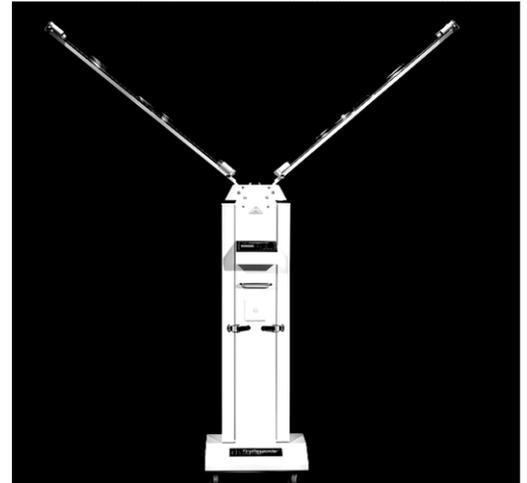


Catalog #	Description/Content	Quantity	Related Products	Catalog #
E500UV-CT	SteriZAP™ UV-C Room Sterilizer, 110V	1 Unit	SteriZAP™ Sterilizer, 110V	E4110FRS
			SteriZAP™ Mobile Gear Sterilizer	E600PCM
			SteriZAP™ UV-C Desktop Sterilizer, 110V	E500UV-CD
			SteriZAP™ Handheld UV-C Sterilizer, 110V	E500UV-CH
			SteriZAP™ Duffle Bag Sterilizer, medium	E600DBM
			SteriZAP™ Duffle Bag Sterilizer, large with wheels	E600DBLW

INTRODUCTION

UV light is electromagnetic radiation with wavelengths shorter than visible light. UV can be separated into various wavelength ranges, with the short-wavelength UV, or UV-C considered to be germicidal. Furthermore, and at the specific wavelength range of 260 to 270 nm, UV-C is found to be mutagenic to bacteria, viruses and other microorganisms. Germicidal UV-C kills or inactivates microorganisms by destroying their nucleic acids and disrupting their DNA, leaving them unable to perform vital cellular functions.

The SteriZAP™ UV-C Room Sterilizer harnesses the germicidal power of UV-C light, in particular in the 254 nm wavelength. This unit uses shortwave UV lamps that emit ultraviolet light with the major peak output (~90%) band at 253.7 nm. The doped fused quartz glass tubes of the SteriZAP™ lamps pass the 254 nm radiation (which produces very low ozone levels) but blocks the 185 nm wavelength (which produce higher ozone levels). The SteriZAP™ UV-C Room Sterilizer is intended for use in disinfection of surfaces in laboratories, hospital rooms, food-processing areas, or any other places where disinfecting and sterilizing are desired.



Specifications	
Electrical Specifications	120 volts AC, 60 Hz.
Unit Dimensions (W x D x H)	16 x 13.5 x 46.75 inches (40.6 x 34.3 x 118.75 cm)
Lamp Power	30 W per lamp (4 lamps total)
UV Output / Dosage	≥ 428 μW/cm ²
Weight	44 lbs (20 kg)
Operating Modes	2 or 4 lamps at a time, 15-minute increments up to 23 hours 45 minutes.
Safety Feature	Motion sensor shut-off.
Warranty	1 year

PRECAUTIONS AND WARNINGS

- (a) **Read all instructions before using the devices. Use of these devices is only for intended purposes as described in this manual.**
- (B) **DO NOT ATTEMPT TO OPERATE THE STERIZAP™ UV-C STERILIZER WHEN AND WHERE PEOPLE AND ANIMALS ARE PRESENT AND DIRECTLY EXPOSED TO UV-C LIGHT.**
- (C) **FOR SAFE AND PROPER OPERATIONS, DO NOT TAMPER WITH THE UNITS IN ANY WAY.**
- (d) The SteriZAP™ UV-C Sterilizer emits a small amount of ozone gas when operating, which may give off a little bit of odor. This is normal, but to avoid eliminate this odor if needed, briefly aerate the room after using the sterilizers.
- (e) Do not operate the device if the cord or plug is damaged, if it is not working properly, or if the unit has been damaged or dropped.
- (f) Do not store the device outdoors, or use it near open water– for example near filled sinks or water baths.
- (g) Do not attempt to repair or open the unit unless you are a qualified repair technician.
- (h) To avoid injury, handle broken lamps carefully by using protective hand, body, face, and eyewear. Dispose of broken glass in specialized sharps containers and obey all applicable country and city laws.

Note and Disclaimer

*The SteriZAP™ UV-C Sterilizer is not a replacement or substitute for good cleaning practices. Areas to be sterilized must be free of excess contaminants, especially any visible liquids or solids (for example bodily fluids, debris or dirt). The SteriZAP™ sterilizer can eliminate residual surface contaminants, especially bacterial and fungal, but only if the UV-C light is able to directly impact the contaminated surfaces. **Any surfaces or items that are covered or are behind curtains, glass panels or plastic sheeting will not be sterilized by the SteriZAP™ UV-C unit.** Genlantis makes no claims and offers no guarantees of any kind that the SteriZAP™ UV-C Sterilizer will eliminate 100% of all contaminants and under all possible circumstances. For best results, users should closely follow the recommended instructions below.

DOSAGE RECOMMENDATIONS

Different germs and contaminants are susceptible to UV-C radiation at different rates. To determine the amount of time needed for sterilization, consult Table 1 on Page 3.

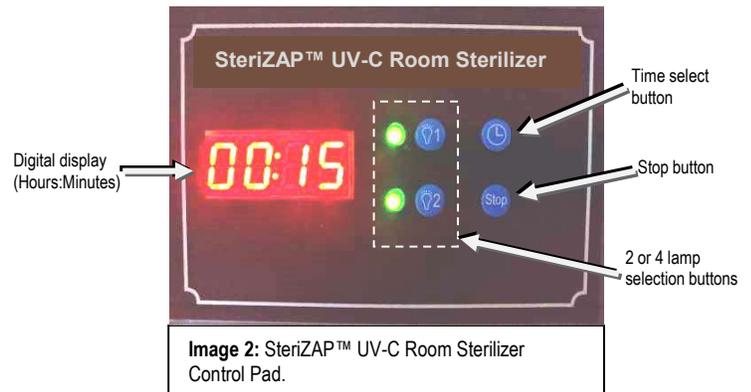


SAFETY NOTIFICATION:

UV-C radiation can damage the superficial tissues of the eye, and care must be taken to avoid excessive exposures to eyes. Glass or plexiglass eyewear or face mask can provide protection in case the motion sensor safety shut off malfunctions. Also, extended exposure of exposed skin to UV-C make cause damage to cellular or tissue DNA and should be avoided by wearing protective clothing while near operating UV-C lamps.

OPERATION

1. Select area to be sterilized and place the SteriZAP™ UV-C Room Sterilizer in the most central area, or nearest to the most contaminated area. Pre-clean the area if excessive contamination is present.
2. Unlatch the two side compartments and pull the lamps out using the built-in arm handles. Rotate the arms up to position them at the desired angles. For low or ground level sterilization, keep arms near the horizontal position. For standard bench surfaces, a 45° angle from vertical would be the most effective.
3. Plug power cord into wall outlet; the digital display will undergo a brief count up and the digital display will show a colon (:) only.



4. Press the Time Select Button  however many times needed to set the correct time. The Time Select Button moves in 15-minute increments, so for a 1-hour sterilization period, press the Time Select Button four times.
5. To activate either the left or right arm only (2 or 4 lamps mode), press either the  or the  button until green light turns off.
6. Once desired selections are finished, the units will beep and users will have 10 seconds to exit the room or area; after this brief delay, the UV lights will automatically turn on.
NOTE: The unit is equipped with a motion sensor that will shut it off immediately after detecting movement. The unit will automatically turn back on 15 seconds after movement stops. To prematurely end sterilization cycles, press the Stop  button.
7. Use copies of page 4 of this manual and affix to the entry ways of the area being sterilized.
8. Once the sterilization cycle is finished, the SteriZAP™ UV-C Room Sterilizer will beep for about 10 seconds and the digital display will show a colon only.

MAINTENANCE

The SteriZAP™ UV-C Room Sterilizer is very low maintenance unit and does not require any scheduled or regular cleaning.

- (a) Keep unit clean by wiping exterior surfaces with a water dampened towel. To avoid damage, do not use any detergents or solvents.
- (b) Do not touch UV-C lamps with bare hands, they will heat up during operation and cause oil or dirt from fingers to leave burn marks and may cause unpleasant smells. Handle UV-C lamps with gloved hands only.
- (c) For optimal performance, keep lamps clean by wiping them occasionally with a dry soft or microfiber cloth.
- (d) Unplug the units from the power outlet when the units are in storage or not in use.

SteriZAP™ UV-C Room Sterilizer Manual

Table 1: UV-C dosage and SteriZAP™ UV-C Room Sterilizer Kill Times

Organism	Ultraviolet radiation (dose) in µWs/cm ² needed for kill factor:		SteriZAP™ UV-C Room Sterilizer 99% Kill Times (in minutes)
	90% (1 log reduction)	99% (2 log reduction)	
Bacteria			
<i>Bacillus anthracis</i> - Anthrax	4,520	8,700	0.3
<i>Bacillus anthracis</i> spores - Anthrax spores	24,320	46,200	1.8
<i>Bacillus magaterium</i> sp. (spores)	2,730	5,200	0.2
<i>Bacillus magaterium</i> sp. (veg.)	1,300	2,500	0.1
<i>Bacillus paratyphus</i>	3,200	6,100	0.2
<i>Bacillus subtilis</i> spores	11,600	22,000	0.9
<i>Bacillus subtilis</i>	5,800	11,000	0.4
<i>Clostridium tetani</i>	13,000	22,000	0.9
<i>Corynebacterium diphtheriae</i>	3,370	6,510	0.3
<i>Ebertelia typhosa</i>	2,140	4,100	0.2
<i>Escherichia coli</i>	3,000	6,600	0.3
<i>Leptospiracanicola</i> - infectious Jaundice	3,150	6,000	0.2
<i>Micrococcus candidus</i>	6,050	12,300	0.5
<i>Micrococcus sphaeroides</i>	1,000	15,400	0.6
<i>Mycobacterium tuberculosis</i>	6,200	10,000	0.4
<i>Neisseria catarrhalis</i>	4,400	8,500	0.3
<i>Phytomonas tumefaciens</i>	4,400	8,000	0.3
<i>Proteus vulgaris</i>	3,000	6,600	0.3
<i>Pseudomonas aeruginosa</i>	5,500	10,500	0.4
<i>Pseudomonas fluorescens</i>	3,500	6,600	0.3
<i>Salmonella enteritidis</i>	4,000	7,600	0.3
<i>Salmonella paratyphi</i> - Enteric fever	3,200	6,100	0.2
<i>Salmonella typhosa</i> - Typhoid fever	2,150	4,100	0.2
<i>Salmonella typhimurium</i>	8,000	15,200	0.6
<i>Sarcina lutea</i>	19,700	26,400	1.0
<i>Serratia marcescens</i>	2,420	6,160	0.2
<i>Shigella dysenteriae</i> - Dysentery	2,200	4,200	0.2
<i>Shigella flexneri</i> - Dysentery	1,700	3,400	0.1
<i>Shigella paradysenteriae</i>	1,680	3,400	0.1
<i>Spirillum rubrum</i>	4,400	6,160	0.2
<i>Staphylococcus albus</i>	1,840	5,720	0.2
<i>Staphylococcus aureus</i> MRSA	2,600	6,600	0.3
<i>Staphylococcus hemolyticus</i>	2,160	5,500	0.2
<i>Staphylococcus lactis</i>	6,150	8,800	0.3
<i>Streptococcus viridans</i>	2,000	3,800	0.1
<i>Vibrio comma</i> - Cholera	3,375	6,500	0.3
Molds	90% (1 log reduction)	99% (2 log reduction)	99% Kill Times (in minutes)
<i>Aspergillus flavus</i>	60,000	99,000	3.9
<i>Aspergillus glaucus</i>	44,000	88,000	3.4
<i>Aspergillus niger</i>	132,000	330,000	12.9
<i>Mucor racemosus</i> A	17,000	35,200	1.4
<i>Mucor racemosus</i> B	17,000	35,200	1.4
<i>Oospora lactis</i>	5,000	11,000	0.4
<i>Penicillium expansum</i>	13,000	22,000	0.9
<i>Penicillium roqueforti</i>	13,000	26,400	1.0
<i>Penicillium digitatum</i>	44,000	88,000	3.4
<i>Rhizopus nigricans</i>	111,000	220,000	8.6
Protozoa	90% (1 log reduction)	99% (2 log reduction)	99% Kill Times (in minutes)
<i>Chlorella Vulgaris</i>	13,000	22,000	0.9
Nematode Eggs	45,000	92,000	3.6
Paramecium	11,000	20,000	0.8
Virus	90% (1 log reduction)	99% (2 log reduction)	99% Kill Times (in minutes)
Bacteriophage - E. Coli	2,600	6,600	0.3
Infectious Hepatitis	5,800	8,000	0.3
Influenza	3,400	6,600	0.3
Poliovirus - Poliomyelitis	3,150	6,600	0.3
Tobacco mosaic	240,000	440,000	17.1
Yeast	90% (1 log reduction)	99% (2 log reduction)	99% Kill Times (in minutes)
Brewers yeast	3,300	6,600	0.3
Common yeast cake	6,000	13,200	0.5
<i>Saccharomyces carevisiae</i>	6,000	13,200	0.5
<i>Saccharomyces ellipsoideus</i>	6,000	13,200	0.5
<i>Saccharomyces</i> spores	8,000	17,600	0.7



CAUTION

UV sterilization in progress

Do NOT open door or enter area until this sign is removed

Name: _____

Date: _____

Time Sterilization Cycle Started: _____

Expected Cycle Completion: _____