

SMALL ARTICLE UV SANITIZER UNIT

TYPE: UV-SAS300

FEATURES:



- ❑ Designed for the purpose of Sanitization of Gadgets / Masks / Laptop bags/ Office Files/ Food products / Small objects / Tools from COVID-19 or similar Virus / Bacteria
- ❑ Designed using UVC Type lamps to deliver total 44 / 64W of power in 4Pi Geometry
- ❑ Sensitive Inside volume – 300x300x200mm Approx.
- ❑ Dual Tray Design specifically designed for Hospital Users for sterilization of Face Shields and face masks
- ❑ In enhanced sterilization mode upto 99.9999% of Covid-19, MRSA, H1N1 and other viruses present on solid and non-porous surfaces can be destroyed.
- ❑ Micro-switch for Auto-Cutoff of UV Lamps on detection of Door opening
- ❑ 220V AC Operated unit

Technical Data

Nucleonix Systems' a high technology Instrumentation company, with its vast design experience in the field of Nuclear Instrumentation, has taken up the mission to develop and introduce equipment for combating COVID-19. As part of this mission, **Small Article UV Sanitizer Unit Type UV-SAS300_11/16** has been developed and made available for combating the COVID-19 where large movement of material / people are expected.

UV germicidal irradiation (UVGI) is a well-known **Inactivation technology**. Of all the technologies available, UV irradiation is superior, as it is non-contacting type, to sanitize various household and office articles, gadgets. It effectively damages DNA/RNA of the viruses; thereby damaged organisms cannot replicate. This UV sanitization technology is useful for air, all types of surfaces of gadgets, water treatment etc. It kills variety of viruses, bacteria, fungi etc, including COVID-19

SMALL ARTICLE UV SANITIZER UNIT, Type: UV-SAS300_11/16 manufactured by Nucleonix Systems is designed to address the critical threat of transmission of COVID-19 through contaminated objects Gadgets / Masks / Food products / Small objects / Tools, etc. in Hospitals, Commercial Establishments, Hotels, Retail outlets and Individual Residences.

This Unit is designed for Sanitizing / Sterilization of Food, Objects, Tools, etc. which could have probably been exposed to COVID-19 virus either directly or indirectly by the process of UVC Irradiation. To sanitize the objects, tools, food, gadgets, face masks which are suspect, they have to be exposed to UVC radiation in our equipment for a duration of 30 seconds to achieve the desired results.

This product is designed for safe handling of UVc Radiation by the use of safety interlock which cuts off UV Radiation when the door of the unit is open.

SPECIFICATIONS

UVC Type Wattage: 44W / 64W @ 254nm

Active Irradiation Volume:
300mmx300mmx200mm

Geometry of Irradiation: 4 Pi (all sides of the object) by use of adequate number of UV lamps.

Sample Tray Design: Dual Tray design for placement of Face shield and Face masks in 1 pass.

Max. Height of the object: 200mm

Recommended Sterilization Time: 30 sec

Safety Interlock: Provided by means of micro-switch which detects Door open condition and cuts off UV light.

Start: A Momentary push button is provided for turning the UV Beam ON

UV Sterilization Indication: Indication is provided by a Pilot lamp on the panel

Standard Sample Tray: A SS Grill based Sample Tray is offered as a default sample tray for loading samples for standard sterilization in 4Pi geometry as a low cost alternative.

In this configuration the object has to be flipped upside down and sterilized once again for better quality sterilization to cover any left-over blind areas.

Enhanced Sterilization Sample Tray: A specially built sample tray with UV transparent UV platform is used for placement of samples for enhanced Sterilization. This is available as an additional option. This platform is transparent to UV Radiation and eliminates blind areas which are normally caused with the use of SS Grill tray or similar. In enhanced Sterilization mode upto kill % of upto 99.9999% of Covid-19, MRSA, H1N1 and other viruses present on solid and non-porous surfaces can be destroyed.

Face Mask Arrangement: A specially designed arrangement to hold face masks upto 4 no. is available as an option

Enclosure Material: Powder Coated MS / SS304

Supply Voltage: 110 / 220VAC, 50/60Hz

Note:

(1) We use a special grade UV transparent sample Tray in enhanced sterilization mode instead of metallic grill to achieve 100% surface coverage. Use of metallic grill defeats the purpose of sterilization partially as the grill obstructs about 10% of the object from the UV light during sterilization.

(2) During normal use there is no leakage of UV Radiation from the unit. However we recommend use of UV protection goggles when operating this equipment.

(3) UV TYPE C Radiation is generated inside the unit which is dangerous if exposed to the eyes and skin. Do not open the unit when the UV light is on to prevent accidental exposure