

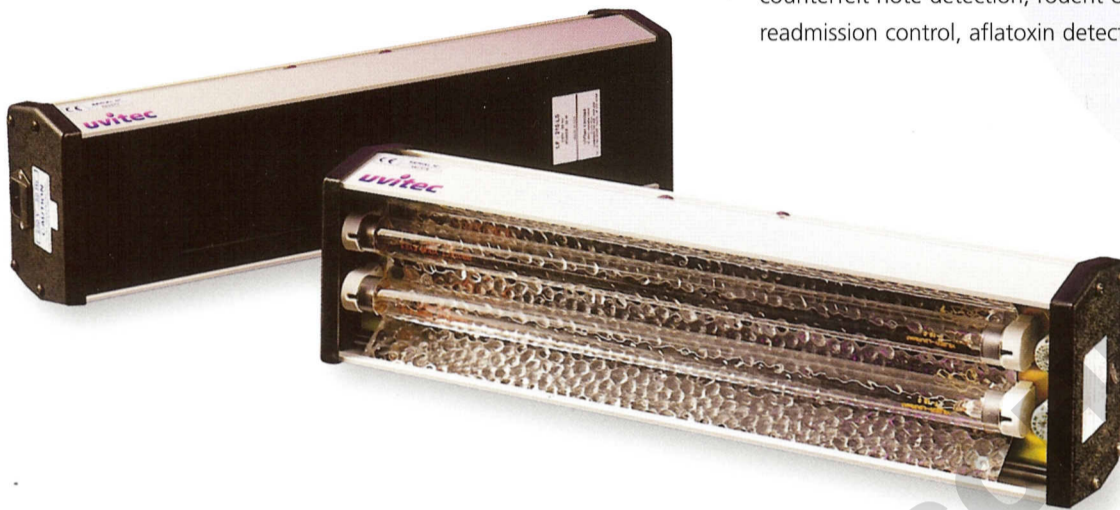
unfiltered ultraviolet lamps

Germicidal lamps

Widely used in medical and scientific research laboratories as well as in electronics and the food and beverage industries. Areas that must be kept free from bacterial contamination may be irradiated with UVlite germicidal lamps, provided safeguards are in place to protect operators.

The same range of lamps is available with either BL or BLB long-wavelength tubes:

BL (Blacklight) tubes are actinic ultraviolet type and include a white light component in the output.



Applications for BL lamps include:

Polymer curing, adhesive curing, dermatology, pharmacology, photoresist exposure.

BLB (Blacklight Blue) tubes are self-filtered cobalt glass – to reduce the visible light component and increase fluorescent contrast.

Applications for BLB lamps include:

Non-destructive testing, quality control, invisible coding/marketing, counterfeit note detection, rodent contamination detection, readmission control, aflatoxin detection, signature verification.

Germicidal radiation required for bacterial destruction

	Energy in mW-sec/cm ² Sterilisation up to			Energy in mW-sec/cm ² Sterilisation up to	
	90%	99%		90%	99%
Bacteria			Bacteria		
Bacillus anthracis	4.52	9.04	Pseudomonas	5.50	11.00
S. enteritidis	4.00	8.00	Pseudomonas fluorescens	3.50	7.00
B. megatherium sp.(veg.)	1.30	2.60	S. typhimurium	8.00	16.00
B. paratyphosus	3.20	6.40	Sarcina lutea	19.70	39.40
B. subtilis	7.10	14.20	Serratia marcescens	2.42	4.84
B. subtilis spores	12.00	24.00	Dysentery bacilli	2.20	4.40
Corynebacterium diphtheriae	3.37	6.74	Shigella paradysenteriae	1.68	3.36
Eberthella typhosa	2.14	4.28	Spirillum rubrum	4.40	8.80
Escherichia coli	3.00	6.00	Staphylococcus albus	1.84	3.68
Micrococcus candidus	6.05	12.10	Staphylococcus aureus	2.60	5.20
Micrococcus sphaeroides	10.00	20.00	Streptococcus hemolyticus	2.16	4.32
Neisseria catarrhalis	4.40	8.80	Streptococcus lactis	6.15	12.30
Phytomonas tumefaciens	4.40	8.80	Streptococcus viridans	2.00	4.00
Proteus vulgaris	2.64	5.28			

Note: The above table is only intended as a guide to bacterial destruction

Ordering

UVlite Unfiltered UV germicidal lamps 254nm			UVlite Unfiltered UV longwave lamps 365nm		
Model	No. Tubes	Intensity $\mu\text{W}/\text{cm}^2$	Model	No. Tubes	Intensity $\mu\text{W}/\text{cm}^2$
LI 206G	2 x 6W	1400*	LI 206BL	2 x 6W BL	1215*
LI 208G	2 x 8W	1800*	LI 208BL	2 x 8W BL	1400*
LI 215G	2 x 15W	76	LI 215BL	2 x 15W BL	108
LI 315G	3 x 15W	95	LI 315BL	3 x 15W BL	147
LI 220G	2 x 20W	95	LI 220BL	2 x 20W BL	129
LI 320G	3 x 20W	119	LI 320BL	3 x 20W BL	177
LI 230G	2 x 30W	152	LI 230BL	2 x 30W BL	228
LI 330G	3 x 30W	191	LI 330BL	3 x 30W BL	312
LI 240G	2 x 40W	157	LI 240BL	2 x 40W BL	302
LI 340G	3 x 40W	219	LI 340BL	3 x 40W BL	413
			LI 206BLB	2 x 6W BLB	1120*
			LI 208BLB	2 x 8W BLB	1300*
			LI 215BLB	2 x 15W BLB	100
			LI 315BLB	3 x 15W BLB	136
			LI 220BLB	2 x 20W BLB	119
			LI 320BLB	3 x 20W BLB	163
			LI 230BLB	2 x 30W BLB	210
			LI 330BLB	3 x 30W BLB	288
			LI 240BLB	2 x 40W BLB	279
			LI 340BLB	3 x 40W BLB	381

Intensities all at 1m except * at 15cm