

Ultraviolet Disinfection Lighting for Safer Spaces



Ultraviolet (UV) disinfection is good for business because it's very bad for pathogens. UV technology has been used for decades in a broad number of applications to kill viruses, bacteria, and mold.

- When used properly, UV light is safe. It is currently being used to disinfect drinking water, waste water, air, pharmaceutical products, and surfaces.
- Unlike traditional disinfection methods, UV light is a physical method for killing pathogens. Therefore, they don't build resistance to UV light like they can to chemical methods.
- A one-time investment in UV light disinfection technology can save you time and money for years by eliminating the maintenance and labor costs of other disinfection methods.

Key Industry Applications

- Airports
- Bus Terminals
- Trains & Stations
- Elevators
- Offices
- Retail/Grocery
- Hotels
- Theme Parks
- Museums
- Gyms
- Stadiums/Arenas
- Locker Rooms & Club Houses
- College & Universities
- Schools & Daycare
- Healthcare
- Warehousing & Manufacturing



Consider UV Disinfection for These Locations

Classrooms

UV-C lights installed with timers and motion sensors activate the lights in the middle of the night to disinfect spaces for the next day.

Hospitals, Casinos, Restaurants, and Hospitality

Air cleansing units can be retrofitted in existing light troffers to kill pathogens that would otherwise be inhaled. Mobile sterilization units can sanitize unoccupied spaces before/after use.

Public Entertainment

Narrow UV-C portal lights installed at entrances neutralize pathogens on people as they pass through.

Bathrooms

A far UV-C light paired with an occupancy sensor allows bathrooms to be disinfected three seconds after the user leaves.

Offices

UV-A light fixtures are well suited to occupied spaces and provide protection from bacteria and mold.

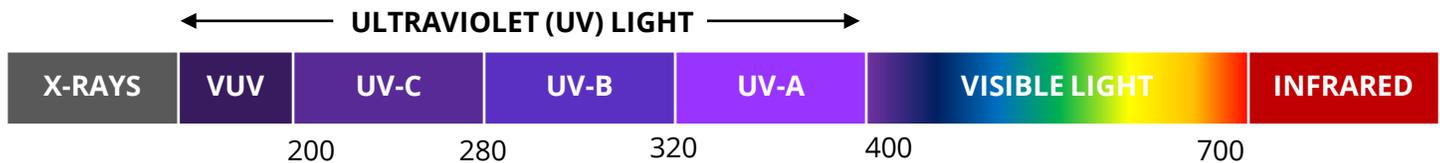
Warehousing & Manufacturing

Conveyor belts can be fitted with under mount UV-C disinfection lights to continuously sanitize. Cold cathode germicidal lamps are ideal for walk-in refrigerators and holding rooms.

More information about UV disinfection



Ultraviolet Light Disinfection Information



What is ultraviolet light?

Ultraviolet (UV) is wavelength of light that is not visible to the human eye. It is shorter than that of visible light but longer than X-rays.

How does UV light neutralize harmful pathogens?

The different subtypes of UV light work differently. UV-C light causes photochemical reactions in microbial DNA and RNA, resulting in inactivation and failure to reproduce. UV-A light causes oxidation of proteins and lipids, resulting in microbial cell death. Near UV blue light inhibits bacterial growth by prompting generation of reactive oxygen species which are toxic to bacterial cells.

Is UV disinfection safe?

UV disinfection lighting has undergone extensive testing for efficacy and safety and is regulated by the Environmental Protection Agency, the Food and Drug Administration, as well as the Occupational Safety and Health Administration. It has been safely used to disinfect drinking water in Europe for over 100 years, and sterilize juices in the U.S. for nearly 20 years. Like all disinfection methods, UV disinfection products must be used according to each manufacturer's specifications in order to be safe and get the full disinfection benefit.

Information based on:

Ultraviolet Light Disinfection in the Use of Individual Water Purification Devices, U.S. Army Public Health Command.

Safety Tips for Using Germicidal Lamps, Lawrence Berkeley National Laboratory



For a customized UV disinfection solution for your space, contact energysolutions@wesco.com.

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