

EDSTROM Spray Cool and Drip Cool Systems

...because hot weather is tough on pigs!



Keep Your Hogs in Top Condition for Quality Performance!

The Need for Cooling

Generally the most effective way for animals to keep cool in hot weather is by sweating. Unfortunately pigs cannot sweat and begin to suffer heat stress at temperatures over 75°F.

Some effects of heat stress are quickly noticed – reduced feed consumption, slower rates of gain, and in extreme heat, death of larger animals. Heat stress also hurts the reproductive efficiency of your breeding stock. Diminished libido and reduced semen quality result in reduced live birth counts and lower weights.

EDSTROM designs and manufactures a cost-effective, practical cooling method of using small amounts of water to wet the pigs' skin intermittently in a controlled manner. The evaporation of the water from the skin cools the animal.

Use the EDSTROM Drip Cool and Spray Cool Systems to reduce the heat stress on your herd and keep your animals in top production.

Problem – Heat Stress

- Heat stress for 72 hours reduces sperm count in boars by 70% for up to 6 weeks. The empty crates in November are due to summer heat.
- Heat stress during late gestation can increase born deads by 4 - 5 piglets, and the live births will show reduced weight.
- Heat-stressed lactating sows will go off feed, lose weight, and have milking problems – all contributing to reduced litter weaning weights.
- Heat-stressed growing and finishing pigs have inefficient feed-to-gain ratios.

Solution – EDSTROM Spray/Drip Cooling

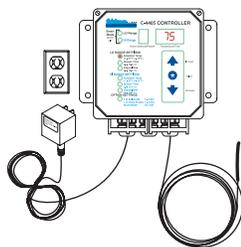
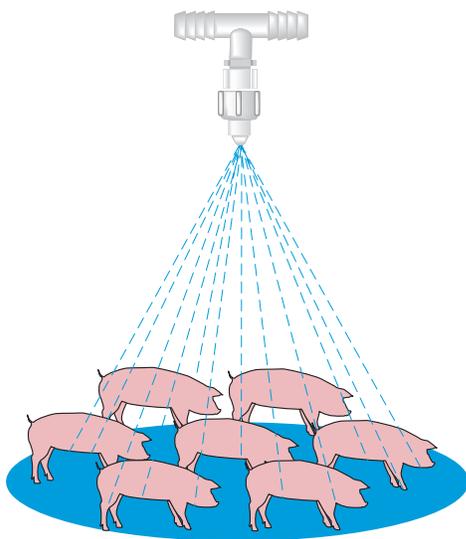
- National conception average is 70 - 80%. Increase that by 10% with drip-cooling during breeding.
- Drip cooling the sow means 42% reduction in piglets born dead, with 16% higher average birth weights.
- Drip cooled sows show 10% higher litter weaning weights. Less crushing of piglets, return to estrus on time.
- Spray cooling pigs shows a 34% faster gain on 10.6% less feed.

EDSTROM Cooling Systems Keep Hogs Cool and Healthy

EDSTROM Spray Cool System

Spray Cooling emits a coarse droplet spray that, based on research, is far more effective than a fogger. It is used on growing/finishing pigs and breeding stock where animals are housed in group pens.

The Spray Cool System is often used when the hot weather subsides to train and promote good dunging habits. Pork producers using this method swear that it cuts cleaning time in half.



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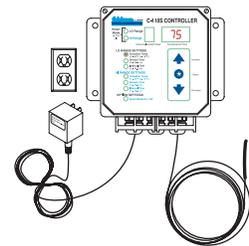
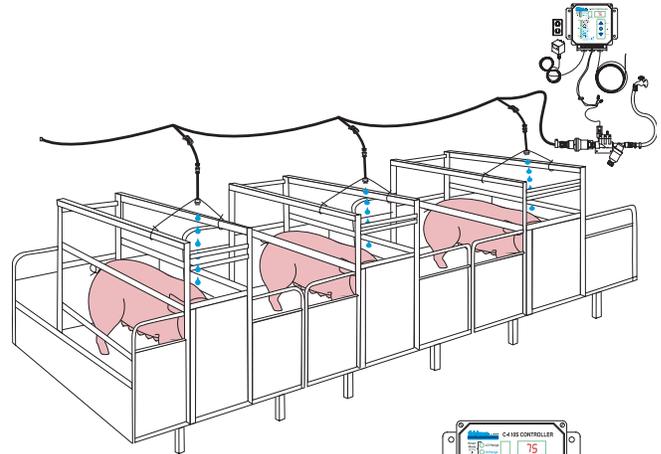
EDSTROM C-440S Controller

The C-440S Controller has the ability to operate up to four electric water valves in sequence. The C-440S is ideal for use with Spray Cool systems requiring many spray nozzles. By using multiple electric valves, the plumbing can be divided into zones – each zone being serviced by a separate electric valve. The water flow demand on the facility's water system is reduced because the valves are activated in sequence by the C-440S Controller.

The C-440S can also monitor up to four separate temperature probes to allow accurate cooling in different zones.

EDSTROM Drip Cool System

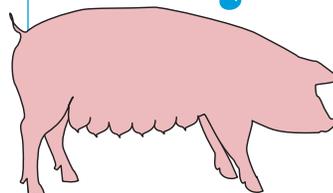
Drip Cooling is used on sows in the farrowing or gestation unit and boars in individual pens. Using this method, SMALL amounts of water are dripped onto the neck and shoulders of the animals. This cools the animals with little or no runoff to affect the piglets or the pits.



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EDSTROM C-110S Controller

The C-110S Controller is designed to operate a single electric water valve. The electric water valve can be mounted remotely from the Controller; and because it is low voltage, 24 VAC, no dangerous line voltage connections are required for installation. The C-110S Controller is ideal for use with the Drip Cool System, where only one electric valve is required.



Both Controllers are Covered by a 2-Year Warranty!

The Right Amount of Cooling at Any Temperature

These easy-to-program controllers can be set to operate either in Two-Stage Mode or Smart Mode. Two-Stage Mode provides traditional two-level cooling, but Smart Mode provides innovative, infinite stage cooling. In Smart Mode,

the interval time (period of no showering) is automatically adjusted as the temperature changes. As temperature increases, the interval time will decrease, thus giving animals more frequent shower cycles to reduce heat stress.