



**RENBY**

Dust Suppression



Special Effects



Humidification



Cooling



Landscaping



# ***MicronFog™***


**Highly Controllable Misting and Fogging Systems**

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# Control and Suppress Dust Effectively, Responsibly and Economically with MicronFog™



“The Fogging System does everything it says on the tin, and more besides.”

*Engineering manager, Vegetable packing company, Midlands*

## Efficient Dust Suppression & Control

### Your low energy dust control solution.

- Economical to run (a fraction of the cost compared to dust extraction)
- Capital cost saving of 30 to 90% versus dust extraction
- Low running costs :-Inverter driven motors
- 90% less water than a sprinkler system
- Increased productivity & reduced downtime

## Effective Dust Control

Some industrial processes create dust as a natural part of the process. Regulators and local authorities are giving focus to this area and require action to prevent dust from affecting the workforce and neighbouring properties.

In many bulk handling environments, dust can cause respiratory problems such as COPD and silicosis. This can expose companies to lost time or costly litigation.

Dust affects machinery, increasing maintenance and running costs and reducing plant efficiency. Dust can affect neighbouring properties, creating additional work.

Renby *MicronFog™* is a revolutionary, economical and effective dust suppression, dust abatement, and air filtration system. Fog suppresses dust in countless applications. New users are often surprised by its performance which frequently exceeds expectations.

The system comes complete with filtration, disinfection and water conditioning. Renby are experts in dust and can design a unique solution with sophisticated controls to suit your individual process.

## How does it work?

A high concentration of 10 micron fog droplets attach to airborne dust particles which then fall from the air. The droplet size gives optimum performance in suppressing PM10 and smaller particles.

A pressurised water supply and high quality, precision engineered nozzles are used to create the fine mist, using far less energy than the common alternative of compressed air. It is thus significantly cheaper and more efficient to operate.

## MicronFog™ Application Examples

### Dust Control in:

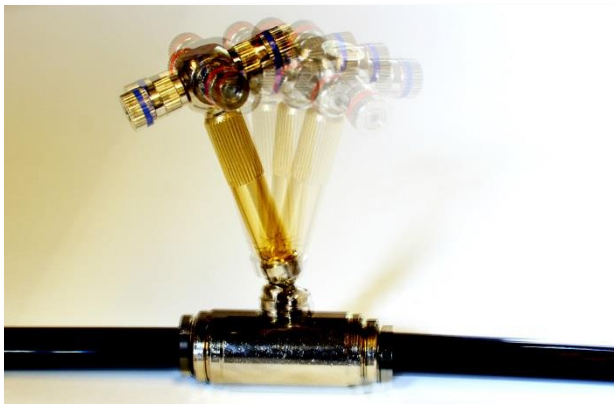
- Bulk Handling Areas
- Dry Powder Bagging and Storage Facilities
- Vegetable Processing, Handling and Packing
- Transfer and Loading Points
- Grain Handling
- Recycling and Municipal Waste Site Perimeters
- Coal Dust Suppression
- Quarries and Minerals Processing

### Temporary Dust control at:

- Construction and land development sites
- Sites where minerals are being loaded /delivered







## Humidification, Cleaning and Chemical Delivery with Multi-headed Nozzles

Multi headed nozzle assemblies allow a greater concentration of fog for certain applications:

**Disinfection: and cleaning** Fog reaches otherwise inaccessible places and delivers chemicals to these areas.

**Humidification:** Specific nozzles and water pressure settings create higher fog density to increase humidity.



## Cooling and Cooling Efficiency

Flash evaporation with fog creates a cooling effect.

**Crowd Cooling** : refreshing in warm weather, hot working conditions, or crowded places.

**Component Cooling:** By up to 10 to 15 degrees. Can be used in industrial component settings and high technology applications such as I.T. data centres.

**Cooling System Efficiency:** Using fog with air conditioning units prevents overheating and reduces energy use.



## Landscaping and Special Effects

Fog creates an atmospheric special effect.

**Landscaping:** A landscape design can be enhanced with fog especially effective when lighting is utilised.

**Art and Sculpture:** Fog becomes a moving feature of the sculpture.

**Special effects:** In film and theatre, fog provides a stunning background and foreground effect.

## A size to suit every application

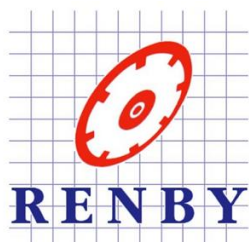
There are three MicronFog™ systems to suit specific applications:

**MicronFog™ MultiZone:** A large scale fogging system capable of fogging multiple zones at different concentrations. It comes with Renby's FlowFollower™ and zone control software.

**MicronFog™ Lite:** used for fogging specific points in the process such as conveyor transfer points. Like MultiZone, the Lite timer and remote plant control can be integrated into your plant or visual effects control.

**MicronFog™ Nano:** Highly portable, start-stop only system suitable for low complexity applications.





# MicronFog™

FOGGING and MISTING SYSTEMS



- DUST SUPPRESSION
- DUST CONTAINMENT
- INSECT CONTROL
- HUMIDIFICATION
- DISINFECTION & CLEANING
- COOLING EFFICIENCY
- SPECIAL EFFECTS
- LANDSCAPING
- COOLING



Renby's MicronFog™ fogging systems are used in a very wide range of industries, including waste and recycling, quarrying, chemical manufacturing, food – any environment where dust, pollution and odour are involved, or in computing, food production and packing, where humidification or disinfection may be needed, and in any industry where cooling is required. Also, in art & sculpture, landscaping, theatre and the film industry where mist effects are needed.

Renby spent several years searching for an economical solution for dust control in industry. Pressurised water fogging systems were the answer. This approach keeps water and power usage to a minimum and has the versatility required for all manner of applications. It also fits in with our company ethos of building a sustainable future.

However you choose to use fog, we will work with you to achieve the result you desire.

Renby Also Supply: **SCHRAGE TUBE CHAIN CONVEYORS**

**NEUTRAPAK ODOUR CONTROL**

**MOVING FLOOR BUNKERS**

**HYDRATECH TOPLOADERS**

## Why Choose Renby?

45 Years history in bulk solid materials handling  
 Experts in dust suppression and conveying dust  
 Deep understanding of the legislative environment & problems relating to dust and odours  
 Strong track record of repeat business from very satisfied customers.

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