

Synexis® BioDefense System Overview



Synexis® is the sole developer of patented technology that creates and disperses Dry Hydrogen Peroxide (DHP™) to help reduce the presence of microbes in indoor spaces around the clock.

- The **Synexis® DHP™ System** flows through a building's HVAC system and protects against **viruses, bacteria, mold, odors, cigarette smoke, and insects**. It can also run as a stand alone unit in smaller rooms like conference rooms, and small offices.
- The system has been developed to attack microbes both in the **air and on surfaces**. **It's safe to run continuously**. DHP™ flows through any indoor space (24/7/365) without anyone ever having to leave the room.
- **It's safe to breathe**. DHP™ is a form of gas whose molecule, Hydrogen Peroxide, is a natural component of human lungs. It is certified to meet UL2998 for zero ozone emissions.
- **Low maintenance**. Once installed you just turn it on and go about your day. DHP™ works behind the scenes with very little upkeep, no operating staff, and no disruption to anyone's routine.

Proven Tested Technology. The Synexis® BioDefense System showed effective reduction against every species of microbes it was tested against. And since DHP™ flows continuously, when the system attacks one, it's effectively attacking every susceptible organism.

- 99.9%** SARS-CoV-2 Delta variant proven reduction in air at 90 minutes vs. control.¹
- 98.7%** SARS-CoV-2 proven reduction on surfaces at 2 hours vs. control.²
- 99.8%** Influenza proven reduction on surfaces in 60 minutes vs. control.⁴
- 99.8%** E. Coli proven reduction in air in 60 minutes vs. control.⁵
- 99.9%** Staphylococcus (MRSA) proven reduction on surfaces at 2 hours vs. control.⁶
- 91.6%** Salmonella proven reduction on surfaces at 6 hours vs. control.⁷

Where is the Synexis® system currently used?

Hospitals
Healthcare Facilities
Dental Offices
Veterinarians
Restaurants
Education Facilities - School Districts / Colleges / Universities
Corporate Premises
Retail Stores
Automotive Dealerships
Casinos
Commercial Greenhouse Growers
Convention Centers (Washington DC Convention Center)
Sports Stadiums
Gyms / Locker Rooms / Sports Medicine Facilities

"People who are in our stores always say they can tell a difference. Any grocery store or restaurant in the future, in my opinion, who doesn't have Synexis or a system like this will not survive the business."

- Barry Queen Co-Owner Price Chopper

References:

1. Data on File. SYN-0012.
2. Huang, Y.-J. S., Bilyeu, A. N., Hsu, W.-W., Hettenbach, S. M., Willix, J. L., Stewart, S. C., Higgs, S., & Vanlandingham, D. L. (2021). Treatment with Dry Hydrogen Peroxide Accelerates the Decay of Severe Acute Syndrome Coronavirus-2 on Non-porous Hard Surfaces. American Journal of Infection Control. <https://doi.org/10.1016/j.ajic.2021.07.006>
3. 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>
4. Data on File. SYN-0002.
5. Data on file. SYN-0005.
6. Data on File. SYN-0006.
7. Data on File. SYN-0008.

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