

ACS-Slim Line 4



A Complete Air Purification System Specifically for Advanced Roof Top and 4" High Efficiency Applications

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 Slim Line 4 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 RTU 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.



The 4-Step ACTIVE Particle Control Process never stops.



Step 1: Condition

Condition particles with both positive and negative polarities

Step 2: Collision

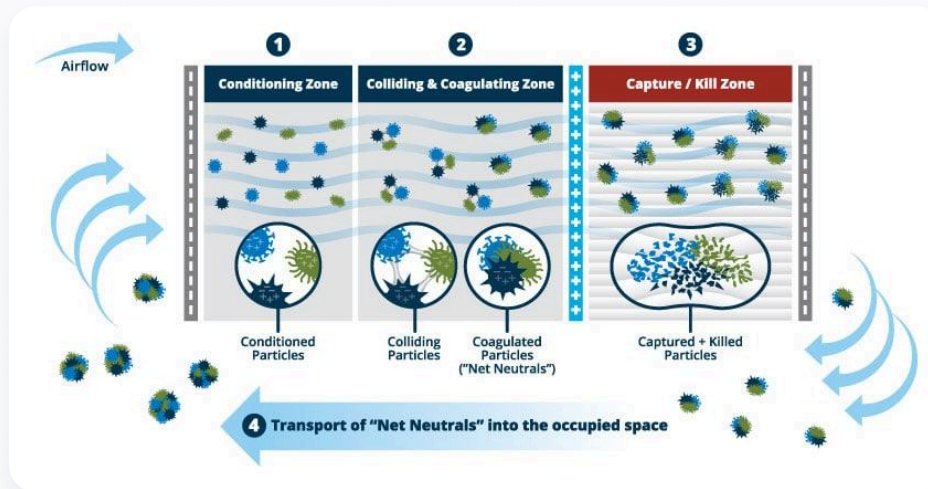
Particle conditioning causes colliding and coagulation of particles and the formation of "net neutrals"

Step 3: Capture and Inactivate

Anything captured within the SecureAire Filter Matrix is killed or inactivated

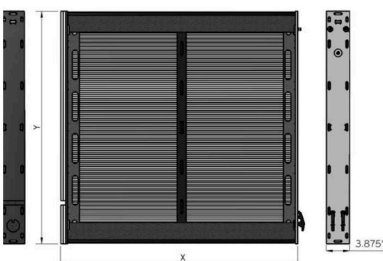
Step 4: Transport

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"x12", 24"x20", 24"x24", 12"x24"
Filtration Efficiency Rating	MERV 14 per ASHRAE 52.2 Standard Test
Power Supply/Power Consumption	5 watts per filter position; 120/240 Single Phase VAC
Clean Pressure Drop	< 0.1" 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	4" airway length
Racking Requirements	4" U-channel (Nominal 4" ID, and 0.45" ID rise)
Blank-offs	As required to prevent air bypass
Safety Interlocks	Turns ACS system off if RTU filter access door is opened
BAS Integration	SCM easily integrates into a building's automation system



Filter Size	Size	Weight (lbs)
24x12	W=23.5" H=11.5"	6.5
24x20	W=23.5" H=19.5"	10.5
24x24	W=23.5" H=23.5"	12.5
12x24	W=11.5" H=23.5"	6.5

