

CD ClorDiSys

"Infection Prevention from A to UV"

Providing you with UV solutions for your disinfection needs

Torch-Double Flex

Description:

The Torch- Double Flex is an easy to move, ultraviolet light (UV-C) generator designed for use in any healthcare, pharmaceutical, manufacturing, laboratory, or research setting. Ultraviolet light is used to provide a rapid and highly effective method to disinfect items and surfaces to reduce the transfer of dangerous organisms. The key advantage Torch-Double Flex provides is a UV-C output from two flexible arms to target multiple surfaces or items that are unable to be properly accessed utilizing traditional cleaning methods or traditional ultraviolet light disinfection systems.

The Torch-Double Flex produces an efficient UVC output of 21 mJ/cm² per minute at 4 ft. and 3 mJ/cm² per minute at 10 ft. Therefore it is capable of achieving a calculated 99% reduction of MRSA in 20 seconds and *Clostridium difficile* in less than 15 minutes. Each arm of the Torch-Double Flex offers a 180° radius of options to set the arm to prior to disinfection. The arm can be held at any angle to provide disinfection; angles under 90° provide better coverage of areas such as the underside of tables, beds, and equipment, and a 90° angle (parallel to the ground) provides excellent coverage to the top side of tables, beds, and other equipment less than 46" in height.

Features:

Efficacy:

- The Torch-Double Flex contains four protected UV-C bulbs, one on the top and one on the bottom each flexible arm, to provide increased disinfection coverage.
- Each flexible arm has a 180° turning radius and can be set and held at any angle to provide disinfection of surfaces in difficult to reach locations.
- The Torch-Double Flex's UV-C output was validated using two independent UV-C Sensors, the Solar Light Company's PMA1122 Germicidal UVC Sensor and the General UV512C Digital UVC Meter.

Operation:

- Easily operated with minimal training.
- No chemicals to store and handle.
- Simple manual timer to set disinfection time.
- Arms are moveable to be moved to any angle to ensure efficacy.

Safety:

- The Torch-Flex arm is housed behind a protective frame when not in use.
- The Torch-Flex utilizes a delay timer to activate the bulbs after the exposure timer is set.



Specs:

Overall Dimensions:

46"H x 18"D x 12"W

Weight: 57 lbs

Power:

115 VAC, 60 Hz, 4 Amps

UV-C Output: Approx. 21 mJ/cm² per minute at 4 ft. and 3 mJ/cm² per minute at 10 ft



Disinfection Length Timer



P.O. Box 549, Lebanon, NJ 08833-0549 Tel: (908) 236-4100 Fax: (908) 236-2222

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UV Dose Required (mJ/cm²) to Achieve a Given Log Reduction*

	1-Log (90%)	2-Log (99%)	3-Log (99.9%)	4-Log (99.99%)	5-Log (99.999%)	Reference
Spore						
Bacillus anthracis spores - Anthrax spores	24.32	46.2				Light Sources Inc. 2014
<i>Bacillus subtilis</i> ATCC6633	24	35	47	79		Mamane-Gravetz and Linden 2004
Bacterium						
Bacillus anthracis - Anthrax	4.52	8.7				Light Sources Inc. 2014
<i>Campylobacter jejuni</i> ATCC 43429	1.6	3.4	4	4.6	5.9	Wilson et al. 1992
<i>Clostridium tetani</i>	13.0	22.0				Light Sources Inc. 2014
<i>Corynebacterium diphtheriae</i>	3.37	6.51				Light Sources Inc. 2014
<i>Escherichia coli</i>	3.0	6.6				Light Sources Inc. 2014
<i>Escherichia coli</i> O157:H7	1.5	3	4.5	6		Tosa and Hirata 1999
<i>Klebsiella pneumoniae</i>	12	15	17.5	20		Giese and Darby 2000
<i>Legionella pneumophila</i>	1.9	3.8	5.8	7.7	9.6	Oguma et al. 2004
<i>Mycobacterium tuberculosis</i>	6.2	10.0				Light Sources Inc. 2014
<i>Pseudomonas aeruginosa</i>	5.5	10.5				Light Sources Inc. 2014
<i>Salmonella enteritidis</i>	5	7	9	10		Tosa and Hirata 1998
<i>Salmonella typhosa</i> - Typhoid fever	2.15	4.1				Light Sources Inc. 2014
<i>Shigella dysenteriae</i> - Dysentery	2.2	4.2				Light Sources Inc. 2014
<i>Staphylococcus aureus</i> ATCC25923	3.9	5.4	6.5	10.4		Chang et al. 1985
<i>Vibrio comma</i> - Cholera	3.375	6.5				Light Sources Inc. 2014
Molds						
<i>Aspergillus flavus</i>	60.0	99.0				Light Sources Inc. 2014
<i>Aspergillus niger</i>	132.0	330.0				Light Sources Inc. 2014
<i>Mucor racemosus</i> A & B	17.0	35.2				Light Sources Inc. 2014
Viruses						
Adenovirus type 15	40	80	122	165	210	Thompson et al. 2003
Adenovirus type 2	20	45	80	110		Shin et al. 2005
Bacteriophage - E. Coli	2.6	6.6				Light Sources Inc. 2014
Calicivirus canine	7	15	22	30	36	Husman et al. 2004
Calicivirus feline	7	16	25			Husman et al. 2004
Coxsackievirus B5	9.5	18	27	36		Gerba et al. 2002
Hepatitis A	5.5	9.8	15	21		Wiedenmann et al. 1993
Hepatitis A HM175	5.1	13.7	22	29.6		Wilson et al. 1992
Influenza	3.4	6.6				Light Sources Inc. 2014
Poliovirus 1	8	15.5	23	31		Gerba et al. 2002
<i>Staphylococcus aureus</i> phage A 994	8	17	25	36	47	Sommer et al. 1989

***The Torch-Flex provides 21 mJ/cm² per minute at 4' distance and 3 mJ/cm² per minute at 10'**



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