

StrionAir System A150

Germicidal Air Filtration



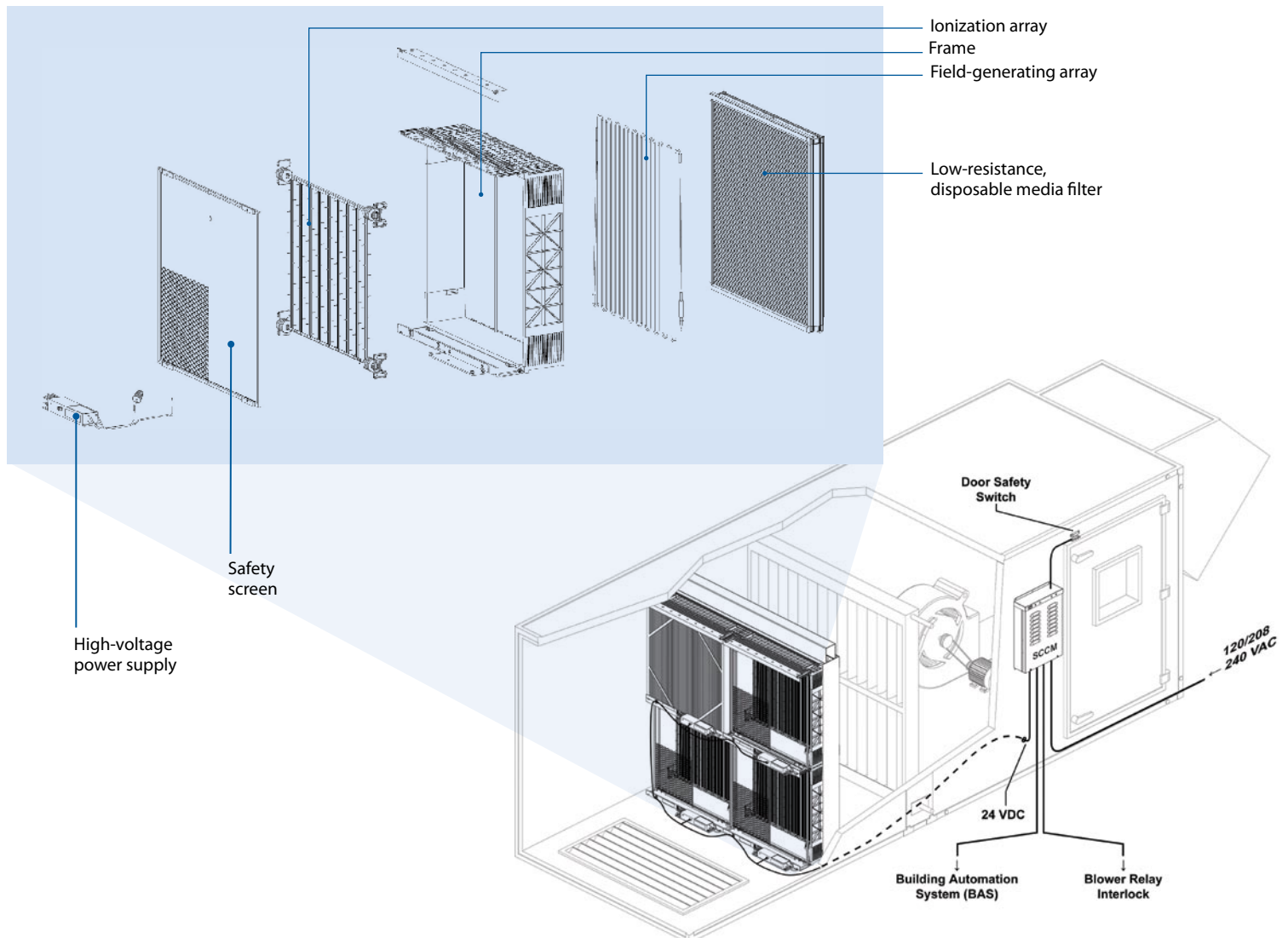
At a glance

- Easily fits into practically any facility — new or retrofit installations
- Captures and kills airborne pathogens effectively
- Protects against SARS, avian flu, anthrax, tuberculosis, smallpox, and more

StrionAir Systems economically provide a safer and cleaner environment for people, processes, and equipment. The StrionAir System A150 leads the air filtration industry with the only air filtration system proven to capture and kill airborne pathogens. The A150 delivers MERV 15 efficiency at the lowest pressure drop in the industry.

System components

The flexible StrionAir System consists of one or more Filter Enhancement Modules, each with a disposable filter. The filter enhancement module is composed of an upstream field electrode, an ionization array, a prefilter mounting channel, and a high-voltage power supply. A power supply is remotely mounted, external to the air handler, and supplies low-voltage power to up to 16 individual modules.



Broadly effective against mold, viruses, and bacteria

The StrionAir System addresses many critical indoor air quality challenges and delivers the highest filtration efficiency available. As proven by independent third parties, the StrionAir System not only captures, but also actively kills virtually all airborne pathogens that can lead to respiratory illness, providing a safer and healthier indoor environment.

Type of Organism	Organism	Testing Lab	Inactivation Effects
Bacteria: Spore Forming	Bacillus subtilis Anthrax surrogate)	U. of Colorado	97% in 24 hours
Bacteria: Gram Positive	Mycobacterium parafortuitum (Tuberculosis surrogate)	U. of Colorado	99.9% in 24 hours
	Staphylococcus aureus	LMS Technologies	97.5% at 6 and 100% at 12 hours
Bacteria: Gram Negative	Serratia marcescens	U. of Colorado LMS Technologies	99.90% 96.6% within one hour and 100% at 6 hours
	Pseudomonas aeruginosa	U. of Colorado	99.9% in 24 hours
Fungi	Aspergillus versicolor	U. of Colorado	99% in 24 hours
Virus	Morbivirus (measles)	U. of Colorado	99.9% after 45 minutes
	Vaccinia (Smallpox surrogate)	Southwest Foundation for Biomedical Research U. of Colorado	94.8% after 2 hours; 96.9% after 12 hours. 99.9% after 18 hours
	SARS	Southwest Foundation for Biomedical Research	96% after 1 hour and below; detectable limits after 2 hours
	Influenza Wild Type A	U. of Colorado/CDC	99% after 50 minutes
	Human Influenza (Wild)	U. of Colorado/CDC/ U. of Georgia	99% after 100 minutes
	Avian Influenza (Wild)	U. of Colorado/CDC/ U. of Georgia	99.9% after 300 minutes
	Encephalomyocarditis picornaviridae (Human cold virus surrogate)	U. of Colorado/CDC	99.99% after 6 hours
Endotoxin	Serratia marcescens	U. of Colorado	84% after 24 hours
	Escherichia Coli	U. of Colorado	46% after 24 hours

System Specifications

Filtration efficiency	MERV 15; up to 95% particle removal efficiency
Pressure drop	0.425" water gauge
Air flow (max)	500 FPM
Dimensions	24" x 24" per position, 15" depth; recommended 20" clearance front and rear
Weight	15 pounds per position
Power supply	120 / 240 single phase; single 20-amp lighting circuit can service up to 16 positions
Power consumption	45 watts per position
Prefiltering	Recommended, appropriate to installation. Filter selection at customer discretion.
Filter replacement	As determined by filter loading / pressure drop; typically 12-18 months
BAS integration	Dry contact set to communicate system fault
Safety interlocks	Blower contacts prevent system operation when blower off; AHU door-open switch disables system when AHU being accessed

Tested by leading independent laboratories

Centers for Disease Control and Prevention



LMS Technologies, Inc.
Independent Laboratory



Southwest Foundation for Biomedical Research



RTI International
Independent laboratory



University of Colorado at Boulder
Civil, Environmental and Architectural Engineering



StrionAir, Inc.
410 South Arthur Avenue
Louisville, Colorado 80027
303.664.1140
866.840.5872 (toll free)
Fax: 303.664.1210

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