



- *Effective egg disinfection*
- *Easy-to-use, one button operation*
- *Specialized tray fits standard egg carriers*
- *Inactivates microorganisms in a recommended 5 min.*
- *Pass-through chamber deactivates the DNA*
- *Designed for safety and ease of operation*

An Effective Egg Sanitation Solution

The BioShift UV-C Chamber for Egg Sanitation Chamber is an Eco-Friendly biosecurity tool designed with a specialized tray that fits standard egg carriers for effective egg disinfection. The BioShift chamber's UV-C light fixes key vulnerabilities found on eggs by eliminating the pathogen's ability to multiply and spread disease.

How it works

There are two factors that directly influence the effectiveness of UV-C disinfection: time of exposure and light intensity.

Testing by a nationally recognized laboratory specializing in antimicrobial, biocidal and viricidal effectiveness showed that five minutes of exposure to UV-C radiation in the BioShift chamber resulted in the elimination of >99.999% of common agricultural viruses.

Adapts to your facility

The BioShift UV-C Chamber for Egg Sanitation Chamber allows for easy loading/unloading of eggs from either side of the machine and can be utilized as a pass-through window if desired.

Electrical Specifications

Product	Input Voltage	Operating Power / Current	Standby Power / Current	Germicidal Bulbs / Lamps
BioShift® UV-C Chamber - Small	110V / 60 HZ	105W / 910 mA	7W / 130 mA	20W (4 UV-C lamps)
BioShift® UV-C Chamber - Small	240V / 50/60 HZ	117W / 580 mA	9W / 98 mA	20W (4 UV-C lamps)
BioShift® UV-C Chamber - Large	110V / 60 HZ	860W / 7.2 A	19W / 158 mA	40W (18 UV-C lamps)
BioShift® UV-C Chamber - Large	240V / 50/60 HZ	960W / 4.2 A	21W / 175 mA	40W (18 UV-C lamps)

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/cm² (300 seconds, cold start)
Operating	65°F (18°C) to 105°F (40.5°C) temperature, 10–95% humidity
Storage	-20°F (-28°C) to 140°F (60°C) temperature, 10–95% humidity
Rating	IP Rating 50 equivalent

How it works

There are two factors that directly influence the effectiveness of UV-C disinfection: time of exposure and UV-C radiance (intensity). Testing by a nationally recognized laboratory specializing in antimicrobial, biocidal and viricidal effectiveness showed that five minutes of exposure to UV-C radiation in the BioShift chamber resulted in the elimination of >99.99% of common viruses and bacteria. In laboratory testing, Signify's UV-C light sources inactivated 99% of SARS-CoV-2 virus on a surface with an exposure time of 6 seconds¹.

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

For more critical dose data, please contact our technical support at info@onceteam.com.

¹Data made available to us by the National Emerging Infectious Diseases Laboratories (NEIDL) at Boston University (to be the subject of a forthcoming scientific publication) shows that Signify's UV-C light sources irradiating the surface of a material inoculated with SARS-CoV-2 (the virus that causes the COVID-19 disease) resulted in a 99% reduction of the SARS-CoV-2 virus at a UV-C dose of 5mJ/cm² (exposure time 6 seconds). This study further determined that a 99.9999% reduction of the SARS-CoV-2 virus would result from applying a UV-C dose of 22mJ/cm² (exposure time 25 seconds). Research variables are available upon request.

Ordering Information

	SKU
BioShift UV-C Chamber for Egg Sanitation <i>Single Egg Rack Holder</i>	24-023
Replacement Lamp 20W <i>Small Egg Sanitation Chamber</i>	26-0054
BioShift UV-C Chamber for Egg Sanitation <i>Four Egg Rack Holders</i>	Coming soon!
Replacement Lamp 40W <i>Large Egg Sanitation Chamber</i>	24-0055
Replacement Ballast (110-277V)	26-0052

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



Typical five-minute exposure in the BioShift® UV-C chamber

Pathogen	Classification	Critical dose at 4-log disinfection (mJ/cm²)	Chamber effectiveness in 5-min
Adenovirus type 15	Virus	165	x
Bacillus anthracis spores - Anthrax spores	Bacteria	93	x
Candida	Fungi	92	x
Clostridium tetani	Bacteria	44	x
Salmonella typhimurium	Bacteria	32	x
Calicivirus feline	Virus	30	x
Giardia lamblia	Protozoa	27	x
Porcine Epidemic Diarrhea	Virus	25	x
PRRS	Virus	23	x
Influenza	Virus	14	x
Staphylococcus aureus	Bacteria	11	x
Salmonella enteritidis	Bacteria	11	x
Cryptosporidium parvum	Bacteria	10	x
Legionella pneumophila	Protozoa	10	x
Rabies virus	Bacteria	10	x
Escherichia coli - O157:H7	Bacteria	7	x
Campylobacter jejuni	Virus	5	x
Canine Parvovirus	Virus	3	x
Bovine Coronavirus (BCV)	Virus	3	x



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