

CAP100 SERIES CENTRAL AIR PURIFIERS:

*Cleaner, Greener & Healthier Indoor Air
at an Affordable Price*



Dust Mites
Pet Hair & Dander
Mold & Fungal Spores
Bacteria
Pollen
Tobacco Smoke
Formaldehyde
Chemical VOC & Odors

THE PROBLEM:

Indoor Air Pollutants That Can Trigger Allergies, Asthma, & Other Health Problems

What You Can't See Can Hurt You!



Did you know that dirt and dust particles that settle onto furniture and other surfaces are just the tip of the iceberg? Even a well-maintained home is likely to have billions of particles floating in the air. In fact, a study conducted on behalf of the U.S. Environmental Protection Agency (EPA) found that indoor air quality (IAQ) is often much worse than outdoor air quality, with far higher levels of some harmful pollutants.

More than 99% of these particles are 10 microns or smaller in size - about four ten-thousandths of an inch - too small for us to see, and light enough to remain airborne for days or even weeks. EPA categorizes particles this tiny as 'lung damaging' because, when inhaled, they are also small enough to bypass our natural defense mechanisms, and lodge in our lungs.

"Each year more than 50 million Americans suffer from allergic diseases."

-Academy of Allergy Asthma & Immunology

According to the National Institute of Health the number of American children who suffer from allergy sensitivities, asthma and chronic respiratory diseases has more than doubled over the past 30 years. Numerous studies have identified bio-pollutants commonly found in indoor air such as mold spores, pollens, animal hair and dander, and dust mite and insect remains among the main culprits.

When inhaled, the reactions these bio-pollutants can trigger in sensitive children and adults include acute asthma attacks, sinus headaches, runny noses, itchy, watery eyes, sore throats, nausea, and chronic fatigue. The effects can be especially severe for the ill, children, and the elderly.

Based on this knowledge, more and more allergists and other health professionals today recommend the use of 'allergen avoidance' measures such as higher efficiency indoor air filtration to reduce our exposure to respiratory allergens, as opposed to relying solely on medications to treat allergy and asthma symptoms.



"Poor indoor air quality can cause or contribute to the development of chronic respiratory diseases such as asthma, hypersensitivity and pneumonia."

- American Lung Association

THE SOLUTION:

CAP® 100 Series Central Air Purifiers - A “Whole House” Solution to Indoor Air Pollution

Upgrade Your Home’s Central HVAC System & Capture 96% of the Allergens 1” Furnace Filters Miss

If your home has a central HVAC system, it’s probably equipped with a low efficiency, 1-inch thick air filter. This type of filter is put there to prevent very large particles from damaging system components. Unfortunately, the vast majority of the smaller airborne particles that can threaten the health and comfort of your family can pass right through it.

A CAP100 Series Central Air Purifier is a practical, economical, and non-intrusive way to significantly upgrade the IAQ throughout your home. Its high-performance two-stage filters can capture 96% of the pollutants and allergens that pass right through a standard HVAC filter and can hold up to 12 times more dirt. And one CAP100 Series system installed into the HVAC return-air plenum in a basement, crawl space or attic can cleanse the air supplied to all the rooms heated or cooled by that HVAC system.

CAP100-U Model: 2-Stage Particle Filtration

The CAP100-U is our base 100 series model, designed for use in HVAC systems with up to 4 tons (1,600cfm) of cooling capacity. It is equipped with a 1”-deep large particle filter and a 5”-deep final filter that meets ASHRAE Standard 52.2 MERV 11 efficiency standards. This high level of filtration enables the CAP100-U to capture 98% of the particles in the air that are 6 microns or larger.

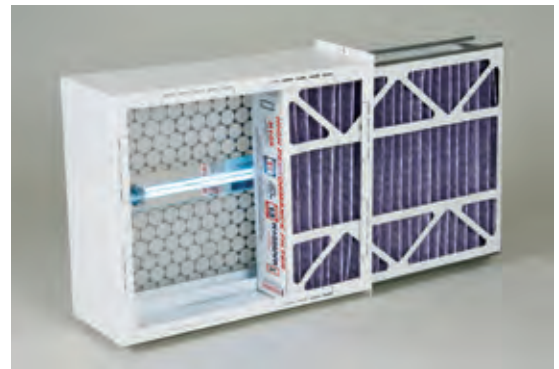


CAP100-UV Model: Germicidal UV Technology To Control Airborne Microorganisms

The CAP100-UV model is equipped with a 1”-deep pre-filter, a 5”-deep, MERV 13-efficiency final filter with UV-resistant filter media that captures 99% of particles 6 microns or larger, and a germicidal UV (UVGI) disinfection lamp. UVGI is used effectively to control bacteria, fungal and mold spores and odors in healthcare, food processing and pharmaceutical facilities. Now this same advanced air purification technology is available to irradiate and destroy allergy and asthma triggering bio-pollutants each time the air in your home cycles through the HVAC system.

CAP100-UVP Model: Add Germicidal ‘UV Plus’ Technology For Enhanced Odor Control

Excessive moisture or humidity, pets, smokers, cooking, or wood burning stoves can create persistent unpleasant odors in a home. The enhanced odor-removal capabilities of our unique UV Plus dual-output lamp makes the CAP100-UVP model the ideal choice for odor plagued homes. This lamp produces similar UVGI output to the UVGI lamp. It also uses photolysis oxidation to generate a controlled amount of ozone (O₃) gas, which dissipates quickly inside the HVAC ductwork as it reacts with the odor-producing compounds.



Note: The CAP100-UV model is recommended for homes with family members who are immune compromised or have emphysema or other serious respiratory illnesses.

Comparison of CAP100 Series Models

Airborne Allergen	CAP100-U	CAP100-UV	CAP100-UVP
Dirt & Dust Particles	E	E	E
Animal Hair & Dander	VG	VG	VG
Pollens	VG	E	E
Bacteria & Viruses	F	VG	VG
Mold & Fungal Spores	G	E	E
Gasses & Odors	P	G	E
Tobacco Smoke & Soot	F	G	VG
E = Excellent VG = Very Good G = Good F = Fair P = Poor			

Particle Size Efficiency Chart

Particle Size	CAP100U	CAP100-UV & CAP100-UVP
1 micron	87%	90%
2 microns	95%	96%
3 microns	96%	97%
4 microns	97%	98%
5 microns	97%	98%
6 microns	98%	99%
7 microns	98%	99%
8+ microns	99%	99%

Frequently Asked Questions

Q: Why is central air purification so effective?

A: CAP100 series device installed into a 3-ton HVAC system can filter the air inside of an 1,800 square foot home more than 100 times every 24 hours.

Q: Why would I need a CAP unit if I keep my home clean and dust and vacuum frequently?

A: Dusting and vacuuming can remove larger, visible particles that collect on surfaces; but they can often make things worse by stirring up tiny and potentially harmful particles such as mold spores, pollens, bacteria and pet dander that can pass right through most vacuum filter bags.

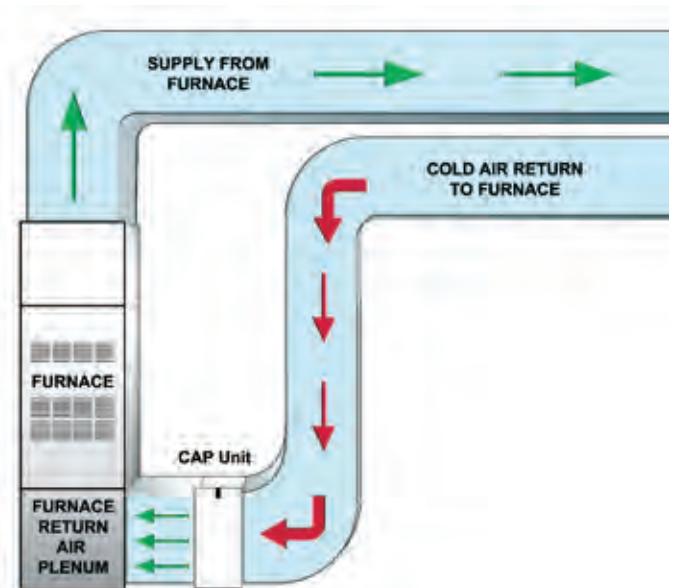
Q: How can I benefit from having a CAP100 Series Air Purifier installed in my home?

A: Your home is likely to stay cleaner, with fewer dust particles accumulating on furniture and floors. It may also be greener, with lower energy consumption. According to a Louisiana government study cleaner components can increase HVAC system efficiency by up to 20%.

Q: How does germicidal UV work?

A: Exposure to high dosages of UVGI energy breaks down the DNA of bacteria, viruses, molds and other micro-organisms and interferes with their ability to replicate and reproduce.

Typical CAP100 Series Installation





Ask about our CAP600 & CAP1200 models, the ultimate in whole house filtration, with tested & certified 99.97%-efficient HEPA filters & optional UVGI or UV Plus germicidal lamps.

**Pure, Clean, Healthy Air
is available from:**

**Abatement Technologies CAP® Central Air Purifiers
are sold and installed by authorized
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