

CAP® 500 Series In-Duct Central Air Purifiers: One Solution to Indoor Air Pollution

Let's take a closer look at the indoor air pollutant problem.



If you or your family members suffer from:

- Frequent Flu-like Symptoms
- Headaches
- Coughing & Sneezing
- Runny or Itchy Nose
- Itchy, Watery Eyes
- Sore Throat
- Fatigue

Indoor allergens and pollutants could be part of the problem.

Indoor air pollutants can affect us all. They can especially threaten the health and comfort of young children, the elderly, people with chronic illnesses, and the millions of us who suffer from allergies, asthma and other respiratory ailments.

What you can't see sometimes can hurt you. Invisible but potentially harmful microorganisms and chemicals can be present in the air we breathe, in even the most well maintained homes. Unpleasant odors from cooking, pets, tobacco smoke, mold and mildew can also linger in the air.

It is virtually impossible to completely prevent exposure to these pollutants, but most health professionals agree that minimizing or reducing exposure to allergens is an extremely important component of patient care. Molds are an especially prevalent cause of allergic reactions.

The most common indoor air pollutants and allergens are:

- Bacteria • Viruses
- Fungi (molds and mildew)
- Tobacco Smoke • Pet Dander
- Volatile Organic Compounds (VOC's)
- Household Chemicals • Mold Odors
- Pet Odors



According to a 1999 Mayo Clinic study, a reaction to fungi (molds) was the cause of chronic sinusitis in 96% of the patients surveyed.

CAP500 Germicidal UV Models: UV-C "Ozone Free"

Studies have shown that the damp, dark confines of a home's central HVAC system can provide an ideal breeding ground for molds and other microbial growth. These biopollutants can easily pass right through most furnace filters and into the air that you and your family breathe.

CAP500 series Central Air Purifiers are designed to destroy bacteria, molds, and other health-threatening microbes that can live and multiply inside of a forced air heating and cooling system. These units feature a powerful 1,950 $\mu\text{W}/\text{CM}^2$ @ 6" germicidal UV-C or UV Plus lamp that can also break down and neutralize many VOC's (Volatile Organic Compounds) and unpleasant odors.

Purify The Air 24 Hours A Day, Every Day

CAP500 models are designed to irradiate the air continuously. The air purifier should be run continuously for maximum effectiveness and lamp life.

Fit Almost All Forced-Air HVAC System

The CAP500 series models are designed for use in almost any forced-air HVAC furnace and air conditioner that operates on a 110-volt electrical supply.

Visual Indicator Lamp

A green light on the unit indicates that the lamp is operational.

Ultraviolet Germicidal UV (UV-C)

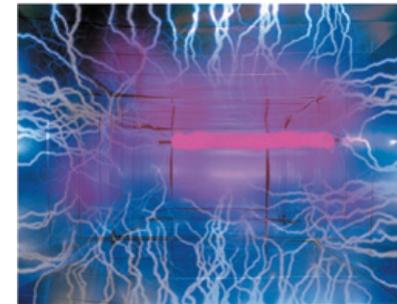
UV-C is part of the spectrum of electromagnetic energy generated by the sun. UV-C lamps have been used for more than 40 years in health care, food processing and storage, and in pharmaceutical facilities to irradiate and destroy harmful bacteria, viruses, and fungi by destroying their DNA. Now, this same technology is available to homeowners.



The CAP500-UV model is equipped with a powerful germicidal UV-C lamp. For peak effectiveness this model is installed either above or below the evaporator A-coil, depending on the HVAC system design.

CAP500 UV Plus Models: Germicidal UV + Photolysis

HVAC components such as the coil and drain pan are especially susceptible to moisture retention and microbial growth and odors. The CAP500-UV "UV Plus" model features a special quartz lamp that combines UV-C with an oxidation reaction known as photolysis. This model, which is installed in the HVAC return duct, utilizes photolysis technology for added effectiveness against common odors from microbial growth, cooking, smoking and pets.



This CAP500 is shown mounted inside a typical HVAC duct. It creates a virtual "killing zone" that destroys bacteria, molds and other harmful pollutants. The photo has been enhanced for the purpose of illustration.

Full Duct Coverage

The extra-long transverse-mounted lamp is designed to provide full duct or A-coil coverage. The CAP500 models can be used in metal duct, fiberglass duct board or round pipe.

Inexpensive To Operate

These units use less electrical power than a 60-watt light bulb. Lamps can last up to 18 months or longer if run continuously but annual replacement is recommended to maintain peak performance.

Safety First

CAP units are independently tested and certified to meet stringent UL safety standards. Built-in safety features include an electrical interlock switch that instantly deactivated the lamp if the protective cover is removed.

Frequently Asked Questions

Q: What type of warranty do the CAP500 units have?

A: Abatement Technologies' CAP500 Central Air Purifiers are covered by a comprehensive two-year limited warranty.

Q: What is the expected life of the germicidal UV lamp?

A: These economical, long-life quartz lamps can last up to 18 months when installed and used in accordance with the operating manual, but replacement every 9,000 hours (annually) is recommended to maintain peak performance.



Q: Should the CAP500 unit be on all the time?

A: Yes. The CAP unit should be run continuously to provide 24/7 air treatment and optimum lamp performance.

Q: How much does it cost to run these units?

A: The CAP units consume less electricity than a 60-watt light bulb. Typical operating cost is about \$0.15 per day.

Q: Where are the CAP units installed?

A: The CAP500-UV model is designed for installation either above or below the HVAC condensation coil. The CAP500-UVP is installed in the HVAC return duct.

Q: Which type of lamp is best for my home?

A: In general, UV Plus models are recommended where excessive odor or moisture problems may be present. HVAC system design or installation constraints may also dictate which model fits best in a particular home.

Q: Do the CAP lamps produce ozone?

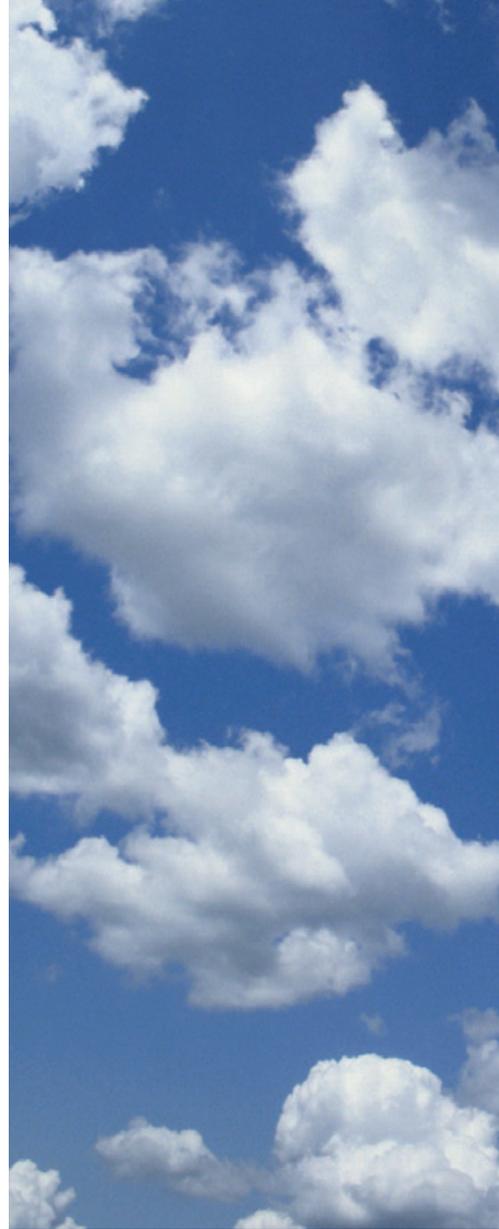
A: CAP500-UV lamps are ozone free. CAP500-UVP lamps have been tested and certified by Environmental Testing Laboratories to maintain ozone levels below UL Standard 867 (1995), clause 37.

Q: What about particulates?

A: Upgrading the filtration efficiency and capacity of your HVAC system is an excellent air quality and housekeeping decision. Abatement Technologies offers a wide array of products, including the CAP100 series in-line air purifiers and the CAP600 and CAP1200 series models with true 99.97% efficiency HEPA filters.

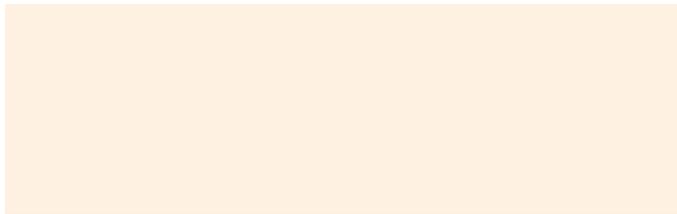
Q: How do I get more information on Abatement Technologies' Central Air Purifiers?

A: Ask your dealer for details or visit our website at www.abatement.com.



See your Abatement Technologies' dealer for other filtration products designed for your family's complete air quality needs.

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



Abatement Technologies CAP® Central Air Purifiers are sold and installed by authorized independent HVAC & IAQ dealers.

Two models are available:

CAP500-UV

CAP500-UVP

**ABATEMENT
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www.homefiltration.com

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**CAP500 Series
In-Duct Air Purifiers
for Pure, Clean, Healthy Air**



Are You And Your Family Being Exposed To Harmful Bacteria, Molds And Other Air Pollutants In Your Home?

