
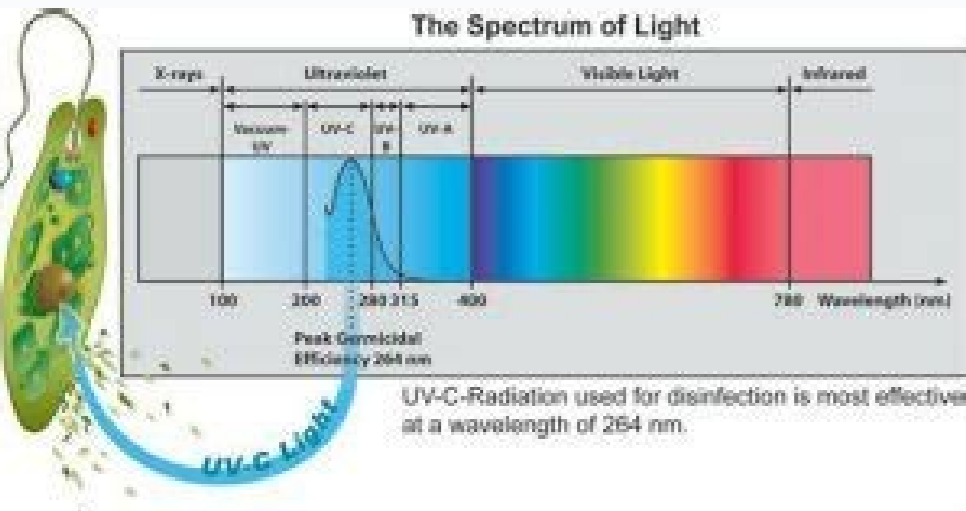
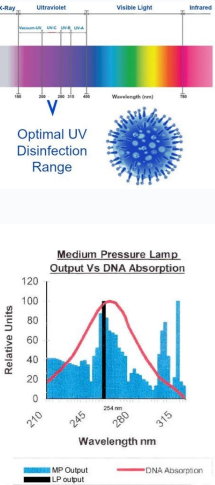
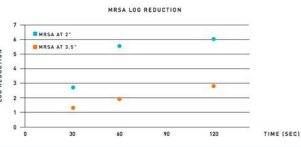
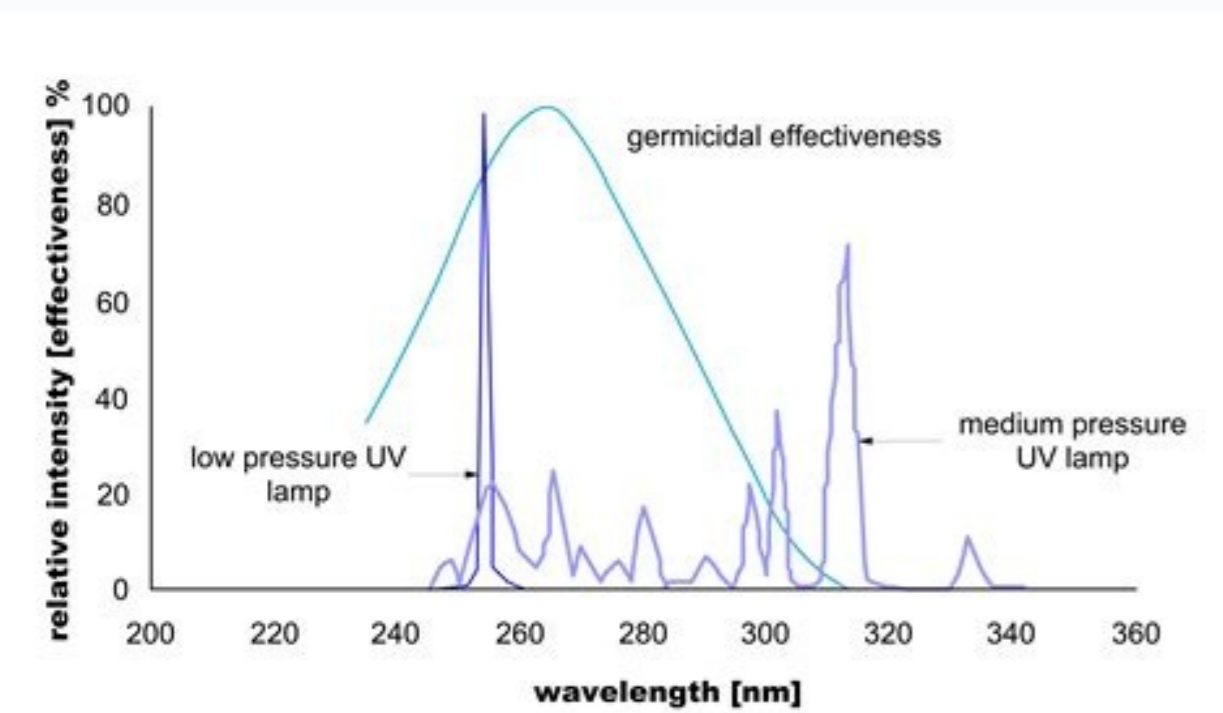


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# Ultraviolet light disinfection data sheet



Bacteria are generally easier to inactivate than viruses, with fungi and spores being harder to inactivate with UV. How UV works? Systems are available to disinfect high-contact rooms and areas, ambulances and other emergency service vehicles, ducts, tools and equipment within a disinfection chamber, continuous UV-C passage conveyors and many other applications. It has long been available for disinfection of the biologic security cabinet, water treatment in the home as well. With that, a UV-C treatment is worth less than two cents. Benefits Although there are definite limitations to UV-C disinfection technologies, there are also many benefits. Since UV-C provides radiation, it is not safe to be in the room while UV-C disinfection is taking place, these areas are blocked from UV light are known as shadow areas only. The force of UV-C light decreases as far away from the light source, following the law of the inverse square. Surfaces in these shaded areas do not receive adequate disinfection as UV light does not have the ability to reflect surfaces well. This ratio limits to what extent a single UV light source is effective before it is too dimmable to provide adequate disinfection. Surfaces can be blocked from light if there are objects along the way, as can a beach umbrella that offers protection from the sun. 5-2019 The cost of operating UV systems is very low, as the systems operate with regular wall sockets. Most systems do this by quantifying their UV-C output at a given distance and using that distance to generate treatment times. The use of UV has recently grown within the health industry to provide disinfection of the room in addition to the existing cleaning methods. The UV technology has advanced in recent years to be more reliable. UV-C is classified as "reasonably anticipated as carcinogenic to humans" by the National Toxicology Program. 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Bacteria and fungi contain DNA and are equally vulnerable to UV light. Ultraviolet light exists within the light spectrum between 10 and 400 nm. A single reduction of trunks is a reduction of 90% of organisms. This has made UV systems more viable for wider use. This range of UV light is absorbed by the DNA and RNA of the microorganisms, causing changes in the structure of the DNA and RNA, making the microorganisms unable to replicate. UV-C is blocked by a number of materials, including glass (but not quartz glass) and most transparent plastics, so it is possible to safely observe a UV-C system if you look through a window. What is UV effective against? UV bulbs also do not require special handling or removal, which makes the system a green alternative to chemical disinfectants. The UV dose is the product of the UV intensity [I] (expressed as energy per unit area) and the exposure time [T]. Shadow areas are usually treated by moving the UV light source to a second position to accommodate the disinfection of the blocked surfaces of the UV disinfection the first time. 5-2019 Our UV systems use low-pressure mercury arc germicidal lamps designed to produce the largest amounts of UV radiation, where 90% of the energy is normally generated at 254 nm. Since no chemicals are added to air/water, there are no process by-products to be considered. Due to its simplicity, UV-C disinfection is extremely easy to understand. With the long-standing use of UV for disinfection, there is a plethora of information regarding the doses needed to inactivate different microorganisms. 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This, together with the lack of chemical mixing, makes the preparation time quick to set up and start a UV-C disinfection cycle. Viruses contain RNA or DNA and are therefore susceptible to irradiation. The germicidal range of the UV is within the wavelengths of 100-280 nm, known as UV-C, with the maximum wavelength for the germicidal activity of 265 nm. UV light does not penetrate well into the organic materials, so to get the best results you must use UV-C after a standard room cleaning, remove the organic materials from the surfaces. Drawbacks Although UV radiation is effective in inactivating a wide range of microorganisms, there are limitations to its use. Tannery Road Suite 1, Branchburg, NJ 08A 876 Tel: (908) 236-4100 www.clordisys.com Rev. 5-2019 AppA© 1 A'HistA Rich Use of UV Light for Disinfection During the last 100 years science has recognized the bactericidal effects of ultra-violet electromagnetic spectrum. UV bulbs last thousands of hours at their maximum power, limiting the need for routine consumables to be changed and maintained. It provides a more all without products that are to disinfect soundproof materials that are traditionally only incompatible. It is not necessary to establish air flow patterns with UV-C as it will with a fog system. UV bulbs today have a useful life estimated in the thousands of hours. Therefore: DOSE = I x T This dose, sometimes called fluence, is expressed only as millijoules per square centimeter (mJ/cm2), (mJ/cm2).

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