

UV Air Treatment

UV Air Treatment Systems are Safe and Cost-Efficient

UV air treatment systems offer one of the safest and most cost-effective ways to purify the air and to remove and eliminate odors. These systems help industries and municipalities to comply with ever stricter regulations and standards and offer multiple advantages over traditional methods. Environmentally friendly, UV air treatment does not require harmful chemicals or create hazardous waste or byproducts. With the ability to inactivate and destroy a variety of airborne microbes, UV germicidal irradiation helps to prevent the transmission of airborne disease. UV air treatment systems are applicable in a broad range of environments including commercial, industrial, health care, education and residential.

Speak to an Engineer
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UV Air Treatment is the Best Solution for Many Applications

At LightSources and LightTech we recognize that maintaining clean, fresh air is essential to our collective well-being. As such, we are committed to designing, engineering and manufacturing some of the most technologically advanced UV lamps for air sterilization. One common use for the technology is in HVAC systems that can be a breeding ground for harmful organisms such as transmissible agents, bacteria, fungi, viruses, and spores. UV lamps also reduce manual maintenance and eliminate the need for cleaning the unit with harmful chemicals.

Other applications that benefit from safe and affordable UV air treatment systems are scientific labs and any setting that require the air to be free of "live" organisms. To work properly, a system requires germicidal wavelengths in the range of 254nm. This wavelength effectively penetrates the cell walls of microorganisms and destroys their DNA/RNA, thus rendering the organisms unable to reproduce.

Germicidal technology is also a popular choice for controlling odors produced by some industries. For this application, UVC lamps operate at various wavelengths, including 185nm which is required to produce ozone, to break down odors from VOC's such as ammonia, sulfides, and mercaptans.

With the combined resources of LightSources in the U.S. and LightTech in Europe, we are global leaders in the germicidal ultra-violet light industry. We partner with OEMs of any size to design, engineer and mass-produce new types of proprietary and specialty lamps cost-effectively and with short turnaround. Contact us for more details regarding our technological advanced UV air treatment systems.