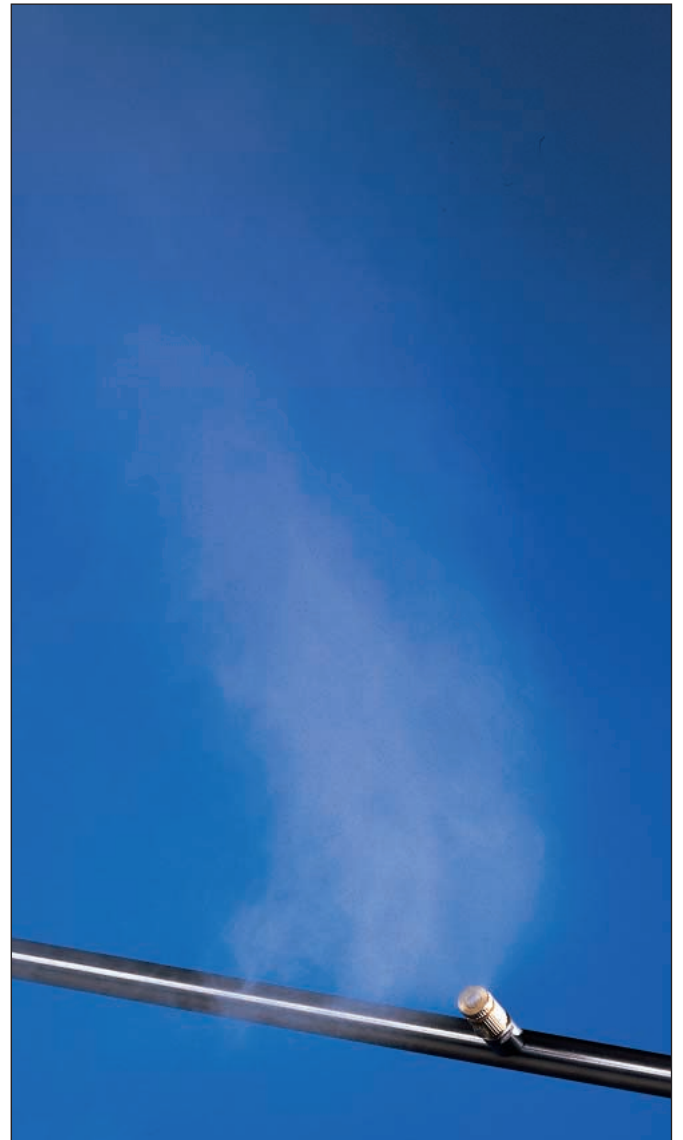




Big Dutchman

Fogging Cooler



The cooling system for optimum temperatures in every house

Fogging Cooler – the efficient high-pressure fogging system

Big Dutchman's Fogging Cooler is the ideal system for cooling and humidifying your house. Special high-pressure nozzles atomise water into a micron aerosol fog which is immediately absorbed by the warm air. Thus, air humidity

increases, the existing heat energy in the house is dissipated by evaporation and temperature decreases within a few minutes. Only an electricity supply and a water pipe are required for employing this system in your house.

Advantages

- **efficient cooling in the house** => uniform performances, even during high summer temperatures, no heat stress;
- **constant air humidity** in summer and winter => increased welfare in an improved indoor environment;
- **avoiding dust formation** => positive effect regarding respiratory diseases;
- **distributing aromatics and disinfectants** => higher resistance to diseases;
- **low water consumption** => litter and house floor remain dry;
- **system is used for soaking** before a thorough cleaning;
- **controlled by MC 34 H or MC 36 A climate computers** => for precisely maintaining constant temperatures.



Using the Fogging Cooler system in a broiler house

Main components of the system

1. Nozzle

The special anti-drip nozzle made of stainless steel and brass is characterised by a very low water flow rate and a very high rate of forward discharge velocity producing an extremely fine aerosol fog. A special O-ring ensures a completely water-tight, leak-proof seal.

2. High-pressure pump

The high-pressure pump is available in different flow capacities. It provides the necessary system pressure (50-60 bar) and activates the nozzles via a control system.

3. Filter unit

To prevent blockage in the nozzles, each pump is equipped with a separate filter unit in front of the pump. This is an exchangeable cartridge filter which has 2 or 4 filter stages depending on the water quality. Thus, all particles that exceed a size of 1 micron are removed.

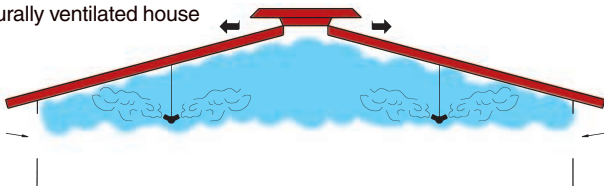
4. Control

The system should be controlled by means of a climate computer (MC 34 H or MC 36 A). It will activate the system via temperature or air humidity probes.

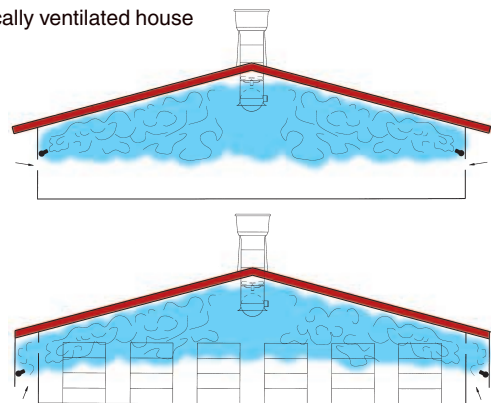
Installation examples

There are several ways to install the Fogging Cooler system, each one depending on the house construction. The optimum positioning of the nozzles depends on the fresh air intake and, if possible, they should spray into the fresh air stream.

Naturally ventilated house



Mechanically ventilated house



Big Dutchman

Big Dutchman International GmbH · P.O. Box 1163 · D-49360 Vechta, Germany
Tel. +49(0)4447/801-0 · Fax +49(0)4447/801-237 · E-Mail: big@bigdutchman.de