

once®

Once

BioShift®

Pass-Through UV-C Chamber



- A recommended one minute cycle time inactivates SARS-CoV-2
- Provides an effective disinfection option where no other methods exist
- Digital LCD display with count-down timer and lamp maintenance log
- Heavy-duty stainless-steel chamber
- Easy-to-use, one button operation
- Chemical-free disinfection

This product is for industrial / laboratory use only.

Effectively protect against bacteria and viruses with UV-C

The BioShift Pass-Through UV-C Chamber is an eco-friendly and cost-effective tool that uses ultraviolet C (UV-C) light sanitation to inactivate viruses and other pathogens. The BioShift chamber's UV-C light fixes key vulnerabilities found on everyday items like cell phones, keyboards and more by eliminating the pathogen's ability to multiply.

Easy to use

Before entering a bio-secure area, simply place your items into the BioShift chamber through the "street" or dirty side. Then, after exposing the items to UV-C light for a recommended time of five minutes, they can be removed on the "bio-secure" or clean side.

Learn more on our website:
www.once.lighting/uv-c

Adaptable design

The BioShift Pass-Through UV-C Chamber is available in a small and large size. The small chamber is ideal for small-scale use, limiting the import of pathogens through everyday items like cell phones, food, while the larger chamber is great for disinfecting a higher volume of objects.

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Electrical Specifications

Product	Input Voltage	Operating Power / Current	Standby Power / Current	Germicidal Bulbs / Lamps
BioShift® UV-C Chamber (small)	110V / 60 HZ	110W / 1 A	6W / 128 mA	20W (4 UV-C lamps)
	240V / 50/60 HZ	115W / 550 mA	8.6W / 98 mA	
BioShift® UV-C Chamber (large)	110V / 60 HZ	785W / 7.2 A	19W / 175 mA	40W (18 UV-C lamps)
	240V / 50/60 HZ	755W / 3.3 A	21W / 158 mA	

Dimensions

Product	Outside Mechanical Dimensions	Inside Mechanical Dimensions
BioShift® UV-C Chamber (small)	23 L x 29.5 W x 23.6 H inches (585 L x 750 W x 600 H mm)	20.9 L x 19.5 W x 19.5 H inches (530 L x 495 W x 495 H mm)
BioShift® UV-C Chamber (large)	46.5 L x 30 W x 72 H inches (1180 L x 762 W x 1828 H mm)	44.1 L x 21.1 W x 66.7 H inches (1119 L x 535 W x 1695 H mm)

General

Weight	Small = 125 lbs. (57 kg) / Large = 375 lbs. (170 kg)
Timer Setting	5:00 minutes
Output	254 nm UV-C
Initial minimum irradiance	250 mJ/cm ² (300 seconds, cold start)
Operating	41°F (5°C) to 104°F (40°C) temperature, Max humidity 80% up to 88°F (31°C), 50% at 104°F (40°C)
Storage	-20°F (-28°C) to 140°F (60°C) temperature, 10-95% humidity

Ordering Information

Product	Catalog Code	12NC
BioShift Pass-Through Small Chamber Single Tray Unit	24-0200	929002100322
BioShift Pass-Through Large Chamber Four Tray Unit	24-0201	929002100323

Certifications

Conforms to UL STDs 61010-1 & 61010-2-040
 Certified to CSA STDs C22.2#61010-1-12 & 61010-2-040
 ROHS compliant
 California Pro 65
 EPA registered Pesticidal Device
 EN 61326-1: 2013
 FCC 47 CFR Part 18 [2019 Edition]
 (all Models except 24-0230 which is exempt for Agriculture)
 EN61010-1:2010+A1:2019
 IEC61010_2_040B
 IEC 62471 – Exempt Group
 IP50 Rating



How it works

There are two factors that directly influence the effectiveness of UV-C disinfection: time of exposure and UV-C radiance (intensity). In laboratory testing, Signify's UV-C light sources inactivated SARS-CoV-2 virus on a surface in as few as 9 seconds.¹

The table on the right shows the effectiveness of typical one-minute and five-minute exposure times in the BioShift® chambers at the minimum dose (mJ/cm²) to kill 99.99% of a selected group of bacteria and viruses.

For evidence supporting critical dose data contact: info@onceteam.com

- Nadia Storm et al., Rapid and complete inactivation of SARS-CoV-2 by ultraviolet-C irradiation, 2020. Subject to peer review and available only as a pre-print at <https://www.researchsquare.com/article/rs-65742/v2>. The UV-C irradiance used in this study was 0.849 mW/cm².
- This data is determined from: <https://www.iuva.org/resources/Resource%20Documents/Malayeri-Fluence%20Required%20to%20Achieve%20Incremental%20Log%20Inactivation%20of%20Bacteria,%20Protozoa,%20Viruses%20and%20Algae.pdf> according to the highest reported dose within clade.

Common name	Scientific name	Pathogen type	4-log disinfection dose (mJ/cm ²)	Recommended exposure time to eliminate pathogens ²	
				1-minute	5-minutes
Covid-19	SARS-CoV-2	Virus	22	✓	
Flu	Influenza	Virus	14	✓	
Common Cold and Pink Eye	Adenovirus	Virus	165	▪	✓
Foot & Mouth Disease	Picornaviridae Aphthovirus	Virus	125	▪	✓
Rotavirus	Rotavirus	Virus	200	▪	✓
Staph	Staphylococcus aureus	Bacteria	11	✓	
Ecoli	Escherichia coli	Bacteria	23	✓	
TB	Mycobacterium tuberculosis	Bacteria	24	✓	
Salmonella	Salmonella	Bacteria	8	✓	
Anthrax	Bacillus anthracis	Bacteria	106		✓

▪ Some strains can be eliminated in 1 minute, recommend 5 for all.



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