



TOMI[™]

STERAMIST[™]
HEALTHCARE

**PROTECTION BEGINS WITH HIGH TECH
DISINFECTION/DECONTAMINATION**

Limiting the cost of infection in healthcare

www.tomimist.com/healthcare | 800.525.1698

The Hospital-HealthCare Division

An easily implemented disinfection/decontamination solution to the complicated and changing landscape of infection control in healthcare today.

SteraMist™ Binary Ionization Technology® allows a facility to have a Hospital-HealthCare EPA registered tool AND solution to replace inferior technology, integrate into existing protocols, and limit liability in a facility when it comes to infectious organisms. SteraMist™ Binary Ionization Technology® (BIT™) is the first EPA registered solution and system combination on the market.

This technology produces Ionized Hydrogen Peroxide (iHP™), a mist that is non-caustic, spreads like a gas, and dries with no residue. It requires no wiping, no blistering of paint, and is silver ion free.

TOMI™ and the EPA have validated the efficacy of this process against a wide range of microorganisms including:

<i>Clostridium difficile</i> spores	MRSA
<i>Pseudomonas</i>	Staphylococcus
Influenza A virus (H1N1)	Salmonella
Norovirus	Mold and mildew

SteraMist™ has superior material compatibility with a variety of surfaces including: metals, composite rubbers, finished surfaces, sensitive electronic devices, and all medical equipment.

Saving lives by reducing infectious disease.

The TOMI™ HealthCare Division provides the science, results, and peace of mind that patients, staff, and visitors are in a safe environment.

SteraMist™ technology will be a valuable asset in any facility. As a partner, TOMI™ reviews hospital disinfection/decontamination needs and recommends customized protocols, along with conducting staff training through a certified support and training package. The cost effectiveness of SteraMist™ helps facilities with budgets of all sizes, providing a facility with another tool which some call a “germ killing machine.”

History

2001: Responding to Amerithrax Attacks

In response to the 2001 Amerithrax (Anthrax attacks), the Defense Advanced Research Projects Agency (DARPA) and a large U.S. defense contractor joined forces to develop Binary Ionization Technology® (BIT™) and its SteraMist™ platform which proved to be capable of defending against biological and chemical agents, including Anthrax spores.

2011: Acquiring the Technology

TOMI™ recognized the importance of this unique and innovative technology to address a global need. TOMI™, along with other companies, started a bidding process to commercialize, manufacture, and secure the rights, patents, and prototypes for SteraMist™ BIT™.

2013: Proving Efficacy

After several years of negotiations, TOMI™ won the rights and started the process to secure all necessary registrations, starting with the EPA after many successful GLP tests. This made it possible to introduce the world's only EPA registered mobile, hand-held point and spray, hospital disinfection/decontamination device.

2016 And Beyond

Many hospitals across the country have successfully integrated the SteraMist™ technology into their routine cleaning protocols. TOMI™ is currently on the EPA's List K for Registered Antimicrobial Products, List L which meets the CDC criteria for use against the Ebola Virus, and List G for Norovirus. The broad-based technology has been used in all areas of the hospital including: labs, OR's, ICUs/NICUs, patient rooms, and terminal clean rooms.

Innovating for a Safer World

Currently, the technology is implemented in all corners of the globe as multiple registrations are secured both domestically and internationally. The customer base expands and manufacturing demands increase with the TOMI™ commitment to ongoing research and development efforts.

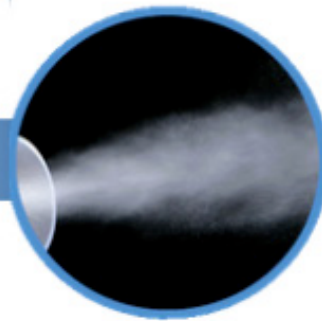


SteraMist™ Binary Ionization Technology®

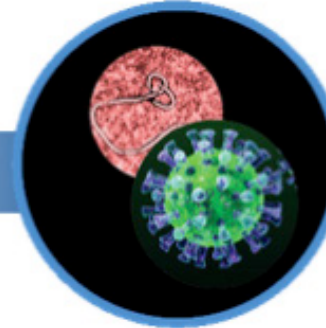
The iHP™ Process (Ionized Hydrogen Peroxide)



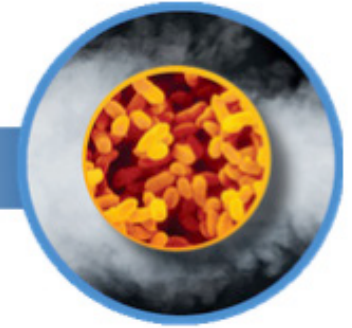
The EPA registered 7.8% Hydrogen Peroxide BIT™ Solution converts to iHP™ after passing through an atmospheric cold plasma arc.



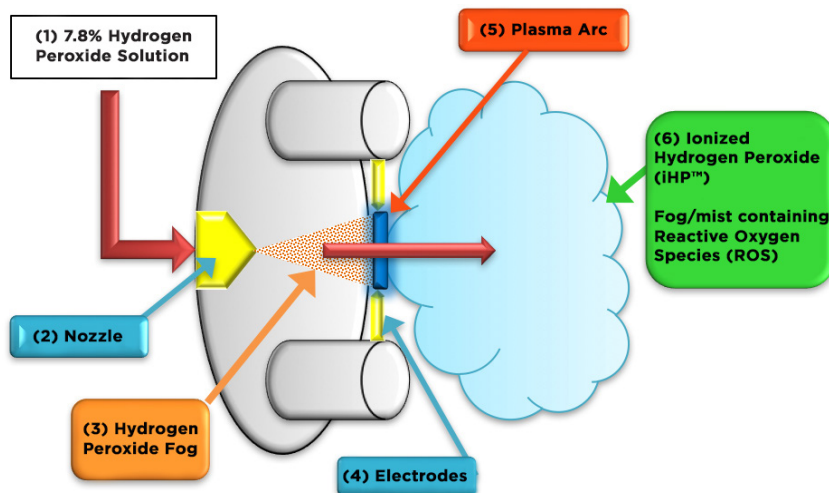
iHP™ contains a high concentration of Reactive Oxygen Species (ROS) composed mostly of Hydroxyl Radicals.



ROS damage pathogenic organisms through oxidation of proteins, carbohydrates, and lipids.



This leads to cellular disruptions and/or dysfunction and allows for disinfection/decontamination in the targeted areas and large spaces.



Atmospheric Chemistry is Brought Indoors

- The atmospheric cold plasma arc converts the H_2O_2 molecules into a Reactive Oxygen Species (ROS), mainly hydroxyl radicals (OH). These are the most powerful oxidizing agents in nature; therefore, the iHP™ aerosol kills the pathogens and leaves only oxygen and humidity in treated spaces.
- The patented SteraMist™ technology creates enough OH in the mist to achieve full efficacy against pathogens.
- The small amount of escaping H_2O_2 enables anyone to “smell the clean” in the treated space.
- TOMI™ continues to validate efficacy, even under stringent European Union (EU) standards, proving SteraMist™ is environmentally a non-toxic and safe disinfection/decontamination process.

Efficacy Data BINARY IONIZATION TECHNOLOGY® (BIT™) SOLUTION

- ① Effective broad-spectrum surface and air disinfectant/decontaminant.
- ② Effective against bacterial spores and gram-negative bacteria, including multiple drug resistant organisms (MDROs).
- ③ Effective for mold mitigation and remediation.
- ④ Ultimate tool for elimination of bacteria and viruses.
- ⑤ Does not require adjustment to room temperature or humidity before application.
- ⑥ Suitable for frequent/daily use.

Organism	Classification	Log Reduction
Bacillus atrophaeus¹	Bacterial Spore	>8.3
Geobacillus stearothermophilus	Bacterial Spore	>6.3
Bacillus subtilis	Bacterial Spore	>6.0
Clostridium difficile spores³	Bacterial Spore	>6.0
Escherichia coli	Gram Negative	>7.4
Pseudomonas aeruginosa³	Gram Negative	>6.0
Serratia marcescens	Gram Negative	>6.0
Salmonella enterica³	Gram Negative	>5.5
Staphylococcus aureus³	Gram Positive	>7.4
Methicillin-resistant Staphylococcus aureus (MRSA)³	Gram Positive	>5.9
Bacillus atrophaeus vegetative cells	Gram Positive	>9.0
Aspergillus Niger	Mold	>8.0
Aspergillus species	Mold	>7.0
Cladosporium species	Mold	>7.0
Pencillium species	Mold	>7.0
Stachybotrys chartarum	Mold	>7.0
Trichophyton mentagrophytes	Mold	>6.0
Human rhinovirus 16²	Virus	>6.8
Influenza A (H1N1)³	Virus	>10
Norovirus³	Virus	>6.4
Adenovirus	Virus	>5.8

All Testing Done By Independent 3rd Party, GLP Standards

Notes

¹Bacillus astrophaues is a surrogate for Bacillus anthracis (Anthrax)

²Human Influenza Virus (Flu) surrogate

³EPA Registered



STERAMIST™

SURFACE UNIT

Description

The SteraMist™ Surface Unit is a fully portable, hand-held, point and spray disinfection/decontamination system.

Application time of only five seconds per square foot, with a seven-minute contact time to disinfect/decontaminate.

There is no need to remove furniture or equipment from its proper placement in a space being disinfected with SteraMist™, allowing hospital personnel a quicker turnover time.

Benefits

- Approximate 10 Minute “High Touch” clean, 15 minute Terminal clean.
- Suitable and scalable for all areas in a facility, including EPA registered for ambulance use site.
- Touchless application reduces risk of cross-contamination between treated surfaces.
- One gallon of BIT™ Solution treats approximately 10-15 average sized patient rooms, depending on the facility’s protocols.
- Deodorization and mold mitigation.



Feature	HHA-101
Voltage	110 V AC, 5A
Disinfection/Decontamination Technology	Ionized Hydrogen Peroxide (iHP™)
Number of iHP™ spray ports	1
Dimensions	0.64 m Length x 0.56 m Width x 0.38 m Depth (approximately 25” x 22” x 15”)
Weight	Approximately 22 kg (~48 lbs.) Applicator approximately 8lbs.
Particle Size	2-4 Microns
Broad Spectrum Kill	Yes
Safe for Sensitive Equipment	Yes
Flow Rate	50 ml per minute
Treatment Method	Direct Application onto Surfaces
Dose Application	1 ml per ft. ²
Application Time	5 seconds over a 1ft ² treatment area
Contact Time	7 minutes
Warranty (parts & labor)	12 months

SteraMist™ Surface Unit
 *Staphylococcus aureus (ATCC #6538), Pseudomonas aeruginosa (ATCC #15442),
 Methicillin Resistant Staphylococcus aureus (ATCC #33592), Salmonella enterica (ATCC #33592)
 †Influenza A virus (H1N1) (ATCC #VR-1469)

STERAMIST™

ENVIRONMENT SYSTEM

Description

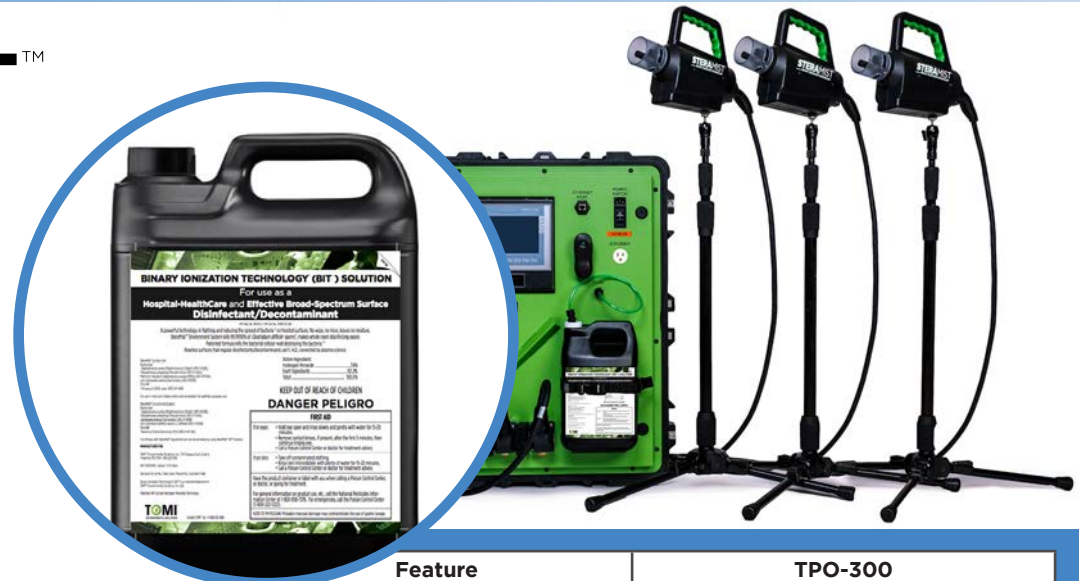
The SteraMist™ Environment System is transportable and provides complete room disinfection/decontamination, deodorization, and mold mitigation using multiple treatment applicators per unit.

Effective whole complete room treatment in just under 45 minutes* for a room (3,663.7 ft.³/104 m³).

*Less time is typically needed for smaller sized rooms.

Benefits

- ① Can be configured for small or larger spaces, with no maximum requirements.
- ① Automated/remote controlled system with downloadable data sets.
- ① Six-Log Kill (99.9999%) on *Clostridium difficile* spores.³
- ① Less down time than competing technologies.
- ① May also be converted into three hand-held Surface Units.



Feature	TPO-300
Voltage	120 V AC, 5A
Disinfection/Decontamination Technology	Ionized Hydrogen Peroxide (iHP™)
Number of iHP™ spray ports	3
Dimensions	1.2 m Length x 0.61 m Width x 0.61 m Depth (approximately 47" x 24" x 24")
Weight	Approximately 63.50 kg (~140 lbs.)
Particle Size	2-4 Microns
Broad Spectrum Kill	Yes
Safe for Sensitive Equipment	Yes
Flow Rate	25 ml per minute per applicator
Treatment Method	Complete Room Disinfecting System
Dose Application	.5 ml. per ft. ³
Application Rate/Time	Effective complete room treatment in just over 75 minutes for a room 3,663.7 ft ³ /104 m ³ including application time, contact time, and aeration time. Less time is typically needed for smaller size rooms. Room is safe to enter once hydrogen peroxide is below 0.2 ppm.
Contact Time	
Aeration Time	
Warranty (parts & labor)	12 months

SteraMist™ Environment System
¹Staphylococcus aureus (ATCC #6538), Pseudomonas aeruginosa (ATCC #15442),
Methicillin Resistant Staphylococcus aureus (ATCC #33592), Salmonella enterica
(ATCC #33592), Clostridium difficile spores (ATCC #43598)
²Norovirus (Feline Calicivirus) (FCV) (ATCC #VVR-782)

TOMI™ Training and Support: The Value Beyond The Buy

The purchase of SteraMist™ Binary Ionization Technology® (BIT™) not only means an investment in the best disinfection/decontamination technology currently on the market, but also offers a fully supported partnership with TOMI™ Environmental Solutions, Inc.

As part of this partnership, a certified SteraMist™ Technician will conduct a site visit and training session with the EVS department and any other required personnel, based on the hospital's needs and the specific product purchased. During the same initial visit, the representative will review the facility's disinfection/decontamination needs and recommend customized protocols for immediate and ongoing surface and terminal clean requirements.

Training Program Includes:

- Hands-on training for facility staff for application, care, safety and troubleshooting.
- Supervisor Training.
- Ongoing phone and digital consultation with a SteraMist™ Trainer at training@tomimist.com.
- Basic troubleshooting technique package available upon request during training.
- Site visits upon request, when necessary.

Support Program Includes:

- One year warranty with an option to extend.
- 24/7 equipment technical support (maintenance, troubleshooting, calibration) at repair@tomimist.com.
- 24/7 SteraMist™ application support (protocols, proper usage) with a SteraMist™ Technician at tomiservice@tomimist.com.
- Ongoing protocol consultations with a SteraMist™ Technician.
- Rental Equipment (for emergency procedures/large project needs).
- A direct line to your SteraMist™ sales representative for all other additional needs.

**This planned partnership was created with one goal in mind:
To ensure your facility's excellence in disinfection/decontamination!**

Reduce Your
Facility's
Sporicidal and
Quad-ammonia
Product Usage



Less Surface
Pathogens



Overall
Reduce
Costs



Lower HAI
Hospital
Reporting Rates



Increased Hospital Ratings



TOMI™

STERAMIST™

HEALTHCARE



TOMI™ World Headquarters
9454 Wilshire Boulevard | Penthouse G-6
Beverly Hills, CA 90212
Phone: 800.525.1698 | Fax: 412.766.7878
info@tomimist.com

TOMI™ East Coast Offices
5111 Pegasus Court | Suite A
Frederick, MD 21704
Phone: 800.525.1698 | Fax: 240.439.4115
info@tomimist.com

www.tomimist.com/healthcare

