

Synexis®

The Microbial Reduction



Dennis Doyle,
CEO

In the post-pandemic world, employers are facing new expectations from employees for indoor air quality and environmental cleaning as they look to come back to the office.

Synexis is making a difference here by providing clients with a one-of-a-kind patented solution for their indoor environmental needs. It is the sole developer of the patented process to create dry hydrogen peroxide or DHP™.

The Synexis DHP™ technology continuously cleans the air and surfaces in occupied spaces. To accomplish this continuous cleaning, Synexis offers HVAC system devices or standalone and wall-mounted devices. This includes the Blade, the Sphere, and Sentry. These devices have undergone rigorous testing by Underwriters Laboratories (UL) and are certified to meet UL2998 for zero

ozone emissions. Currently, it has more than 50,000 units installed in the U.S. Customers buy Synexis devices to achieve better results.

“We are differentiated by our peer-reviewed studies, customer publications, and third-party data validating our efficacy,” says Dennis Doyle, CEO of Synexis.

Synexis DHP™ technology provides continuous cleaning coverage without disrupting people in an occupied space. For instance, in the healthcare industry, hospitals use manual cleaning to address environmental risks and keep surfaces clean. However, as soon as someone touches a bedrail, sneezes, or coughs, the space is contaminated again. The Synexis technology provides a continuously active, biodefense system to augment manual cleaning and attenuate microorganism contamination as soon as it enters a space. The solution can be deployed directly in the HVAC duct using the Blade unit, and Sphere and Sentry units can be deployed standalone or wall-mounted. A single device in its portfolio can treat up to 3,000 square feet, and the product mix can be customized to achieve results in a facility of any size, reducing contamination like mold, fungi, bacteria, viruses, and volatile organic compounds (VOCs).

These contaminants are an issue in many new building projects and existing structures. Synexis DHP™ provides a solution for each of these challenges that customers face and does so without disrupting their workforce. It has demonstrated a 99.9 percent reduction of mold in the air after only two hours. Remarkably, it oxidizes even the largest VOCs and has been shown to significantly reduce steady-state VOCs in indoor environments.

Synexis’ customers span multiple industries, proving the adaptability and

flexibility of its portfolio. Its solutions work in harsh environments like egg hatcheries, food processing plants, offshore oil rigs, hospitals, long-term care facilities, and professional sports facilities.

For instance, Kansas State University (KSU) originally started using Synexis technology to reduce mold in their residence halls. Since its initial installation, KSU has expanded the use of Synexis into dorms, offices, common areas, and a recreation center. Similarly, the University of Oklahoma installed its devices in three tower dorms to remedy an ongoing mold issue. The university tested Synexis DHP and found that in a 30-day test in a typical dorm room, they recorded a 78.6 percent reduction in surface contaminants, and air sampling showed a reduction in colony-forming units from 500 to zero.

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Synexis is a data-driven company that believes in evidence to affirm its claims. To ensure the results are reproducible for customers, it utilizes third-party and real-world testing in real-life environments and room-sized laboratory testing chambers. Synexis possesses the knowledge and expertise to partner with engineers, construction managers, and builders to create a customized solution that fits any need. 