

MARKET FOCUS

Commercial Office Buildings

For our clients in the commercial real estate market, SecureAire is providing reliable and cost-effective solutions for air purification, helping to protect tenants, employees, and customers from contaminants in the air. We are the ONLY complete indoor air quality (IAQ) solution with proven results in real world settings.

As the commercial real estate industry evolves to meet the needs of the public post pandemic, SecureAire is the go-to leader in indoor air purification for buildings including elevators! SecureAire's air purification systems utilize ACTIVE Particle Control Technology (APC)™, the most advanced electronically-enhanced air purification system available today. APC doesn't just mechanically move air to a filter like other systems, it electronically conditions and agglomerates even the smallest particles in the air so they can be transported to the proprietary filtration media where they are captured, and permanently deactivated (killed) by our INACTIVATE Technology.

ACTIVE Particle Control Technology is the only system that actually controls the movement of particles in space. INACTIVATE Technology halts organisms' ability to grow by providing the necessary voltage strength to oxidize and kill airborne pathogens. Combined, these SecureAire innovations provide the unique ability to treat all airborne challenges with equal efficiency, including the smallest particles, viruses, bacteria, TVOCs, smoke, and dissolved gases.

Additionally, we've built our technology to be cost-effective and our clients are able to see energy savings that pay back the value of the device within 12-24 months depending on the market.



SecureAire Technology Features and Benefits for the Hospitality Industry

ACTIVE Particle Control (APC)™ Technology	Proprietary SecureAire technology that reduces or removes all airborne contamination including the smallest particles which are usually unsusceptible to movement by air currents.
INACTIVATE Technology	Up to 99% inactivation of all captured and viable airborne pathogens including viruses, bacteria and mold.
High Efficiency/Low Static Pressure Systems	Effective energy-efficient operations lead to significant energy savings which often help pay back devices over 12-24 months.
EU-100X Elevator Air Purification System Safeguards Passengers In Elevators	The EU-100X system includes a fan, an ACTIVE Particle Control Technology System, a replaceable SecureAire filter cartridge and a variable-speed controller. This is a complete system that can deliver up to 600 CFM of particle-free air to the elevator compartment. The system is designed to provide airborne pathogen protection for the people that use the elevator.
Small Footprint	Adaptable to multiple HVAC configurations
Measurable Performance	The SecureAire AQM-150, Air Quality Monitor is optional with installation, and measures airborne particles in real time in any indoor space, providing the ability to assess and validate system performance.



Problems with standard air filtration systems

Standard mechanical filtration systems, including those enhanced with HEPA filters, work by simply moving air and particles to filters. But there are two significant limitations to this traditional method:

1. First, the smallest particles, by nature of their size, are suspended in the air by electromagnetic forces and are therefore unsusceptible to air currents.
2. Second, mechanical filters cannot destroy airborne pathogens that may happen to find their way to the filter.

SecureAire's advanced air purification technology overcomes both of these limitations

First, SecureAire's ACTIVE™ Particle Control forces all airborne particles, including these very small viruses, bacteria and CO, to attract and bind to each other. This creates larger and heavier masses of particles that are now susceptible to air currents. Once large enough, these particles can be returned via air movement to SecureAire's air purification cartridges to be trapped and inactivated.

Second, once captured in the electronically-charged air purification cartridges, the particles remain trapped in the cartridge, held in place by strong chemical bonds until the cartridge is removed and thrown away.

We can protect against the spread of COVID-19

With SecureAire's INACTIVATE™ Technology, **captured pathogens are subjected to a high-intensity energy field that causes cellular stress and destroys any living organisms**, including even the toughest bacteria found in hospitals and critical-care facilities. Viruses, including the novel coronavirus (SARS-CoV-2), are relatively easy to capture, removing them from the air and eliminating them as a health threat.

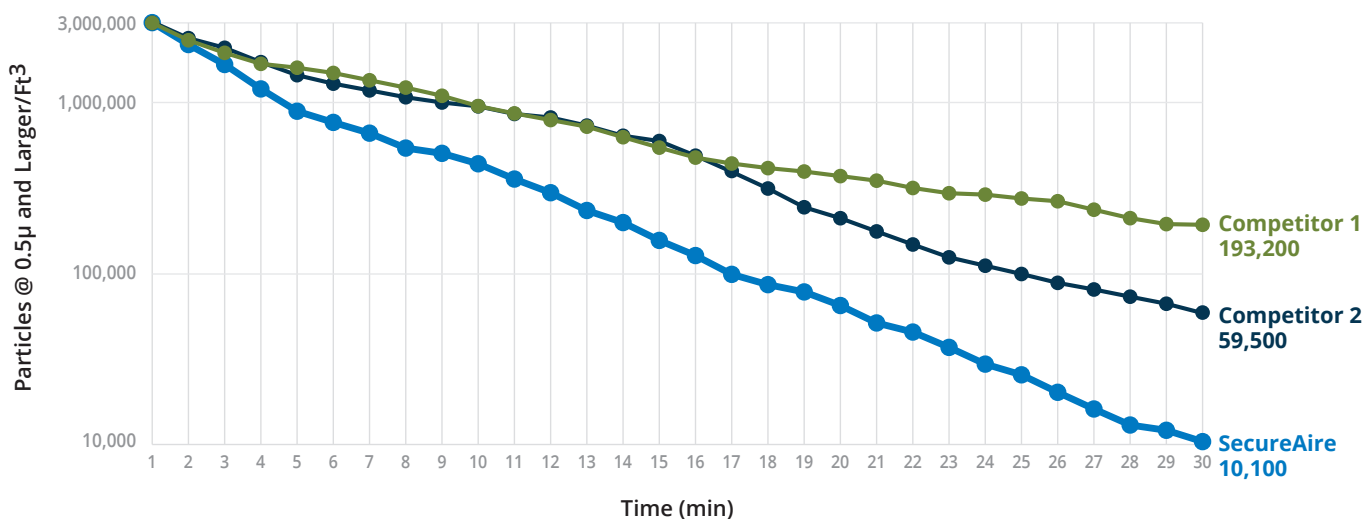
Along with airborne particulates and pathogens, airborne chemical compounds of any molecular size are also caught up and absorbed in the air purification cartridge, eliminating chemical hazards as well.

We're trusted by hospitals to remove pathogens, viruses and bacteria, from the air because we have the data to prove our effectiveness – as published in the *American Journal of Infection Control*.

- We have [proven our capabilities against even the hardest of all bacteria to destroy, Bacillus subtilis \(anthrax surrogate\)](#). A third-party certified biological test laboratory found removal and destruction of the pathogen in under 3 hours! Compared to Bacillus subtilis, SARS-CoV2 is easier to capture and destroy.
- We are trusted by several hospitals and clinical laboratory clients who have seen benefits like decreased rates of infection and better symptom control for patients with respiratory illnesses after installation of our devices.
- We have superior performance to competitive technologies as well as traditional HEPA filtration systems.

SecureAire has released [numerous case studies](#) that illustrate our air purification successes across multiple industries.

SecureAire Performance is 6X and 19X Better Than Its Nearest Competitors



The **Only Complete** IAQ Solution¹

	VOCs	Particulate Air Pollution	Viral Pathogens	Bacterial Pathogens	Allergens	Wildfire Smoke/Fumes
SecureAire	✓	✓	✓	✓	✓	✓
UV Light			✓	✓		
HEPA Filter		✓			✓	
Bipolar Ionizers²		✓				
Photocatalytic Oxidation²		✓				

¹ Based on real-world evidence published in peer-reviewed medical journals.

² Generates toxic byproducts (Joo, et al, 2021)

References

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