



The Only Complete Air Purification System Specifically Made for Your Home

PlatinumPLUS Home Air Purification System

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 particle-control technology used in semiconductor manufacturing cleanrooms, 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

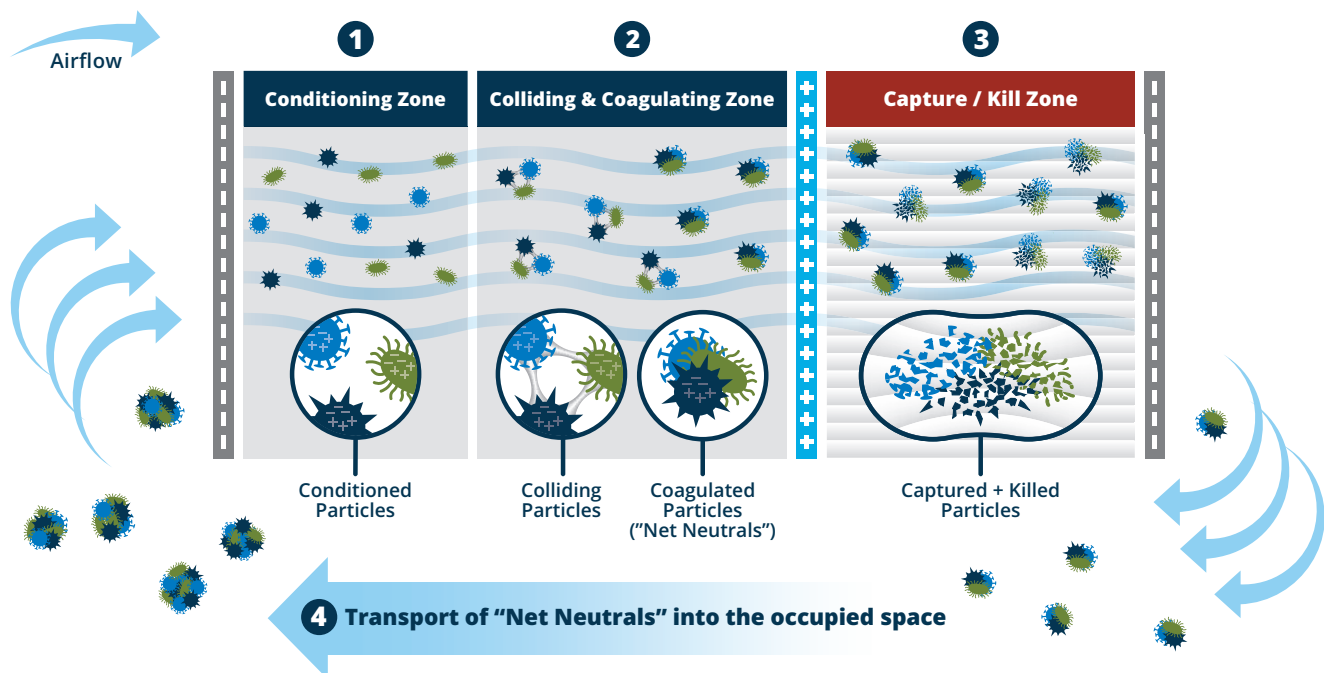
smallest particles to attract to each other forming ever-larger clusters that can then be brought to the filter by air currents.

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 PlatinumPLUS Home 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 almost any home furnace and does not inhibit air flow through the system with industry leading high filter efficiency and low static pressure drop characteristics while handling airflows of up to 2000 cubic feet per minute.

How it works

A Patented Process creating the Safest, Healthiest and Cleanest Indoor Air Possible



Step 1: Condition

As particles in air move through the SecureAire system, they are Conditioned. The Conditioning step utilizes electrostatic fields that condition particles causing them to either: a) coagulate and/or b) “want” to move to the collector.

Step 2: Collision

Once Conditioned, the particles are forced to collide with each other through inelastic collisions. These collisions create ionic bonds, one of the strongest bonds in nature, between the particles. Thousands to millions of times a second, conditioned particles are forced to collide, gaining weight in the process, and more importantly becoming “NET NEUTRAL” in charge.

Step 3: Capture and Inactivate

Now, these airborne contaminants are TRANSPORTED via airflow to the SecureAire Cartridge, where they are captured and permanently held within the polarized filter due to strong ionic bonds. Once captured, viable pathogens are exposed to electrostatic fields that cause extreme oxidative cellular stress, destroying them and rendering them harmless.

Step 4: Transport

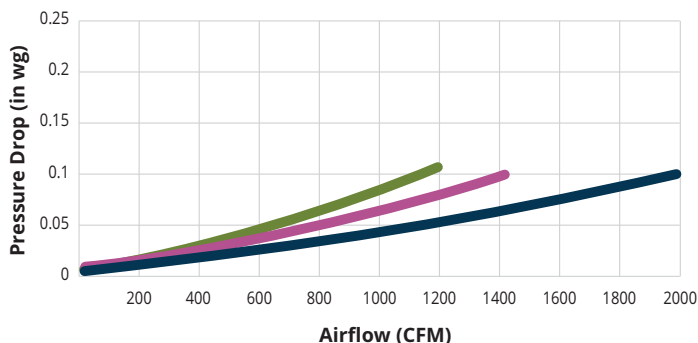
Perhaps the most critical step in the process, “THE TRANSPORT” step, begins with any particles that have escaped capture. These NET NEUTRAL particles work in the treated space by absorbing and adsorbing small and dangerous airborne contaminants, allowing them to be TRANSPORTED to the filter cartridge for capture or exhausted out of the treated space.

The 4-Step ACTIVE Particle Control Process never stops.

System Specifications

Part Numbers	ACS1620-NG2	ACS2020-NG2	ACS1625-NG2	ACS2025-NG2
System Efficiency Rating (MERV)	MERV 14 per ASHRAE 52.2			
Unit Dimensions Including Enclosure Frame (h x w x d)	16" x 20" x 6.75"	20" x 20" x 6.75"	16" x 25" x 6.75"	20" x 25" x 6.75"
Unit Weight (lbs.)	14	15	15	17
Enclosure	Aluminum/galvanized steel			
Maximum Airflow (CFM)	1200	1400	1400	2000
Initial Pressure Drop (inches wc.)	(0.11)	(0.10)	(0.10)	(0.10)
Humidity Range	0 to 95% RH, non-condensing			
Operating Temperature	-40° to 165°F (-40 to 74°C)			
System Depth	6.75" in the airway length direction			
Power in	120 single phase VAC			
Consumption	7 Watts @ 120 VAC			
Safety Protection	SB 0.5 A/250 V fuses			
Preferred Mounting	Return air side			
Safety Certifications	US: UL 867		Canada: CAN/CSA C22.2 No. 187-09	
Warranty	5-year full replacement warranty			
Filter Replacement PlatinumPLUS Series Part Numbers	ROC1620-NG2	ROC2020-NG2	ROC1625-NG2	ROC2025-NG2
Filter Nominal Dimensions (h x w x d)	16" x 20" x 2"	20" x 20" x 2"	16" x 25" x 2"	20" x 25" x 2"

PlatinumPLUS Series Pressure Drop Curves



Air purification cartridge size key:

- 16x20
- 20x20/16x25
- 25x20

To learn more:

Visit our website at:
www.secureaire.com/residential

SecureAire Technologies, LLC

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