



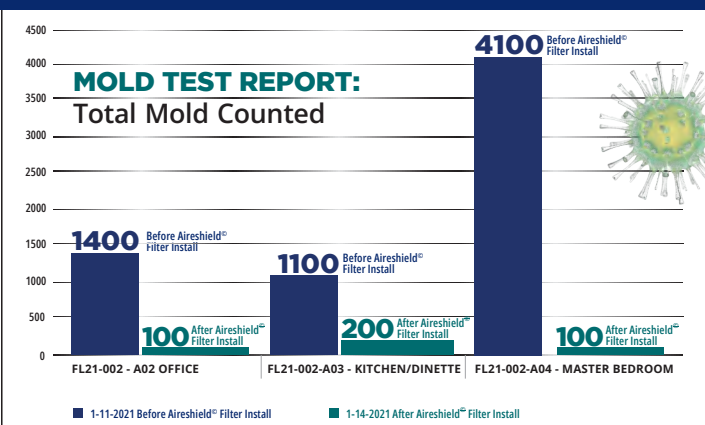
## HOMES:

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 or general IAQ and sub-micron particle control. In a household where one person becomes infected, or code mandated minimum, 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 bio dome 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.

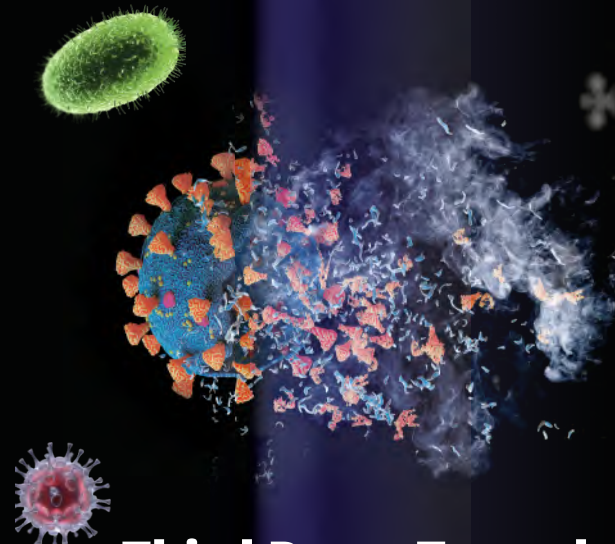
Elevate your home environment with enhanced filtration solutions, mitigating the impact of viruses and fostering a healthier, safer living space for all.

### PRIVATE RESIDENCE AIR TESTING BEFORE & AFTER.



Third party tested by ACM engineering & environmental services.

# Plasmic-Powered Air Disinfection



## Third Party Tested, Certified and Verified

**97.2 %** ASHRAE 241 corrected MS-2 efficiency at 60 minutes

**0 %** No ozone generation over a 24-hour period.

**99.99 %** H1N1 aerosol killing rate Laboratory test

**98.05 %** Natural bacteria in the air killing rate field test

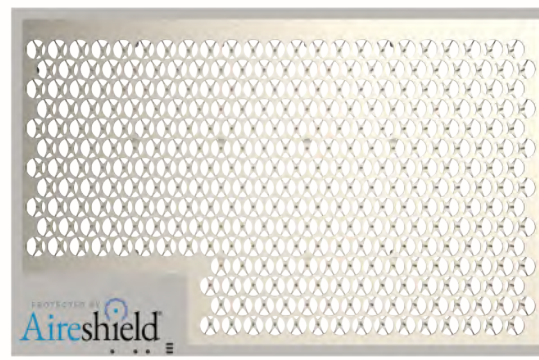
**99.98 %** Staphylococcus albus killing rate Laboratory test

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



**Learn more**  
Watch our YouTube Promo Video

## Safeguard your family with decade long protection.



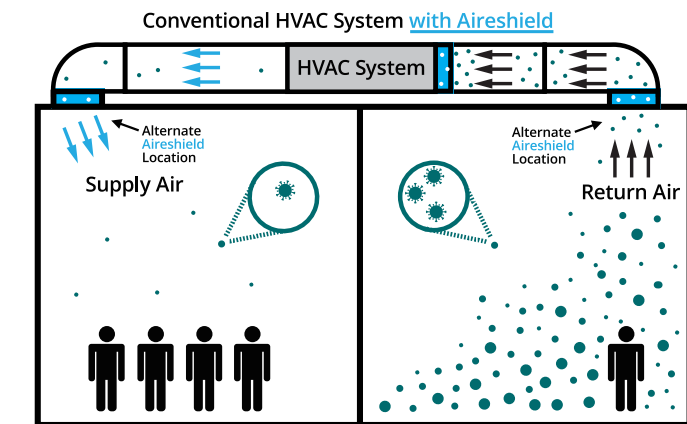
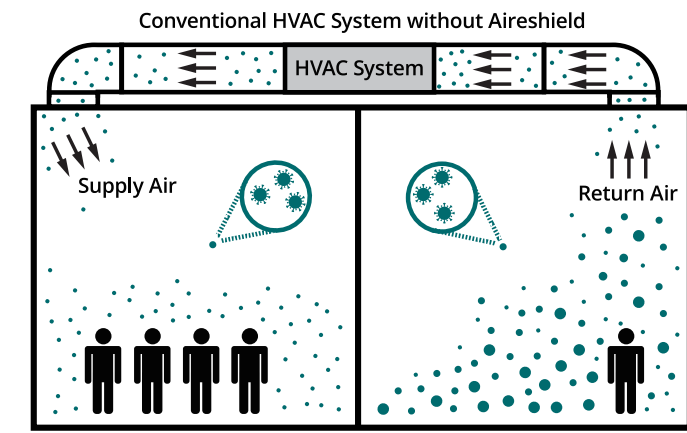
**LEARN MORE** [info@reviveaire.com](mailto:info@reviveaire.com)  
[www.reviveaire.com](http://www.reviveaire.com)

**A**s buildings become increasingly airtight and energy-efficient, the risk of indoor air pollution rises. Despite standard ventilation and air filtration, indoor contaminants accumulate, posing health risks to occupants due to pathogens.

In the ever-evolving landscape of indoor air quality, Reviveaire introduces Aireshield, our state-of-the-art HVAC filtration solution. It interrupts the chain of airborne transmission between individuals, promoting healthier breathing.

Our groundbreaking technology also enhances particulate filtration by harnessing electrostatic forces within the plasma field. This process aggregates particles, improving the effectiveness of existing post-filters. For instance, a MERV8 filter could effectively perform at a MERV13 level due to this effect.

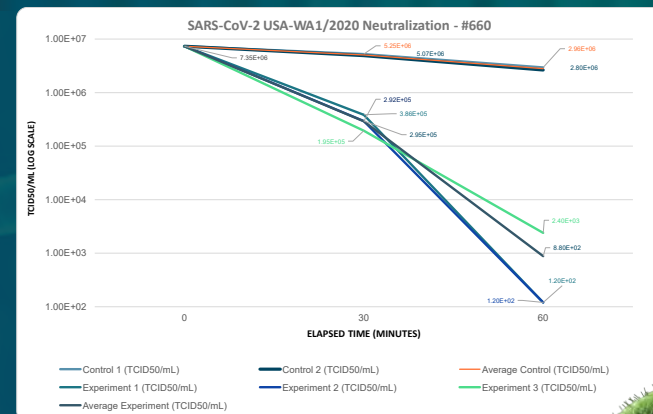
Aireshield seamlessly integrates advanced pathogen filtration into both residential and commercial HVAC systems. Its efficacy has been independently certified through rigorous third-party testing.



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

## TEST RESULTS

### INNOVATION BIOANALYSIS SARS-COV-2



Innovative Bioanalysis, third party tested SARS-CoV-2, resulting in 99.97% after 60 minutes as well as Omicron.

### SARS SURROGATE INTERTEK REPORT

TEST PARAMETER (W FILTER)	TEST RESULT	NATURAL DECAY RESULT	UNITS
ORGANISM	SPECIES	COLIPHAGE $\phi$ X174	---
	ATCC N.	13706-B1	---
	CHALLENGE CONCENTRATION	$5.0 \times 10^8$	PFU/mL
SAMPLES	0	TNTC (2628)	PFU
	15	TNTC (2628)	PFU
	30	TNTC (2628)	PFU
	45	234	PFU
	60	156	PFU
	75	66	PFU
	90	21	PFU
	105	10	PFU
120	10	PFU	
RESULTS	---	99.6%	---

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

### S. EPIDERMIDIS BACTERIA INTERTEK

TEST PARAMETER (W FILTER)	TEST RESULT	NATURAL DECAY RESULT	UNITS
ORGANISM	SPECIES	S. Epidermidis	---
	ATCC N.	1228	---
	CHALLENGE CONCENTRATION	$8.8 \times 10^8$	CFU/mL
SAMPLE	50	TNTC 2628	CFU
	15	TNTC 2628	CFU
	30	TNTC 2628	CFU
	45	218	CFU
	60	177	CFU
	75	111	CFU
	90	108	CFU
	105	76	CFU
120	59	CFU	
RESULTS	---	97.7%	---

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

# The Sustainable Solution For Airborne Pathogens

## SUSTAINABILITY

The Airoshield low static pressure design offers a lower electrical power draw, saving electricity costs.

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

## INSTALLATION AND MAINTENANCE

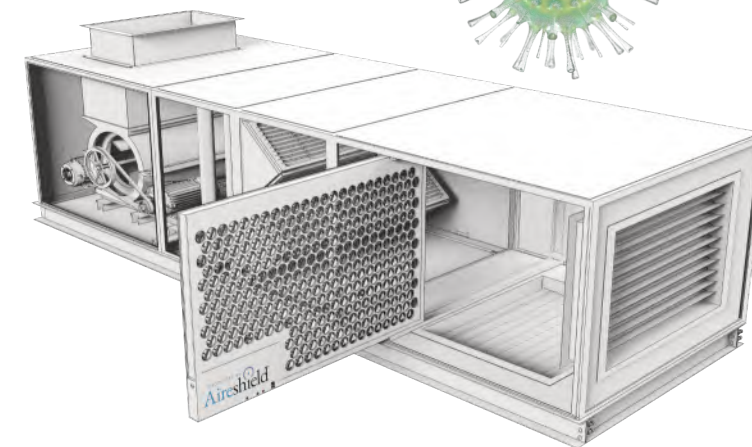
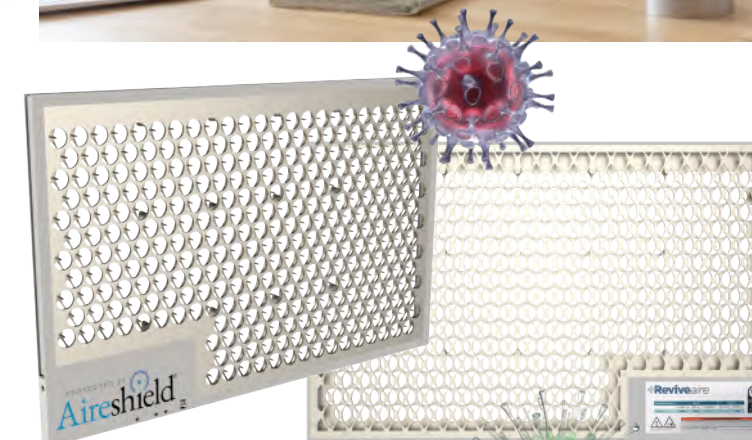
To wash a cleanable Non-Thermal Plasma Device (NTPD) device with water, begin by removing the device from its housing, disconnecting the power box, and inspecting it for any visible dirt or debris. Position the NTPD device on a stable surface outdoors or in a large sink and gently spray it with water, starting from the clean side and working our way to the dirty side to push contaminants out. Maintenance is easy; simply brush pins (with supplied tool) twice a year!

Regular maintenance like this ensures optimal air quality and efficient performance of your NTPD device system.

## POWER REQUIREMENTS

The Airoshield is designed with universal inlet power: adaptable between 120 – 220 volts, 50/60 Hz.

The new or existing air handler power supply can power the Airoshield. Alternatively, the Airoshield can be connected to any 120v service outlet, and uses a maximum of 12 watts.



TYPICAL STATIC PRESSURE DROP
100 FPM - 0.009" w.g.
200 FPM - 0.037" w.g.
300 FPM - 0.083" w.g.
400 FPM - 0.146" w.g.
500 FPM - 0.227" 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"

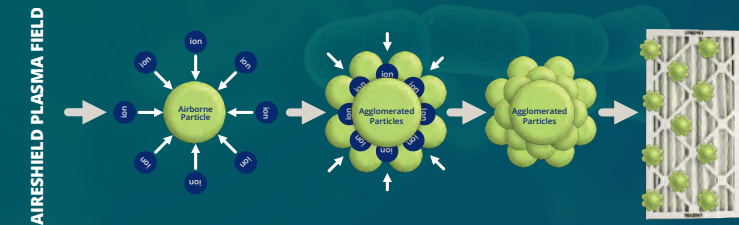
The Airoshield is available in both standard and custom filter sizes.

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



## AGGLOMERATED BY CHARGED ATTRACTION:

CHARGED ATOMS OR MOLECULES ONCE THE IONS ATTACH TO THE PARTICLE, THE PARTICLE GROWS LARGER BY ATTRACTING NEARBY PARTICLES OF THE OPPOSITE POLARITY, THEREBY INCREASING THE FILTRATION EFFECTIVENESS. CHARGED ATOMS OR MOLECULES



## BIOFILM EFFECTS ON COOLING COILS:



FIG 1.



FIG 2.

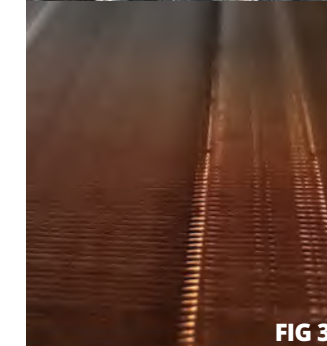


FIG 3.

FIG 1: The presence of biofilms on the cooling coils of commercial air conditioning (AC) units [FIG 1] can significantly reduce the heat transfer efficiency of the coils and may lead to the aerosolization of microbes into occupied spaces of a building.

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SOURCE: HVAC Insider Jan 2020. <https://hvacinsider.com/new-cooling-coil-restoration-process-delivers-measurable-savings/>

FIG 2 & 3: to the left is a residential test install. The Airoshield filter was left (neglected) for two years without filter service. Notice the extreme amount of buildup on the center photo [FIG 2]. What was observed was, the coils preceding this filter where extremely clean [FIG 3], without a post filter.

PHOTO SOURCE: Ellison Rd., Watchung NJ test install.

Third party tested for efficacy and safety.

Safeguarding your family's health effortlessly.

Ancillary benefits.

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