



COOLING SYSTEM

FOGGING SYSTEM

Fogging system assures an effective humidifying, cooling and dust binding air in the barn. It works according to the principal of the direct evaporative cooling. Water is injected through high pressure nozzles with a pressure of 70 bar creating fog. When the fog evaporates immediately, it extracts heat and in consequence causes the cooling of the temperature inside the barn.

The fogging system allows an effective air-conditioning on the pig level. The system cooperates successfully with any kind of ventilation system. In addition, it can operate separately in every single compartment with only one pump unit, so different house areas can be cooled, moistened and soaked.



Components

- ❧ Stainless steel pipes with welded adapter
- ❧ Pumps with direct drive
- ❧ Nozzle line with Brass/SST nozzle
- ❧ Central Filter unit with medicator

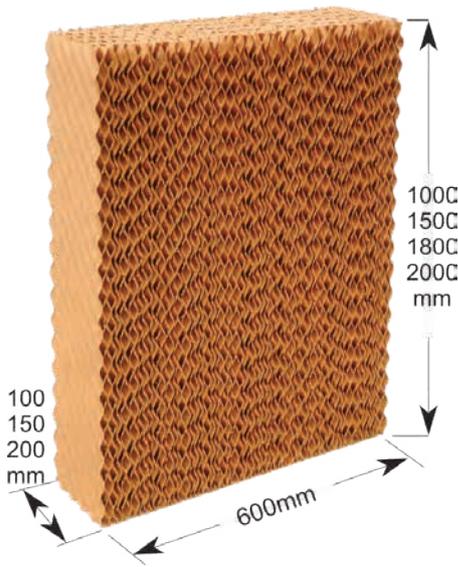
Advantages

- ❧ Fast cooling in the house without any wetness
- ❧ Increased humidity to every value desired
- ❧ More active animals due to proper climate
- ❧ Better feed conversion
- ❧ Optimum performance
- ❧ Less aggression, natural animal behavior
- ❧ Less sows returning to heat
- ❧ Effective dust binding influences positively the breath organs of the animals
- ❧ Less application of medication



COOLING PADS

The specially designed paper honeycomb structure represents an effective cooling technique for pigs' farms on hot days. The system works on evaporation basis: the process of converting water from a liquid to a vapor removes heat energy from the incoming air lowering its temperature but increasing its relative humidity.



The pads are manufactured with special craft paper of pure cellulose impregnated with non-phenolic resins and treated in order to guarantee a high absorbent capability and a mechanical resistance to make it rigid and self-supporting.

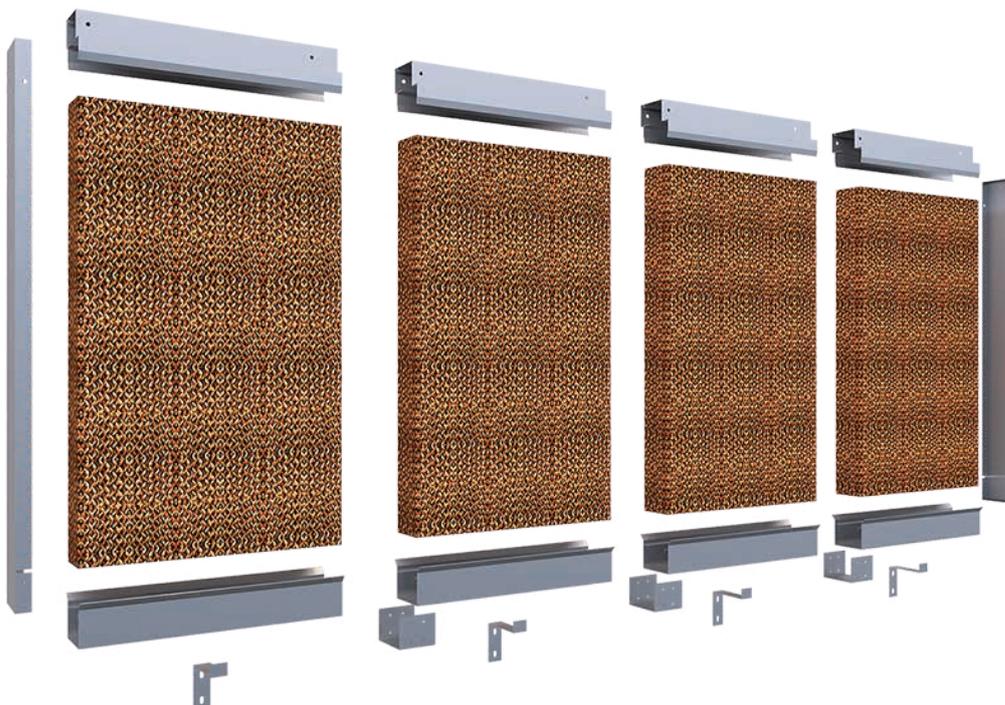
Porktec provides cooling pads with different sizes and thickness to adapt any needed specifications.

Advantages

- 🌀 Low cost, easy installation, operation and maintenance
- 🌀 High efficiency and energy-saving
- 🌀 Good ventilation performance
- 🌀 Eco-friendly

ALUMINIUM FRAMES

Porktec provides all the necessary accessories for an optimal installation and operation of the cooling system.



Frames are made of:

- 🌀 3m long special aluminum alloy gutters, with 10, 15 and 20 cm thicknesses.
- 🌀 Plastic plugs, joints and covers for the closing and jointing of gutters.

The Frame is assembled easily by adding silicon in the specified spots and connecting the pieces together with a little pressure, without using any screw or rivet.

COOLING PADS

PVC FRAMES

Porktec also provide a new concept with the full plastic cooling pads frames, with integrated water distribution, pump and water tank, offering many advantages.

System components

- ⦿ All profiles and parts are easily assembled by clip-function without the need for any equipment or metallic screws.
- ⦿ The bottom gutter works as water reservoir eliminating the need of an additional water tank.
- ⦿ Water circulation and distribution is done through a complete set of centrifugal pump with integrated filter and 2 plastic pipes.
- ⦿ Rigid long lasting construction using only PVC or stainless steel for 100% corrosion protection.



Pad climate system includes all necessary components, completely assembled :

⦿ Water gutter system

⦿ Water distribution system

⦿ Supply unit

It is available in different lengths (from 3 to 42 m) in both 10 and 15 cm thicknesses.

