SterileFog™

NO TOUCH - DRY FOG SANITIZING SPECIALIST
Neutralizes Allergens, Bacteria & Viruses

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Technical Information
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Dry fogging is a relatively new decontamination technology that uses a sterilant as a disinfectant. The ultrafine droplet size of the dry fog prevents it from easily settling onto surfaces. This prevents wetting of structure, furniture, fabrics and contents. The process is effective against allergens, bacteria and viruses, including SARS, HINI & Human Coronavirus (Covid-19).

Dry Fog Sterilization Service
The SterileFog™ state of the art dry fog system provides a high technology solution to disinfect homes, apartments, schools, restaurants, commercial properties, healthcare facilities, production and laboratory facilities.

Residential Application
The SterileFog™ process ensures that upon move in, the structure will be clean and free of past occupant allergens, bacteria and viruses. You can move in with confidence that no unwanted surprises were left to be discovered. Deodorization of interior spaces can also be accomplished by utilizing the dry fog process.

Commercial and Offices
The process can be applied after hours or on weekends, which eliminates downtime for the property. The process can be utilized in open concept office areas or in retail spaces, and will not affect electronics or facility contents. The process is highly effective in sanitizing and disinfecting enclosed offices as well as cubical fabric wall panels, desk and storage units.

Sanitizer and Disinfectant Application
The SterileFog™ system provides a thorough high technology solution for sanitizing and disinfecting interior surfaces. The combination of the highly effective cold fog sterilant and our state of the art Dry Fog delivery system enables us to rapidly and safely deliver a consistent vapor across all surfaces. The dry fog moves over and under contents ensuring total coverage.

SterileFog™ Equipment Advantages
- Controlled and consistently accurate droplet size.
  - Minimizes risk of condensation and surface wetting.
  - Ensures consistent coverage of the treatment surfaces and space.
  - Eliminates occupant complaints due to chemical residue left following the use of traditional surface cleaning products and methods.
- Effective dispersion of the Dry Fog vapor in a timely manner.
- The SterileFog™ process is more effective and requires substantially less time than traditional manual cleaning and disinfecting methods.
- The Dry Fog droplets suppress airborne particles and thus lower interior settled particle levels.
- As the fog disperses, it breaks down into essentially water and vinegar.
- The dry fog process leaves no harmful residue.

A Superior, Safe, Environmentally Friendly Biocide

The cold sterilant utilized by SterileFog™ is a powerful disinfectant containing a proprietary mixture of peracetic acid and hydrogen peroxide. It is effective against a broad range of organisms including bacterial spores, fungal spores, bacteria, mycobacteria, yeast, molds and viruses. The cold sterilant is not a systemic bactericide. Rather it is a powerful oxidizer that attacks and breaks down the organic components of microorganisms, not just killing them, but destroying their structure. This makes the cold sterilant one of the fastest acting and most effective sanitizer and disinfectant available.

SterileFog™ Dry Fog Features & Benefits

- No toxic odors
- Faster and safer to use than standard aldehyde based disinfectants
- Very effective against bacteria, viruses and fungi
- EPA registered for fogging as part of normal disinfection procedures
- Fully biodegradable
- Contains only pharmaceutical quality raw materials
- Less corrosive than chlorine or aldehyde based cleaners
- EPA and CE registered

Facility, safety and infection control managers trust the dry fog process to rapidly and effectively provide a six log (99.9999%) kill of microbial, bacterial and fungal contamination.

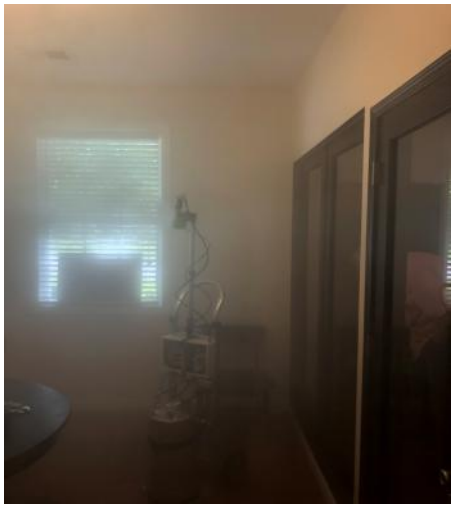
The SterileFog™ excels at providing our clients with services that disinfect interior environments in a fraction of the time it would take to manually clean the space. The process requires only 1-2 highly trained operators to fog, whereas a large manual cleaning crew increases the potential for property and content contamination by using traditional cleaning techniques.

Superior Performance

The SterileFog™ system rapidly and safely delivers complete coverage of all surfaces in the project area. The multi-port dry fogging head creates a rapid vapor dispersion that ensures all surfaces within the project space are effectively reached.

The SterileFog™ system offers the following benefits:

A controlled and consistently accurate droplet size of 5.9 microns*.
Minimizes risk of condensation.
Does not wet surfaces or contents.
Ensures penetration into exposed fabric and carpet surfaces
The SteriDriFog™ system can quickly decontaminate multiple rooms in a structure.



*Sauter Mean Droplet diameter of 5.9 microns

Short Process Time

Typically, the entire disinfecting and sterilization process for an average home or office area can be completed in less than 3 hours, depending upon the number of rooms or square footage of the structure and then efficiency of the ventilation system, compared to up to 2-3 days with traditional surface cleaning and sanitizing methods.

No pre-treatment of the space is required by the client.
No need for additional fans or equipment rental.
A short ventilation period of the space may be required following application.
Activation of the HvAC system for 2-3 hours is sufficient.
The SterileFog™ system results in substantially lower downtime for occupied spaces.

Rapid Response Services

In the event of an occupant complaint, our staff can, in most cases, be onsite within 24-48 hours. This minimizes the downtown for occupancy of the property. Commercial properties and facility operations typically require less than a day before resuming operations. Many facilities can be treated after hours and placed back into service the following day.

Onsite Validation

Each dry fog application is validated using test strips. These indicators are placed in challenge locations - inside cabinets, equipment, under furniture and throughout the project area. This assures that each project space achieves a 6-log reduction in microbial, bacterial and virus contamination during the application process.

The EPA registered sterilant and dry fog system utilized by SterileFog™ has been validated by hundreds of FDA audited pharmaceutical production facilities and clean rooms worldwide. A valid and reproducible procedure according to international Pharma Standards Efficacy results can be verified using biological and chemical indicators. Chemistry has passed AFNOR Norm NF T 72-281, showing a 6.9 log reduction of bacteria spores.

Environment Friendly, EPA Registered Chemistry

The SterileFog™ process utilizes Minncare®, a peracetic acid and hydrogen peroxide based proprietary chemistry developed by Mar Cor, for optimized biocidal efficacy. It is a fully biodegradable sporicide that will leave no measurable air residuals. The sterilant is registered by the EPA for use as a fog agent to provide enhanced cleaning and disinfection process.

Contains only pharmaceutical quality raw materials
No toxic aldehyde vapors
Fully biodegradable
EPA Registration Number 52252-4

Microorganisms and Pathogens Elimination

Bacillus subtilis.
Hepatitis B
HIV
Mycobacterium bovis (TB surrogate)
Pseudomonas aeruginosa
Salmonella typhimurium

Problematic Microorganisms and Pathogens Elimination

MSSA — Methicillin-susceptible S. aureus. This is the regular (non-resistant) strain of S. aureus.

MRSA – Methicillin-resistant S. aureus, which today refers not only to just strains that are methicillin-resistant, but also any beta-lactam antibiotic, such as amoxicillin and penicillin.

HA-MRSA – a MRSA infection acquired during a stay in or immediately after discharge from a hospital or other healthcare setting.

CA-MRSA – Community Acquired-MRSA – an infection with MRSA in a person who does not have any prior history of health care exposure such as hospitalization, surgery or a permanent intravenous lines or other indwelling devices or hemodialysis.

C-Dif - Clostridium Difficile Endospores - C. difficile is a spore forming, gram positive bacteria that is highly resistant to acidic environments such as seen in the gastrointestinal (GI) system. In testing by Minntech Corporation, Cold Sterilant significantly reduced the populations of C. difficile spores 99.999% and 99.9%, respectively.

Review:

The Dry Fog Process is Less Invasive with Faster and More Complete Microbial Kill Rates

Methicillin-sensitive Staphylococcus aureus, or MSSA, is a problematic bacterium and one of the most common vectors of infection within healthcare environments. Cold Sterilant and 1% Minncare Solution pass the modified AOAC Use-Dilution Method for MSSA at 3 minutes, with a 6 log reduction in organisms. At one minute, both disinfectants reported 80% reduction or better of the carriers and a total kill of MSSA. For MRSA, both disinfectants passed the modified AOAC Method at two minutes, provided a 7 log reduction of organisms on all the carriers. The efficacy of these sterilants is studied and documented.