ACS-T8

The Only Complete Air Purification System Specifically Made for Custom and Semi-Custom Air Handling Units

At the heart of every SecureAire Air Purification System is SecureAire's ACTIVE Particle Control (APC), a revolutionary breakthrough in air purification technology. With this system, every aspect of indoor air pollution is addressed: removing airborne particulates, dangerous pathogens, and toxic VOCs (volatile organic compounds).

ACTIVE Particle Control Technology is based on the same particlecontrol technology used in semiconductor manufacturing clean rooms, some of the most rigorously clean environments on the planet. APC has also been deployed in hospital operating rooms, greatly reducing infection rates. Now, this same advanced air purification technology is providing everyone with the safest, healthiest, and cleanest indoor air possible.

Research has shown that some of the smallest airborne particles can also be the most harmful. Viruses, bacteria, and VOCs are on that list. Yet the smallest particles are also the least susceptible to airflow and, due to electro-static forces remain suspended in the air, nearly unaffected by air currents.

SecureAire's ACTIVE Particle Control technology conditions the smallest particles to attract to each other forming ever-larger clusters that can then be brought to the filter by air currents. Once these airborne contaminants are attracted to the filter, they are held there and can't escape. The charged media within the filtration cartridge creates oxidative cellular stress on any pathogens, killing them, and rendering them harmless.

The ACS-T8 Air Purification System consists of the ACTIVE Particle Control System and a replaceable SecureAire filter cartridge. This complete Air Purification system can be adapted to multiple AHU configurations and does not inhibit air flow through the system with excessive pressure drop characteristics and can handle up to 600 feet per minute air velocities.

Learn more at rzero.com

The 4-Step ACTIVE Particle Control Process never stops.

Step 1: Condition

Condition particles with both positive and negative polarities
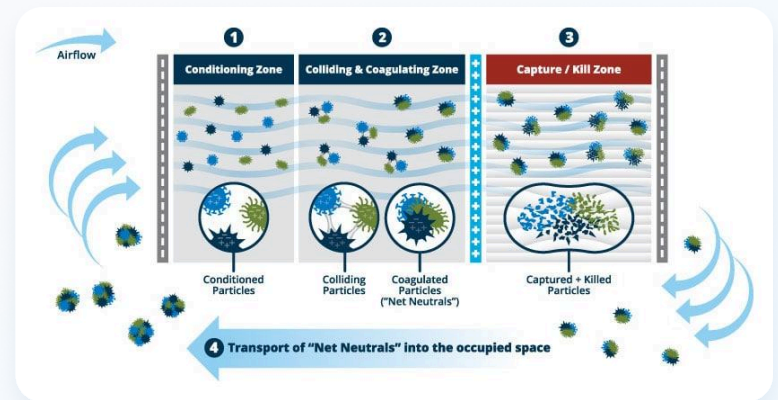
Step 2: Collision

Particle conditioning causes colliding and coagulation of particles and the formation of "net neutrals"

Step 3: Capture and Inactivate

Anything captured within the SecureAire Filter Matrix is inactivated

Step 4: Transport

Net neutrals arriving within the indoor environment control the "transport" of small particles so they are more easily captured

System Specifications

Standard Filter Sizes (Width/Height)	24"x24", 24"x12", 12"x24", special sizes avaialbe upon request
Filtration Efficiency Rating	MERV 15 or MERV 16 per ASHRAE 52.2 Standard Test
Power Supply/Power Consumption	5 watts per filter position; 120/240 Single Phase VAC
Clean Pressure Drop	< 0.26 or 0.42" WG at 500 fpm
Safety Current Protection	SB 0.5 A/250V fuses
Electrical Safety Ratings	UL 867: 2011 R8.13, CSA C22.2 NO. 187-09, and UL 2998
Humidity Range	< 95% Non-Condensing RH
Overall System Depth	9.56" in airway length without pre-filter option; 12.5" in airway length with pre-filter option
Racking Requirements	Standard Type 8 Filter Racking
Blank-offs	As required to prevent air bypass
Safety Interlocks	Turns ACS system off if AHU filter access door is opened
BAS Integration	SCM easily integrates into a building's automation system

Filter Size	Dimensions	Weight (w/o pre-filter option)	Weight (with pre-filter option)
24x12	W=23.5" H=11.5"	11 lbs	12 lbs
24x24	W=23.5" H=23.5"	16 lbs	17 lbs
12x24	W=11.5" H=24.5"	11 lbs	12 lbs