

GET YOUR FREE SIZING REPORT AND PROPOSAL TODAY!

Please send us the following information for your free sizing report to move towards better Indoor Air Quality in your establishment today!



- Coil Width, Height, Thickness.
- Airflow.
- Preferred UltraCOIL™ location (upstream/downstream).
- Maximum distance available between coil and UltraCOIL™ UV unit.



- Duct dimensions (width, height).
- Maximum airflow through duct.
- Expected air temperature in supply / return.
- Specific organisms of concern (if any).



ABOUT ALFAA UV

Alfaa UV is the leading manufacturer of UV disinfection systems in India. With over 15 years experience in ultraviolet technology, a focus on quality, and over 5,000 installations Alfaa is the proven market leader. Alfaa UV has its own fully integrated manufacturing facility which caters to various UV applications such as process water, drinking water, and wastewater disinfection. Major markets include pharmaceutical, food & beverage, building services and municipal. Alfaa UV is based out of Mumbai and has a pan India presence with sales and service offices across the country. Alfaa UV systems are also exported to over 15 countries around the world.

Some of Our Firsts Include:

- India's largest Municipal drinking water UV system installed at the Commonwealth Games Village (New Delhi).
- Complete UVGI range with UL approval in both UL1995 + UL2043 categories.
- First and only Indian UV supplier with a specific range for the pharmaceutical industry with USFDA and ASME-BPE-2009 validations.



Alfaa UV Manufacturing Facility - Talegaon, India

Dedicated 15,000 sq. ft. integrated manufacturing facility producing UV systems for air and water. Highly controlled in-house CNC machine shop, weld shop, polishing and electro-polishing ensures reliable quality and speedy deliveries.



Alfaa UV Corporate Office - Mumbai, India

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STANDING OUT FROM THE CLUTTER: VALIDATED UV BASED AIR PURIFICATION SYSTEMS.

- ▶ AHU EVAPORATOR COIL CLEANING
- ▶ IN-DUCT HVAC DISINFECTION SOLUTIONS
- ▶ SMELL AND ODOR REMOVAL

ENSURE BETTER IAQ AND ENERGY SAVING WITH ALFAA UVGI EMMITTERS

Ultraviolet germicidal irradiation (UVGI) is a proven method for removing volatile organic compounds (VOCs), and for killing or deactivating bacteria, viruses, mould spores and other pathogenic microorganisms that may be present in room air.

YOUR PARTNER FOR BETTER AIR

HOSPITALS

UltraCoil & Ultra Duct systems destroy high levels of airborne and surface bio contaminants. Infections Acquired in Hospitals (HAI) can be a significant cost for the healthcare industry and is considered a preventable injury. Ultra IAQ systems are the ideal tool to help reduce nosocomial infections.

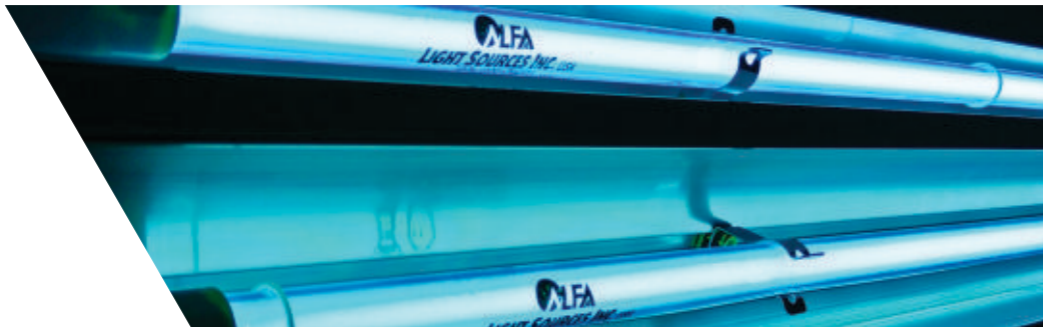
PHARMACEUTICAL, FOOD PROCESSING AND PRODUCE

Air quality and the risk of surface contamination play a vital role in pharma clean rooms, and in the production & packaging of food products. UV sterilization of both air and/or surface of product or packaging by Ultra IAQ UV systems can dramatically reduce possibility of contamination.

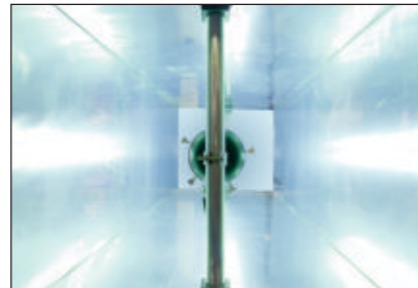
In fruit/vegetable markets it can extend the life of the produce by destroying the off gassing (i.e. ethylene) which causes faster aging.

COMMERCIAL SPACES, IT PARKS, AND SCHOOLS

A WHO report suggested up to 30% of new and remodeled buildings worldwide may be subject to complaints related to poor indoor air quality, the leading cause of "Sick Building Syndrome." According to the EPA, poor indoor air quality can directly affect the health of students, staff, employees, which in turn affect attendance and performance. Using Ultra IAQ UV systems significantly improves air quality resulting in lower absenteeism and higher efficiency.



APPLICATIONS AND BENEFITS OF ALFAA UV ULTRA IAQ RANGE OF UV AIR PURIFICATION SYSTEMS.



To save on rising energy costs, new buildings are tightly sealed, and modern ventilation systems recycle a large portion of the inside air. Whether a building is old or new, the same recirculated air is breathed again and again by the people working there. The problem is made worse by pollutants from furnishings, modern office equipment and supplies.

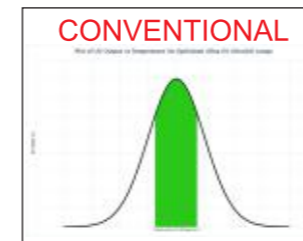
BETTER INDOOR AIR QUALITY: Greatly improve Indoor Air Quality by destroying harmful airborne contaminants such as bacteria, viruses, mould, and fungi which are responsible for "Sick Building Syndrome". Destroy thousands of airborne contaminants including viruses, bacteria, mold, allergens, germs, chemicals, smoke and VOCs.

GREATER SAVINGS: Maintain a clean evaporator coil saving time and resources on coil cleaning. Using MERV filters in conjunction with In-Duct UV systems can reduce the need for HEPA filters allowing for lower replacement costs and less static pressure.

ELIMINATE ODORS: Reduce or eliminate unpleasant odors which may result from outside air or recirculated air within the building.

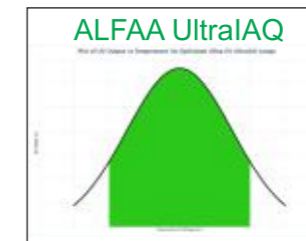
UNIQUE FEATURES OF THE ALFAA UV ULTRA HVAC RANGE OF UVGI EMMITTERS

TEMPERATURE OPTIMIZED LAMPS - WORK EVERYWHERE



Conventional System

- Limited temperature range.
- Working range: 30°C to 45°C
- Only for ambient air systems.



UltraDUCT™ and UltraCOIL™

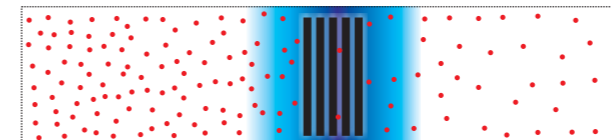
- Wide temperature range.
- 8°C to 55°C
- Very effective in cooling systems.

REALTIME UV VALIDATION - PERFORMANCE GUARANTEED



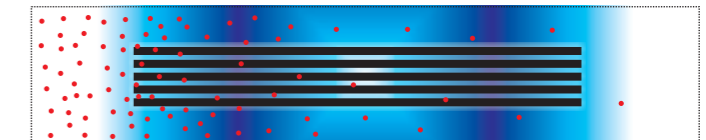
Alfaa UV UltraDUCT™ and UltraCOIL™ can be fitted with a highly accurate and selective UV radiometer which can measure and report back in realtime the UV dose and germ kill rate. This guarantees that your investment gives you the results you expect, and does not become another "showpiece" which is fitted but nobody knows if it is working or not.

SCIENTIFICALLY ENGINEERED LAMP POSITIONING TO PROVIDE OPTIMUM UV DOSE DELIVERY AND MAXIMUM KILL RATE



Conventional System

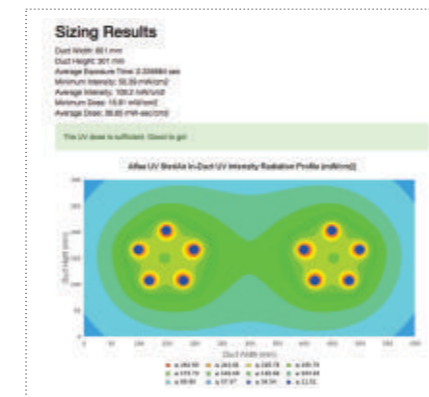
- Lamps perpendicular to airflow.
- Limited "Kill Zone" and low effectiveness.
- Limited lamp length/power options.



Specially Designed UltraDUCT™ System

- Lamps parallel to airflow.
- Large "Kill Zone" with high effectiveness.
- High flexibility in lamp powers and lengths to suit every application.

SCIENTIFICALLY DESIGNED - BY THE UNDISPUTED LEADERS OF UV TECHNOLOGY IN INDIA.

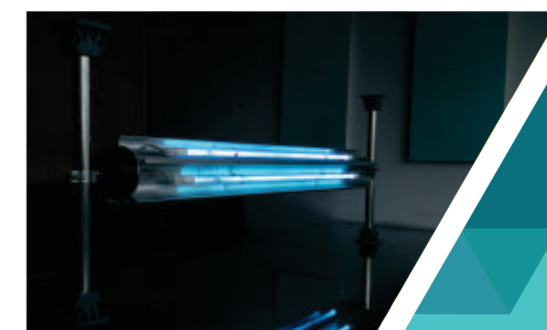


Example of Application Specific Sizing Report

Most conventional UV installers in HVAC systems overly rely on thumbrules and estimates in order to calculate the number of UV lamps and modules to use. Moreover, most have a very limited range of lamps to choose from, resulting in a often inefficient and ineffective design.

Each and every Alfaa UV UltraHVAC system is sized using our proprietary sizing tools which is based on our extensive computational flow dynamics (CFD) and UV radiation profile modeling data. The design is based on the actual site data and conditions and no "guesswork" is utilized.

This will ensure a proper working design in every single case, and ensure that the guaranteed performance will be archived.



Installing a UV system for air purification needs to be done scientifically, and in a technically sound manner.

Otherwise, it might be better not to install one at all.