

## Why Growers Go with MicroCool

MicroCool's advanced fogging technology creates — and maintains — the conditions plants need to achieve their maximum potential. MicroCool works with growers everywhere to help create the perfect greenhouse environment for every kind of crop, in every kind of climate.



Today's horticulture calls for an environment continuously monitored and controlled for optimal quality and production. The MicroCool fog system provides the tools needed to maintain constant temperature and humidification levels while integrating with existing climate computers, ventilation systems and other control elements.

-  Focused Fog Delivery
-  Zone Control
-  Integrated Pump + Nozzle Systems

## VALUE ADDED FEATURES

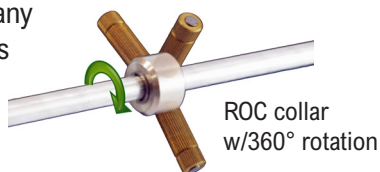
- Grow year-round in any climate
- Prevent crop damage and save water with drip-free nozzles
- Optimize propagation
- Maintain even growth and production
- Integrate with on-site climate control computer systems
- Conserve resources with low energy pumps
- Receive optimal configuration flexibility with 3 nozzle options, 2 line options and 8 pump options
- Count on MicroCool's experience and expertise in greenhouse applications

## BENEFITS OF MICROCOOL HUMIDIFICATION

- Clean, pure, bacteria free, humidification (with Reverse Osmosis)
- Exact, focused distribution of humidity (via 3 nozzle options)
- Microscopic fog droplets (10-20 microns) quickly flash evaporate
- Zero wetting due to drip-free 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
- Made in the USA quality

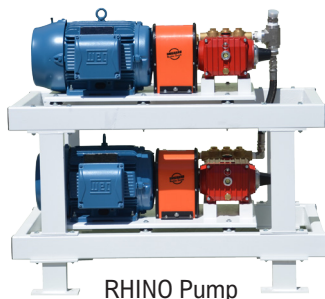


IBEX VFD Pump



ROC collar w/360° rotation

**8 pump options range from 0.5 to 11 US gpm**  
and support from 1 to 650 nozzles per pump

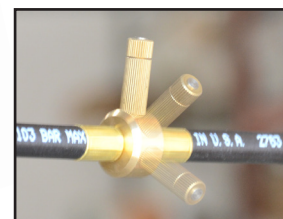


RHINO Pump

The RHINO range pumps feature GIANT and WEG pump/motor combinations that are capable of running up to 650 nozzles. Controls bring the pumps “on-line” in sequence depending on the load required; the lead pump changes every 96 hours to spread wear equally over the pump rack.



A variety of nozzle options can meet any configuration requirement.





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

**Non-drip nozzles** — No marks or discoloration on fruit or leaves.

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

**Integral “last-chance” filter** — Protects nozzles from materials that could get into the line.

**Works with reverse osmosis water** — Reduces nozzle blockage and calcium deposits and eliminates waterborne bacteria.

## FOG DELIVERY EQUIPMENT

### Pumps

Ranging from 0.5 to 11 US gpm output, MicroCool’s family of IBEX, BIGHORN, RHINO, HUMMINGBIRD and FOCUS pumps offer high performance while conserving water and electrical use which reduces overall operating costs.

### Nozzles

FOCUS CUBE nozzles offer focused, 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.



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



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