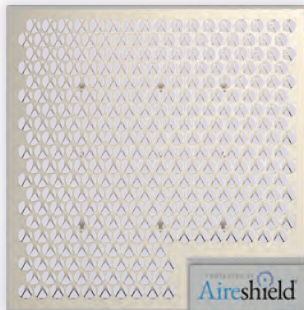




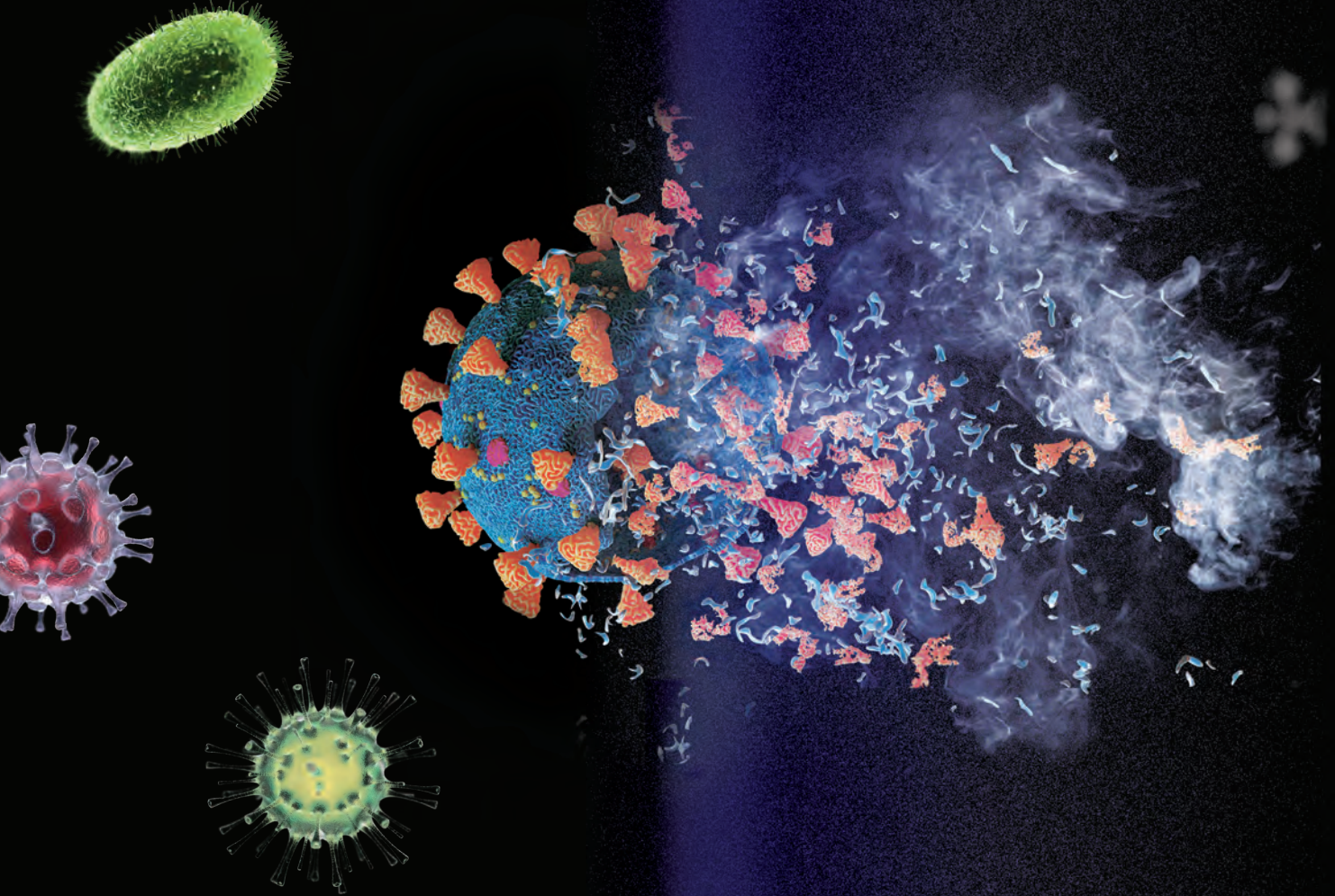
A Clean Air Solution for schools, medical, offices,
airports and residential



Plasmic-Based Air Disinfection

PROTECTED BY
Aireshield®

Plasmic-Based Air Disinfection



99.99% H1N1 aerosol killing
rate Laboratory test

98.05% Natural bacteria in the
air killing rate field test

99.98% Staphylococcus albus
killing rate Laboratory test

CSA 22.2 No 187-20 - Section 7.5
Avg 8Hr .000935 PPM

Any Building, Any Size Unit!

Every breath you take indoors is an invisible journey through the air, where pathogens linger. The air becomes a conduit for potential risks from a contaminated person to a non-contaminated one.

As buildings become more airtight and energy efficient, the risk of indoor air pollution grows. Even with standard ventilation minimum rates and particulate filtration, indoor air contaminants build up and pollute the space, causing

detrimental health impacts for occupants, caused by pathogens.

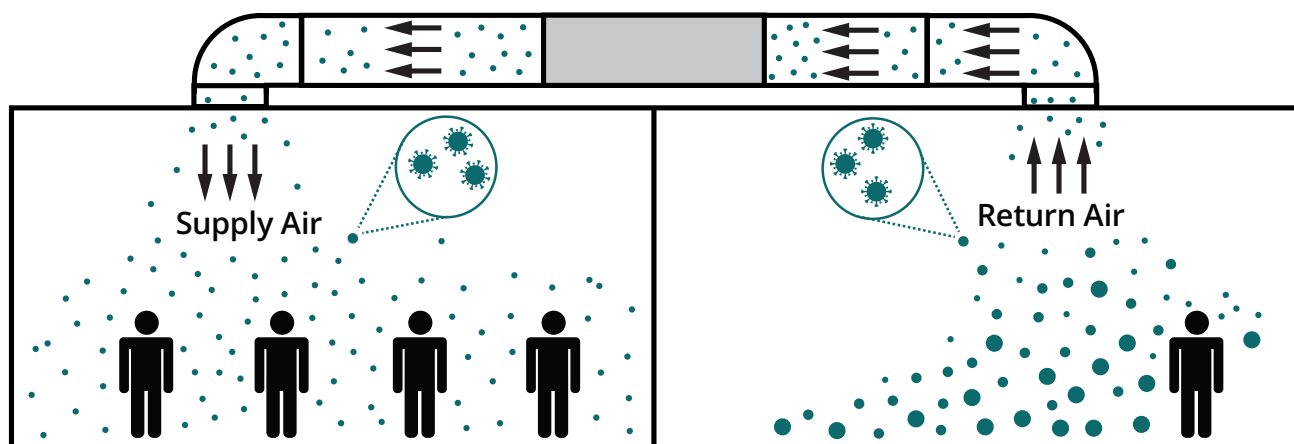
In the ever-evolving landscape of indoor comfort, the future beckons a new era in HVAC design. Reviveaire introduces the Airesshield when you prioritize health for the young, the middle-aged, and the elderly, and pathogen filters take center stage. Our cutting-edge solutions at Reviveaire redefine air quality and safety, seamlessly integrating advanced pathogen filtration

into residential and non-residential spaces.

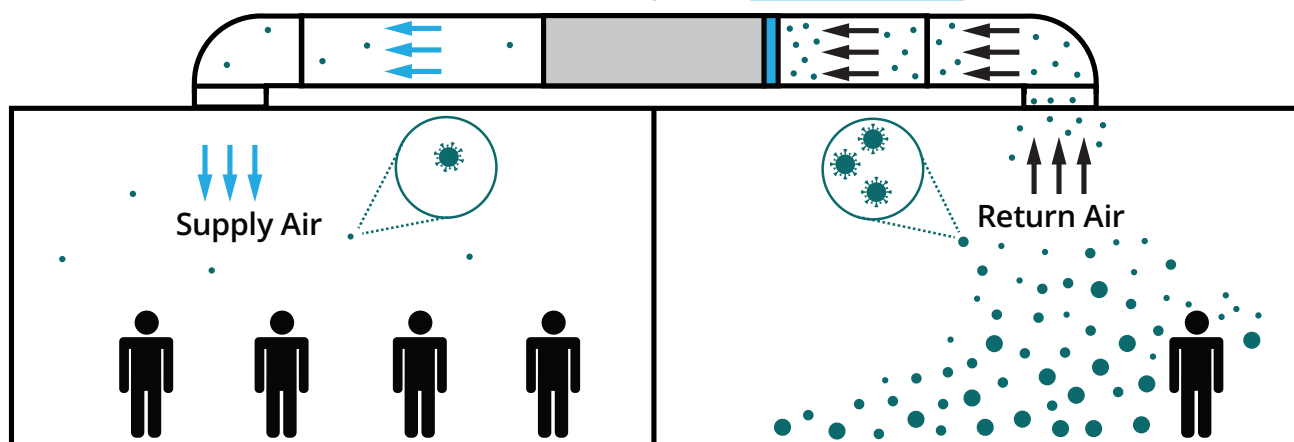
Guard your well-being with our revolutionary solutions, breaking the chain of airborne transmission. Breathe easy, and live healthier with Reviveaire's Airesshield.

“HVAC systems will increase the spread of aerosols within buildings without a pathogen mitigation strategy.”

Conventional HVAC System without Airesshield



Conventional HVAC System with Airesshield



“While HVAC systems and purified air cannot solve all aspects of infection control, they can be effective against the distribution and biological burden of infectious aerosols.” Excerpt: ASHARE position document on infectious aerosol - April 14, 2020

Improves existing MERV rating without static issues.



HOMES:

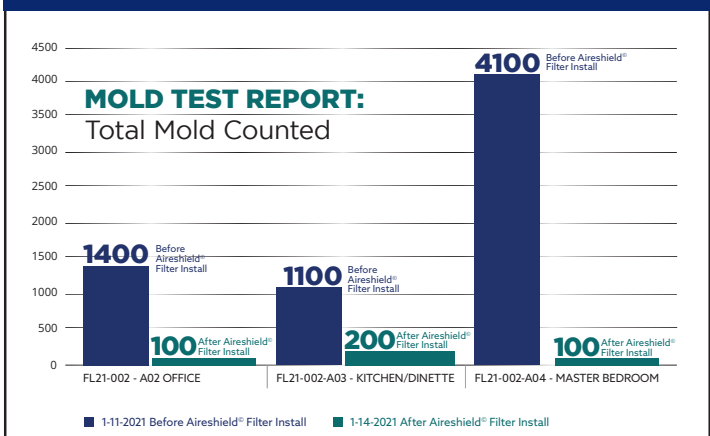
As we spend more time at home today, discover the critical link between code minimum ventilation rates in residential HVAC systems and the potential impact on occupants when a virus strikes. In a household where one person becomes infected, inadequate ventilation allows airborne pathogens to linger. This increases the risk of transmission, putting everyone at greater vulnerability.

Step into the unseen world within your home, where indoor air transforms into a biodome of life. Teeming with complex organisms and sub-micron particles, it's a microscopic ecosystem. Unveil the mystery and take control of your indoor environment with Reviveaire. Our solutions empower you to breathe cleaner, healthier air inside your home—where every particle matters and your well-being takes center stage.

Elevate your home environment with enhanced filtration solutions, mitigating the impact of viruses and fostering a healthier, safer living space for all.

“There are 16 kinds of bacteria, fungi and mold, in all household environments.”

PRIVATE RESIDENCE AIR TESTING BEFORE & AFTER.



Third party test ACM engineering & environmental services.

Protect the ones you love with Airshield.

OFFICES:

Embark on a journey through the hidden microcosm within your office space, where indoor air evolves into a biodome of intricate organisms and sub-micron particles. Our workplaces host a thriving ecosystem, often unnoticed.

Worker absenteeism in the United States alone caused by workplace infections due to poor pathogen mitigation strategies costs the US economy billions of dollars.

Discover a new era of clean and invigorating indoor air with Reviveaire Aireshield Technology. We provide the tools to navigate this unseen terrain, ensuring a



healthier, more productive office environment—where every breath supports your well-being and performance.

“Absenteeism and reduced productivity impact the USA economy by billions of dollars.”



Increase employee moral by showing you care.

HOSPITALS:


Amid the pursuit of healing, medical spaces host a hidden world. Step into the delicate ecosystem thriving in every corner of your hospital. Medical facilities are exposed to an extremely high impact of airborne pathogens. Uncover the power to safeguard against unseen threats with Reviveaire's Airoshield. Elevate patient care and staff well-being by creating a disinfected environment that champions health, one breath

at a time. Your hospital or medical facility is fortified against these threats with our cutting-edge solutions.

Infectious risk management strategies require the following trifecta:

- **Ventilation strategy**
- **Consistent surface disinfection strategy**
- **Pathogen filtration strategy**

While all three are important, pathogen control is your only line of defense of what gets into the air and stays in the air. Airborne pathogen disinfection has the potential to lower nosocomial (hospital-acquired) infection rates significantly. While specific statistics can vary based on factors such as the type of pathogens, the efficiency of filtration systems, and overall hospital hygiene practices, several studies support the efficacy of air quality interventions in healthcare settings.

- 
- **All Strains of Influenza**
 - **Avian Bird Flu**
 - **Pulmonary Tuberculosis**
 - **Bacillus Pneumonia**
 - **Chicken/Monkey Pox**
 - **Measles**
 - **Rubella**
 - **Mumps**
 - **Hand Foot Mouth Disease**
 - **Norwalk Legionella Pneumonia**
 - **Drug Resistant Bacteria**
 - **Mold**
 - **Fungus**
 - **COVID-19**

The Airoshield kills 99.9% of live SARS virus.



▪ **Reduced Airborne Pathogens:**

High-efficiency designs can effectively capture and eliminate airborne pathogens, reducing the risk of transmission within hospital environments. These technologies can be designed for common area air movement, operating rooms, as well as critical applications like negative and positive pressure confinement rooms, where localized airborne disinfection is required.

▪ **Lower Respiratory Infections:**

Air disinfection coupled with proper ventilation has been associated with decreased respiratory infections, a common source of nosocomial infections.

▪ **Positive Impact on Patient**

Outcomes: Improved air quality may contribute to better patient outcomes, shorter hospital stays, and decreased postoperative complications.

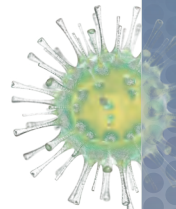
▪ **Studies on Air Disinfection:**

Research studies have demonstrated a reduction in airborne microbial contamination and associated infection rates.

While exact statistics can vary, the implementation of comprehensive air quality measures aligns with the broader goal of enhancing patient and medical staff safety in healthcare facilities. Hospitals must adopt a multi-faceted approach, combining airborne pathogen disinfection and strict hygiene protocols to create an environment that minimizes the risk of nosocomial infections.

“As long as one person is infected in a confined space, more than half of the people or things in the room will be covered with viruses after 4 hours.”

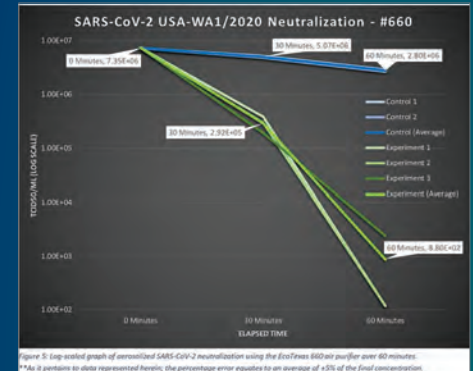
Research Group from Kelly Reynolds, Assistant Professor, School of Public Health, University of Arizona, USA



Third-Party Lab Tested Health Benefits

LIVE VIRUS TESTED

Innovative Bioanalysis, third party tested SARS-CoV-2, resulting in 99.97% after 60 minutes as well as Omicron. (See results in chart below)



VIRUS TESTED

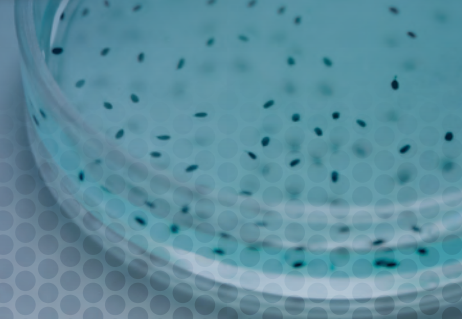
Phi-X174, a surrogate for SARS-CoV-2/coronaviruses, achieved a kill rate of 99.7% after 60 minutes in the test chamber.

BACTERIA TESTED

S. Epidermidis kill rate of 97.7% after only 2 hours in the test chamber.

MOLD TESTED

An overall average reduction rate of 97% achieved after only 15 hours when testing for Basidiospores, Aspergillus, Penicillium, Ascospores and Bipolaris.



The Sustainable Solution

The Airoshield, a plasmic-based disinfection system, can eliminate these harmful airborne pathogens (including submicron particulates) using a multi-patented confided field plasmic disinfection technology.

PRODUCT FEATURES

The air disinfection process is highly efficient providing little to insignificant air pressure drop in contrast to standard air filters.

- Any building, any size unit!
- Eco-friendly and energy-efficient
- Quiet operation: With no moving parts and ultra-low static pressure drop, the Airoshield features a low noise of a max of 25 decibels.
- Improves existing MERV rating without static issues

- Adaptability is easy, the Airoshield is designed for new construction or retrofit applications, and the Airoshield can be installed into any forced air HVAC system.

- Helps to comply with new disinfection standards.
- Filter installation is Multi-Orientation: Can be installed Vertically, Horizontally, or angled.

INSTALLATION AND MAINTENANCE

The Airoshield disinfection device does not require any consumables or replacement parts. It offers service technicians the piece of mind of not handling contaminated materials.

Maintenance is easy; simply brush pins (with supplied tool) twice a year!

POWER REQUIREMENTS

The Airoshield is designed with universal inlet power: adaptable between 120 – 220 volts.

The Airoshield can be powered by the new or existing air handler power supply. Alternatively, the Airoshield can be connected to any 120v service outlet, and uses a maximum of 15 watts.



**A simple new clean air solution.
Slides into existing air filter rack(s)
with a two wire connection.**

**The Airoshield has multiple
installation configurations.**

TYPICAL STATIC PRESSURE DROP

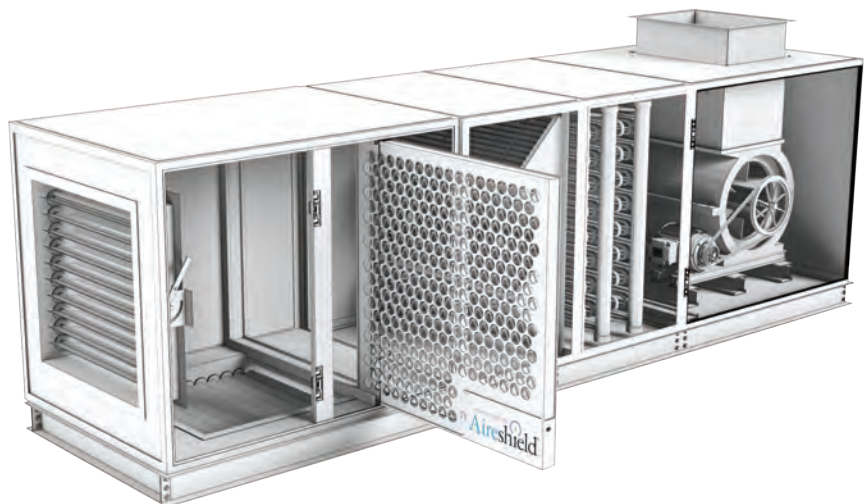
100 FPM - 0.005" w.g.

200 FPM - 0.021" w.g.

300 FPM - 0.049" w.g.

400 FPM - 0.087" w.g.

500 FPM - 0.138" w.g.



Eco-friendly, energy efficient, Easy to use.

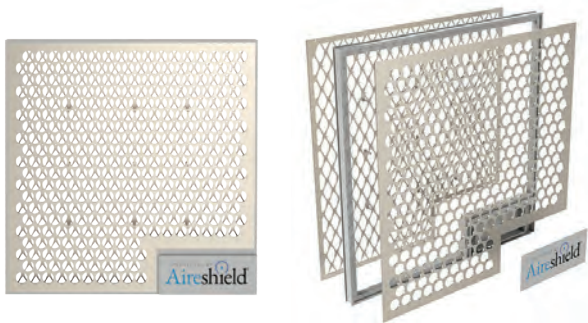
For Airborne Pathogens



SUSTAINABILITY

The Airesshield low static pressure design offers a lower electrical power draw. Which save you electrical costs.

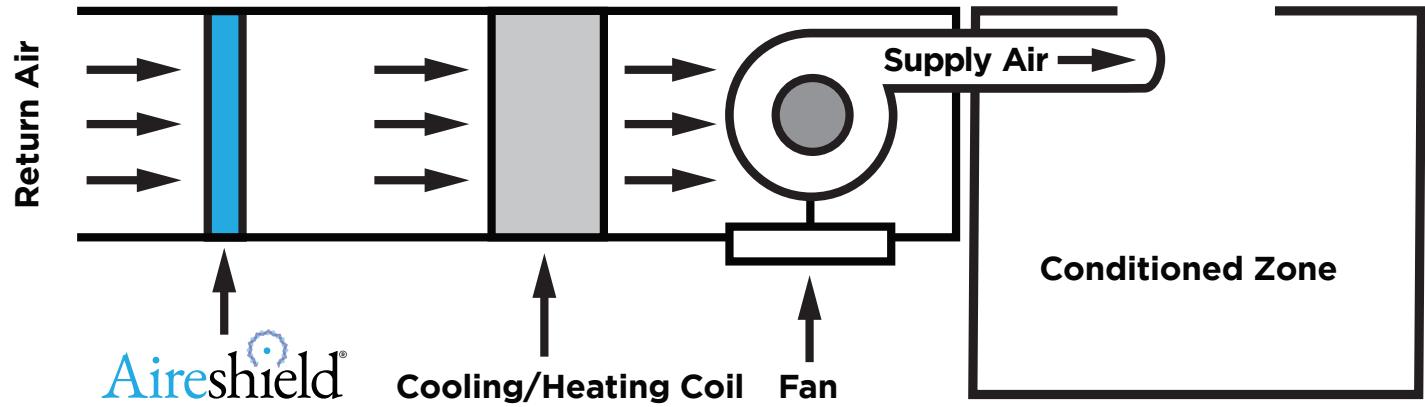
The Airesshield does not require any consumables, which means lower operating costs and no land fill. No handling of contaminated filters.



MODEL #	NOMINAL SIZES*
AS-1224-1	12" x 24" x 1"
AS-1625-1	16" x 25" x 1"
AS-2020-1	20" x 20" x 1"
AS-2025-1	20" x 25" x 1"
AS-2424-1	24" x 24" x 1"

The Airesshield is available in both standard and custom filter sizes.

* Nominal sizes in inches (WxHxD). Actual dimensions are 1/8" smaller than nominal dimensions



Airesshield: The most sustainable solution.

PUBLIC SPACES:

Enter the dynamic microcosm thriving within public spaces—auditoriums, airports, subways, retail stores, daycare centers, senior living, and elevators are transient spaces where people move through and deposit their bio-prints. These spaces become just as complex as hospitals due to the sheer volume of people moving in and out of these spaces.

In these bustling environments, the need for pathogen filtration is paramount. Elevate your space with Reviveaire's Aireshield technologies, and align with ASHRAE Standard 241 to reduce infectious risks. Our cutting-edge solutions redefine clean air, ensuring every breath in these close proximity settings is a breath of safety and well-being for all.



OCCUPANT DENSITY RELATIVE TO OFFICES, ASHRAE 62.1 SPECIFICS

Auditorium:	30x
Places of worship	24x
Cafeterias/bars	20x
Transportation	20x

“Higher occupant density elevates the risk of infection, as close proximity facilitates the spread of airborne pathogens.”



Higher density equals higher Infection potential.

TEST RESULTS

LIVE SARS-COV-2 INNOVATIVE BIOANALYSIS

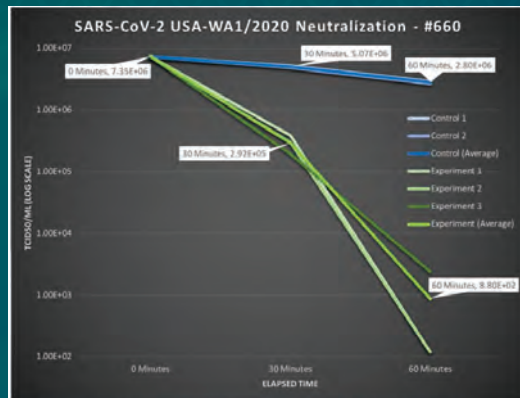

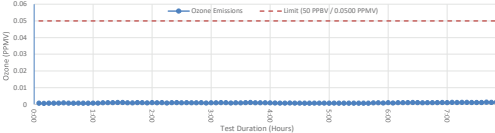


Figure 3: Log-scaled graph of aerosolized SARS-CoV-2 neutralization using the EcoLess 690 air purifier over 60 minutes. **As it pertains to data represented herein, the percentage error equates to an average of $\pm 5\%$ of the final concentration.

Live SARS-CoV-2, achieved a inactivity rate of 99.9% after 60 minutes in the test chamber.

OZONE REPORT INTERTEK/BLUE HEAVEN TECHNOLOGIES

		Test Report - Ozone Emissions - Low Flow Rate		TEST NO. 21-237-1A
2650 S English Avenue West, Louisville, KY 40229 Phone: (502) 651-0155		CSA Group - C22.2 No.187-20 - Section 7.5 Electrostatic In Duct Type Air Cleaners for Residential Use		page 1 of 1
Test Unit Discription	Customer: Intertek Manufacturer: ECH Model No.: ECH-438-2 Serial Number: CRY200312452-001		NOTES: Unit is an in-duct Electrostatic Air Sterilizer meant for operation inside HVAC ductwork. Run In Start: 4/23/2021 8:56 Run In End: 4/23/2021 8:56 30 Minutes	
	The unit was tested at two flow rates. Low: 375 CFM and High: 3150 CFM. This report details performance at low flow. The unit dimensions are 20" (W) x 25" (H) x 4" (D). 120 VAC power required.			
	Test Date: 4/23/2021 Start Time: 4/23/2021 8:43 End Time: 4/23/2021 16:43			
	Average 8-Hr Background Concentration: 0.00073 PPM		Maximum Allowed: PASS / FAIL	
	Average 8-Hr Downstream Concentration: 0.00167 PPM			
8-Hour Ozone Emissions Test Results	Average 8 Hour Time Weighted Average (TWA) Ozone Concentration: 0.000935 PPM		0.0500 PPM PASS	
	Maximum Ozone Reading over 8-Hour Testing: 0.001267 PPM		0.0500 PPM PASS	
8-Hour Ozone Concentration				
				
Test Equipment Information	Model Serial Number Range			
	Upstream Ozone Analyzer: 2B Technologies Model: 205		232208 0.0000 - 0.0090 PPMV	
	Downstream Ozone Analyzer: 2B Technologies Model: 206		233108 0.0000 - 0.1500 PPMV	
	Temperature: Dwyer RHP-2011-LCD		MS6791-423W-A -40 - 140 °F	
	Humidity: Dwyer RHP-2011-LCD		MS6791-423W-A 0 - 100% RH	
	Data Recorder: Yokogawa DX112-3-2/MJ1		12VB31078 NA	
	Wet Transducer: Ohio Semiconductors, Inc. ASH-0002		20001600 0-1000 Watts	
Test Conditions	Unit was tested in a complete ASHRAE 52.2 Test Duct. Flow Rate was maintained at 375 CFM over the 8-hour test period. Test unit was mounted in-line with a 24" x 24" duct in the correct orientation and sealed to be leak-free.			
	Average Test Flow Rate: 376.15 CFM			
	Average Test Temperature: 70.55 Deg F		Average Test Rel. Humidity: 44.46 %	
Requester Information	Test Requestor: Jacob Langerbacher		Phone: 607-758-0446	
	Company Name: Intertek		Email: jacob.langerbacher@intertek.com	
	Company Address: 3033 US Route 11, Corland, NY 13048		Date Requested: 4/20/2021	
Test Operator Information: Test Performed by: Glen Toloczko CAPS		Reviewed by: ES		Completion Date: 5/5/2021
CSA Group C22.2 No.187-20 - Electrostatic Air Cleaners - Section 7.5 Electrostatic In Duct Type Air Cleaners for Residential Use				

8-hour time-weighted average of Ozone: Concentration is at a fraction of the 5 PPB ozone limit, as set by national and international standards.

SARS SUROGATE INTERTEK REPORT

Test Parameter (With filter)		Test Result	Natural Decay Result	Units
Organism	Species	Coliphage ϕ X174		
	ATCC No.	13706-B1		
	Challenge Concentration	5.0 x 10 ⁹		
Samples	0	TNTC (2628)	TNTC (2628)	PFU/mL
	15	TNTC (2628)	TNTC (2628)	PFU
	30	TNTC (2628)	TNTC (2628)	PFU
	45	234	TNTC (2628)	PFU
	60	156	TNTC (2628)	PFU
	75	66	TNTC (2628)	PFU
	90	21	TNTC (2628)	PFU
	105	10	TNTC (2628)	PFU
	120	10	TNTC (2628)	PFU
Results		99.6%		Reduction

Phi-X174, a surrogate for SARS-CoV-2, achieved a inactivity rate of 99.7% after 60 minutes in the test chamber.

S. EPIDERMIDIS BACTERIA INTERTEK

Test Parameter (With filter)		Test Result	Natural Decay Result	Units
Organism	Species	S. Epidermidis		
	ATCC No.	12228		
	Challenge Concentration	8.8 x 10 ⁸		
Samples	0	TNTC (2628)	TNTC (2628)	CFU/mL
	15	TNTC (2628)	TNTC (2628)	CFU
	30	TNTC (2628)	TNTC (2628)	CFU
	45	218	TNTC (2628)	CFU
	60	177	TNTC (2628)	CFU
	75	111	TNTC (2628)	CFU
	90	108	TNTC (2628)	CFU
	105	76	TNTC (2628)	CFU
	120	59	TNTC (2628)	CFU
Results		97.7%		Reduction

BACTERIA TESTED - S. Epidermidis kill rate of 97.7% after only 2 hours in the test chamber.

H1N1

Test No. KY20200030

GUANG ZHOU INSTITUTE OF MICROBIOLOGY

TEST REPORT

Date Received: Feb. 11, 2020

Date Analyzed: Feb. 12, 2020

Test Method for Purification Effect of Airborne Virus Aerosols

1. Test Equipment
 - 1) Strain: *Influenza A virus A/PR8/34 H1N1*
 - 2) Cells: MDCK
2. Test Conditions
 - 1) Environment temperature: (23-25) °C
 - 2) Environment relative humidity: (50-60) %
 - 3) Test time: 60min
 - 4) The volume of the test chamber: 30 m³
 - 5) Machine setting: "The highest gear".

Test Results

Number of Sample	Virus	Test Number	Control Group			Test Group		
			0 min (TCID ₅₀ /m ³)	60 min (TCID ₅₀ /m ³)	Natural Decay Rate (%)	0 min (TCID ₅₀ /m ³)	60 min (TCID ₅₀ /m ³)	Purification Rate (%)
KY20200030-I	A/PR8/34 (H1N1)	1	5.06×10 ⁵	1.60×10 ⁵	68.38	5.06×10 ⁵	/	≥99.99
		2	7.48×10 ⁵	1.60×10 ⁵	78.61	7.48×10 ⁵	/	≥99.99
		3	1.60×10 ⁶	5.06×10 ⁵	68.38	7.48×10 ⁵	/	≥99.99

*** End of report***

H1N1 Disinfection: 99.99% reduction by Guangzhou Institute of Microbiology using a 1 hour chamber test.

Third Party Tested Health Benefits.



Reviveaire LLC
217 Market Street
Kenilworth, NJ 07033
(908) 987-7089



Learn more
info@reviveaire.com
www.reviveaire.com



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