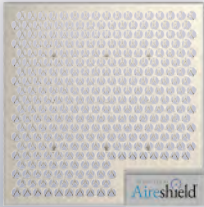




***A Clean Air Solution*** for single and multi family applications



**Plasmic-Based Air Disinfection**

PROTECTED BY  
**Aireshield**<sup>®</sup>

# TEST RESULTS

## LIVE SARS-COV-2 INNOVATIVE BIOANALYSIS

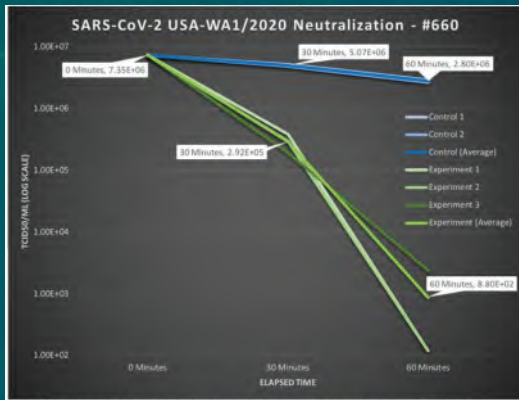


Figure 5: Log scaled graph of aerosolized SARS-CoV-2 neutralization using the EcoTeas 560 air purifier over 60 minutes. \*\*As it pertains to data represented herein, the percentage error equates to an average of 15% of the final concentration.

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

## OZONE REPORT INTERTEK/BLUE HEAVEN TECHNOLOGIES

Blue Heaven Technologies		Test Report - Ozone Emissions - Low Flow Rate		TEST NO. 21-237-1A
<p>2020 S. English Station Road - Louisville, KY 40299 Phone: (502) 359-6232</p> <p>Customer: Intertek            Manufacturer: ECH            Model No.: ECH-802-Z            Serial Number: C912103212452-001</p> <p>Run In Start: 4/23/2021 8:16            Run In End: 4/23/2021 8:36            Run Time: 30 Minutes</p> <p>Average 8-Hr Background Concentration: 0.00079 PPM            Average 8-Hr Downstream Concentration: 0.00187 PPM</p> <p>Average 8 Hour Time Weighted Average (TWA) Ozone Concentration: 0.000935 PPM            Maximum Ozone Reading over 8-Hour Testing: 0.001267 PPM</p> <p>8-Hour Ozone Emissions Test Results: 0.0500 PPM PASS</p> <p>8-Hour Ozone Concentration Graph: Shows Ozone Emissions (blue line) and Limit (50 PPBV / 0.0500 PPMV) (red dashed line) over a 24-hour period. Emissions remain consistently below the limit.</p> <p>Test Equipment Information:            Upstream Ozone Analyzer: 2B Technologies Model: 205            Downstream Ozone Analyzer: 2B Technologies Model: 206            Temperature: Dwyer RHP-2023-LCD            Humidity: Dwyer RHP-2013-LCD            Data Recorder: Yokogawa DX112-3-2/W1            Watt Transducer: Ohio Semiconductors, Inc. AGH-802E</p> <p>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: 375.15 CFM            Average Test Temperature: 70.55 Deg F            Average Test Rel. Humidity: 44.46 %</p> <p>Requester Information:            Test Requestor: Jacob Langenbacher            Company Name: Intertek            Company Address: 3535 US Route 11, Corland, NY 13045            Phone: 607-758-6446            Email: jacob.langenbacher@intertek.com</p> <p>Test Operator Information:            Test performed by: Glen Tobolski CAS            Reviewed by: ES            Completion Date: 5/5/2023</p>				

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	<i>Coliphage phiX174</i>	
	ATCC No.	13706-B1	
	Challenge Concentration	5.0 x 10 <sup>9</sup>	
Samples	0	TNTC (2628)	TNTC (2628) PFU
	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	<i>S. Epidermidis</i>	
	ATCC No.	12228	
	Challenge Concentration	8.8 x 10 <sup>8</sup>	
Samples	0	TNTC (2628)	TNTC (2628) CFU
	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																																				
<p>Test Method for Purification Effect of Airborne Virus Aerosols</p> <p>1. Test Equipment            1) Strain: Influenza A virus A/PR8/34 H1N1            2) Cells: MDCK</p> <p>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 m<sup>3</sup>            5) Machine setting: "The highest gear".</p>																																					
<p>Test Results</p> <table border="1"> <thead> <tr> <th rowspan="2">Number of Sample</th> <th rowspan="2">Virus</th> <th rowspan="2">Test Number</th> <th colspan="2">Control Group</th> <th colspan="2">Test Group</th> <th rowspan="2">Purification Rate (%)</th> </tr> <tr> <th>0 min (TCID<sub>50</sub> /m<sup>3</sup>)</th> <th>60 min (TCID<sub>50</sub> /m<sup>3</sup>)</th> <th>Natural Decay Rate (%)</th> <th>0 min (TCID<sub>50</sub> /m<sup>3</sup>)</th> <th>60 min (TCID<sub>50</sub> /m<sup>3</sup>)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">KY20200030-1</td> <td rowspan="3">A/PR8/34 (H1N1)</td> <td>1</td> <td>5.06 × 10<sup>5</sup></td> <td>1.60 × 10<sup>5</sup></td> <td>68.38</td> <td>5.06 × 10<sup>5</sup></td> <td>/</td> <td>≥99.99</td> </tr> <tr> <td>2</td> <td>7.48 × 10<sup>5</sup></td> <td>1.60 × 10<sup>5</sup></td> <td>78.61</td> <td>7.48 × 10<sup>5</sup></td> <td>/</td> <td>≥99.99</td> </tr> <tr> <td>3</td> <td>1.60 × 10<sup>6</sup></td> <td>5.06 × 10<sup>5</sup></td> <td>68.38</td> <td>7.48 × 10<sup>5</sup></td> <td>/</td> <td>≥99.99</td> </tr> </tbody> </table>		Number of Sample	Virus	Test Number	Control Group		Test Group		Purification Rate (%)	0 min (TCID <sub>50</sub> /m <sup>3</sup> )	60 min (TCID <sub>50</sub> /m <sup>3</sup> )	Natural Decay Rate (%)	0 min (TCID <sub>50</sub> /m <sup>3</sup> )	60 min (TCID <sub>50</sub> /m <sup>3</sup> )	KY20200030-1	A/PR8/34 (H1N1)	1	5.06 × 10 <sup>5</sup>	1.60 × 10 <sup>5</sup>	68.38	5.06 × 10 <sup>5</sup>	/	≥99.99	2	7.48 × 10 <sup>5</sup>	1.60 × 10 <sup>5</sup>	78.61	7.48 × 10 <sup>5</sup>	/	≥99.99	3	1.60 × 10 <sup>6</sup>	5.06 × 10 <sup>5</sup>	68.38	7.48 × 10 <sup>5</sup>	/	≥99.99
Number of Sample	Virus				Test Number	Control Group		Test Group		Purification Rate (%)																											
		0 min (TCID <sub>50</sub> /m <sup>3</sup> )	60 min (TCID <sub>50</sub> /m <sup>3</sup> )	Natural Decay Rate (%)		0 min (TCID <sub>50</sub> /m <sup>3</sup> )	60 min (TCID <sub>50</sub> /m <sup>3</sup> )																														
KY20200030-1	A/PR8/34 (H1N1)	1	5.06 × 10 <sup>5</sup>	1.60 × 10 <sup>5</sup>	68.38	5.06 × 10 <sup>5</sup>	/	≥99.99																													
		2	7.48 × 10 <sup>5</sup>	1.60 × 10 <sup>5</sup>	78.61	7.48 × 10 <sup>5</sup>	/	≥99.99																													
		3	1.60 × 10 <sup>6</sup>	5.06 × 10 <sup>5</sup>	68.38	7.48 × 10 <sup>5</sup>	/	≥99.99																													
*** End of report ***																																					

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

All sizes and types and types of homes.

**E**very 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 single and multifamily structures 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.

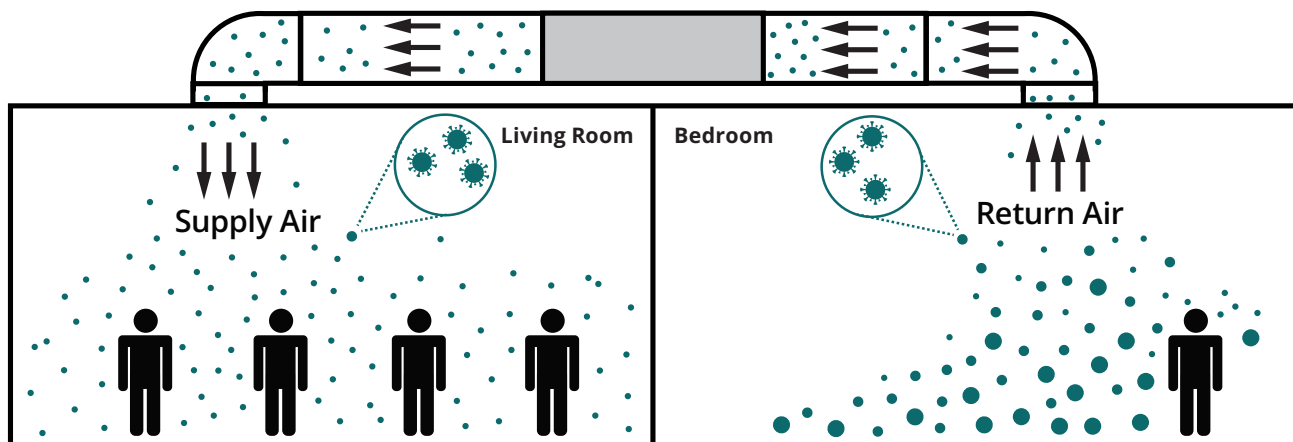
In the ever-evolving landscape of indoor comfort, the future beckons a new era in HVAC design. Reviveaire introduces the Aireshield when you prioritize health for the young, the middle-aged, and the elderly, and pathogen filters take center stage. Our cutting-edge solutions at Reviveaire redefine air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

advanced pathogen filtration into residential and spaces.

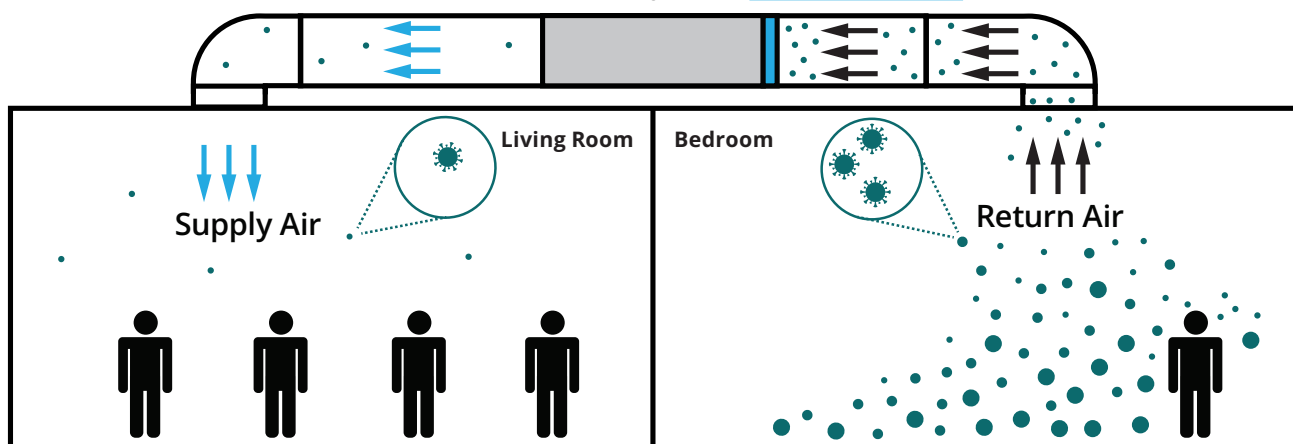
Guard your well-being with our revolutionary solutions, breaking the chain of airborne transmission. Breathe easy, and live healthier with Reviveaire's Aireshield.

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

**Conventional HVAC System without Aireshield**



**Conventional HVAC System with Aireshield**



**“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 MERV filter rating to higher efficiencies.**



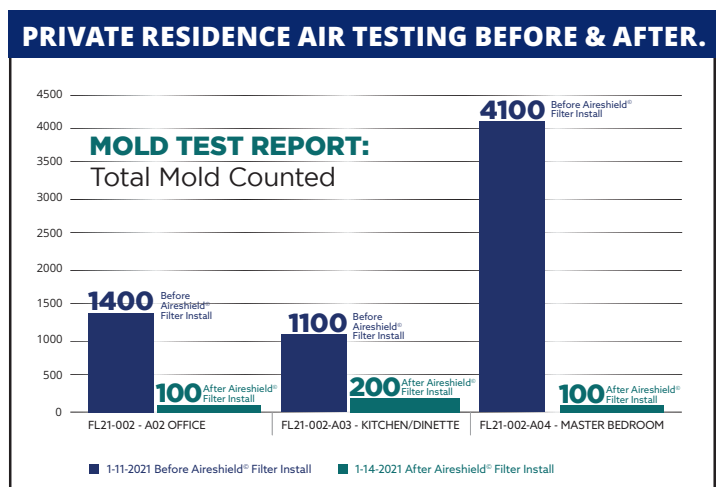
## HOMES:

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.”**



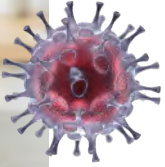
Third party tested by ACM engineering & environmental services.

***Protect the ones you love with Airesield.***

## HOME OFFICES:

Today's working paradigm has introduced work at home or hybrid scenarios. Residential HVAC designs are configured to peak in the morning and peak in the evening as occupants utilize the space during those times. With the advent of work from home options internal contamination caused by occupants is peaking all day long, not allowing HVAC systems to lower contaminates steady state concentrations by flushing the spaces during unoccupied times.

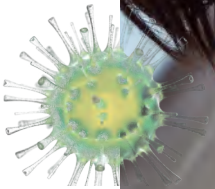
Embark on a journey through the hidden microcosm within your home office space, where indoor air evolves into a biodome of intricate organisms and sub-



micron particles. These spaces host a thriving ecosystem, often unnoticed.

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 home office environment—where every breath supports your well-being families.



***Third Party Tested Health Benefits.***

# The Sustainable Solution For Airborne Pathogens

## PRODUCT FEATURES

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

- Eco-friendly and energy-efficient
- Quiet operation: With no moving parts and ultra-low static pressure drop, the Airesshield features a low noise of a max of 25 decibels.
- Adaptability is easy, the Airesshield is designed for new construction or retrofit applications, and the Airesshield can be installed into any forced air HVAC system.
- Helps to comply with new disinfection standards, such as ASHRAE 241.
- Filter installation is multi-orientation: Can be installed vertically, horizontally, or angled.

## INSTALLATION AND MAINTENANCE

The Airesshield disinfection device does not require any consumables or replacement parts. It offers service technicians the piece of mind of not handling contaminated materials. A simple new clean air solution which slides into existing air filter rack(s).

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

## POWER REQUIREMENTS

The Airesshield is designed with universal inlet power: adaptable between 120 – 220 volts with a two wire connection.

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

## SUSTAINABILITY

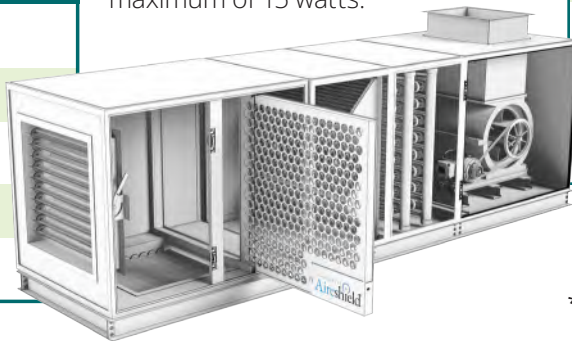
The Airesshield low static pressure design offers a lower electrical power draw, which save you electrical costs.

The Airesshield does not require any consumables, which means lower operating costs and no contaminated filters ending up in land fills..



### 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.



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"

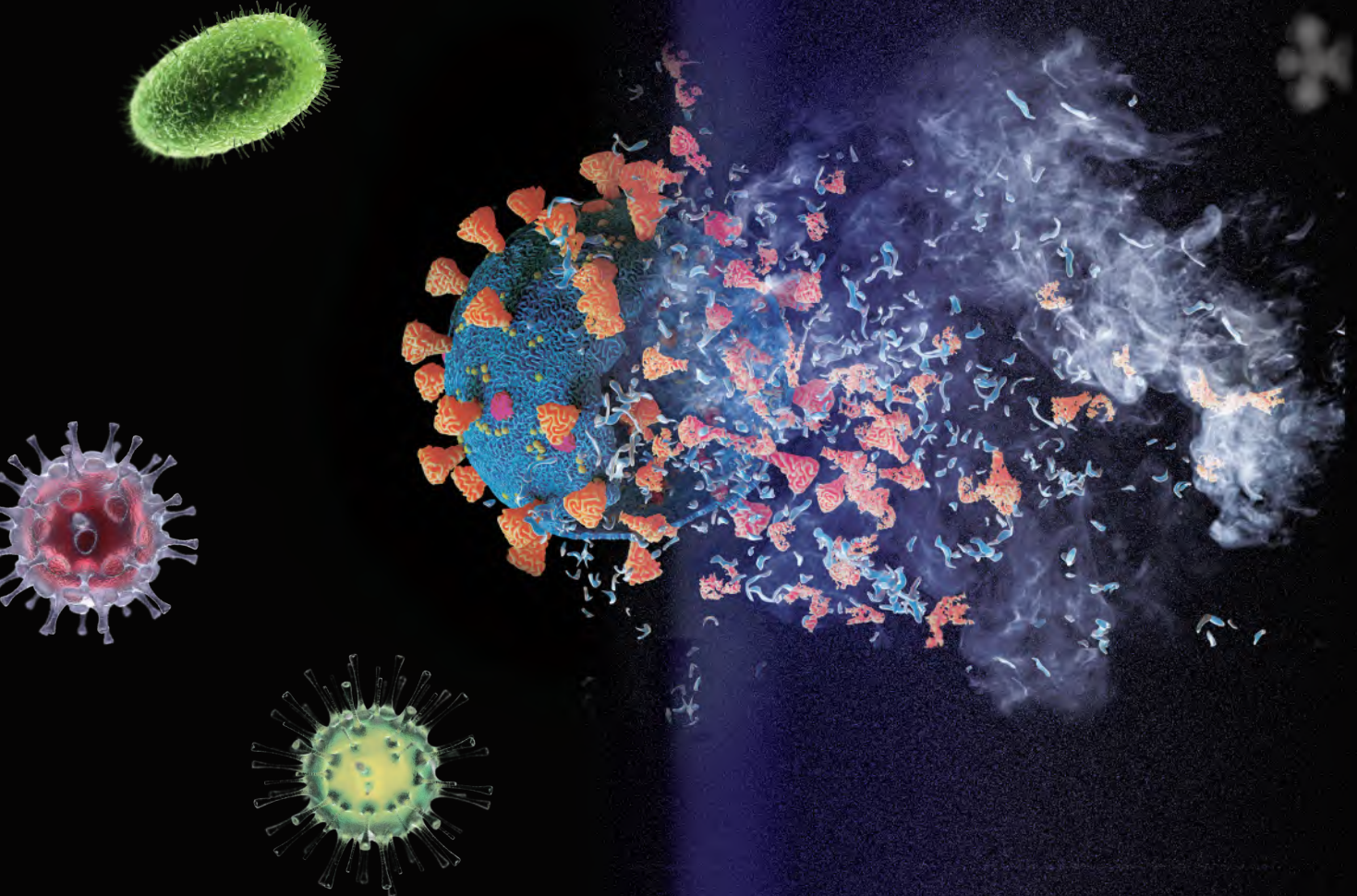
The Airesshield is available in both standard and custom filter sizes.

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

*Eco-friendly, energy efficient, Easy to use.*

# Plasmic-Based Air Disinfection

---



**99.97%** Live SARs test, performed  
by Innovative Bio-analysis

**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!**



HARDI



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



*Learn more*

[info@reviveaire.com](mailto:info@reviveaire.com)  
[www.reviveaire.com](http://www.reviveaire.com)



001 12-19-23