

# Kill viruses & pathogens with BioShift® UV-C systems

## once® a Signify company

### BioShift® Pass-Through UV-C Chambers

#### Sterilise

- Footwear
- Mobile phones
- Personal belongings
- Devices
- Tools

#### Features:

- Kills viruses in 5 minutes
- Easy to use one button operation
- 4 trays for high traffic entrance
- Heavy duty and hygienic stainless steel construction
- Maximises Bio-security protocols
- High powered & reliable



BioShift® Pass-Through UV-C Chamber - Small



BioShift® Pass-Through UV-C Chamber - Large

## Guarantee Bio-security Compliance

The BioShift® Pass-Through UV-C Chamber is a vital tool to use alongside established bio-security protocols. It is designed to fix key vulnerabilities within healthcare and industrial facilities, while enhancing protocols by killing viruses and other pathogens in a recommended time of 5 minutes, before they can enter your facility.

#### Effective

The BioShift® chamber uses ultraviolet C (UV-C) germicidal radiation, which provides a cost-effective and immediate way of deactivating the DNA in bacteria and viruses by destroying their ability to multiply and cause disease. There are two factors that directly influence the effectiveness of UV-C disinfection: time of exposure and light intensity. The amount of time UV-C is exposed to any given pathogen is proportional to the rate of elimination.

#### Fast

Testing by a recognised laboratory specialising in antimicrobial, biocidal and virocidal effectiveness showed that exposure of UV-C radiation in the BioShift® chamber for five minutes resulted in elimination of >99.99% of common viruses.

#### Adapts to Your Facility

The BioShift® chamber is available in two sizes. The large chamber is made with four trays and is great for facilities or entrances with a higher volume of people coming and going every single day.

The small chamber is perfect for individual use and limiting the import of pathogens through everyday items like mobile phones, footwear, devices and tools.

## BioShift® Pass-Through UV-C Chamber Specifications

	Small Chamber	Large Chamber
Input Voltage	110-240V / 50/60 HZ	110-240V / 50/60 HZ
Operating Power / Current	80W / 670 mA	520W / 5.20 A
Standby Power / Current	7W / 100 mA	20W / 300mA
Germicidal Bulbs / Lamps	20W (4 UV-C lamps)	40W (18 UV-C lamps)
Outside Mechanical Dimensions	29.5 L x 23 W x 23.6 H inches (750 L x 584 W x 600 H mm)	44.1 L x 21.1 W x 66.7 H inches (1119 L x 535 W x 1695 H mm)
Inside Mechanical Dimensions	20.9 L x 19.5 W x 19.5 H inches (530 L x 495 W x 495 H mm)	30 L x 46.5 W x 72 H inches (762 L x 1180 W x 1828 H mm)
Weight	110 lbs. (50 kg)	397 lbs. (180 kg)
Timer Setting	59 minutes, 59 seconds	
Output	254 nm UV-C	
Initial minimum irradiance	250 mJ/cm <sup>2</sup> (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	

## Ordering Information

	SKU
BioShift® Pass-Through Small Chamber <i>Single Tray Unit</i>	24-0200
Replacement Lamp 20W <i>Small Chamber</i>	26-0053
BioShift® Pass-Through Large Chamber <i>Four Tray Unit</i>	24-0201
Replacement Lamp 40W <i>Large Chamber</i>	26-0055
Replacement Ballast	26-0052

## 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 recognised laboratory specialising 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.

The table below shows the effectiveness of a typical five-minute exposure in the BioShift® chambers and the minimum dose (mJ/cm<sup>2</sup>) to kill 99.99% of a selected group of bacterias and viruses.\*

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

Pathogen	Classification	Critical dose at 4-log disinfection (mJ/cm <sup>2</sup> )	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
Porcine Respiratory and Reproductive Syndrome	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

\* For more critical dose data, please contact our technical support at bioshift@ggls.co.uk.