

UV Lamps

Shortwave UV (UVC) is considered as germicidal and virucidal. Specifically, UVC light causes damage to the nucleic acid of microorganisms by forming covalent bonds between certain adjacent bases in the DNA. Unlike many other types of decontamination agent, UV light does not leave any residue.



Model UV-15A

Technical Specifications

Model	UV-15A	UV-30A
Item Code	5170251	5170255
Wavelength	253.7 nm	
UV Output	30,000 $\mu\text{W}/\text{cm}^2$ in 12 minutes	
Diameter (T8)	1 inch (2.54 cm)	
Light Source	15 W	30 W

Microorganism UV Radiation Sensitivity Guide

Microorganism	Microwatt seconds per cm ² (μW/cm ²)
Mold spores	
<i>Penicillium roqueforti</i>	26, 400
<i>Penicillium expansum</i>	22, 000
<i>Penicillium digitatum</i>	88, 000
<i>Aspergillus glaucus</i>	88, 000
<i>Aspergillus flavus</i>	99, 000
<i>Aspergillus niger</i>	330, 000
<i>Rhizopus nigricans</i>	220, 000
<i>Mucor racemosus A</i>	35, 200
<i>Mucor racemosus B</i>	35, 200
<i>Oospora lactis</i>	11, 000
Yeasts	
<i>Saccharomyces ellipsoideus</i>	17, 600
<i>Saccharomyces cerevisiae</i>	13, 200
Brewer's yeast	6, 600
Baker's yeast	8, 800
Common yeast cake	13, 200
Bacteria	
<i>Streptococcus lactis</i>	8, 800
<i>Streptococcus hemolyticus α-type</i>	5, 500
<i>Staphylococcus aureus</i>	6, 600
<i>Staphylococcus albus</i>	5, 720
<i>Micrococcus sphaeroides</i>	15, 400
<i>Sarcina lutea</i>	26, 400
<i>Pseudomonas fluorescens</i>	7, 040
<i>Escherichia coli</i>	7, 040
<i>Proteus vulgaris</i>	7, 480
<i>Serratia marcescens</i>	6, 160
<i>Bacillus anthracis</i>	8, 700
<i>Bacillus subtilis</i>	11, 000
<i>Bacillus subtilis spores</i>	22, 000
<i>Spirillum rubrum</i>	6, 160
<i>Corynebacterium diphtheriae</i>	6, 500
<i>Legionella pneumophila</i>	3, 800
<i>Leptospira interrogans</i>	6, 000
<i>Salmonella enteritidis</i>	7, 600
<i>Salmonella typhosa</i>	6, 000
<i>Shigella dysenteriae</i>	4, 200
<i>Vibrio cholerae</i>	6, 500

Protozoa	
Paramecium	200, 000
Nematode eggs	
	40, 000
Algae	
	22, 000
Virus	
Bacteriophage	6, 000
Tobacco Mosaic	440, 000
Influenza	3, 400
Hepatitis	8, 000

Note: Shortwave UV (UVC) with wavelength at 253.7 nm can reach 30,000 $\mu\text{W}/\text{cm}^2$ in 12 minutes.

DOMINIQUE DUTSCHER SAS