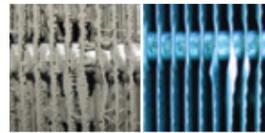


Products

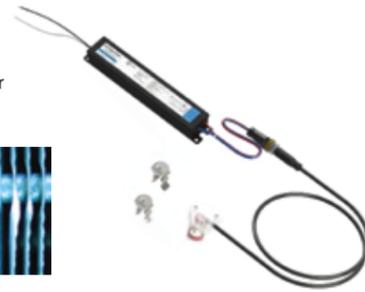


Air Purifiers
3-Stage Cleaning Process In-Room
Portable Purifier

AHU Enhancers
Enhanced VO UVC Kits for
Air-Handling Units



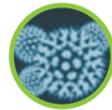
Before After



UV Lighting
Enhanced VO (Very High Output)
Germicidal UVC Emitters

Sterile-Zone, user's real science to create pure air that will keep you and your family breathing easier.

It protects against the following:



Pollen



Bacteria



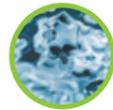
Dust Mites



Smoke



Pet Dander



Mold



Viruses



VOCs



Odor

Solutions to make your home and workplace cleaner, healthier and free from common odors and pollutants

Cautions: Never expose eyes or skin to UVC light from any source. Wear gloves, face shield/goggles (per ANSI Z87.1) and cover all exposed skin. Potential Effects of UVC Exposure to Human Skin and Eyes—Low levels of UVC exposure does not cause long term effects to human skin and eyes. Human cells can recover from low level UVC exposure and damage. Excessive exposure to UVC irradiation can cause temporary injuries to the eyes. These symptoms are only temporary (no more than 48 hours) and will begin within four to twelve hours after exposure.

Emitter contains a small quantity of mercury. If an Emitter breaks, clean and dispose of with care.

Disclaimer: The data and facts mentioned in this document are to the best of our knowledge and based on sources cited therein. Your reliance or action shall be subject to appropriate due diligence to be undertaken by you, so that Johnson Controls is fully absolved of any liabilities thereto.

Price List

Villa	Total Price Supply & Installation* of UV Lights)	UV Lights Replacement after 18 Months
2 BR + Living Room	AED 2,650	AED 1,150
3 BR + Living Room	AED 3,300	AED 1,475
4 BR + Living Room	AED 3,950	AED 1,800

*Installation excludes limit switch, civil work, sheet metal work, concrete work, making or breaking wall
*Any extra cabling to provide power source near to FCU is extra charge

Contact our sales representative for more info

MEA Head Office 04 309 9999		
Rizwan Thaivalappil	rizwan.thaivalappil@jci.com	056 997 1437
Fayaz Parambil	fayaz.parambil@jci.com	054 586 6634
Mohammed Abdullalim	mohammed.tag.abdullalim@jci.com	050 189 7440
Sharinlal Kareem	sharinlal.kareem@jci.com	056 411 6277

The power behind your mission



Protecting people, workplace and environment

UVC Light

Poor IAQ causes 50% of sickness
- EPA

Good IAQ increases productivity up to 20%
- GBC

Poor IAQ reduces productivity by 10-20%
- OSHA

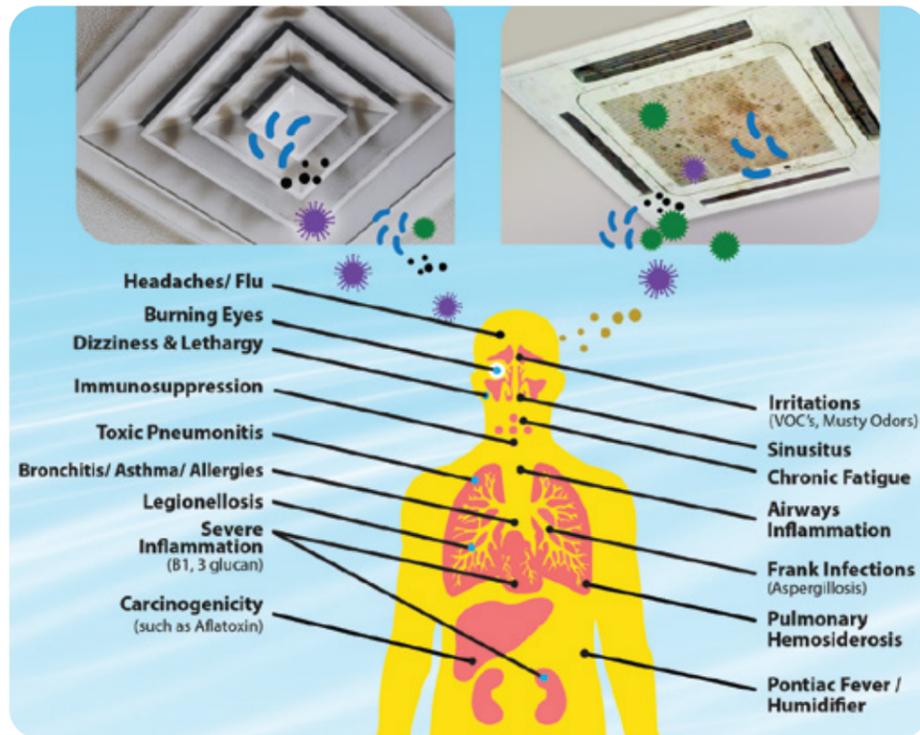
Good IAQ reduces absenteeism by 20-50%
- Case Studies

Improves IAQ | Reduces Sickness & Absenteeism | Increases Productivity

The power behind your mission



Indoor Air Quality Problems



Indoor Air Quality Facts



One in six people who suffer from allergies do so because of fungi and bacteria in air duct systems

- Total Health and Better Health Magazines



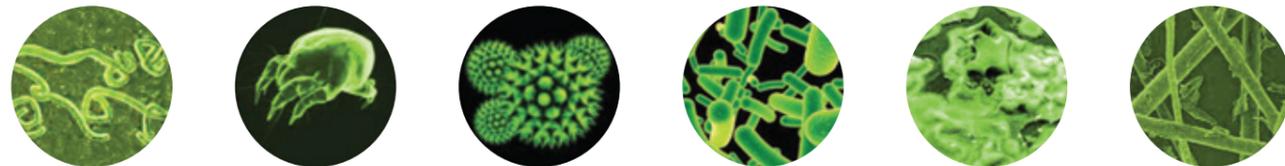
25 Million US people have asthma. Cost \$56 billion. 12.8 Million school days are missed due to asthma

- Center For Disease Control



Air pollution kills 3.3 million worldwide and it may double

- Nature Journal



UVC Technology

The main source of pollution in an air-conditioning system is the biofilm that grows in the cooling coil and releases mycotoxins and spores into the air stream. The air from the AC System also circulates the virus and bacteria contaminants brought into the building by people, and from the outside air.

A biofilm is a collection of microorganisms which adhere to each other, and the coil fins, producing a protective polysaccharide shell. Traditional cleaners are unable to fully penetrate the shell and therefore the biofilm is difficult to remove. The biofilm is a very poor conductor of heat and therefore inhibits the cooling efficiency of the coil.

UVC inactivates microbes, bacteria, viruses and mold by altering their DNA, destroying the organism's ability to reproduce, making it harmless, leaving no offspring and causing it to die.

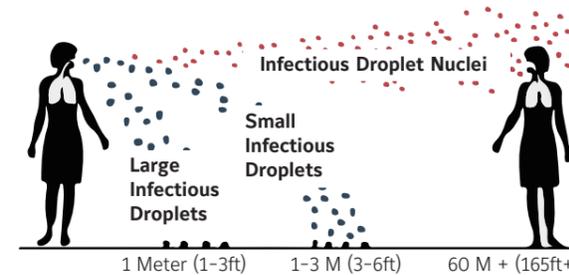
With the correct number of Emitters and UVC dose selected (according to the cooling coil size and airflow) **UVC Emitters will destroy up to 99%** of the airborne biological pollutants. It will also eliminate the mold that keeps the biofilm attached to the metal fins of the cooling coil. The dead mold detaches from the metal fins and is washed into the drain pan by the condensate, leaving the cooling coils clean.

Once the coil is cleaned by UVC, the coil performs as designed, and the chiller and fan operate less, thereby saving energy, typically 10-20% of the AC energy cost.

As the AC system in a typical commercial building uses 60% of the building's energy, a 10-20% reduction of AC energy usage has an overall saving of 6-12% in the building's overall electrical bill.

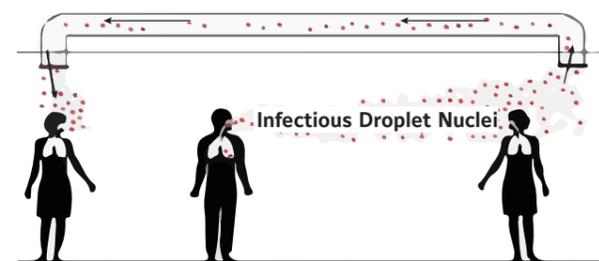
How it works

Infectious Droplet and Droplet Nuclei travel lengths:



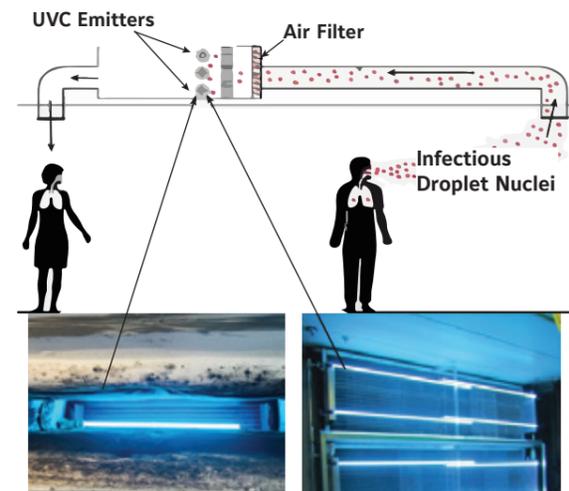
Note: Droplet Nuclei Viruses are below 0.3µ (microns) and typically in the millimicrons, they can Penetrate Deeply into the Human Lungs.

Building Ventilation System



Solutions

How UVC Emitters inactivate airborne Infectious Droplet Nuclei:



UVC Energy Fields generated in Air Conditioning systems create a barrier that destroys the Droplet Nuclei from Corona Virus, SARS, Measles and Influenza etc.

UVC Systems can be effective in the prevention of conditions that give rise to the development of viral transmissions and in promoting pandemic protection. Very high output UVC works by destroying the DNA and RNA of microorganisms that are prevalent in all type of transmittable viruses

The droplet nuclei for these viruses can remain airborne for hours or days depending on airflow and humidity (Virus micro - organism size is typically 10-500 millimicron - millimicrons = That's 1000th of micron). They can also enter the biofilms growing on cooling and potentially mutate unless is treated with UVC.

The C wavelength of the UV spectrum we use is (UVC- 253.7nm) this targets the DNA of microorganisms, destroying their cells and making replication impossible. Directed at a cooling coil or drain pan, UVC energy destroys surface biofilm, a gluey matrix of microorganisms that grows in the presence of moisture. Biofilm is prevalent in HVAC systems and leads to a host of indoor air quality (IAQ) and HVAC operational and efficiency problems. UVC also destroys airborne viruses and bacteria that circulate through an HVAC system.

For the most effective microbial control, by irradiating the contaminants at the source - the cooling coils and drain pans - UVC delivers simultaneous cleaning of surface microorganisms and destruction of airborne microorganisms.

The recirculating air in HVAC systems creates redundancy in exposing microorganism to UVC, ensuring multiple passes so the light energy is effective against large quantities of airborne microorganisms. UVC delivers the highest UVC output, removing biofilms from cooling coils driving HVAC system efficiency while improving indoor air quality.