

# User's Guide to the Halo Disinfection System<sup>®</sup>



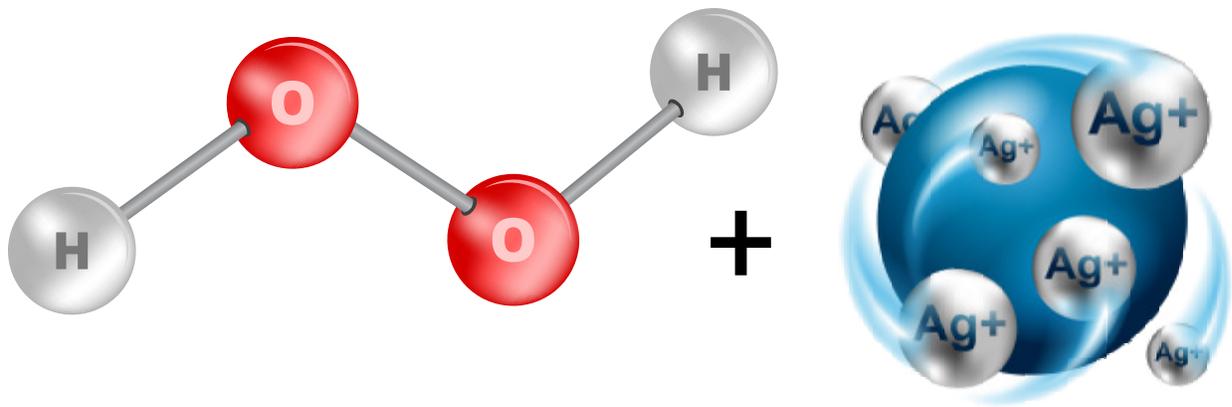
Global  
Disinfection  
Systems



Whole-room disinfection systems are now a trend globally, thanks to the rapidly advancing technology and changing consumer needs. The pandemic has also expedited the adoption of smart disinfection solutions as private, and public institutions look for cost-effective and easy-to-use products for disinfecting workplaces and public spaces.

However, not all disinfection systems work the same. The Halo Disinfection System® is one of the whole-room disinfection systems that has stood the test of time, with a proven track record and real use cases across all industries. This guide, explores the Halo Disinfection System® – from how it works, formulation, use cases, benefits, and everything in between.





## Disinfecting with Halo: The Dry Fogging Technology

The Halo Disinfection System® is an easy-to-use and cost-effective whole-room disinfecting unit ideal for large spaces. The system consists of HaloMist™ and HaloFogger®.

### HaloMist™

HaloMist™ is a registered virucide, fungicide, and bactericide designed to handle any remediation or disinfection challenges. This ready-to-use formulation uses multiple killing techniques to attack pathogens and eliminate odors from closed spaces.

HaloMist™'s proprietary blend of anti-microbial silver ions and hydrogen peroxide makes this disinfecting solution ideal for use against a wide range of contaminants in infection-prone areas. HaloMist™ works as a surface disinfectant used in various settings, e.g., classrooms, hospitals' waiting bay, surgical centers, etc.

It's also used as a comprehensive restoration and remediation solution – for example, after a fire incident, mold infestation or toxic gas leakage, etc., to eliminate the contaminants left behind.



## HaloFogger®

The HaloFogger® is a hands-free disinfecting unit that dispenses concentrated and high-pressure micro-droplets. The unit uses evaporation to disperse hydrogen peroxide vapor, ensuring HaloMist™ reaches every part of the room, including complex spaces beyond the reach of the traditional spray-and-wipe and even UV lights.



The HaloFogger® comes in three distinct types, helping users choose what works best for their unique needs. Each of these options uses the dry-mist fogging technology; hence disinfecting any surface is quick, convenient, and guarantees uniform coverage.

### • HaloFogger® STD

The HaloFogger® STD is the standard disinfecting unit that delivers a precise amount of HaloMist throughout the room with a simple press of a button. This unit works perfectly in different settings and complex spaces such as life science facilities, schools, daycares, hospitals, etc.



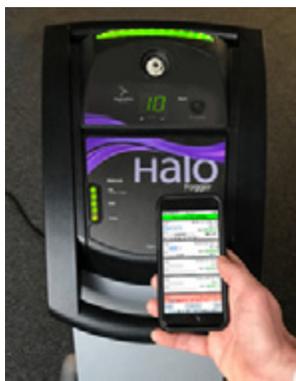
### • HaloFogger® FLX

Unlike the HaloFogger® STD, the FLX comes with a detachable nozzle that allows for better control and more accurate operations when disinfecting complex surfaces. With this unit, the base FLX can be located outside as one continues disinfecting the rooms. The HaloFogger® FLX is more flexible than the STD since it allows one to work on space-limited areas or surfaces.



## • HaloFogger® EXT

When looking to disinfect smaller spaces, the HaloFogger® EXT comes as the best option. Like the HaloFogger® FLX, this disinfecting unit comes with a flexible and detachable nozzle; however, the fluid output is slightly lower. The reason for this is to ensure controlled speed and intensity while disinfecting specific spaces such as biosafety cabinets, emergency vehicles, etc. One can also buy some additional assemblies to facilitate rapid application using the HaloFogger® EXT.



Additionally, one can track the disinfection activities on all HaloFoggers using the HaloLog feature – a data logging capability that uses Bluetooth with a real-time clock and memory. The integrated logger automatically stores data, including the duration of each dispensing run and the lifetime hours the HaloLog™ has operated. This HaloLog™ feature stores up to 30,000 run cycles.



## Halo Disinfection System® Use Cases

The Halo Disinfection System® is helping infection prevention professionals from various industries stay ahead of their day-to-day operations. With the highest-caliber disinfectant formulation on the market, the Halo Disinfection System® is proven to kill 99.99% of all pathogens in any setting or environment. Below are some of the industries using the Halo Disinfection System®

### Healthcare Institutions

Hospitals and healthcare systems need an effective disinfectant that can kill all the infectious materials and microorganisms found within the hospital wards, waiting bay, common rooms, etc. Besides, disinfecting some areas within the complex hospital setting, such as bedside railings or the shadowed corners, can be challenging. The HaloMist™ proprietary formulation and the hand-free HaloFogger® units solve these challenges.

## Using the Halo Disinfection System®, one can work on the following spaces within the healthcare institution.

### Patient Rooms

Patients admitted into the hospital will have varying complications, and proper disinfection is crucial to avoid the spread of infections. HaloFogger® units are best suited for these areas. Hand spraying and UV-light disinfection methods don't reach hidden corners and the often-neglected spaces such as doorknobs and light switches.



### Operating Rooms

High-level disinfection is required inside the operating rooms, and the Halo Disinfection System® offers the highest standards for efficacy, usability, and flexibility. Additionally, proper disinfection is necessary inside the recovery rooms, where multiple patients are waiting to be discharged. Poor hygiene in these areas can spread infection, affecting the recovery of patients. The HaloFogger® FLX is designed specifically for disinfecting such areas with multiple rooms, thanks to the flexible and detachable nozzle.



### Ambulatory Vehicles

Vehicles transporting patients to and from different healthcare environments are susceptible to pathogens such as C.difficile. Disinfecting ambulatory vehicles is a priority for hospitals that handle vast numbers of referrals and emergency pick-up services. Here, the HaloFogger® EXT will work just perfectly.



## Learning Institutions

From daycares to universities, all learning institutions need to be disinfected to avoid possible risks of infections. Playrooms, cafeterias, classrooms, computer rooms, congregate areas and even bathrooms are areas where students spend most of their time, and disinfecting them is a top priority for infection control professionals.



Regardless of the room's size or shape, there's always a HaloFogger® unit to serve the purpose. Students' cubbies, closets, and lockers are the other unique spaces that are hard to cover entirely using the other disinfecting units; however, the HaloFogger® FLX is specifically designed to destroy pathogens in such confined areas.

## Life Sciences

For Biopharma companies, cleanliness is paramount to ensure everything runs as expected – from research, clinical trials to controlled tests and experiments. A few pathogens inside the clean rooms, laboratory or safety cabinets can impact the results' quality and accuracy.



The integrity of high-precision, highly-sensitive experiments depends on the purity of the environment. Disinfecting all these key areas requires a whole-room solution with the highest kill-rate possible. HaloFogger® FLX and EXT disinfecting units are best used in these challenging spaces to ensure high-level disinfection.

## Athletics

Gyms and indoor training facilities are high-activity areas that can expose their occupants to a broad range of bacteria, viruses, and mold, among other pathogens. Disinfecting all areas within these athletic facilities may require specially-designed disinfecting units such as the HaloFogger® FLX.



Training rooms and equipment also require the right choice of disinfectants to kill pathogens such as MRSA and Staph while protecting costly equipment from corrosion. The locker rooms, changing spaces, and even bathrooms are the other spaces inside an athletic facility that needs highly-effective disinfectant.

## Long-Term Care Facilities

Adult day centers, home health agencies, hospices, and nursing homes, are marked by large numbers of elderly people living in close proximity and frequently visiting hospitals for check-ups and care services. Such settings coupled with the weak immunity of the elderly make these places highly vulnerable to pathogens such as COVID-19, influenza, norovirus, and C.difficile, among others.



Disinfecting high-traffic areas within these facilities is a top priority for operators. The HaloFogger® offers a cost-effective and flexible disinfecting solution for resident rooms, common areas, and even difficult-to-reach spaces.

## Why Use Halo Disinfection System

The Halo Disinfection System® comes with several benefits – whether used in learning institutions, hospitals, long-term care facilities, etc. HaloMist™, together with the three models of HaloFogger® disinfecting units, guarantees superior efficacy. Below are other reasons to use the HaloFogger® over other products on the market.

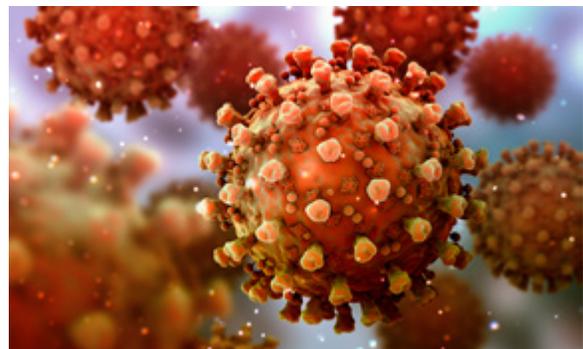
### Disinfects all surfaces.

All the HaloFogger® models have been designed to ensure uniform delivery of the HaloMist™ disinfectant. Unlike the spray and wipe disinfection technique – where most surfaces, including high-touch areas, are overlooked – whole-room disinfection ensures all surfaces, crevices, and hard-to-reach corners are addressed. The dry-fogging technology ensures all the HaloMist™ droplets are homogeneously distributed to effectively kill bacteria, viruses, spores, and other pathogens.



### Reduces Cross-contamination

With HaloFogger®, disinfecting the rooms is as easy as pressing the button and waiting to move the base unit from one room to the next. This hands-free operation ensures pathogens aren't transferred from one area to another, unlike traditional disinfection techniques where one rag or sponge serves multiple surfaces.



## Non-corrosive and Leaves no Residue

HaloMist formulation is environmentally safe for use in different settings and environments, making it a versatile disinfectant in the market.

Unlike the bleach mixtures that emit irritating fumes that might remain after the cleaning, the HaloMist formula breaks down into oxygen and water, with only a trace amount of silver ions to prevent re-germination microorganisms.

Disinfecting a facility space with the The Halo Disinfection System® requires no wiping or rinsing, thanks to the exceptionally dry delivery. Gym operators, for instance, don't have to dry their electronic equipment after disinfection.



## Easy to Use and Cost-effective

Hands-free operation of the HaloFogger® reduces the need for manpower, keeps costs down saves time, especially when disinfecting large spaces or multiple rooms. HaloMist™ requires no mixing and is ready-to-use with a shelf life of 2 years.



## A Scientifically potent and Innovative formulation

One of the benefits of using the Halo Disinfection System® is the ingenious and robust formulation of the HaloMist™ disinfectant. The formula combines hydrogen peroxide and silver, releasing highly reactive radicals that effectively attack the targeted pathogens' cell membranes. The result is weakened cells that allow the silver ions to enter into the microorganism.

### Through this process, hydrogen peroxide and silver kill the pathogens by:

- Attacking the cell membrane.
- Binding to the microorganism's enzyme causing denaturation.
- Binding to the DNA strands, hence stopping replication.

It's worth noting that hydrogen peroxide exists as an anti-microbial agent; however, when used alone, it has a limited killing efficacy and lacks the stability necessary to stay active for long. However, the HaloMist is a broad-spectrum product that's exceptionally stable due to the dynamic and synergistic formula.

### Compared to the other disinfects in the market, HaloMist™ guarantees;

- **Multiple killing mechanism** – HaloMist™ disinfects through a three-step process we've highlighted above, with no risk of anti-microbial resistance.
- **Thermal Stability** – HaloMist™ is three times thermally stable than ordinary disinfectants on the market. At 100 degrees Celsius, this formulation releases three times less oxygen than hydrogen peroxide, meaning there are reduced chances of combustion or fires.
- **Exceptional Stability with maintained Efficacy** – HaloMist™ formula maintains its efficacy even in a highly contaminated environment. This ensures the disinfectant doesn't decompose in the presence of contaminants, which would otherwise render it less effective.



## Summary

The Halo Disinfection System® has all the qualities needed to kill various pathogens in different environments and surfaces. HaloMist™ meets the highest disinfection standards with three distinct killing mechanisms. It's also exceptionally stable in extreme temperatures and a contaminated environment.

The dry-fogging technology plus the three HaloFogger® models guarantee the best of results, regardless of the size or shape of the room/surface to disinfect.

Lastly, one can use the Halo Disinfection System® in a wide range of industries and environmental settings, whether it's a high-traffic area such as school gymnasium, locker room, hallway, classroom or a limited-space environment, for example, in ambulatory vehicles. Hospitals and life sciences can also use it in high-precision and highly-sensitive environments such as operating rooms and Biopharma cabinets.



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