

Synth Pad

Synth Pad (Synthetic Pad)

Is a Humidifying pad obtained by the assembly of thermoformed self extinguishing PVC.

Its patented design allows to recover the efficiency that wouldn't be possible with a non permeable material: the inlet section, with its wide honeycomb, minimize the pressure drop; the vertical flute, with its unique spiral groove, is made to ensure that the water reaces uniformely the bottom of the panel; the crossed flutes with a variable angle structure, that include vertical interruptions to allow the fall of water from a chanell to the other, increases the retention time and the contact surface, avoiding water stagnation; the exit is characterized by a rectilinear flute, slighty inclined, that works as water recuperator and reduce the air pressure drop due to a sudden expansion.

Working Principle:

The working principle is very simple ad it is a natural process.

Water is feed by a pump from the panel top and is suitably spread by a distribution system, that can be improved thanks to our *Synth Pad distributor*, which uniformly wets the entire surface.

The air which pass through the panel is then cooled and humidified,

Applications:

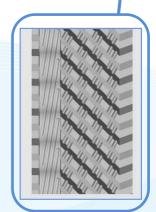
The humidifying *Synth Pad* is used in many applications where the maximum efficiencies of air cooling and humidification are required, keeping down the air pressure drop, and is also chosen by Engineers due to its peculiar characteristics such as being **self-extinguishing**, **unputrefying** and for its size stability in time.

The principal systems where it is used are:

- Civil and Industrial Air Handling Units;
- Evaporative Condenser Chiller Cooler
- Humidifying Sections
- Adiabatic Coolers

Principal Advantages:

- High Efficiency
- Low Air Pressure Drop
- Self-Bearing
- Low Exercise Costs
- Fast Installation
- Long Useful Duration
- self-extinguishing (PVC is certified ASTM E-84)



We Recommend:

- Humidification Section Periodic Control
- Foresee intermediate water distribution systems for section taller than 2 m
- Periodic Control on water hardness



Technical Data

Standard Pad Sizes:				
Height (mm)	1200	1500	1800	
Width (mm)	600- for relevant quantities available made to size			
Depth (mm)	100	150	200	

Pieces per Box		
100 mm DeepPads	10 pcs	
150 mm DeepPads	6 pcs	
200 mm Deep Pads	5 pcs	

	Synth Pad in PVC
Material	Regenerated PVC
Color	black
Reference Standards	Standard Test Method for Surface Burning Characteristics of Building Materials ASTM E-84
Working temperature	-5 °C / + 60 °C

Synth Pad in PVC

