

# Germicidal UVC Room Unit

THE STERILASER ROOM UNIT KILLS 99.5% OF ALL HARMFUL BACTERIA, FUNGI AND VIRUSES (INCLUDING COVID-19) IN MINUTES. UNIT PERFECT FOR GYMS, YOGA STUDIOS, LOCKER ROOMS, CLASS ROOMS, HEALTH CARE FACILITIES, LABORATORIES AND MORE.



**FASTEST/MOST EFFECTIVE WAY TO COMBAT PATHOGENS!**

## How Does UV Work?

Germicidal Ultraviolet light is absorbed by the DNA of microorganisms, causing changes in their structure, rendering the microorganisms incapable of replicating. A cell that can't reproduce is considered dead; since it is unable to multiply to infectious numbers within a host.

[www.highlandsfightgear.com/sterilaser-room-unit-basic-germicidal-uv-disinfection-system](http://www.highlandsfightgear.com/sterilaser-room-unit-basic-germicidal-uv-disinfection-system)



## FEATURES

Remote Activation allows safe early room entrance



Customer Set Timer delivers exact required treatment



Do Not Enter Sign included with every room unit



**STERILASER™**

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## DETERMINING TREATMENT TIME FOR ROOM SIZES

The STERILASER™ Room Unit is intended for use in UNOCCUPIED AREAS ONLY. Under no circumstances should this unit be permitted to operate with humans, plants or animals present in the Operation Area. Consult our UV Application Specialists if you have any questions or need help with the STERILASER™ Room Unit.

- 1) The STERILASER™ Room Unit should be located in the approximate center of the room and target surfaces must be directly exposed to the ultraviolet rays. It is important to remove items from direct line of sight that would block or shield UV rays from striking target surfaces. Depending on the configuration of the space, and what specific disinfection you are looking to achieve, it may be advisable to operate the STERILASER™ Room Unit on each side of large fixed objects (like a bed, or table, etc.).
- 2) Measure the longest distance from the STERILASER™ Room Unit to the farthest object to be disinfected. Use this length to compare to the distance from Fixtures / Time shown on Figure 1 below. If a greater dose is required, increase treatment time.

**NOTE THESE ARE SECONDS..... NOT MINUTES.**

**Figure 1 – Treatment Time and UV Dosage Based on Distance from Fixture – STERILASER™**

Distant to target STERILASER™ Output (mj/cm2)		5'	10'	15'	20'
		250	130	55	40
<b>Bacteria</b>	mj/cm2 to Deactivate	Minutes to Deactivate			
Agrobacterium lumefaciens	<b>8,500</b>	0.57	1.09	2.58	3.54
Bacillus anthracis (anthrax veg.)	<b>8,700</b>	0.58	1.12	2.64	3.63
Bacillus anthracis Spores (anthrax spores)	<b>46,200</b>	3.08	5.92	14.00	19.25
Bacillus megatherium Sp. (spores)	<b>5,200</b>	0.35	0.67	1.58	2.17
Bacillus megatherium Sp. (veg)	<b>2,500</b>	0.17	0.32	0.76	1.04
Bacillus paratyphosus	<b>6,100</b>	0.41	0.78	1.85	2.54
Bacillus subtilis	<b>11,000</b>	0.73	1.41	3.33	4.58
Bacillus subtilis Spores	<b>22,000</b>	1.47	2.82	6.67	9.17
Clostridium botulinum	<b>11,200</b>	0.75	1.44	3.39	4.67
Clostridium tetani	<b>23,100</b>	1.54	2.96	7.00	9.63
Corynebacterium diphtheriae	<b>6,500</b>	0.43	0.83	1.97	2.71
Dysentery bacilli	<b>4,200</b>	0.28	0.54	1.27	1.75
Eberthella typhosa	<b>4,100</b>	0.27	0.53	1.24	1.71
Escherichia coli	<b>6,600</b>	0.44	0.85	2.00	2.75
Legionella bozemanii	<b>3,500</b>	0.23	0.45	1.06	1.46
Legionella dumoffii II	<b>5,500</b>	0.37	0.71	1.67	2.29
Legionella gormanii	<b>4,900</b>	0.33	0.63	1.48	2.04
Legionella longbeachae	<b>2,900</b>	0.19	0.37	0.88	1.21
Legionella micdadei	<b>3,100</b>	0.21	0.40	0.94	1.29
Legionella pneumophila (Legionnaire's Disease)	<b>12,300</b>	0.82	1.58	3.73	5.13
Leptospira canicola-Infectious Jaundice	<b>6,000</b>	0.40	0.77	1.82	2.50
Leptospira interrogans	<b>6,000</b>	0.40	0.77	1.82	2.50
Micrococcus candidus	<b>12,300</b>	0.82	1.58	3.73	5.13
Micrococcus sphaeroides	<b>15,400</b>	1.03	1.97	4.67	6.42
Mycobacterium tuberculosis	<b>10,000</b>	0.67	1.28	3.03	4.17
Neisseria catarrhalis	<b>8,500</b>	0.57	1.09	2.58	3.54
Phytomonas tumefaciens	<b>8,500</b>	0.57	1.09	2.58	3.54
Proteus vulgaris	<b>6,600</b>	0.44	0.85	2.00	2.75
Pseudomonas aeruginosa (Environ. Strain)	<b>10,500</b>	0.70	1.35	3.18	4.38
Pseudomonas aeruginosa (Lab. Strain)	<b>3,900</b>	0.26	0.50	1.18	1.63
Pseudomonas fluorescens	<b>6,600</b>	0.44	0.85	2.00	2.75
Streptococcus faecalis	<b>10,000</b>	0.67	1.28	3.03	4.17
Streptococcus hemolyticus	<b>5,500</b>	0.37	0.71	1.67	2.29
Streptococcus lactis	<b>8,800</b>	0.59	1.13	2.67	3.67
Streptococcus pyrogenes	<b>4,200</b>	0.28	0.54	1.27	1.75
Streptococcus salivarius	<b>4,200</b>	0.28	0.54	1.27	1.75
Streptococcus viridans	<b>3,800</b>	0.25	0.49	1.15	1.58
Vibrio cholerae	<b>6,500</b>	0.43	0.83	1.97	2.71
Vibrio comma (Cholera)	<b>6,500</b>	0.43	0.83	1.97	2.71

Distant to target STERILASER™ Output (mj/cm2)		5'	10'	15'	20'
		250	130	55	40
<b>Molds</b>	mj/cm2 to Deactivate	Minutes to Deactivate			
Aspergillus amstelodami	<b>77,000</b>	5.13	9.87	23.33	32.08
Aspergillus flavus	<b>99,000</b>	6.60	12.69	30.00	41.25
Aspergillus glaucus	<b>88,000</b>	5.87	11.28	26.67	36.67
Aspergillus niger (black mold)	<b>330,000</b>	22.00	42.31	100.00	137.50
Mucor mucedo	<b>77,000</b>	5.13	9.87	23.33	32.08
Mucor racemosus (A & B)	<b>35,200</b>	2.35	4.51	10.67	14.67
Oospora lactis	<b>11,000</b>	0.73	1.41	3.33	4.58
Penicillium chrysogenum	<b>56,000</b>	3.73	7.18	16.97	23.33
Penicillium digitatum	<b>88,000</b>	5.87	11.28	26.67	36.67
Penicillium expansum	<b>22,000</b>	1.47	2.82	6.67	9.17
Penicillium roqueforti	<b>26,400</b>	1.76	3.38	8.00	11.00
Rhizopus nigricans (cheese mold)	<b>220,000</b>	14.67	28.21	66.67	91.67

<b>Virus</b>		mj/cm2 to Deactivate		Minutes to Deactivate	
Adeno Virus Type III	<b>4,500</b>	0.30	0.58	1.36	1.88
Bacteriophage	<b>6,600</b>	0.44	0.85	2.00	2.75
COVID-19	<b>6,160</b>	0.41	0.79	1.87	2.57
Coxsackie	<b>6,300</b>	0.42	0.81	1.91	2.63
Infectious Hepatitis	<b>8,000</b>	0.53	1.03	2.42	3.33
Influenza	<b>6,600</b>	0.44	0.85	2.00	2.75
Rhodospirillum rubrum	<b>6,200</b>	0.41	0.79	1.88	2.58
Rotavirus	<b>24,000</b>	1.60	3.08	7.27	10.00
Salmonella	<b>10,500</b>	0.70	1.35	3.18	4.38
Salmonella enteritidis	<b>7,600</b>	0.51	0.97	2.30	3.17
Salmonella paratyphi (Enteric Fever)	<b>6,100</b>	0.41	0.78	1.85	2.54
Salmonella Species	<b>15,200</b>	1.01	1.95	4.61	6.33
Salmonella typhi (Typhoid Fever)	<b>7,000</b>	0.47	0.90	2.12	2.92
Salmonella typhimurium	<b>15,200</b>	1.01	1.95	4.61	6.33
Sarcina lutea	<b>26,400</b>	1.76	3.38	8.00	11.00
Serratia marcescens	<b>6,160</b>	0.41	0.79	1.87	2.57
Shigella dysenteriae - Dysentery	<b>4,200</b>	0.28	0.54	1.27	1.75
Shigella flexneri - Dysentery	<b>3,400</b>	0.23	0.44	1.03	1.42
Shigella paradysenteriae	<b>3,400</b>	0.23	0.44	1.03	1.42
Shigella sonnei	<b>7,000</b>	0.47	0.90	2.12	2.92
Spirillum rubrum	<b>6,160</b>	0.41	0.79	1.87	2.57
Staphylococcus albus	<b>5,720</b>	0.38	0.73	1.73	2.38
Staphylococcus aureus (MRSA)	<b>6,600</b>	0.44	0.85	2.00	2.75
Staphylococcus epidermidis	<b>5,800</b>	0.39	0.74	1.76	2.42

