HATCHERY HUMIDIFICATION

Can humidification improve your production?

Humidification levels in the hatchery industry significantly impact the process and the final product. At the “egg” stage, insufficient humidity levels can affect shell strength and density, and resultant birth rates and maturity. Once eggs have hatched, maintaining the ideal humidity helps the chicks through initial stages of growth before being moved to other facilities.



Most hatcheries consist of different rooms and processes of varying sizes and humidity requirements. MicroCool’s zone controllers at each location are monitored from external units, or as part of the overall climate control system. Controllers feature the Drain Control System (DCS), uniquely designed to reduce shock and vibration.

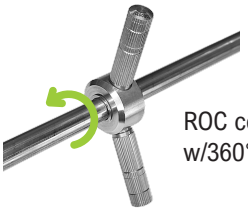
- Bacteria-free Fog
- Zone Control
- Integrated Pump/ Nozzle System

BENEFITS OF MICROCOOL HUMIDIFICATION

- Clean, pure, bacteria free humidification
- Exact, focused distribution of humidity (via numerous nozzle options)
- Microscopic fog droplets (6-10 microns) quickly flash evaporate
- Zero wetting due to drip-free nozzles
- Stainless steel lines and fittings are corrosion and weld-free
- Variable Frequency Drive (VFD) pumps generate 1,000 psi / 69 bar water pressure
- Pump control panel is UL508A listed
- Low energy usage (see chart below)
- Simple installation



IBEX VFD Pump



ROC collar w/360° rotation

IBEX Pumps

The Variable Speed Driven (VFD) pumps generate 1,000 psi (69 bar) water pressure and deliver from 2 to 18 US gpm (7.5 to 68.1 lpm). A convenient HMI screen provides access to a full range of safety, performance and service settings. IBEX pumps feature internal safety equipment and are built to UL specifications.

Stainless Steel ROC Line + Nozzles

Stainless steel lines and fittings are corrosion and weld free. The ROC (Rapid Orientation Collar) system is a MicroCool exclusive and allows each nozzle to be rotated 360° which affords maximum flexibility and eliminates warping associated with other systems.

Nozzle design and spacing are custom engineered with a careful eye on hydraulic pipe losses.

ENERGY COST COMPARISON

Comparative energy cost to evaporate water and generate humidity based on $0.15 per Kw hr

Technology	Humidity Output lbs/hr	Electrical Energy US$/hr
Electrode Steam	100 lbs/hr	$ 5.40
Compressed Air & Water	100 lbs/hr	$ 0.75
Ultrasonic	100 lbs/hr	$ 0.38
Centrifugal	100 lbs/hr	$ 0.30
Fog / Mist	100 lbs/hr	$ 0.23

MICROCOOL

A MeeFog Company

World leaders in fog and mist technology for cooling, humidification, air quality control

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