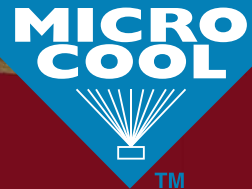


MicroCool®

Fogging Solutions



Dust and Odor Suppression

The positive control of PM10 and sub PM10 dust particulate in the workplace not only results in a cleaner, healthier work environment but also increases productivity and reduces turnovers and absenteeism.

MicroCool® high-pressure fog systems generate micron-sized water/fog droplets that attract and suppress PM10 and smaller dust particles.

The highly efficient system is the suppression system of choice for Trash Transfer stations because of its ability to effectively and economically suppress dust without wetting or adding weight to the trash.

The added benefit of adiabatic cooling for equipment and personnel as well as the opportunity to add measurable amounts of odor reducing chemical make these systems doubly appealing.

MicroCool® Dust and Odor Suppression

For transfer stations, packing facilities, warehouses and factories

System Concept

- ▶ MicroCool® patented nozzles are dispersed throughout the ceiling level allowing fog droplets to “drift” down and suppress the fugitive dust.



- ▶ MicroCool® fog removes harmful PM10 and sub PM10 dust from the air leaving it clear for employees and operators.
- ▶ Nozzle concentrations are different through the building to allow for a lower / higher number of nozzles at strategic points.
- ▶ High- dust areas, drop points and picking belt are given a heavier concentration of nozzles to suppress the dust.
- ▶ 10 micron sized droplets of water not used for dust suppression quickly evaporate into the air eliminating wetting on the floor area.
- ▶ Adiabatic Cooling (from the flash evaporation of the mist droplets) gives localized cooling where required to keep employees and operators comfortable in summer.
- ▶ Optional addition chemical can be used to treat malodors. The simultaneous atomization of water and chemical ensures maximum contact to eliminates odor.

Delivery Equipment

- ▶ The MicroCool® UL listed high-pressure pump equipment generates 1,000 psi (70 bar) water pressure at each nozzle for maximum atomization.
- ▶ Standard nozzles have a 0.008” (0.2mm) orifice and are used in the majority of applications. Special nozzles with 0.020 (0.5mm) orifices are used to concentrate the fog in problem areas.
- ▶ Stainless Steel nozzle lines or flexible nylon lines allow for easy installation and maintenance. Lines are easily integrated into existing ceiling space.
- ▶ Precision sensors will operate the system with temperature and humidity overrides to ensure that no wetting occurs and system operates only within set parameters.



- ▶ Radio remote controls allow operators to activate specific sections and nozzles lines from a hand remote control. Especially at tipping and loading areas.
- ▶ Optional equipment for the MicroCool® system allows for the injection of suitable odor control chemicals to remove malodors in the air.



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