

Benefits of UV-C Room Air Purification for Health & Wellness

Don't Let Germs Breed in Your Home

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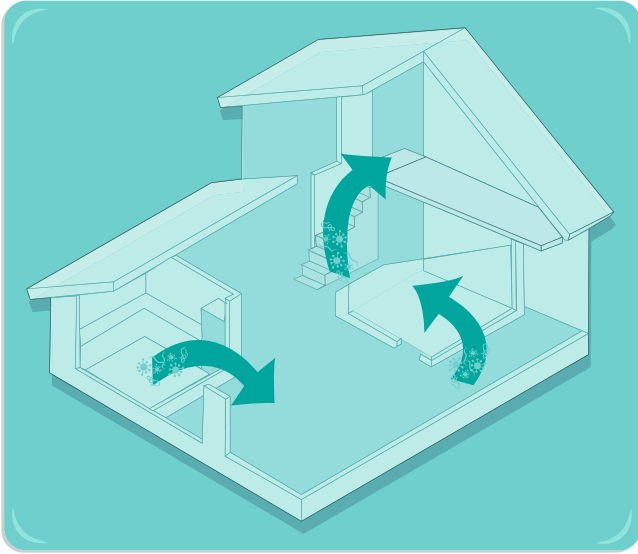
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Microorganisms and Irritants in the Air Contribute to Health Issues, Asthma, & Allergies



Bacteria, virus, and mold move on air currents from one space to another. You can't see them, but they're around and can have a significant impact on your family's health and wellness. They can be responsible for your household members passing a cold, virus, or the flu to each other. Irritants can trigger and exacerbate allergies and asthma. Some microorganisms could also be disastrous for people with compromised immune systems.

"Most pollutants affecting indoor air quality come from sources inside buildings, although some originate outdoors."

— Environment Protection Agency, "Indoor Air Quality"

Your Home could be a Breeding Ground for Colds, Strep, Flu Virus & More

Your home can be the perfect environment for microorganisms to reproduce quickly. According to the EPA, we spend an average of 90% of our time indoors, and the concentrations of some indoor pollutants are often 2 to 5 times higher than what's found outdoors. With so much time spent indoors, it's no wonder we pick up germs in our own homes.



How do Virus, Bacteria, and Fungi Spread Through the Air

When someone in your home coughs or sneezes, millions of virus or bacteria particles spew through the air. Microbes hang in the air or land on objects throughout your home. They are then picked up in the air currents and carried throughout the house. Microorganisms and fungi from outside make their way inside and will spread. You then come in contact with these microorganisms by breathing them in and touching infected surfaces. Doorknobs, tables, chairs, and cabinet handles are just some of the surfaces where airborne contaminants rest.

How do Virus, Bacteria, and Fungi Spread Through the Air *(continued)*



The most common contaminants your home will face are likely the common cold or influenza. The average adult catches 2–3 colds a year.

“The flu and the cold are both contagious from tiny droplets known as aerosols that come from an infected person’s mouth. When the infected person breathes, coughs, sneezes, laughs, or even talks, these aerosols enter the air, coming in contact with those uninfected.”

— CDC, “Disease of the Week “

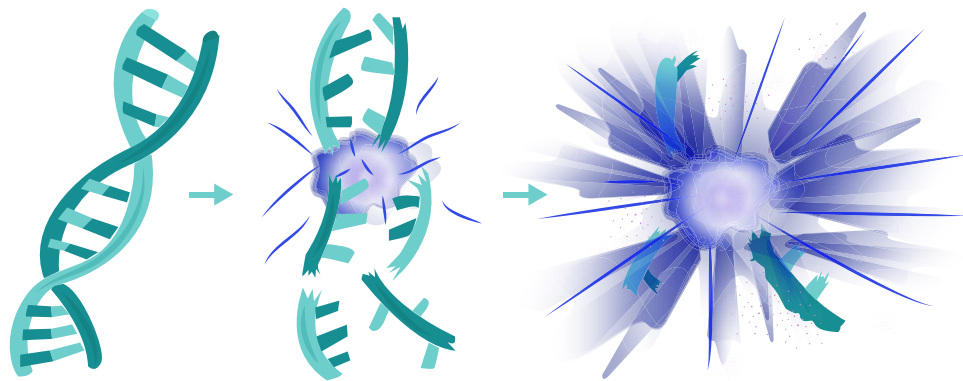
But that’s not the only worry. There are dozens of other airborne microbes that may be transmitted in your home at any time, by a person that is unknowingly carrying the germs. These microbes include:

- Coxsackie
- Hepatitis
- Measles
- Pneumonia
- Staphylococcus (MRSA)
- Streptococcus (strep)
- Tuberculosis (TB)

The air in your home also faces dust, mold, and various odors. These irritants can trigger or aggravate symptoms of allergies and asthma, and in general cause an unhealthy environment.

UV-C Room Air Purification Destroys Virtually All Bacteria, Virus, and Mold to Promote Health and Wellness

Germicidal UV-C has been recognized for decades as a powerful, safe, rapid, and chemical-free disinfection method. Germicidal ultraviolet light emitted at 254 nanometers deactivates the DNA of virus, bacteria, and fungi—destroying their ability to multiply and cause disease. By utilizing UV-C Room Air Purification methods, microbes will essentially stop reproducing, and start to die off.



SANITAIRE® Ultraviolet Room Air Sanitizers Have Many Household Applications



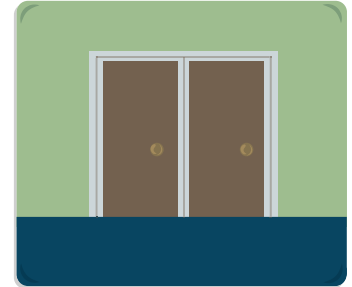
Bedrooms



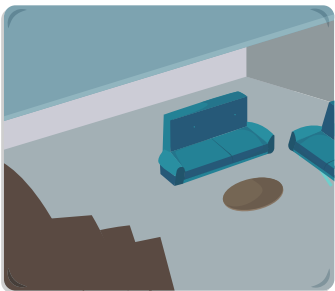
Dens/Living Rooms



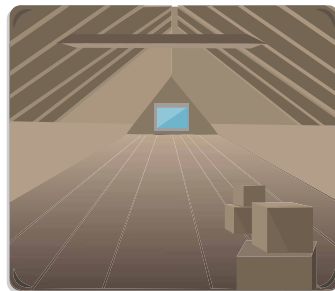
Bathrooms



Closets



Basements



Attics/Crawlspace



Garages



Kitchens

Forgotten Areas of the Home Benefit from UV-C

Temperature and moisture can fluctuate in location such as your basement, crawlspace, attic, or attached garage. Because of this, these locations become a favorable environment for microorganisms to reproduce and spread into other areas of your home. When you treat the air in these areas of the home, you reduce the re-population of virus, bacteria, and mold that would otherwise spread rapidly into your home's living spaces.

UV-C room air purification systems can be utilized throughout your space to create a healthy home or work environment. Atlantic Ultraviolet Corporation® engineers designed **SANITAIRE®** Ultraviolet Room Air Sanitizers, for use in just about any occupied setting. Standard and optional features provide economical, safe, and continuous disinfection.

Everyone benefits when microorganisms and irritants are halted where they begin. Cold and flu germs, asthma and allergy irritants, and fungi are not given the opportunity to reproduce. UV-C air treatment reduces and eliminates odors that can trigger allergies and asthma. It also increases overall sanitization in the home by disrupting the DNA structure of microbes before they are inhaled or land of surfaces.



Combine UV-C Air Duct and UV-C Room Air Purification Systems to Maximize Health and Wellness Benefits



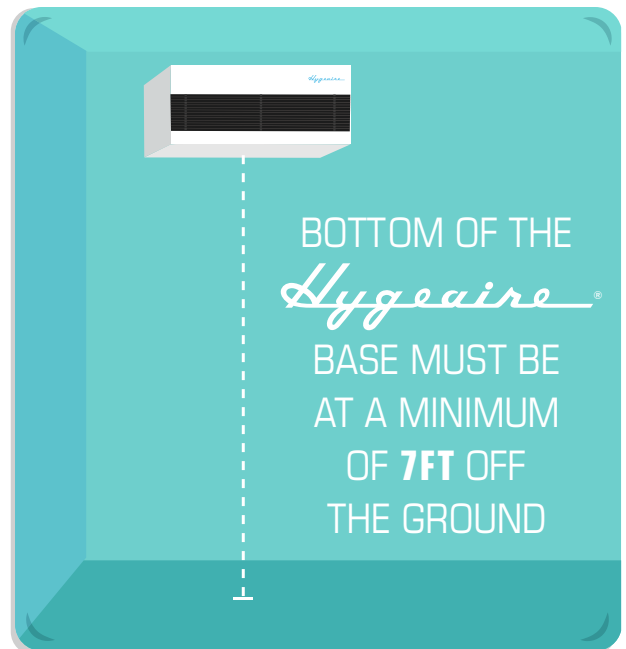
For maximum health and wellness benefits, use a combination of a **SANITAIRE®** Ultraviolet Room Air Sanitizer or a **Hygeaire®** Ultraviolet Indirect Air Disinfection fixture.

The **SANITAIRE®** Ultraviolet Room Air Sanitizer provides maximum virus and bacteria elimination to the air of virtually any occupied setting in your home. Models feature a permanent, washable, electrostatic intake filter or disposable filter capable of removing airborne particles as small as 5 microns. When required, most models can utilize a cost-effective disposable filter as an option. Model RSA760 comes standard with a HEPA filter as well.

The **SANITAIRE®** pulls air from the occupied, enclosed space through the electrostatic filter. The air moves into its polished, reflective exposure chamber where it's exposed to UV-C rays for a precise amount of time before cycling through a louvered panel and back into your room. This UV-C room air purification system was designed with portability in mind. No professional installation is required, so you can move the unit from room to room as needed. Molded rubber feet allow you to place the **SANITAIRE®** on tabletops, shelves, or any stable surface. A wall mount kit is also included that enables you to hang your fixture for a more semi-permanent installation if preferred.

Hygeaire® Ultraviolet Indirect Air Disinfection fixtures are designed for large, occupied, public spaces by providing powerful purification for upper room air. Studies show influenza is inactivated when the air is exposed to UV-C from an upper room disinfection system. In addition, the CDC has recommended for years that upper room UV-C disinfection units be used in high-risk settings to supplement air dilution, due to their effectiveness in eradicating the tuberculosis bacterium.

The **Hygeaire®** installs on a wall or from the ceiling. The bottom of its base must be at a minimum of 7' off the ground. A louvered panel keeps the UV-C rays where they need to be, across the upper part of the room. At this height, occupants are safely out of the path of the ultraviolet rays. Air currents carry the infected air across the UV-C lamp, where it is treated and re-carried throughout the space. The **Hygeaire®** reduces the risk of cross infection and exposure to infectious germs, creating a healthy breathing environment.



About Atlantic Ultraviolet

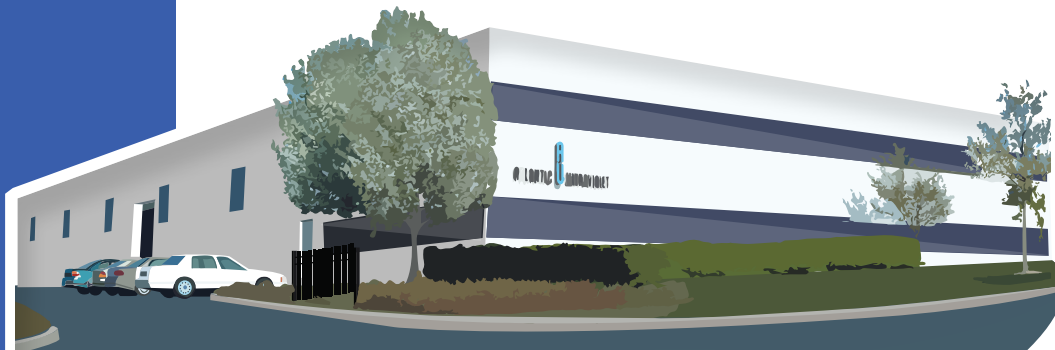
Since 1963 Atlantic Ultraviolet Corporation® has engineered and manufactured ultraviolet water purification equipment, ultraviolet air sanitizing systems, UV surface disinfection systems, and germicidal UV lamps for residential, commercial and industrial applications.

STER-L-RAY® Germicidal Ultraviolet Lamps utilized in Atlantic Ultraviolet's products produce short wave radiation that is lethal to bacteria, virus and other microorganisms. The method is unique and rapid and does not utilize heat or chemicals. Ultraviolet technology is a well-established method for its effectiveness, and because the process is free of by-products.

Atlantic Ultraviolet has two goals: Continuing to develop strong business-to-business and business-to-consumer relationships, and continuing its leadership in applied ultraviolet technology with the development of new product lines.

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