



Manufacturing/Factory Floor



Digital Printing



Computer Rooms and Laboratories

Engineered  
fogging + misting  
solutions for  
**humidification**  
**process cooling**  
**environmental**  
**control**

MicroCool has mastered fogging

# TECHNOLOGY LEADERS in FOG + MIST SOLUTIONS

## Fogging Technology. There is a difference.

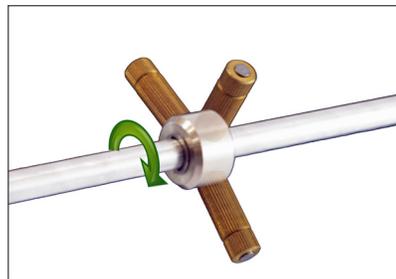
When comparing MicroCool fogging systems to other methods of process cooling and humidification (electrode and steam humidification), it soon becomes obvious that MicroCool technology has many advantages in cost, distribution and operation.

MicroCool fogging solutions are designed for demanding applications that utilize the latest in electronic controls, nozzle design and pump technologies.

### How it works

Water is pressurized to 1,000 psi / 70 bars and forced through patented nozzles to create a fine mist. Each nozzle produces billions of ultra-small, 10 micron droplets (1/10th the diameter of a human hair) that quickly flash evaporate creating humidity and cooler air.

MicroCool nozzles are all made in the USA (unlike many that come from Asia), are anti-drip, and come with an integral filter that provides extra protection.



ROC 360° nozzle rotation



FOCUS cube nozzle

### PUMPS

Hummingbird • Fog Focus  
Bighorn • IBEX • Rhino

### NOZZLES

Rapid Orientation Collar (ROC)  
FOCUS Cube • FOCUS Pod

### FOG LINES + CONTROLLERS

Flex Line  
Stainless Steel Line  
Vector Controller  
UV System  
Reverse Osmosis System

Every MicroCool pump is designed, manufactured and tested in our California facility.



FOCUS pump



## PUMP TECHNOLOGY

- **Variable speed drive** — Automatically adjusts pump speed to water flow and number of nozzles
- **Compact, quiet** — unobtrusive, can be installed in production areas
- **Energy Efficient** — Reduce electricity and water usage
- **Inlet pressure switch** — Prevents the system from running dry and damaging the pump
- **Pressure transducer** — Maintains optimal system pressure for MicroCool nozzles
- **Integration** — Ties into external sensors, BMS systems and climate control systems
- **Drain valve** — Using a PLC controller, the valve opens just enough to release the pressure, saving valuable water usage
- **Built to UL508A standard** — Safety
- **Powder Coated Aluminum Frame** — Strong, long lasting durability

## NOZZLE DESIGN

- **Patented Rapid Orientation Collar (ROC) Nozzle** — Allows nozzle adjustments with little or no effort (no tools required)
- **Integrated Filter** — Protects nozzle from contamination in the line
- **Drip-free design** — The nozzle closes after operation to eliminate any dripping

# FOGGING APPLICATIONS



Whether you require cooling, humidification or air quality control, MicroCool has the solution.

## HUMIDIFICATION

Manufacturing • Cold Stores  
Hatcheries • Barrel Storage  
Computer Rooms • Textiles  
Digital Printing • Laboratories  
Theater/Performing Arts

## GREENHOUSE

Humidification and Cooling

## PROCESS COOLING

Condenser Coil Cooling (C<sup>3</sup>)  
Utility Management

## AIR QUALITY CONTROL

Dust Suppression  
Odor Control

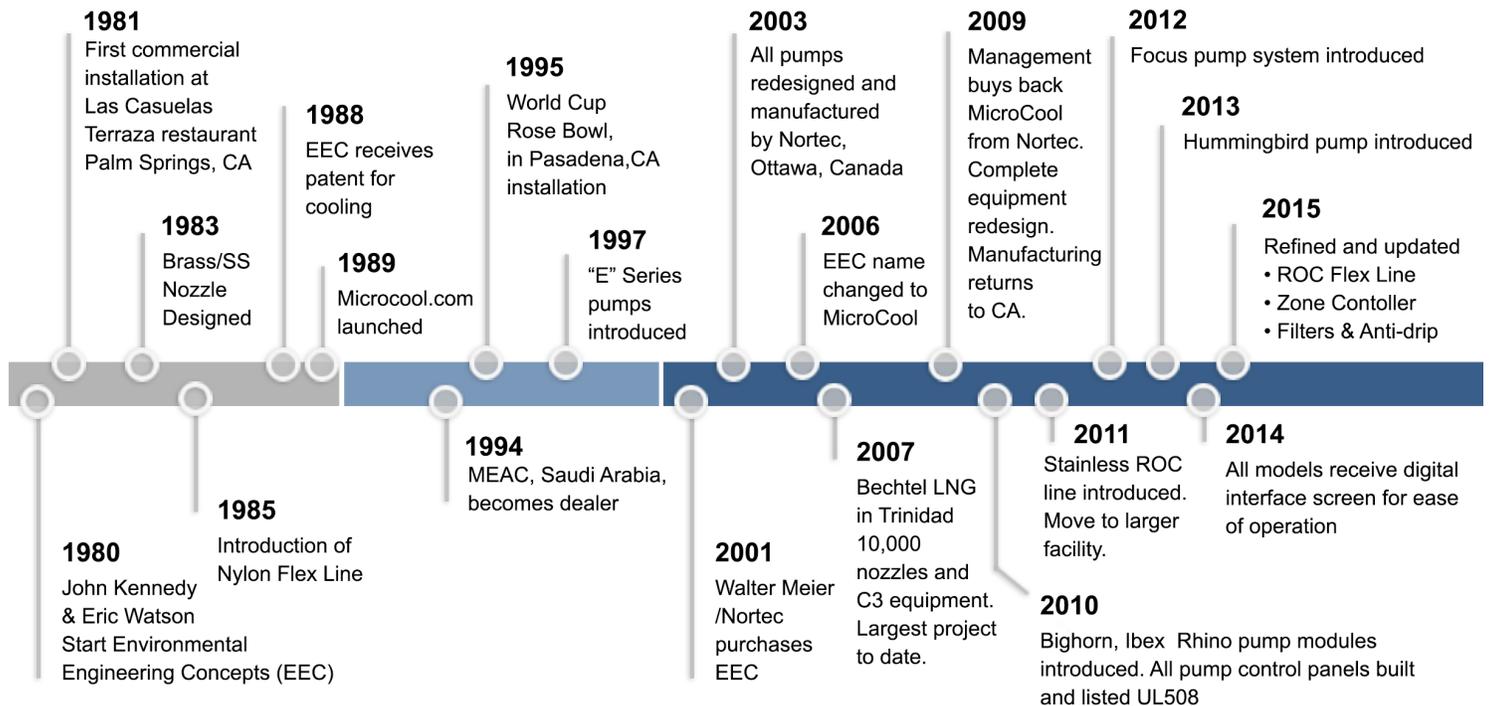


Versatile nozzle assemblies can be mounted on stainless steel or flexible line to insure uniform fog distribution regardless of challenging installation parameters.



# WORLD LEADERS IN ADIABATIC COOLING

Leading the industry with innovative ideas and engineering breakthroughs since 1980.



## About MicroCool

MicroCool has been leading the way in evaporative cooling technology for more than 30 years, introducing innovation after innovation designed to deliver unrivaled cooling capabilities.

MicroCool fogging solutions are designed for demanding industrial and greenhouse applications that require the latest in high-performance, versatile electronic controls, nozzles and pump technologies. MicroCool is the no-compromise cooling/humidification choice.

## Application Experts

Every cooling/humidification application has its needs and nuances. Our engineering and design teams have a wealth of experience meeting challenges of every size and complexity, in virtually every industry. Using our full spectrum of advanced pumps, nozzles, lines and controllers, we'll work with you to create the optimal solution for yours.



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