GREENHOUSE FOGGING

Why Growers Go with MicroCool

MicroCool's advanced fogging technology creates — and maintains — the conditions plants need to achieve their maximum potential. MicroCool works closely with growers to help create the perfect greenhouse environment. MicroCool specializes in greenhouse humidification and cooling system designs.



Continuous monitoring and control are essential for maintaining optimal quality and production in horticulture environments. MicroCool fog systems offer instant cooling relief to crops, during periods of high temperature, by utilizing flash evaporation and converting heat inside the greenhouse. It seamlessly integrates with existing climate computers, ventilation systems, and other control elements.

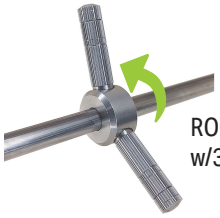
- Immediate Cooling
- Zone Control
- Integrated Pump + Nozzle Systems

BENEFITS OF A MICROCOOL FOG SYSTEM

- Clean, pure, bacteria free fog (with Reverse Osmosis)
- Precise distribution of fog throughout the greenhouse
- Microscopic fog droplets (10 microns) quickly flash evaporate
- Zero wetting due to anti-drip nozzles
- Stainless steel and flexible line options provide maximum installation flexibility
- ROC (Rapid Orientation Collar) nozzles allow easy adjustment without tools
- Wide variety of pump options meet any humidification / cooling output needs
- Low energy usage
- Simple installation



IBEX Pump



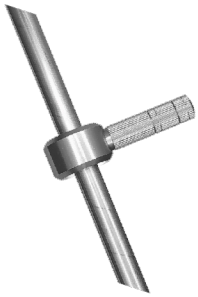
ROC collar w/360° rotation

VALUE ADDED FEATURES

- Grow year-round in any climate
- Prevent crop damage and save water with anti-drip nozzles
- Optimize propagation
- Instantly reduce temperatures within the greenhouse
- Maintain even growth and production
- Integrate with on-site climate control computer systems
- Conserve resources with low energy pumps
- Personalized system design
- 1, 2, or 3 nozzle options

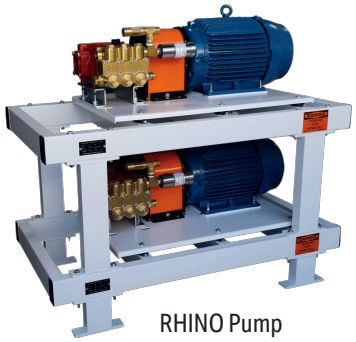
A variety of nozzle and line options can meet any configuration requirement.







8 pump options range from 0.3 to 30 US gpm
and support from 1 to 1400 nozzles per pump



RHINO Pump

All pumps feature a VFD (variable frequency drive) on a UL listed 508 A panel inside an enclosure. As the water flow rate of the system changes (for example with more or less nozzles in operation) the controller will increase or decrease the motor speed to maintain the required pressure (1,000 psi / 69 Bar).

GREENHOUSE FOGGING





Plants at high humidity levels may stop transpiring (become dormant) as the osmotic pressure equalizes. Most growers prefer to keep below set humidity levels and sacrifice a few degrees extra cooling rather than create excess humidity. **MicroCool controllers can be set to operate and achieve maximum cooling without exceeding high-level humidity settings.**

fogging technology that puts you in control

As the temperature drops, humidity rises. To maintain the lower temperature evenly throughout the greenhouse, air exchange must occur. MicroCool engineers work closely with every grower to determine ventilation positions and directions to achieve the best results.

MICROCOOL SYSTEM OVERVIEW

MicroCool delivers an unrivaled level of performance, quality and control.

Versatility — Wide array of pumps and systems, can meet the needs of greenhouses of any size and complexity.

Zone and sector controls — Create different conditions in various zones throughout the greenhouse.

MicroCool precision FOCUS system — Perfect for germination and transplant rooms without any wetting.



Zone Controller

Anti-drip nozzles — No marks or discoloration on produce or leaves.

360° nozzle orientation — Allows nozzles to be positioned where you need them, and prevents flexible nozzle lines from "twisting" on startup.

Integral filter and UV light— Protects nozzles from materials that could get into the line and eliminates waterborne bacteria.

Reverse osmosis water quality — Reduces nozzle blockage and calcium deposits.

FOG DELIVERY EQUIPMENT

Pumps

Ranging from 0.3 to 30 US gpm output, MicroCool's family of IBEX, BIGHORN, RHINO, HUMMINGBIRD and FOCUS pumps offer high performance and minimal water and electrical use which reduces overall operating costs.

Nozzles

MicroCool Focus nozzles offer precise, start/stop fogging. Stainless steel and flex line options include ROC (Rapid Orientation Collar) technology for easy nozzle adjustment without tools.

Controllers

Controllers can create different conditions throughout the greenhouse and achieve maximum cooling without exceeding high level humidity settings.

MICROCOOL

A MeeFog Company

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

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