

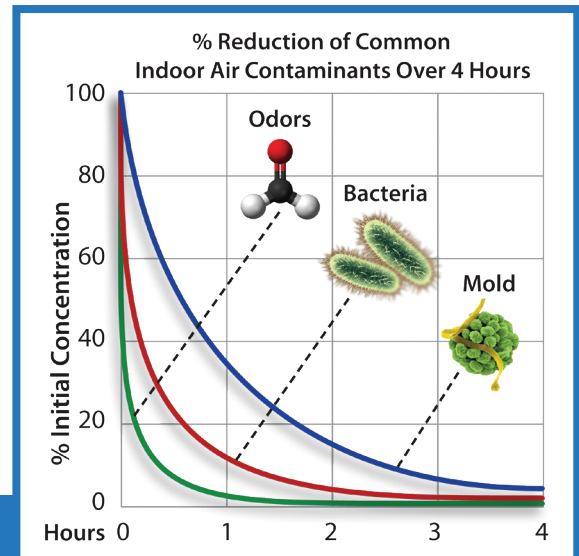


# HVAC Applications

## Big Savings from UVGI

UVGI pays for itself in a very short time. By simply improving heat transfer and air restriction across the coil significant energy savings can be achieved. UVGI also eliminates the need for conventional coil cleaning helps save labor and resources.

- Reduce HAIs
- Eliminate Mold & Biofilm on Coils
- Improve HVAC Efficiency & Reduce Maintenance Costs
- Sterilize Airborne Pathogens
- Improve Indoor Air Quality
- Extend Life of HVAC system
- Neutralize Toxic & Odor-causing VOCs



## Designed Right

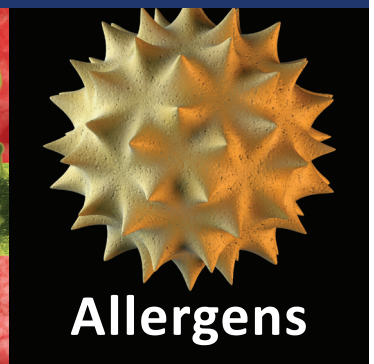
Fresh-Aire UV consultants will work with you throughout the design and installation process. Our knowledgeable staff will examine the parameters of your project and analyze them using our proprietary BlueCalc Software.

## Validation

UVGI disinfection has been validated by numerous independent laboratory studies. HVAC trade associations and government agencies including ASHRAE, NAFA, and USGCA all validate the use of UVGI and/or photocatalytic oxidation for surface and air treatment.

For more information visit:

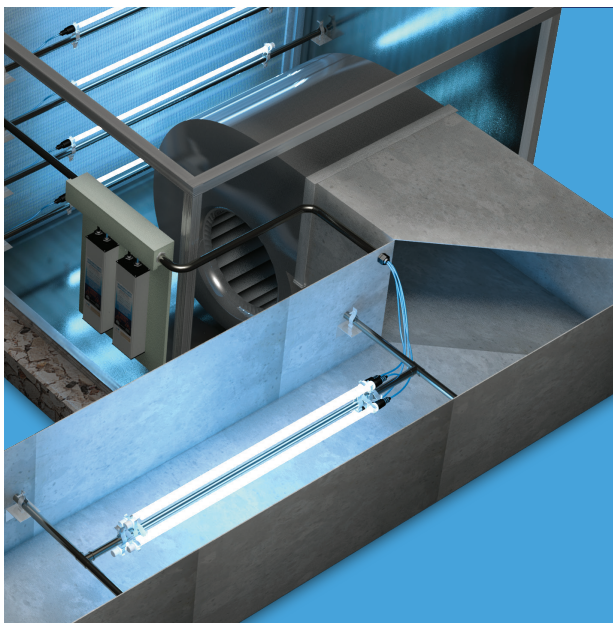
[WWW.FRESHAIREUV.COM](http://WWW.FRESHAIREUV.COM)



# Coil Disinfection

Biological fouling (usually caused by mold) is a common problem in commercial air handlers. The cool, moist interior of the air system is an ideal breeding-ground for mold. A biofilm of only 0.002" can reduce efficiency by 37%!

UV-C light kills mold on coils safely and continuously. Conventional cleaning procedures which use harsh chemicals are expensive, labor intensive, and are themselves a source of environmental contamination and can be a health risk to maintenance workers. UVGI disinfects HVAC coils and interior surfaces 24/7, reduces airborne pathogens, improves indoor air quality, and requires virtually no maintenance other than lamp changes every one or two years.



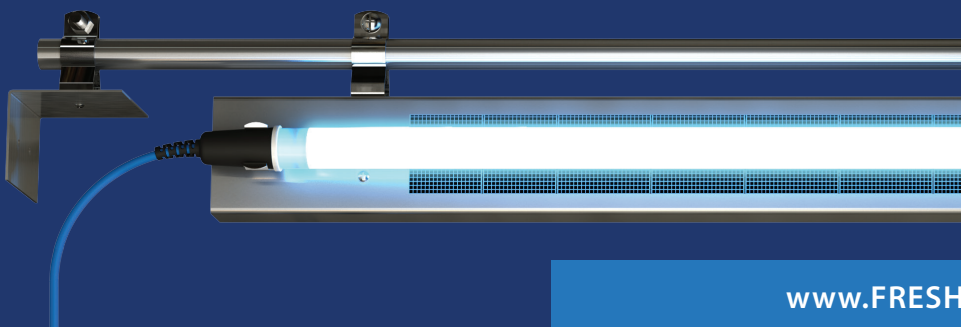
## Airborne Disinfection

Airborne infectious diseases are one of the most serious threats to health related to HVAC equipment. In settings such as hospitals, clinics, health clubs, elder care and veterinary facilities airborne pathogens can be spread by the air system threatening the health of patrons and exposing facility owners to liability risks.

Fortunately Fresh-Aire UV has a solution. Our Airborne Disinfection System is equipped with high-output UV-C lamps to kill airborne pathogens 24/7.

## Odors & VOCs

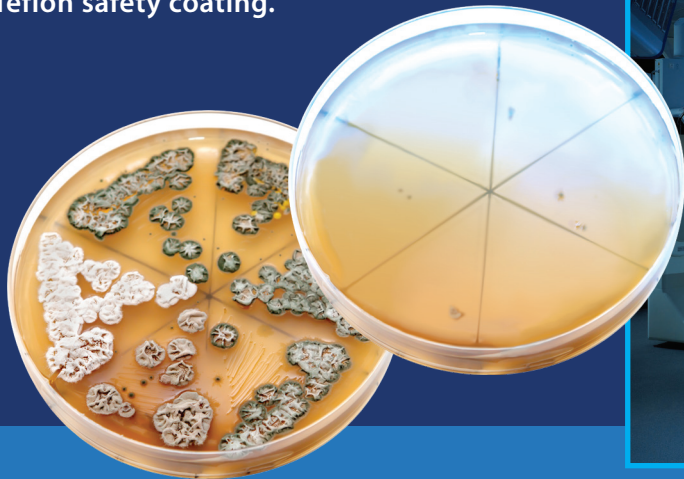
Volatile Organic Compounds (VOCs) are the source of nearly all odors. Our award-winning APCO® technology uses a unique combination of UV-C light, activated carbon, and titanium dioxide to safely adsorb and neutralize VOC molecules as they pass through the HVAC system. APCO technology produces no ozone.



# Room Disinfection

## Reduce HAI Risk

For medical facilities at risk for hospital acquired infections (HAIs), Fresh-Aire UV offers surface disinfection UV-C systems. The ESDS system is designed to disinfect room surfaces when the area is unoccupied. It is a self-contained overhead mounted high-output germicidal UV-C light fixture which comes with an internal electronic power supply and door interlock safety switches. The high quality hard quartz UV-C lamps (single or dual) are encased in a shatter-proof Teflon safety coating.



In an independent test UV-C light killed over 99% of microbial contaminants after the first 24 hours of use.



## Practical & Safe

The ESDS UVGI fixture is a simple and cost-effective solution for surface disinfection. It's easy to install and comes with a safety door interlock switch to prevent accidental exposure. The ESDS is just a fraction of the cost of a UV-C robot, has no moving parts, and does not require a skilled operator or regular maintenance other than yearly lamp changes.



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# Ice & Water



## Save on Maintenance

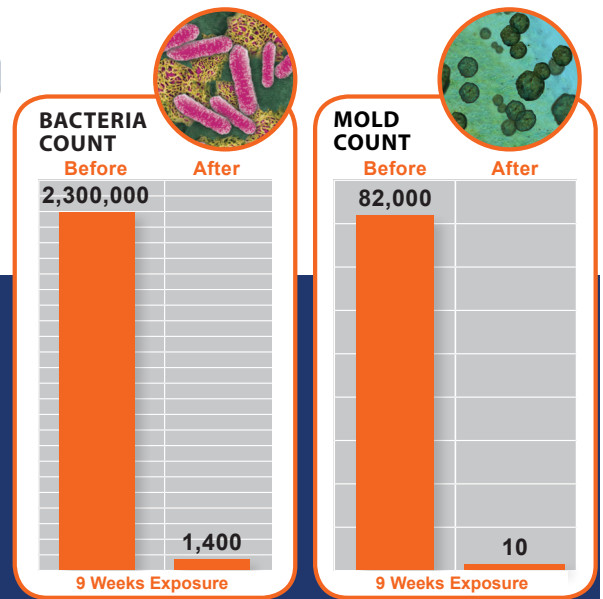
Ice machines are prone to both mold and bacterial contamination. The cool, moist interior of the machines is a perfect breeding ground for mold. Even worse, it only takes one pair of unwashed hands for dangerous bacteria such as E.coli to contaminate the ice. Conventional cleaning methods are expensive and labor-intensive and are only done periodically.

Fresh-Aire UV ICE UV™ and ICE UV Mini™ work continuously to keep all types of ice makers clean and sanitary which extends the cleaning cycle. These UVGI systems require no maintenance themselves other than lamp changes every two years.



## ICE UV Mini™

The countertop ice & water dispensers used at nursing stations frequently need cleaning due to slime in the drain pan. ICE UV Mini™ features a pencil-thin UV-C lamp and a compact power supply making it ideal for these smaller machines.



## ICE UV™

Now ice machine maintenance is easier, safer, and more cost-effective thanks to the award winning ICE UV germicidal UV light system from Fresh-Aire UV. ICE UV works continuously to kill germs before they become established, reducing the need for frequent cleanings. The UV-C lamp is designed to produce just the right amount of UV-C light; enough to kill germs inside the ice machine without damaging plastic materials inside.

