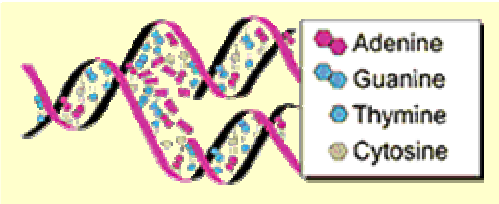
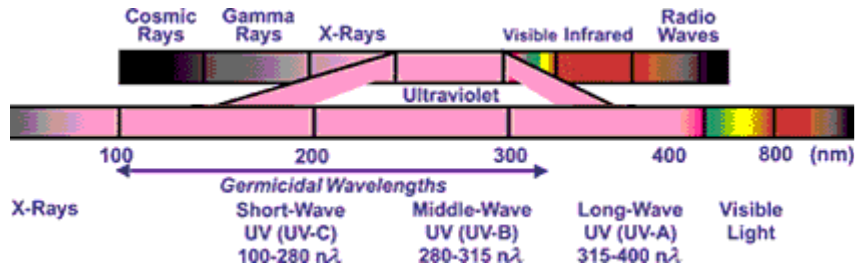


What is ultraviolet?

Ultraviolet light is part of the light spectrum, which is classified into three wavelength ranges:

- **UV-C**, from 100 nanometers (nm) to 280 nm
- **UV-B**, from 280 nm to 315 nm
- **UV-A**, from 315 nm to 400 nm.



What is germicidal ultraviolet?

UV-C light is germicidal - i.e., it deactivates the DNA of bacteria, viruses and other pathogens and thus destroys their ability to multiply and cause disease. Specifically, **UV-C** light causes damage to the nucleic acid of microorganisms by forming covalent bonds between certain adjacent bases in the DNA. The formation of such bonds prevent the DNA from being unzipped for replication, and the organism is unable to reproduce. In fact, when the organism tries to replicate, it dies.

What are the beneficial uses of germicidal uv?

Ultraviolet technology is a non-chemical approach to disinfection. In this method of disinfection, nothing is added which makes this process simple, inexpensive and requires very low maintenance. Ultraviolet purifiers utilize germicidal lamps that are designed and calculated to produce a certain dosage of ultraviolet (usually at least 16,000 microwatt seconds per square centimeter but many units actually have a much higher dosage.) The principle of design is based on a product of time and intensity - you must have a certain amount of both for a successful design.

DRINKING WATER APPLICATIONS

- under sink installs & water vending machines
- aircraft, boats & recreational vehicles
- water wells & water cisterns
- swimming pool & hot tubs
- farms, ranches & trailer parks
- schools & hotels
- aquarium, hatcheries and nurseries
- ice making

FOOD PROCESSING APPLICATIONS

- brewery & winery
- soft drinks, fruit drinks and juices
- bottling facilities
- dairy processing
- liquid sugars, sweeteners
- edible oils
- water based lubricants
- pure wash water

ENVIRONMENTAL APPLICATIONS

- **dust mite eradication**
- allergen elimination
- bacteria and virus disinfection

MEDICAL APPLICATIONS

- pharmaceutical production
- laboratories, hospitals and clinics
- maternity labor and delivery areas
- pathology labs, kidney dialysis
- animal husbandry

INDUSTRIES APPLICATIONS

- cosmetics and electronic production
- pond & lake reclamation
- laundry water