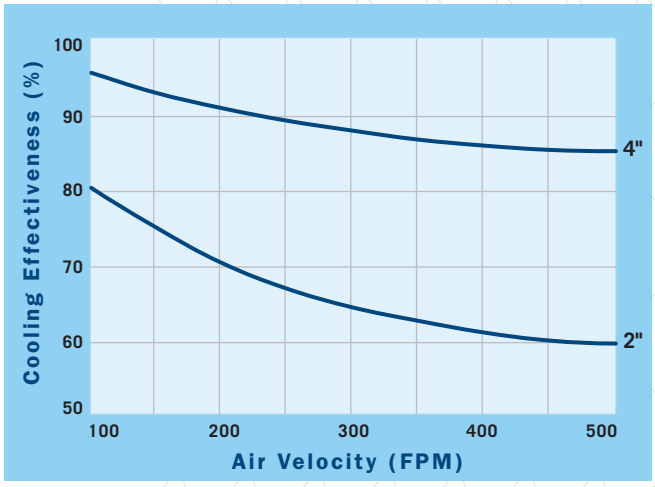
Cel Pad 7090 Performance Curves





Cel Pad 5090 Performance Curves





Nature Cool Products on the Job

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