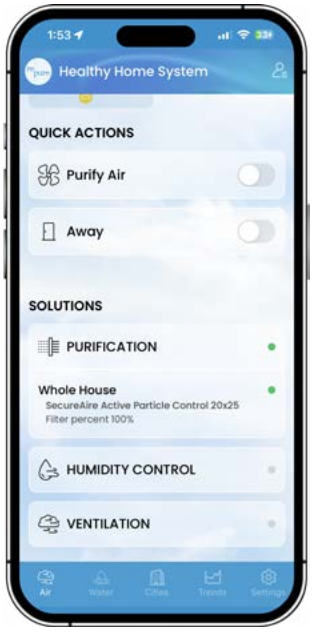
repure
purepure

The only integrated air purification system specifically made to address ultrafine-particles



RePure Whole House Air Purifier

powered by SecureAire™

With technology not part of any IAQ offering in todays' marketplace, the RePure Healthy Home System provides real-time IAQ conditions and effortless equipment management. RePure's Connected Whole House Air Purifier combines state-of-the-art air purification technology with smart control, enabling users to adjust settings, monitor air quality, and receive alerts through their smartphones or other connected devices. Powered by ACTIVE Particle Control, it is the only way to remove all particles, like viruses, mold, pollen, and harmful VOCs that are virtually weightless and unaffected by airstreams.

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.

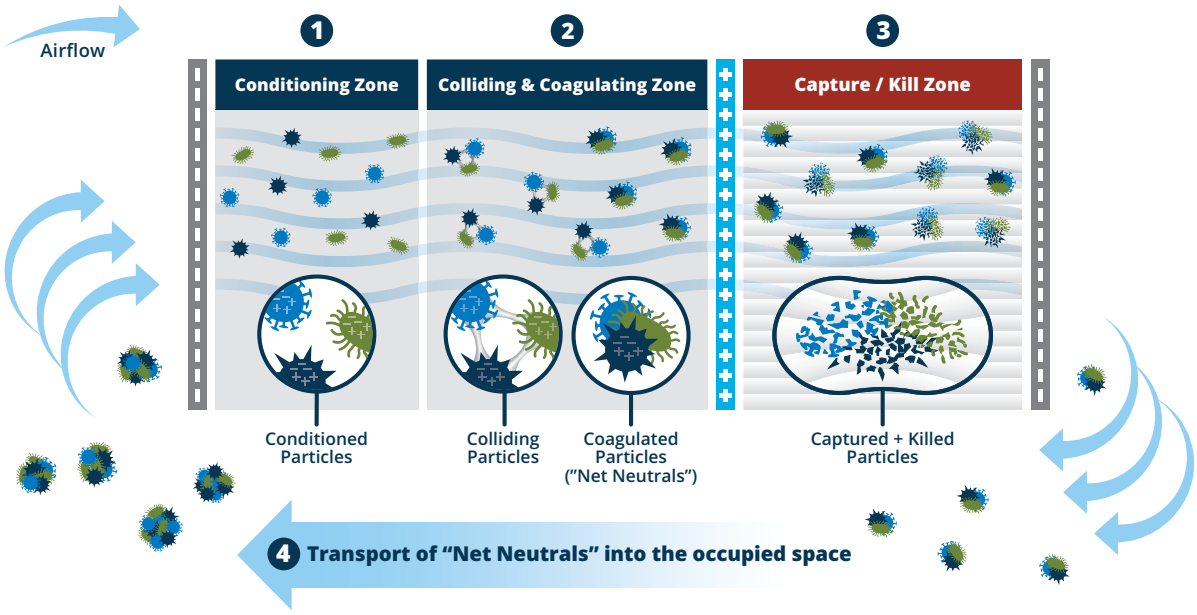
The ACTIVE Particle Control technology conditions the smallest particles to attract to each other forming ever-larger clusters that can then be brought to the filter by air currents.

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 RePure Home Air Purification System consists of the ACTIVE Particle Control System and a replaceable 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.

RePure Home Air Purification System

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



RePure Home Air Purification System

Step 1: Condition

As particles in air move through the RePure 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 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

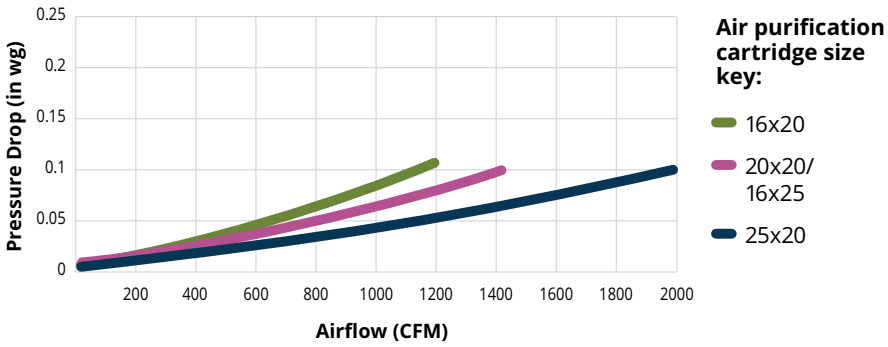
Perhaps the most critical step in the process, “THE TRANSPORT” step, begins with any particles that have escaped capture. These NET NEUTRAL particles work in the treated space by absorbing and adsorbing small and dangerous airborne contaminants, allowing them to be TRANSPORTED to the filter cartridge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

The 4-Step ACTIVE Particle Control Process never stops.

System Specifications

Part Numbers	RPS-IL1625W	RPS-IL2025W
System Efficiency Rating (MERV)	MERV 14 per ASHRAE 52.2	
Unit Dimensions Including Enclosure Frame (h x w x d)	16” x 25” x 6.75”	20” x 25” x 6.75”
Unit Weight (lbs.)	15	17
Enclosure	Aluminum/galvanized steel	
Maximum Airflow (CFM)	1400 or less	1600 or more
Initial Pressure Drop (inches wc.)	(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	120/240 single phase VAC	
Consumption	7 Watts @ 120 VAC	
Protocols	Wi-Fi	
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	
Maintenance Data	Unit status, electronic filter pressure drop sensor, remote shutdown	
Filter Replacement RePure Series Part Numbers	RPS1625-NG	RPS2025-NG
Filter Nominal Dimensions (h x w x d)	16” x 25” x 2”	20” x 25” x 2”

RePure Series Pressure Drop Curves



To learn more:
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