MicroCool Fog Solutions

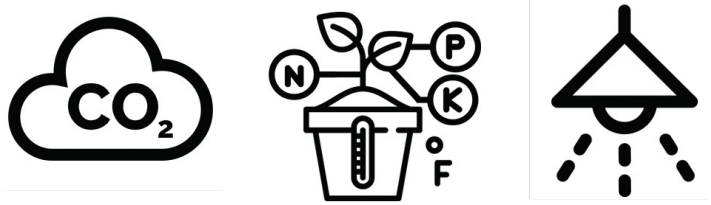
Evaporative fog balances dry conditions in a controlled grow environment

Cannabis growers endorse indoor growing because they can manage every aspect of the environment to coax the plant to optimal growth. Managing cooling, heating, relative humidity (Rh) along with VPD (vapor pressure deficit) level is essential for maximizing plant growth.

Utilizing Fog to Influence VPD

Adding fog increases humidity thereby lowering VPD. Lower VPD influences the plant to open its stomata. When adding CO_2 to plants at this stage, there is less waste and more CO_2 absorbed by the plant.

MicroCool's sophisticated FOCUS system adds a consistent source of humidity. By controlling VPD levels this way, growers can focus on other variables to optimize and control the plant's growth and quality.



Reducing plant stress caused by VPD levels that are too high or too low allows the plant to better respond to optimized CO_2, temperature and lighting conditions.

Delivering Grower-Specified Relative Humidity (Rh) Levels

MicroCool's consistent humidity system delivers grower-specified Rh levels throughout a room. Since adding humidity lowers VPD, Rh setpoints can be adjusted. Optimize levels across the plant lifecycle or to balance relative humidity affected by HVAC or lighting.



- Settings tailored to grower specs
- Plug into existing controls/ sensors or use MicroCool's
- Allows for 'zoning' or additional rooms

Learn more about the FOCUS humidity system

800-322-4FOG

see side 2



FOCUS X Cell Nozzle w/dual 180° nozzles

Indoor Grow Challenges

1. **Grow lights and air conditioning remove moisture from the air.**
2. **Required VPD levels change across the plant's lifecycle.**

Talk with a MicroCool representative for the facts about fog humidity.



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

The correct VPD range can optimize cannabis growth by:

- Keeping stomata open
- Minimizing plant stress
- Maximizing CO_2 uptake

Cannabis plant growers use humidity to influence and meet proper VPD levels.



The MicroCool Solution Controls Humidity in Indoor Grow Facilities

MicroCool's FOCUS fog system gives growers the ability to control humidity automatically based on pre-set parameters.

FOCUS Integrated System

Pump + Nozzles + Distribution Line + Controller

Pump Features

- Constant pressure offers on-demand humidity
- Easily scalable and zoned
- Humidity sensor feeds real-time information to control unit
- Added evaporative cooling benefit
- UV bulb enhances water purity
- Reverse Osmosis (RO) filter removes minerals, bacteria, and viruses
- Recirculating pump keeps water hygienic
- UL 508A control panels add a professional level of safety

Nozzle Features

- Individual control with 180° dual nozzle option
- Built-in solenoid at each nozzle controls operation
- Accommodates low headroom
- On-demand fog

Fog is eco-friendly

Ask about FOCUS Humidity Solutions.
Free Expert Consultation—Call Today!

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microcool.com



4 pump models