

What is Ultraviolet (UV) Light?

Ultraviolet (UV) rays are the wavelengths outside of the visible light portion of the electromagnetic spectrum ranging from 100nm-400nm. Broadspectrum UV rays are naturally occurring, and are emitted from the sun, but UVC gets absorbed in the ozone layer of earth's atmosphere.

Within the range of UV rays exists a range of rays called UVC (from 100 to 280 nanometers). These rays are medically categorized as germicidal, giving any rays in this range the ability to inactivate bacteria, viruses, fungi, and protozoa, including the coronavirus. Additionally, this technology is commonly used in water sterilization, medical facilities, and HVAC ducting at low power. It is environmentally friendly and chemical free.

How UV Works

When ultraviolet rays enter a cell, it disables the cell by damaging critical nucleic acids and proteins rendering the organism inactive or unable to reproduce.

	UVC	UVB	UV
_	100-280 nm	280-315 nm	315-400 nm
	Short	Medium	Long
	wavelength	wavelength	wavelength
	Germicidal	Photo therapy	Deep penetration

Three types of UV light within the electromagnetic spectrum





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