SecureAire: The Most Effective Solution for Clean Indoor Air

Clean indoor air should continue to be a top priority as the COVID-19 pandemic evolves and normal life returns, including gathering indoors without masks or other social distancing. SecureAire technology is the most effective – and only scientifically proven – solution to providing air security.

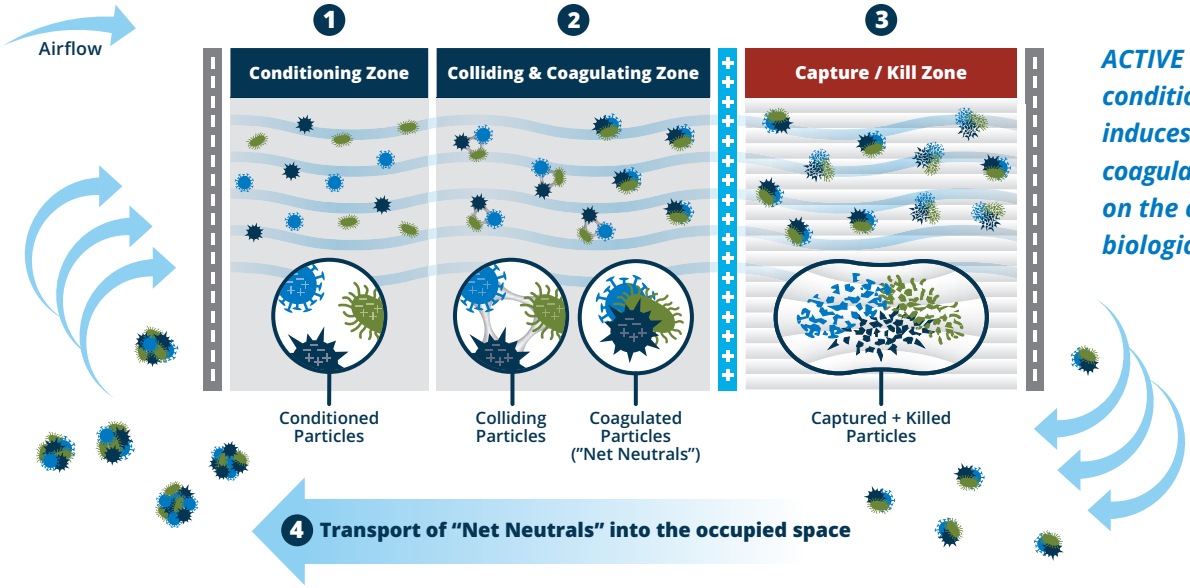
We know that the dominant route by which COVID-19 is transmitted is through aerosolized droplets and desiccated viral nuclei. We also know that normal breathing can spread droplets throughout the breathing zone just as effectively as coughing and sneezing. These infectious particles can remain suspended for hours or even days. In fact, SARS-CoV-2 can survive within building ventilation systems and remain viable and infectious for up to nine days.

Even as the threat of COVID-19 changes, we are all looking for air security at our hospitals, schools, restaurants, shopping centers, theaters, sports venues, housing complexes, offices, and recreational facilities. SecureAire is the ONLY air purification technology backed by real world data published in peer-reviewed medical journals.[1,2,3]

The Indoor Air Environment: Micro vs. Macro

Indoor air and marginally ventilated or treated spaces are particularly threatening to inhabitants due to the extremely small size, survivability, and contagious nature of SARS-CoV-2. Numerous Indoor Air Quality (IAQ) technologies have published test results claiming to "prove" they quickly and efficiently destroy the SARS-CoV-2. In every case these tests were done in highly controlled and limited environments. In some cases, devices designed to treat large rooms were applied to one cubic foot test chambers. Scientists and clinicians suggest that results from such test chambers (micro-environments) have limited application to large rooms, whole homes, and buildings (macro-environments). In other words, you, your family, and your customers should demand results based on real-world settings that reflect the spaces where you live, work, study, and recreate – not laboratories.

Figure 1



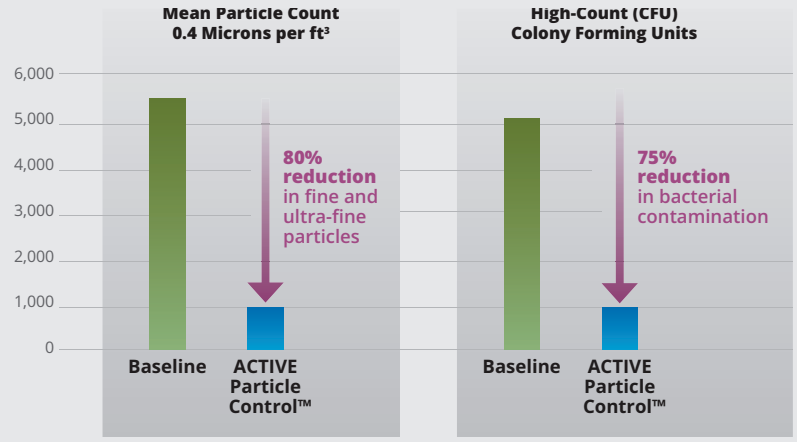
ACTIVE Particle Control Technology conditions particles and pathogens, induces collisions leading to particle coagulation, and then once collected on the capture media kills all biologic matter.

Real World Performance

In recent work SecureAire™ technology underwent real-world testing and met the clinical threshold of reducing actual viral and bacterial infections. Even if other technology can kill the virus none (other than SecureAire ™) has ever been shown kill pathogens and reduce viral or bacterial infections in live operating rooms and hospitals.

Figure 2

SecureAire reduces bacterial contamination in hospital compounding pharmacy.



Mark Hernandez, PhD, PE, Director, Environmental Engineering and Disinfection Laboratory University of Colorado, Boulder

American Journal of Infection Control, July 2020

SecureAire technology improves operating room air and kills a highly resistant Anthrax surrogate.

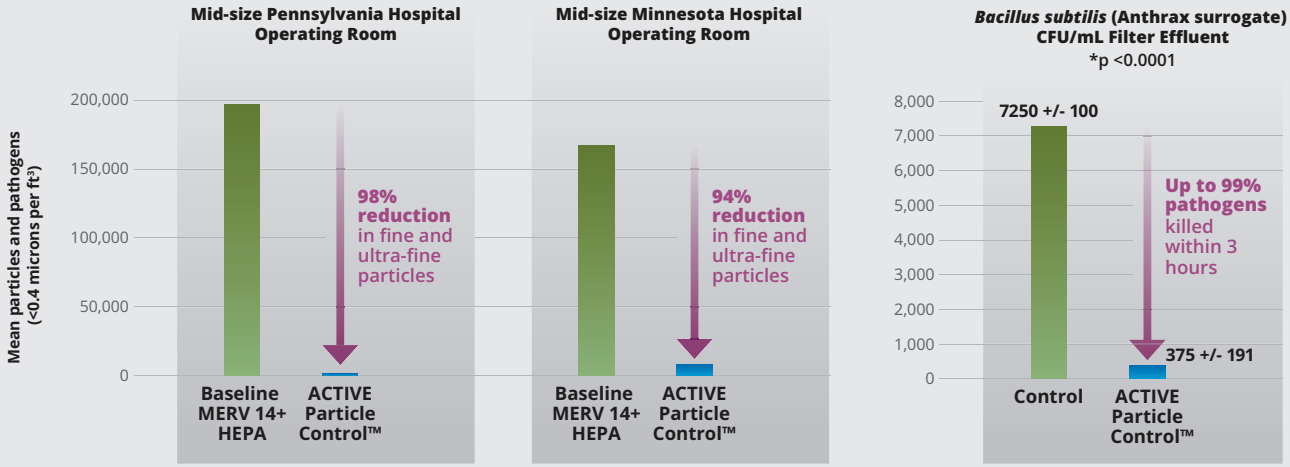
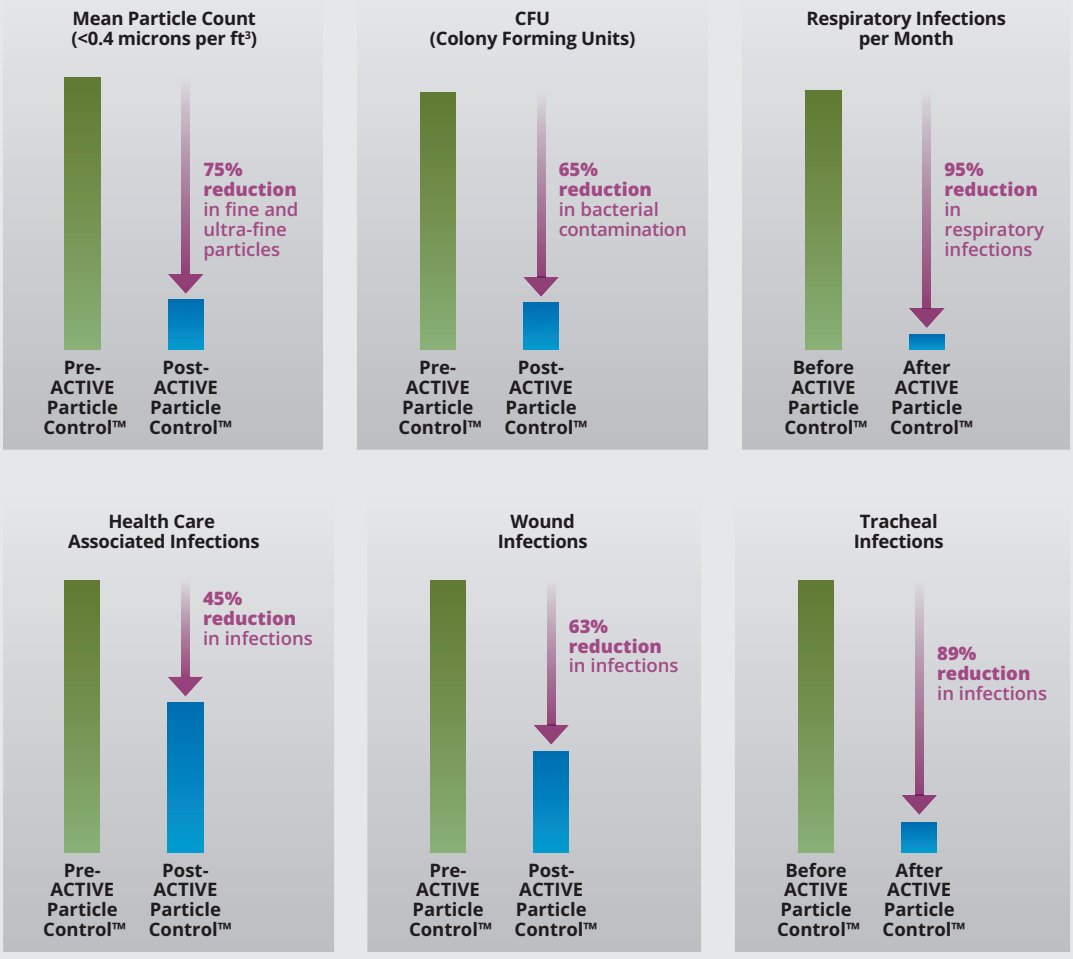


Figure 3

In over 100,000 patient days over 30 months in a 124 bed pediatric post-acute care hospital, SecureAire technology reduced hospital acquired infections.



Mark Ereth, MD,
Emeritus Professor,
Mayo Clinic College
of Medicine,
Rochester, Minnesota

Journal of Hospital Infection,
October 2021

Pathogen Inactivation

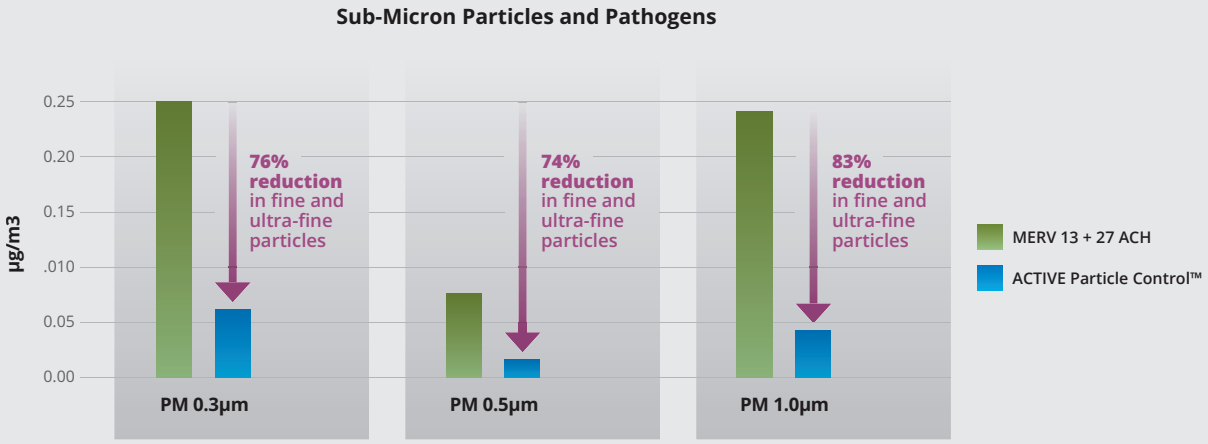
The SARS-CoV-2 virus is exponentially easier to destroy than the Anthrax surrogate (*Bacillus subtilis*) used in the above study (Figure 2). If *Bacillus subtilis* can be removed and destroyed (already proven by SecureAire technology), then the SARS-CoV-2 virus will certainly be removed and destroyed even more quickly (personal communication, Mark T. Hernandez, PhD, Director, Environmental Engineering Microbiology and Disinfection Lab, University of Colorado).

Figure 4

Elevator Air Security

Riding in an elevator during the pandemic is stressful. When you enter an elevator cabin you will be inhaling some the exhaled air (and viral load) from any passengers present in the past 18 minutes! SecureAire™ provides safe breathing zone air in elevator cabins.

Healthy Buildings America, International Society of Indoor Air Quality, January 2022



The Only Optimized IAQ Solution for all Airborne Pathogens and Contaminants

The simple principle of creating polar molecules and charged particles is the basis for SecureAire's™ ACTIVE Particle Control Technology Platform. The ability of the SecureAire™ System to effectively treat any airborne contaminant is consistent with documented 3rd Party case studies where monitoring, removal, reduction, and INACTIVATION has been achieved.

Bring Air Security to you, your family and friends, your clients, employees, and customers with ACTIVE Particle Control and Pathogen Inactivation Technology

For further information, please feel free to contact your local SecureAire Representative.

References:

[1] *American Journal of Infection Control*, 2020
[2] *Journal of Hospital Infection*, 2021
[3] Healthy Buildings America, International Society of Indoor Air Quality, 2022.

SecureAire Technologies, LLC
1968 Bayshore Boulevard, Dunedin, FL 34698
813.300.6077 | www.secureaire.com