

### Continuous Air and Surface Disinfection for the Health Care Industry

*Hospitals, Surgical Centers, Skilled Nursing Facilities, Senior Care, Physical Therapy, Dental Offices*

#### Protect Facility, Patients, Residents and Staff -- and Protect your Bottom Line

Finally – the solution to KILLING mRSA, staph, c.Diff, norovirus, odor problems (and more) that plague health care facilities, senior care and the like. An alternative to UV-C and chemicals, airPHX<sup>®</sup> | HEALTH continuously kills bacteria and other pathogens in the air and on surfaces - protecting patients, doctors and staff; reducing cost reimbursement risk; and providing the optimum treatment and patient care experience.

#### airPHX | HEALTH Provides a Better, Safer, Cleaner Space

Patients, doctors and staff are continuously touching and inhaling harmful microbes. Cleaners such as bleach and UV devices can reduce those risks on surfaces, but they do not treat the air. Harsh chemicals leave a strong smell, can burn the skin and corrode your equipment. And UV devices are expensive, have limits on treatment range, and require empty rooms. Neither treatment is continuous. airPHX | HEALTH uses an advanced technology to solve problems that plague health care facilities. airPHX | HEALTH is different. It is the only technology that effectively eliminates the germs that cause healthcare-associated infections continuously both on surfaces and in the air. It is 100% organic, chemical-free and highly efficient, capable of running 24/7 with the power equivalent of a 60 watt light bulb.

airPHX destroys antibiotic-resistant bacteria, viruses and protozoa for a healthier and safer facility. Our case studies have shown a greater than 95% reduction in airborne germs and 98% reduction in surface contamination in actual field installations. Reduce infection risk! Save costs! Reduce liability!

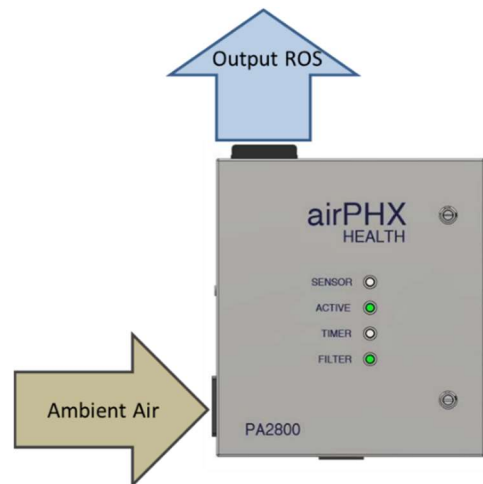
#### Benefits of airPHX

- Kills bacteria, molds and viruses (mRSA, c.Diff, norovirus, hepatitis, and others)
- Organic and safe process - with NO chemicals
- Hypoallergenic effects – asthma/respiratory friendly
- Reduces doctor, nursing and staff sick time
- Reduce litigation, reimbursement and reputation risk
- Self-contained, easy to install, low power usage and low maintenance

#### How It Works

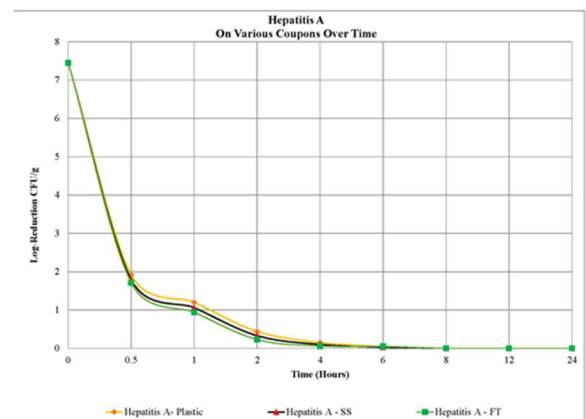
At the core of our system is proprietary technology that produces non-thermal plasma, using ambient air at normal atmosphere and at room temperature. airPHX is NOT an ozone generator. By modifying a small percentage of the oxygen molecules from the ambient air, carbon-based compounds including molds, bacteria, and viruses on surfaces and in the air, are oxidized and destroyed at the cellular level rendering them inactive.

**First Stage:** Airborne pathogens are destroyed as air circulates through the unit.



**Second Stage:** As an extension of the first stage, air diffused from the self-contained unit includes a low level of Reactive Oxygen Species (ROS), which continues to treat the environment and surfaces.

The graph below is a sample of efficacy over time on Hepatitis A in a lab setting.



# CASE STUDY: ACTUAL HAI REDUCTIONS

In January 2018, a multiple acute care hospital system in the Northeast tested a single airPHX PA2400 unit on the oncology floor of its flagship medical center, a 500+ bed tertiary care hospital. The airPHX unit ran for 18 days in a treatment space of approximately 15,000 square feet.

Air and surface testing was conducted on the oncology floor and air testing was conducted in the elevator lobbies on each other floor of the hospital. Independent lab testing confirmed reduction of air and surface contaminants on the oncology floor, with some areas achieving virtually 100% reductions. airPHX also achieved contaminant reduction in elevator lobbies of other floors of over 96%.

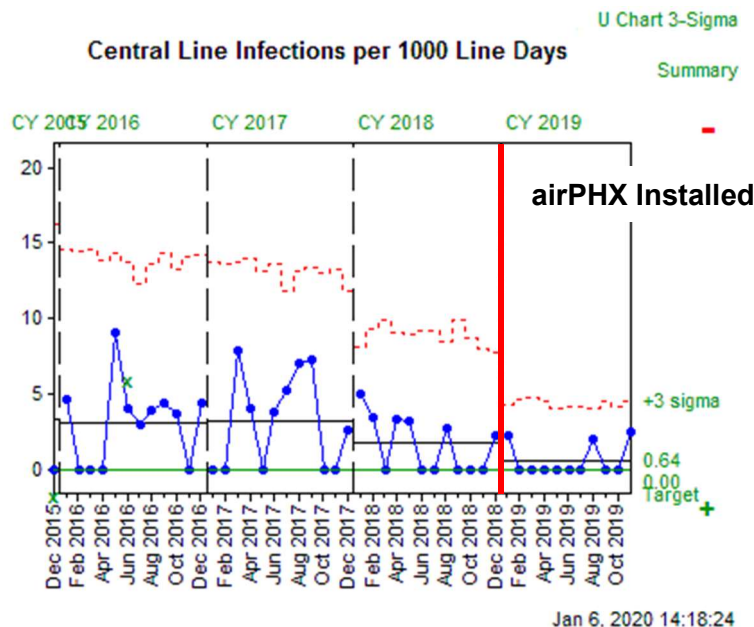
Specific test results\* were:

Air: <b>94.8% reduction</b>	Surface: <b>98.8% reduction</b>
Pre-Treatment Results: 767 cfu/m <sup>3</sup>	Pre-Treatment Results: 17 cfu/cm <sup>2</sup>
Post-Treatment Results: 40 cfu/m <sup>3</sup>	Post-Treatment Results: 0.21 cfu/cm <sup>2</sup>

\* Independent testing conducted by Scientific Air Solutions, Turlock, California.

Based on those results, the hospital system acquired airPHX units to conduct its own testing to ascertain what effect airPHX units would have on various healthcare-associated infections.

The hospital system evaluated the impact on Central Line Infections in the transplant floor over a twelve month span, commencing with the deployment of two airPHX units in January 2019. The chart below shows the actual numbers of Central Line Infections per 1000 Line Days. No other significant changes were made to the hospital's infection control procedures over the treatment period.



The hospital system shared with us their expectations of over \$1,000,000 of value returned on their investment in the two airPHX units in year one alone. This represents an ROI of close to 100 to 1, with future years of benefits to come at minimal cost. The hospital system has since acquired numerous additional units.

Contact us to learn more about airPHX  
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