

Frequently Asked Questions

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. Both the CAP unit and the furnace blower 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 only about \$ 0.15 per day.

Q: Where are the CAP units installed?

A: The CAP500-UV is designed for installation either above or below the HVAC condensation coil. The CAP500-UVP model 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 completely ozone free. CAP-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 inline 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



Two models are available:

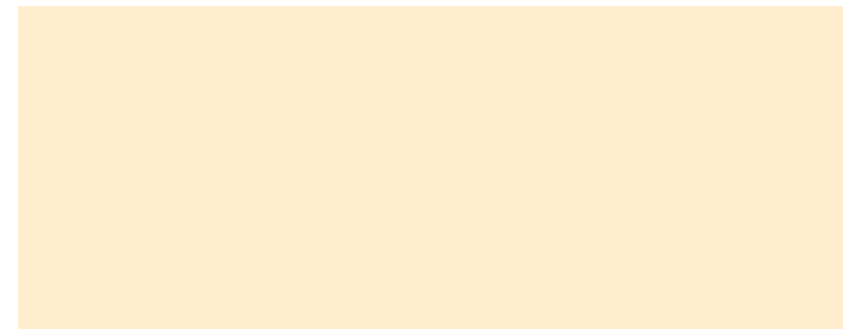
CAP500-UV
CAP500-UVP



Limited
Lifetime
Warranty

Abatement Technologies' Central Air Purifiers are sold exclusively through dealers, and are covered by a comprehensive two-year limited warranty.

Pure, Clean, Healthy Air
available through:



ABATEMENT TECHNOLOGIES
Technologically Advanced Air Purification Products

www.abatement.com
Duluth, GA 30096

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

CAP500-UV
CAP500-UVP



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



"Each year more than 50 million Americans suffer from allergic diseases. Allergies are the leading cause of chronic disease in the United States, costing the health care system \$18 billion annually."

*-The Allergy Report
American Academy of Allergy,
Asthma and Immunology*



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 and 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.

The most common indoor air pollutants and allergens are:

- Bacteria ● Viruses ● Fungi (molds and mildew)
- Tobacco Smoke ● Pet Dander
- Volatile Organic Compounds (VOCs)
- Household Chemicals ● Mold Odors ● Pet Odors

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.

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

One Solution to Indoor Air Pollution: CAP500 Germicidal UV Central Air Purifiers.

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 series models are designed to irradiate the air continuously. Both the air purifier and the HVAC blower should be run in the "Continuous" or "On" mode for maximum effectiveness and lamp life.

Fit Almost All Forced-Air HVAC Systems

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

Visual & Audible Indicators Monitor Lamp's Status

Three indicator lights; Green: the lamp is operating within an acceptable range; Yellow: lamp be replaced soon; Red: lamp is inoperable. An audible 'chirp' begins when the Yellow light is illuminated. The 'chirping' can be shut-off without replacing the lamp.



CAP500

Ultraviolet Germicidal UV (UV-C) Model

UV-C is a 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.



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.

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-UVP "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.

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.

Class II Medical Devices

Abatement Technologies' CAP® products are Class II Medical Devices.

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 deactivates the lamp if the protective cover is removed.

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

— American Lung Association

"The most effective treatment of inhalant allergies is the removal of allergens to which the patient is sensitive."

— Advances in Pediatric Medicine

"If you go into the dark recesses of a ventilation system, you'd be shocked at what you'd find."

— Dr. Richard Shaughnessy
Director, Indoor Environmental
Research Program, University of Tulsa

