

## UV TECHNICAL DATA

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UV Works by penetrating the cell walls of Micro organisms  
And destroying their DNA.

It has a Kill rate greater than 99-99% and is effective against  
all Micro organisms including Bacteria, Viruses and their  
spores.

All UV Systems can be designed for continues running and  
the only regular maintenance required is checking /  
replacement of the UV – Emitting arc tube every 12 Months,  
This operation can be carried out by on – site maintenance  
Personnel Professional.

UV Light is visible to the human eye; it is part of the  
electromagnetic Spectrum that lies beyond the cells of the  
visible spectrum.

The ultraviolet UV spectrum has wavelength between 100  
and 400 nanometres spectrum is further.

Divided into wavelength ranges named UVA, UVB, and  
UVC.

UV germicidal irradiation is produced by low – pressure  
mercury lamps similar to florescent lamps without a Phosphor  
and with a quartz Bulb.

These lamps emit UV in the 200nm to 300nm range or that  
portion of the UV spectrum called UV-C. Also known as  
short wave UV it includes the target germicidal wavelength of  
254nm 95% of the relative intensity occurs at the discharge  
line of 254 nanometres proven to be the most effective in  
germicidal applications.