



# SENTINEL CHECKPOINTS

Helping you guard your employees and  
the public – now and into the future.



Serving Northern California for over 35 years

# Now you can breathe easy and with confidence!

Most people spend 90% of their time indoors. Yet most people have no idea how clean and safe their indoor air really is.

The truth is indoor air quality (IAQ) actually can be 10 times worse than outdoor.

With every breath, we may be under attack by bacteria, viruses, microbes and hundreds of dangerous contaminants that circulate through indoor air.

**The best way to achieve better air is to put effective antimicrobial protocols in place that are proven to work.**

And it's not just one thing, but an integrated combination of elements that enable you to dramatically increase your IAQ and reduce the presence of microbes, VOCs, pollutants and more – to create a safer, healthier work environment.



## SENTINEL CHECKPOINTS

**Contact us for a no-cost / no-obligation Sentinel Checkpoint Evaluation**

First, we assess what protocols you already have in place, and determine where there are critical gaps you need to resolve. We then recommend the best options for you to consider integrating with your existing protocols for optimum IAQ.



### FACT

Traditional cleaning products and surface cleanliness protection are only *one* of the Microbial Defense checkpoints to look at – and they are not enough.

### FACT

**There may be microbial trouble in every breath you take.**

Your air is everything. But not all air is created equal – and some of it is downright dangerous. And let's face it – you have to breathe at some point! Stop waiting to inhale. You can only hold your breath so long.

**Secure your company's health, wellness and safety with Hotsy Pacific's industry-leading microbial defense solution: Sentinel Checkpoints.**

## Sentinel Checkpoints Solutions by Hotsy Pacific

Sentinel Checkpoints is an industry-first end-to-end solution that merges technology innovation with traditional safety protocols to improve IAQ and wellness.

**It consists of a five-part solution** that 1) cleans and sanitizes surfaces; 2) disinfects areas efficiently; 3) seals and protects your surfaces and air-spaces; 4) "heals the air" with our powerful purification systems and, 5) monitors and measures designated areas in real time.

## INTRODUCING

# Hotsy Pacific's industry-leading microbial defense solutions



## SENTINEL CHECKPOINTS

Merging technology innovation with traditional safety protocols to improve IAQ & Wellness and help guard your employees and the public – **now and into the future.**



### Clean & Sanitize

General cleaning to reduce and remove debris and soil buildup that often serve as gathering points for harmful bacteria, viruses and microbes. It appears clean to the eye, BUT does not kill them.



### Disinfect

Involves chemicals such as and disinfectants like Vital Oxide or high temperatures like steam to attack and kill microbes, viruses and bacteria on contact. Effective, but requires constant application.



### Seal & Protect

Uses a disinfectant with a bonding agent to coat surfaces and allows the disinfectant to keep on working for up to 30 days. Reduces the need for frequent application, cutting labor time. Withstands normal cleaning protocols.



### Purify & Heal the Air

Destroys and eliminates all contaminants. Eliminates harmful microbes, bacteria and viruses, VOCs, and particulate matter.



### Monitor & Measure

Conducts a real-time comprehensive review of the air quality in your facility to measure outcomes on an ongoing basis and improve protocols.

- Can be fully integrated with building management systems.
- Monitors TVOC, biological pathogens PM 0.1-2.5 microns

(including COVID-19, Influenza flu virus, and other germs that are widely airborne), CO2, PM 2.6-10 micron particulate matter, relative humidity and temperature.



# Clean & Sanitize

## Total Clean with Vital Oxide



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VitalOxide is a CDC-approved, EPA-registered disinfectant cleaner, mold killer and super effective odor eliminator. Ready to use with no mixing required, just spray, wipe or fog right from the bottle. Non-irritating to the skin and non-corrosive to treated articles. Vital Oxide comes in a variety of useful sizes and applicators that make staying safe just a swipe away!

### Product overview



#### Food Contact Sanitizer – NSF Registered (D2) Sanitizer

VitalOxide kills 99.999% of bacteria, including eColi, Salmonella and Listeria in less than 60 seconds, and it's odorless, requires no rinse and doesn't alter the taste of food that has been prepared on sanitized surfaces.



#### Odor Eliminator

Eliminates malodors due to smoke, trash, septic systems, stale cooking and more, without using masking agents or fragrances. Neutralizes urine and fecal odors.



#### Soft Surface Sanitizer

Kills odors and odor causing bacteria on soft surfaces by eliminating the source. Great for upholstery, curtains and auto interiors.



#### EPA-Registered Disinfectant

Contains no volatile organic compounds (VOCs) and kills a wide range of viruses such as Noro Virus, Feline and Canine coronavirus and bacteria. It doesn't contribute to mutating super bugs.



#### Allergen Eliminator

Proven effective on pet dander, as well as, dust mite and cockroach allergens. Safe to use on pet bedding and sleeping areas.



#### Eliminates SARS –CoV (COVID-19)

Listed on US EPA List (N): Disinfectants for use against SARS-Cov-2, the cause of COVID-19.



#### HVAC and Air Ducts

Leaves HVAC systems and air ducts free of microbial contamination from bacteria, mold, mildew and other fungi, while ensuring air quality.



#### Mold and Mildew Inhibitor

Inhibits and keeps mold and mildew from growing for up to 4 weeks.



**VitalOxide**



# Clean & Sanitize

Total Clean with Vital Oxide



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## Product details

### One Part Stable Chlorine Dioxide Formula

- Very effective
- No mixing

### EPA Category 4 — low toxicity

- Safe for animals and humans
- No smell formula
- No Personal protective equipment required

### 5 Log Kill

- Staph
- Strep
- Ecoli
- MRSA
- TB

### Eliminates Viruses

- SARS-CoV-2, the cause of COVID-19
- Influenza
- Noravirus
- HIV

### NSF Registered (D2) Sanitizer

- Hypo allergenic, non-irritating to skin
- USEPA List(N) registered No. 82972-1 in all 50 states
- pH balanced at 8.5, Odorless
- Shelf stable — over 2 year shelf life
- No special shipping or handling

- Non-corrosive — carpet, fabric, natural stone, plastic safe
- As OSHA / WHMIS / GMS compliant

### Foam Capability

- Fast application, dwell time
- Reduce water and product usage





# Disinfect

Disinfect Surfaces and Areas



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Victory sprayers can be used with solutions like Vital Oxide to sanitize and disinfect or to neutralize odors, bacteria, viruses and other hazardous and foul elements from a variety of environments.

These sprayers are incredibly versatile and easy to use, and popular for use in a variety of settings, such as food service and preparation, fitness facilities, schools, hospitals and more.

## Victory Electrostatic Backpack Sprayer

Use the Victory Sprayer with Vital Oxide Residential, Commercial, and Hospital Disinfectant to clean, sanitize and disinfect, to neutralize odors, bacteria, viruses, and allergens on a variety of surfaces.

The backpack model with its larger tank is popular with bigger areas like schools, public / corporate buildings, gyms, and sports arenas.

Includes spray nozzle and hose, battery and charger

Removable backpack tank holds 2.25 gallons

**VitalOxide®**



Adjust spray between settings of 40, 80 and 110 microns

Full charge provides four hours of operation

Cover up to 23,000 square feet with each full tank





# Disinfect

Disinfect Surfaces and Areas



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## Product specifications

Model #	VP300ES
Power	Cordless
Tank size	2.25 gallons / 8.52 L
Weight (no chemical)	10 lbs
Weight (full)	28.8 lbs
Optimum spray rRange	4-6 ft.



	Nozzle setting 1	Nozzle setting 2	Nozzle Setting 3
Nozzle Shape	Full cone	Full cone	120° Fan
Particle size	40 microns	80 microns	110 microns
Flow rate	3.4 ounce/min	5.1 ounce/min	13.4 ounce/min
Run nTime per tank	84 min	56.5 min	21.8
Coverage per tank*	23,000 sq ft	20,600 sq ft	13,100 sq ft
Tanks per charge	2.9	4.2	11

*\*Per internal testing determined buy flow rate and particle size*



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# Seal & Protect

Protect Safely and Continuously



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Hotsy Pacific's industry-leading microbial defense solutions: Helping you guard your employees and the public – **now and into the future.**

Every day, harmful microbes threaten our learning environments, seemingly unnoticed until it's too late. Children and adults alike are constantly sharing items touched by countless others. Protect with anti-microbial solutions that are safe and non-toxic have a long, proven history of success.



## Product Overview

- Xmicrobe is an EPA Registered patented water-based technology approved for use as an antimicrobial preventative under EPA and FDA regulations to preserve food contact articles
- Xmicrobe creates a biostatic surface that controls and rapidly destroys odor-causing germs, bacteria, mold, mildew, fungi, and algae by first piercing via its positive attraction and then electrocuting
- Xmicrobe remains active on treated hard and soft surfaces, 24/7, providing unsurpassed durability
- Easy to apply and leaves the surface easier to clean
- Industry's highest safety rating
- Xmicrobe is a virtually permanent world class, industry leading EPA Registered Hypergreen protectant coating. Covalently bonding to both hard and soft surfaces, it works continuously to destroy odor-causing bacteria, germs, mold, mildew, fungi, and algae



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## XMicrobe VS leading antimicrobial technologies

	XMicrobe RTU	Triclosan	Silver	Copper
Effective antimicrobial technology	●	●	●	●
Non-leading technology	●			
No poisons used to kill microbes	●			
Does NOT promote adaptive organisms	●			
Safe for humans, pets & the environment	●	Banned by the FDA in 2016		
Affordable	●	●		

*Water Based Formula -Xmicrobe™ RTU is a completely water-based formulation. It is easily used by field personnel using a basic spray bottle, or a high fogging system.*



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# Purify & Heal the Air

Purify with Confidence



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## Introducing the ICon AIR HEALER

Innovative air purification technology, effectively retains particulates (PM), and also destroys and neutralizes harmful Volatile Organic Compounds (VOCs) and microorganisms. Time for clean and healthy air, free from bacteria and viruses, including COVID-19!



Free standing high device capacity (up to 5,000 sq. ft. or 21,188 cubic feet)

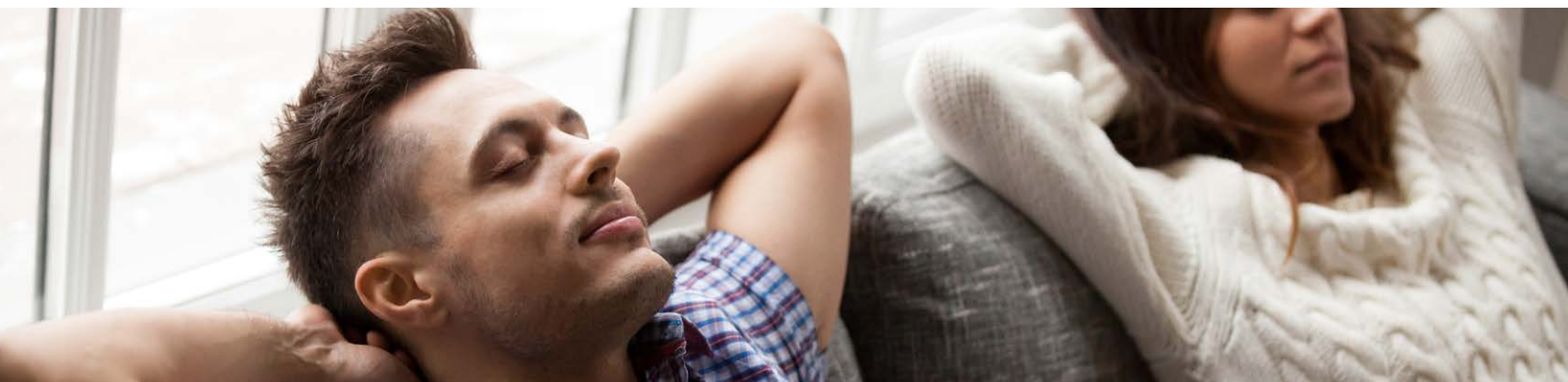
Extremely low operating costs

**ThinkLite<sup>®</sup> Air**



Practically maintenance-free

MERV 19 – .3 Microns



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## Product specifications

### General specifications

Power requirement	110 / 230V 50 / 60Hz
Energy consumption, 4 fan speeds	Low 203W, Medium 210W, High 236W, Max 250W
Dimensions (without / with packaging)	1273 x 684 x 334 mm / 1328 x 794 x 443 mm
Weight (without / with packaging)	72kg / 80kg
Fan motor	AC 230V (EU version), AC 115V (US version), long lifespan, non-stop use OK
Control panel	20 character, 4-line LCD display encoder
Air output (low-max)	(Low-max) 200-600 m <sup>3</sup> /h
Housing material	Metal
Color of main housing / locking arms	RAL7042 / RAL7016
Noise level, 4 fan speeds	Low 32dB, Medium 52dB, High 56dB, Max 61dB

### Performance

EN 1822 filter classification	HEPA H14 ≥99.999% EPA E12 ≥99.97%
Main HEPA filter life	Recommended main filter replacement every 12 months, with 24/7 operation. In low PM pollution up to 24 months
PM particle filtration at ≥0.2μ (H14, E12)	≥99.999%
VOC reduction (TVOC)	≥95-97%
Microbiological contamination reduction level	≥99.9999%
Output air quality, Merv standard	MERV 19

### Output air quality, merv standard

Recommended room size	250-500m <sup>2</sup> , depending on air contamination level
Max room size	Up to 500m <sup>2</sup>
Neutralization chamber	Self-cleaning, long life, maintenance free 48 months (standard working mode, no boost function used)
Display languages	English
Fan speed settings	4
Control via local LAN	Yes, dedicated website
UV lamps life status	Real time control
Working modes	Manual / automatic
Dust level, output air	Yes, LCD display
VOC level, output air	Yes, LCD display
Boost function	Extra neutralization power, highest VOC and microbes reduction level
Electrical safety	CE, EMC certification



# Monitor & Measure

Monitor in Real Time



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## ThinkLite Air Monitoring Systems

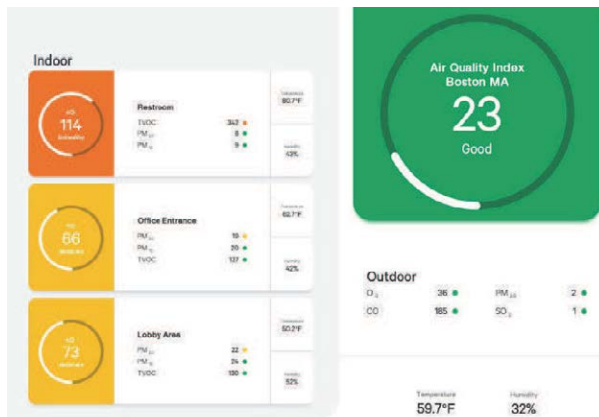
With no data driving your building operations, you have no insights to make informed decisions. ThinkLite's Flair Indoor Air Quality Monitoring technology exists for this very reason; combined with existing HVAC and building management systems, indoor air quality monitors are imperative to understanding the safety of the air you breathe, the efficiency of your ventilation, and the performance of your Filtration efforts.

**ThinkLite** Air<sup>®</sup>



## Air quality confirmation at a glance

Scientifically analyzing key air quality factors that are continuously measured in real time!



*Indoor VS Outdoor levels continually measured and presented for input at a glance*



### Good

Pathogens survival is low and airborne transmission is very unlikely.



### Moderate

Pathogens survival is moderate & airborne transmission is possible but poses little to no health risk.



### Unhealthy

Pathogens survival is prolonged and airborne transmission is likely.



### Severe

Pathogens survival is high and airborne transmission is certain.

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Monitor in Real Time



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## How does COVID-19 spread in indoor environments?

When people cough and sneeze, they expel tiny water droplets that contain salt and organic materials. Anyone infected with the COVID-19 will also expel the virus, which is strong enough to detect all the way down to 0.1 microns.

As these water droplets containing the virus evaporate inside buildings, the microscopic matter will become small enough and light enough to stay suspended in the air. Over time, the concentration of the virus will build up and disperse in the form of particles which will increase the risk of infection for people occupying the buildings – particularly if there is stagnant air.

Lack of adequate ventilation in many indoor environments, such as workplaces and residential buildings then increases the risk of airborne transmission of the novel coronavirus. While there is no technology to detect or calculate the concentration of the COVID-19 virus in a given indoor space, ThinkLite's Flair Indoor Air Quality Monitor will help you gauge the likelihood of presence and survival of the coronavirus in your indoor environments.



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