



A QUICK GUIDE TO THE

SYNEXIS

BIODEFENSE SYSTEM

The microbe-fighting machine designed to create a cleaner food industry.

- + Innovative Dry Hydrogen Peroxide (DHP™) fights viruses, bacteria, mold, odors, and insects.
- + Attacks microbes both in the air and on surfaces.
- + Continuously flows through any indoor space without anyone ever needing to leave the room.
- + No ozone. Synexis devices underwent rigorous testing by Underwriters Laboratories (UL) and were certified to meet UL2998 for zero ozone emissions.

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BEHIND THE SCIENCE

+ Naturally Safe

We designed the environmentally-sustainable Synexis system to provide continuous protection without disturbing people's day-to-day activities.

DHP™ is a form of gas whose molecule, Hydrogen Peroxide, is a natural component of human lungs. DHP™ occurs at levels well below OSHA's standard¹, and Underwriters Laboratories (UL) has declared our DHP™ BioDefense System to be non-ozone producing.





THE SECRET TO OUR INNOVATION



The Synexis BioDefense System is as simple as smart science.

Every indoor environment naturally contains ambient oxygen and humidity. Our patented technology breaks these molecules apart and reassembles them into DHP™.

Since all microbes require water from the environment to live, they attach themselves to our DHP™ molecule (which is similar in structure to water) for survival. Once it's attached, DHP™ breaks down the microbe's outer cell membrane leading to its destruction. So long microbe!



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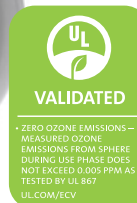


MEET THE TROOPS



THE BLADE

Out of sight. Out of mind. Out with the microbes. The Blade fits in-line with your existing HVAC ductwork, without affecting the system.



THE SPHERE

It's adaptable, tactical, and can blend in anywhere. Since it only needs a standard 120VAC/220VAC outlet, the Sphere can sit or be mounted wherever you need it most.



THE SENTRY

The Sentry is designed for challenging environments like industrial facilities with HVAC systems that are either inaccessible or nonexistent—but still only needs a standard 120VAC/220VAC outlet to get to work.



ATTACKING MICROBES

IN THE AIR AND ON SURFACES

Microbes like viruses, bacteria, mold, and odors pose the biggest health risks and can be passed along in the air and on surfaces, potentially creating an endless and dangerous cycle.

But DHP™ reduces microbes in even the hardest-to-reach areas.



The DHP™ Difference¹

		Dry Hydrogen Peroxide (DHP™)	Antimicrobial Impregnated Surface	UV Light (Robots)	Hydrogen Peroxide Vapor & Mist Generators	Portable High Efficiency Particulate Air (HEPA) Cleaners	Bipolar Ionization
EFFICACY	Effective against airborne and surface contaminants such as viruses, bacteria, and fungi*	+		+	+		+
	Complete coverage including hard-to-reach areas	+				+	+
	Continuous microbial reduction	+	+			+	+
SAFETY	No ozone generated	+	+	+		+	
	Reduces risk of cross and recontamination	+	+	+	+	+	+
	Safe to use in occupied spaces	+	+			+	
	No odors, chemicals, or solvents	+	+			+	
COST	Minimal-to-no manual operation cost	+	+			+	
	No throughput/patient flow interruption	+	+			+	+
	Low maintenance cost	+	+	+		+	
OTHER FEATURES	No bright lights	+	+				
	Flexibility and ease of operation	+	+			+	+
	Low operating energy cost	+	+				

¹Data on file. **UVC light does not produce ozone. However, the shorter UV-V at 185 nanometers wavelength produces ozone.



OUR RECIPE FOR **MICROBIAL REDUCTION**



DHP™ can reduce the levels of microbes in any indoor space along the food service journey, both in the air and on surfaces, including:

- + Processing Plants
- + Supermarkets
- + Poultry Operations
- + Restaurants
- + Dining Halls





GET IN TOUCH



We're here to answer any questions you may have, and to work with your team to determine the solution that ensures Synexis gives you the best results.

Get in touch at **Synexis.com**, or call us at **1.866.SYNEXIS**.



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Reference: 1. Centers for Disease Control and Prevention. (2019, October 30). *CDC - NIOSH Pocket Guide to Chemical Hazards - hydrogen peroxide*. Centers for Disease Control and Prevention. Retrieved November 11, 2021, from <https://www.cdc.gov/niosh/npg/npgd0335.html>.

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