## Automated Decontamination For Passenger Environments









We engineer and install the world's most effective decontamination systems.

What makes us the best?

#### **1** TOUCHLESS AUTOMATION

During 15-minute treatment cycles, an accurate concentration of aerosol dry mist decontaminates air and surfaces, reliably achieving 100% coverage.

#### 2 UNPARALLED EFFICACY

Up to 8-log bioburden reduction eliminates 99.99999% of bacteria, viruses, fungi, and mold. Chemical toxins and odors are neutralized and broken into nontoxic, biodegradable components.

#### **3** COST SAVINGS

Affordable upfront costs and lower operational expenses recoup initial investment in approximately twelve months.



## Eliminating Toxic Problems In Passenger Environments

#### **AIR & SURFACE DECONTAMINATION**

Minimize health risks associated with bacteria, viruses, mold, fungi and chemical toxins such as formaldehyde and VOCs.

**COVERAGE** Reliably achieve 100% coverage of air and surfaces with a 10 micron dry mist aerosol, reaching areas that wipes, vapor, and UV light can't.

**EFFICACY** Effectively eliminate up to 99.99999% (8-log) of biological pathogens. Neutralize chemical toxins. Remove odors.

SPEED Access treated areas immediately after the 15-minute cycle is complete. No wiping necessary.

**EASE OF USE** Plug in mobile system for routine decontamination. Initiate on-demand treatments via control panel or mobile app.

**SAFETY** Protect staff and improve patient care. Certified green, environmentally friendly, and safe for all surfaces and electronic equipment.

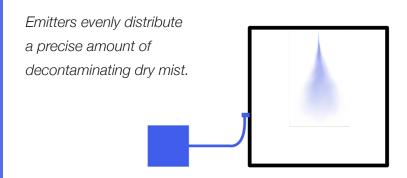


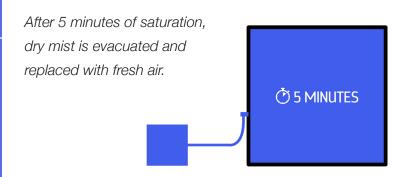
## Introducing

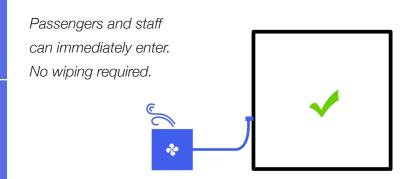
## **Total Reset Technology**™

Total Reset Technology combines precision dry misting with the most effective, nontoxic decontaminant ever created. Superior efficacy and ease of use make it the most comprehensive and cost-effective decontamination solution available.

- A weather-resistant port is installed on the exterior of the vehicle. Tubing that has been fed through the outer structure connects to dry mist emitters installed on the interior.
- The portable decontamination system is plugged into exterior port. Treatment cycle is initiated from control panel or mobile app.
- Air and surfaces are disinfected,
  decontaminated, and ready for use—
  a vast improvement in efficiency and efficacy
  compared to conventional processes.







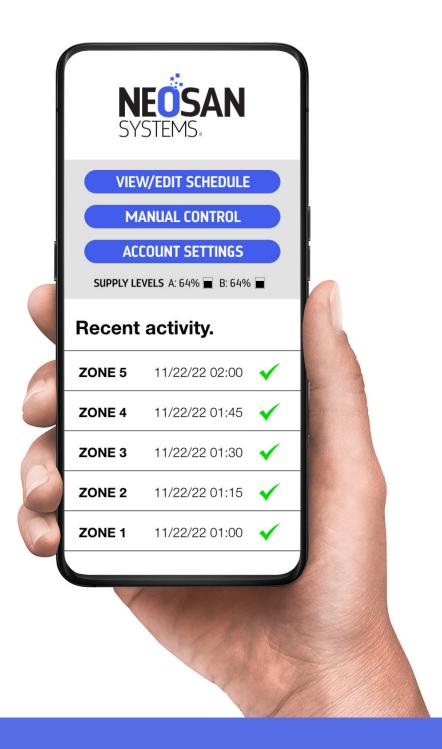
#### **COMPLETE**

Air & Surface Decontamination



In Only 15 Minutes!





## Control Everything With A Mobile App.

Safe, accurate, and convenient.

- Easily manage the system via mobile devices
- Preprogram regular decontamination intervals
- Initiate on-demand treatment cycles
- Schedule room or zone treatments
- Track cycles
- Receive supply level alerts and maintenance notifications

### What we're spraying.

Originally developed for military-grade biological and chemical decontamination, Total Reset<sup>™</sup> has been commercialized by NeoSan Systems for dry mist automation.

#### **NeoSan Systems Total Reset™**

EPA-registered, full-spectrum antibacterial, algaecide, mildewstat, decontaminant, deodorizer, fungicide, virucide, disinfectant, and cleaner.

Effective Against: Staphylococcus aureus, Staphylococcus epidermidis, Listeria monocytogenes, Influenza Type A (H1N1) & B, Pseudomonas aeruginosa, Klebsiella pneumoniae, Enterobacter aerogenes, Escherichia coli (0157:H7), Clostridium difficile, Salmonella enterica, Proteus mirabilis, Bacillus subtillis, Bacillus anthracis, Yesina Pestis Norovirus, MRSA, ESBL, Vancomycin-resistant Enterococcus faecalis, Monkeypox, and COVID-19.





## NeoSan Systems **Total Reset**™



#### 8-Log Kill Rate

Kills up to 99.99999% of bacteria, viruses, fungi, and mold



#### Neutralizes Chemical Toxins

TICS, formaldaheyde, VOC's, and toxic residues left by other cleaners



#### Destroys Odors

Eliminate odors without the use of encapsulating agents or fragrances



## Nontoxic & Ecofriendly

Safely breaks down toxins into nontoxic, biodegradable components



## Noncorrosive & Nonflammable

Safe for all industrial surfaces, screens, and sensitive equipment



## Creates A Fungistatic Barrier

Protects surfaces from recolonization for over 21 days

## Nontoxic & eco-friendly.

Biodegradable.

Noncorrosive.

Eliminates irritants that can cause asthma, allergic reactions, and chemical sensitivity.

No formalin, chlorine, carbolic acid, or heavy metals.

Noncarciogenic.

Dye & fragrance-free.

Will not damage screens or electronic equipment.

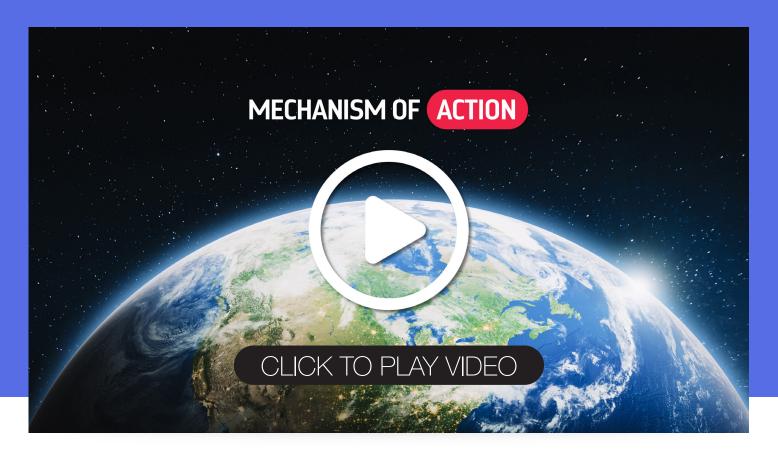
#### Safe for all industrial surfaces:

Stainless steel, glass, aluminum, porcelain, granite, concrete, brick, asphalt paving, treated wood, butyl rubber, acoustic ceiling tile, commercial carpet, fabric-covered office partition panels, smooth latex painted wallboard, CARC painted metal, fabrics (cotton, polyester, microfiber, wool, acrylic, with elastomeric fibers).



## **Understanding The Chemistry**

Total Reset<sup>™</sup> is based on the synergistic effect between two active ingredients: quaternary amines and hydrogen peroxide. The formula also contains supporting compounds that enhance solubilization and reactivity, accelerate oxidation activity, increase bulk and surface viscosity, extend the shelf life of the formula, and control the chemical reaction and pH. All ingredients in the formulation, including water, are balanced in order to guarantee maximum efficacy under stable and safe conditions.



#### **Understanding Disinfection**

Kill Rate Per 1,000,000 Microorganisms

1-LOG KILL (90%) 100,000 Microorganisms Remain

**2-LOG KILL (99%)** 10,000 Microorganisms Remain 3-LOG KILL (99.9%) 1,000 Microorganisms Remain 4-LOG KILL (99.99%) 100 Microorganisms Remain 5-LOG KILL (99.999%) 10 Microorganisms Remain

6-LOG KILL (99.9999%) 1 Microorganism Remains

7-LOG KILL (99.99999%) .01 Microorganism Remains

8-LOG KILL (99.999999%) .001 Microorganisms Remain

That's best-in-class disinfection.



## **TRT 4000**

## Vehicle Decontamination

Portable system includes chemical supply, supply hose, and connector.

Weather resistant connector port is installed on the outside of the vehicle.

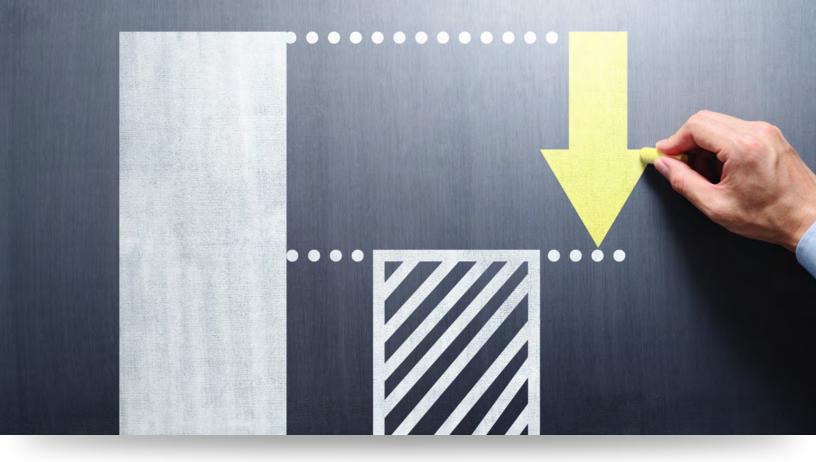
Tubing is installed in vehicle structure and connected to the dry mist emitters.

- 100% coverage
- 10 micron dry mist
- Retrofit or newmanufacturing
- Voltage: 208 v, 240v, or 480v
- Amperage: 30 Amp

## How do we compare?

Touchless, automated decontamination systems remove or reduce reliance on operators and associated risks of human error relative to selection, formulation, distribution, and adhering to appropriate contact times. The most used systems use hydrogen peroxide vapor, aerosolized hydrogen peroxide, or ultraviolet (UV-C) radiation. These systems have important differences in their active agent, delivery mechanism, efficacy, process time and ease of use.

	Total Reset Technology™	Fogging Robots	UV Light
Fast Treatments (Less than 30 minutes)	$\checkmark$	×	×
Up To 8-Log Microbial Efficacy	<b>√</b>	VARIES	×
Fully Automated Operation	$\checkmark$	×	×
Immediate Entry After Treatment	<b>√</b>	VARIES	<b>1</b>
100% Coverage	<b>√</b>	×	×
EPA Registered	<b>√</b>	VARIES	×
No Wiping Or Rinsing Needed	<b>√</b>	×	
Safe For All Surfaces, Equipment & Devices	<b>√</b>	VARIES	<b>1</b>
Neutralizes Chemical Toxins And Allergens	<b>√</b>	×	×
Removes Odors		×	×
No Negative Effect On Indoor Air Quality	<b>√</b>	×	<b>V</b>
Not Affected By Uneven Flooring	<b>√</b>	×	×



#### Costs

# The harmful effects of cross-contamination and indoor air pollution are causing thousands of lawsuits nationwide.

Bacteria, viruses, chemical toxins, VOCs, and toxic residues left behind by cleaners and disinfectants are harmful to our health. They can cause respiratory illnesses, allergic reactions, and even cancer—a potentially severe liability.

The lack of efficiency and efficacy of conventional cleaning protocols makes automated dry mist decontamination a superior solution.

Moderate implementation costs and operational efficiencies, typically result in a **full recovery of the investment after only 12 months.** 

# Automated Decontamination For Indoor Environments



609 Broadway Blvd. NE
Albuquerque, NM 87102 USA
Toll-Free +1 877 400 9080

neosansystems.com