

Project		Catalog #		Type	
Prepared by		Notes		Date	



Cooper Lighting Solutions

GUV Chamber

Pass-Through Germicidal UV Chamber

Typical Applications

Banks • Hotels • Industrial • Scientific Lab • Corporate / Office • Retail • Restaurants • Entertainment • Agriculture

Interactive Menu

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- Product Warranty
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- Pathogen Inactivation [page 4](#)

Product Certification



Benefits



Top Product Features

- One minute cycle eliminates SARS-CoV-2 and many more pathogens
- Easy-to-use, one button operation with digital LCD count-down timer and life tracker
- Chemical-free, no residue, no mess
- Ruggedized shelving supports heavy items

Protection against bacteria and viruses using the power of light



Trusted

35 years experience in UV-C lighting with strong application expertise.



Effective

Proven to eliminate bacteria, mold, mildew, and viruses.



Fast

Disinfects in minutes.



Versatile

Can be used with hard and soft goods in many different applications.

Simple. Secure.

The GUV Chamber is an eco-friendly and cost-effective tool that uses UV-C disinfection to eliminate viruses and other pathogens. The chamber features an easy-to-use one-button operation with various safety and security features. Magnetic door latches ensure it is securely closed during use, while a count-down timer displays how much time is left in the chosen disinfection cycle. In case of an emergency, an Emergency Stop button is conveniently located on either side of the chamber to interrupt the cycle as needed.

Adaptable Design

The GUV Chamber is available in two sizes, large and small. The small chamber is ideal for eliminating pathogens from everyday items like mobile phones, eyeglasses, shared tools, documents and many more. The large chamber is a higher power option great for entrances with high volume, large and heavy objects such as tool sets, clothing, and for batch disinfection of numerous items simultaneously.

Product Specifications

UV-C/Germicidal UV (GUV)

- 20W (small chamber) or 40W (large chamber) UV-C lamps included
- Utilizes 4 (small chamber) or 18 (large chamber) lamps operating at 254nm wavelength
- GUV is proven to eliminate harmful pathogens including mold, fungi, bacteria and viruses

Construction

- Die formed stainless steel chassis provides strength and durability for years of reliable service
- Highly polished aluminum waste tray and reflective liner included in chamber
- Rugged shelving slots for light to heavy and oversized item support
- Hinge and latch door design with lockout for safe, easy chamber access
- Tempered glass window, located on the door, contains UV-C within the chamber
- Removable stainless steel drip tray at bottom of unit

Mounting

- Floor mount (large) or atop a structural base that supports the gross weight of the chamber
- Small chamber includes mounting brackets for wall installation
- Optional recessed installation, see installation instructions

Electrical

- 120-240V electronic ballast at 50/60 Hz, quantity varies by chamber size
- Removable ballast plate provides easy electrical compartment access
- Cord and plug included with Small Chamber only; use with 20A rated branch circuit connection
- For large chamber, use 15A (120V) or 10A (230V) minimum circuit breaker

Warranty

- Two year warranty provided by Once. For technical and warranty support go to info@onceteam.com

Control and Operation

- Easy on/off one-button operation
- Safety shut-off with visible Emergency STOP button
- Digital color touch-screen LCD display controller with count-down timer
- Multiple control, operation and maintenance options including programmable cycle and sleep timers

Compliance and Certification

- cETLus / CE listed
- Conforms to UL STDs 61010-1 & 61010-2-040
- Certified to CSA STDs C22.2#61010-1-12 & 61010-2-040
- For dry locations and indoor use only

Warnings and Safety

- DANGER: Risk Group 3 UV product. Lamps emit high-power UV radiation that can cause severe injury to skin and eyes. Avoid eye and skin exposure.
- UV-C may degrade plastic and rubber components after long-term exposure
- Chamber cannot be used to disinfect the surfaces of medical devices (such as surgical masks and/or surgical respirators)

Ordering Information

Product	SKU	UPC
GUV Chamber, Pass-Through <i>Small Unit</i>	CHB-GUV-2-KEY-S	080083159703
GUV Chamber, Pass-Through <i>Large Unit</i>	CHB-GUV-2-KEY-L	080083159710
UVC Dosimeter Test Card <i>10 pack</i>	DOSIMETER-10PK	080083174263

Electrical Specifications

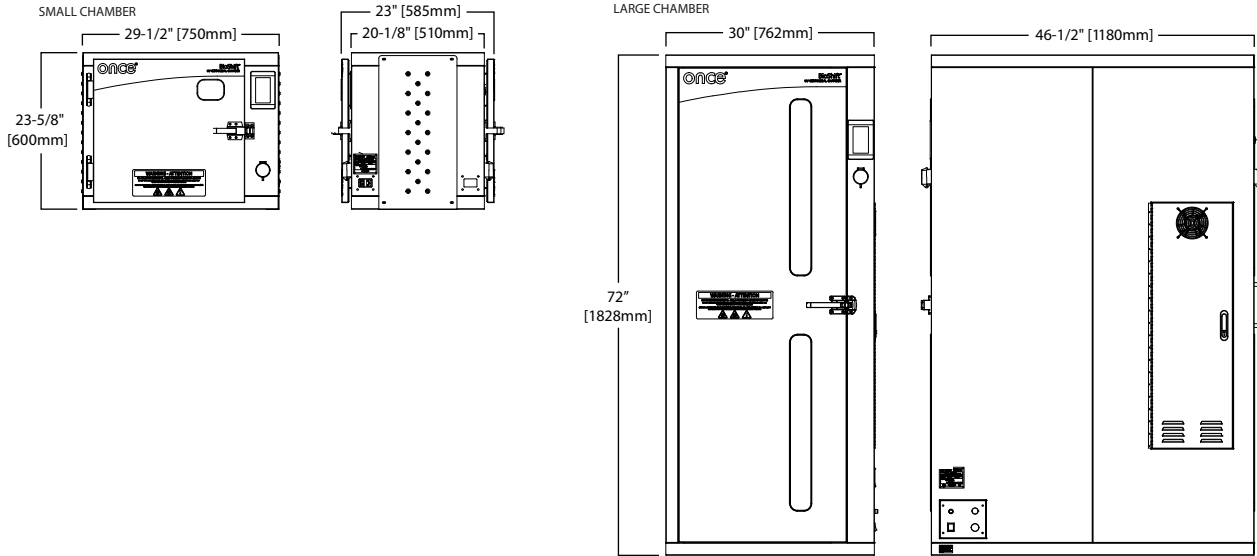
Product	Input Voltage	Operating Power / Current	Standby Power / Current	Germicidal Bulbs / Lamps
GUV Chamber - Small	110V / 60 HZ	110W / 1 A	6W / 128 mA	20W UV-C Lamps (4X)
GUV Chamber - Small	240V / 50/60 HZ	115W / 550 mA	8.6W / 98 mA	20W UV-C Lamps (4X)
GUV Chamber - Large	110V / 60 HZ	785W / 7.2 A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

Operational Details

Time Setting	Ranges from 10 seconds to 60 minutes
Output Wavelength	254 nm UV-C
Initial Minimum Dosage	250 mJ/cm ² (based on cold start and five minute run time)
Operation Limits	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 Limits	-20°F (-28°C) to 140°F (60°C) temperature, 10-95% humidity

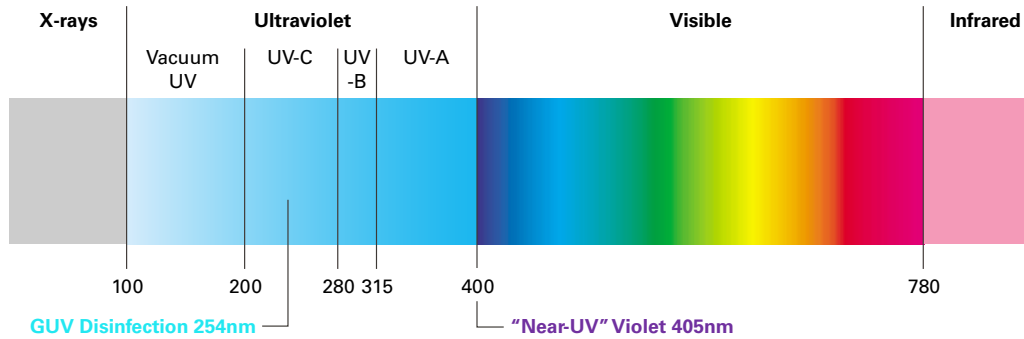
Dimensional and Mounting Details

Product	Outside Dimensions	Inside Dimensions	Weight
GUV Chamber - Small	23 x 29.5 x 23.6 inches (585 x 750 x 600mm)	20.9 x 19.5 x 19.5 inches (530 x 495 x 495mm)	125 lbs. (57 kg)
GUV Chamber - Large	46.5 x 30 x 72 inches (1180 x 762 x 1828mm)	44.1 x 21.1 x 66.7 inches (1119 x 535 x 1695mm)	375 lbs. (170 kg)



UV-C GUV Education

- GUV is a proven and effective disinfection technology.
- GUV refers to short-wavelength ultraviolet "light" outside of the visible spectrum that is proven to kill bacteria and inactivate viruses...FAST! These short wavelengths in the photobiological UV spectral band known as "UV-C" are centered at 254nm, which is the optimal source wavelength for eliminating pathogens.
- GUV is an excellent surface and air disinfectant due to its quick germicidal efficacy.
- Germicidal effectiveness is determined by the exposure dose irradiance (how much) and time (how long).
- GUV can pose a safety and health hazard to the eyes and skin if the product is improperly used or installed.
- Follow recommended practices for utilization and control of GUV fixtures and products.



Recommended 4-log (99.99%) Inactivation Time in the Chamber

Common Name	Scientific Name	Pathogen Type	4-log disinfection dose (mJ/cm ²)	Recommended time to eliminate pathogen ⁽¹⁾	
				1 Minute	5 Minutes
Covid-19	SARS-COV-2	Virus	22	✓	
Flu	Influenza	Virus	14	✓	
Norovirus	Norovirus	Virus	11	✓	
Common Cold and Pink Eye	Adenovirus	Virus	165	see Note (2)	✓
Foot and Mouth Disease	Picornaviridae Aphthovirus	Virus	125	see Note (2)	✓
Staph	Staphylococcus aureus	Bacteria	11	✓	
Ecoli	Escherichia coli	Bacteria	23	✓	
TB	Mycobacterium tuberculosis	Bacteria	24	✓	
Salmonella	Salmonella enteritidis	Bacteria	8	✓	
Leptospirosis	Leptospira	Bacteria	10	✓	
Legionnaires disease	Legionella Pneumonia	Bacteria	7	✓	
Salmonella	Salmonella typhimurium	Bacteria	32		✓
Anthrax	Bacillus anthracis	Bacteria	93		✓
Ringworm	Dermatophytosis	Fungus	56		✓

Notes: (1) Some Strains can be eliminated in 1 minute, recommend 5 for all. (2) 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.

For technical and warranty support go to info@onceteam.com

Disclaimer: The effectiveness of the Cooper Lighting Solutions GUV Chamber in the inactivation of certain viruses, bacteria, protozoa, fungi or other harmful micro-organisms is as described in the product documentation. Cooper Lighting Solutions does not promise or warrant that the use of the GUV Chamber will protect any user from or prevent infection and/or contamination with any viruses, bacteria, protozoa, fungi, illness or disease. The GUV Chamber is not approved and/or certified as a medical device by the FDA or any other regulatory body. As such, the GUV Chamber is not intended for and must not be used for medical purposes. In addition to and without limitation of any exclusions or limitations of liability of Cooper Lighting Solutions as set forth in any agreement for the sale, distribution or otherwise making available of the GUV Chamber, Cooper Lighting Solutions shall have no responsibility or liability whatsoever for any claim or damage that may arise from or relate to any use of the GUV Chamber outside of its intended use as described in the product documentation.