

ENHANCING WELLNESS AND SAFETY IN RESTAURANTS FOR EMPLOYEES AND PATRONS

BobrickPure Hygiene Solutions: More Powerful Than Filters and Purifiers

Restaurant owners and operators across the country recognize the value of restroom hygiene and wellness. More than ever, patron and employee health, safety and wellness are paramount to maintaining business and staffing levels.

A May 2021 article published on Eater, "[The Lie of 'No One Wants to Work'](#)," cites a restaurant owner's health and safety concerns for employees, especially in the middle of a pandemic:

The dangers are even more acute for back-of-house staff, like line cooks and dishwashers. 'We do a ton of business out of a 400-square-foot kitchen,' Matt Glassman, the owner of Greyhound Bar & Grill in Los Angeles, said. 'There's no mask in the world that's going to protect you from being next to someone for eight hours a day in that hot environment.' Even with vaccinations on the rise, plenty of people remain scared to go back to grueling restaurant jobs.

Employee health and safety are paramount. Following ever-changing guidance and taking precautions to minimize the spread of COVID-19 were the only things restaurant owners and operators could do to increase patron



comfort and protect employees throughout the pandemic. Even viruses like the common cold and flu are a threat to staffing and wellness.

Documented Concerns

Studies have long shown that viruses and bacteria like the common cold and flu live on surfaces and in the air. As our country emerges from the global pandemic, the COVID-19 virus continues to be a concern for individuals who venture into dining establishments or private event rooms where many people congregate. Ongoing research into the spread of viruses and bacteria in restaurants has proven that these concerns are valid.

A December 2020 *Chicago Tribune* article "[Though restaurants remain a COVID-19 risk, experts and owners talk about balancing safety and business concerns](#)" identifies restaurants as a key place of concern:

As time has gone on and research on COVID-19 has grown, scientists have learned more about the virus and they say that the verdict is clear: Among public places, restaurants are one of the most concerning places of spread simply by the nature of what people do at a restaurant — eating and drinking, both of which require removal of a mask, not to mention talking to other people.

The Bobrick Solution

For building owners, meeting the hygiene needs of today's businesses can seem daunting.



There is good news. Independent studies show that Bobrick's PureDri and PureSphere neutralize 98.11% of airborne and 99.6% of surface microorganisms.

The Bobrick PureDri Sanitizing Hand Dryer provides sanitization in spaces up to 215 square feet, and the PureSphere Air Sanitizer provides sanitization in spaces up to 323 square feet. Visible labeling on both units — whether in restrooms, dining rooms or kitchens — provides added confidence to patrons and staff, letting them know extra precautions are being taken to enhance safety and sanitization.

Pure Hygiene Solutions Technology—How it Works

PureDri and PureSphere technology works by destroying existing microorganisms from bacteria and viruses in the air and on surfaces. PureDri is an enhanced restroom hand-drying process that provides continuous sanitization in a closed space of up to 215 square feet.

PureSphere, on the other hand, is an air sanitizer that mounts to a wall and neutralizes viruses and bacteria <0.03 microns in areas up to 323 square feet, such as restaurants, kitchens, break rooms and private meeting spaces. In addition, the unit works to remove odors, eliminating the need for masking agents.

PureDri and PureSphere operate using a three-step process:

1. Eliminates viruses and bacteria via a germicidal UV lamp that inactivates all microorganisms.
2. Neutralizes viral particles through strong oxidizing agents built into the equipment.
3. Sanitizes using superoxide ions that neutralize airborne particles.

The following graphic depicts the three-part process

1. GERMICIDAL UV

As air flows through the plasma chamber and over the UV lamp, all microorganisms in the air are killed/inactivated.

The plasma chamber is comprised of dual waveband UV lamps at 254nm and 185nm surrounded by nano-coated catalytic plates.



2. HYDROXYL RADICALS

As air flows through the chamber, the UV light reacts with the titanium dioxide catalysts causing water vapor to be converted to highly reactive hydroxyl radicals (OH).



3. SUPEROXIDE IONS

As air flows through the chamber, the UV light reacts with the titanium dioxide catalysts causing a release of free electrons, which bond with oxygen to form superoxide ions.



More Than Simple Filtration

Until now, HEPA's ability to purify air has served as the standard of filtration. But while HEPA filtration simply blocks particles 0.3 microns and larger, UV light inactivates all microorganisms by destroying nucleic acids and disrupting their DNA. The clinically backed science of BobrickPure Hygiene Solutions offers greater effectiveness and maintenance benefits that HEPA filtration can't match, neutralizing particles as small as 0.0001 microns. By destroying particles that are smaller than 0.3 microns, including dust, bacteria, tobacco smoke, mold spores, odors, infectious particles and pathogens, both the PureDri Sanitizing Hand Dryer and PureSphere Air Sanitizer are more effective than HEPA filtration.

In addition, HEPA filters lose their effectiveness when clogged with debris, and only those labeled washable or permanent can be cleaned. During virus outbreaks, appropriate sourcing and installation of HEPA filtration

to achieve negative pressure isolation can be tedious and time consuming. Care must be taken during cleaning to avoid damaging the filter or breaking or stretching out the fibers, which happens all too easily. [[Airborne Infectious Disease Management: Methods for Temporary Negative Pressure Isolation, Minnesota Department of Health, Office of Emergency Preparedness, Healthcare Systems Preparedness Program](#)]

These issues do not plague BobrickPure Hygiene Solutions as they do HEPA filtration devices.

Ease of Use While Promoting Safety and Wellness

- **PureDri Hand Dryer**
 - Touch-free hand-drying function
 - 20-second drying window
 - Hand sanitization
 - Immediately following dry time, a 6-second blast of super-concentrated ionized air sanitizes hands
- **PureSphere Room Sanitizer**
 - Sanitizes up to 323 square feet
 - Provides odor control and purifies 24/7
 - No filters to change

Results of Independent Studies

The effectiveness of both PureDri and PureSphere was determined by three independent research organizations in the United Kingdom – the Health Protection Agency, SGS and University of Leeds. The findings showed the neutralization of a variety of bacteria and viruses.

The results are as follows:

- 100% air disinfection and elimination of Escherichia coli, Staphylococcus aureus and Aspergillus fumigatus after 1 hour
- Surface disinfection and bacteria elimination achieved high results after 8, 24 and 48 hours

Air and Surface Testing Against Listed Pathogens

Air Disinfection Efficacy

Pathogen	1 hour
E. coli	100%
S. aureus	100%
A. fumigatus	100%

Surface Disinfection Efficacy

Pathogen	8 hours	24 hours	48 hours
E. coli	79.6%	97.7%	99.9%
S. aureus	87.4%	91.1%	99.5%
C. difficile	91.4%	98.1%	99.6%

Technical Specifications

PureDri Technical Specifications

Dimensions	10.5" wide x 32.25" high x 4" deep
Weight	20.3 pounds
Electrical Supply	110/240 volts 50/60 Hz
Current Consumption	17 Amps @ 115 volts
Normal Output	0.2 kW
Air Volume	1,200 cubic feet / hour
Air Velocity	164 feet / second @ 4"
Area Size	215 square feet

PureSphere Technical Specifications

Dimensions	5.5" wide x 15.5" high x 4" deep
Weight	3 pounds
Electrical Supply	110/240 volts 11.5-13 watts
Area Size (Model B-9210)	Sanitizes up to 323 square feet
Cover material	Polycarbonate
Cover color	Silver

The BobrickPure Hygiene Solutions Value Proposition

The revolutionary UV+ technology of PureDri and PureSphere creates hygienic air and surfaces to promote wellness and safety. The safety seal that is included with the installation of PureDri and PureSphere products shows patrons and employees they are surrounded by an environment safe from most bacteria and viruses.

Hygiene & Wellness | Safety | Clean Environments

BobrickPure Hygiene Solutions are making the world a safer, more hygienic place, one space at a time.

Visit [BobrickPure.com](https://www.bobrickpure.com) for additional resources

