

NEW



CHOOSE SAFEAIR...FOR LIFE!



## High Powered UV-C Room & Surface Sterilizer

SASUV18w/55w/95w - WITH SAFETY REMOTE

**SafeAir Ultraviolet Room and Surface Sterilisers, another in the UVGI SafeAir range of products from Ulilog.**

### Benefits of SafeAir UV-C Surface Sterilisers:

- Effective against all known pathogens, bacteria, and viruses such as MRSA, Tuberculosis (TB), E. Coli, Salmonella, Multidrug-resistant CRKP, Vancomycin-resistant enterococci (VRE), Listeria, Legionella, Adenovirus, Hepatitis, SARS-COV, Influenza, also Mould spores, Yeast and Cysts and many more.
- SafeAir UV-C Surface Sterilisers do not produce smells, O<sup>3</sup> (Ozone) nor use chemicals or alcohol to sterilise surfaces. Using a SASUV will save the occupants of the room exposure to VOCs which are detrimental to people suffering with sinus and asthma. Reducing VOC's would also assist in alleviating Sick Building Syndrome (SBS)

- UV surface disinfection is a physical process rather than a chemical disinfectant, which eliminates the need to generate, handle, transport, or store toxic/hazardous or aggressive chemicals.
- UV-C is effective when organisms have become immune to other sterilizing methods. Pathogens cannot build immunity towards UV-C light.
- SafeAir Surface Sterilisers have an illuminated on/off switch as well as a remote control. The UV-C Lamp will not switch on unless the remote is activated by the responsible, trained and authorised person. This also allows the operator to switch it on and off remotely from a distance.
- SafeAir Surface Sterilisers are an alternative solution to disposable sterilizing wet wipes, which end up in landfill.



## HOW DOES IT WORK?

UV Germicidal Irradiation (UVGI) is a sterilization method that uses UV light at a sufficiently short wavelength to break down micro-organisms and kill or inactivate them. It does this by destroying nucleic acids and disrupting their DNA, leaving them unable to perform. It is used in a variety of applications such as food, air, surface, and water purification.

Ulilog's SafeAir UVGI Surface Sterilisers have been designed to be lightweight, sleek, user-friendly and, most of all, safe.

UV-C is dangerous to the eyes and skin of humans, to animals and plants; therefore, an exposed UV-C device needs safety protocols in place that will safeguard the user and prevent unauthorized people from operating it.

- Wear PPE provided.
- Plug unit into electrical socket.
- Switch on (Rocker switch will illuminate but UVGI Lamp will remain off)
- Ensure there are no people, animals, or plants in the vicinity, then activate remote switch, (Lamp will light up)
- Pass device over surfaces, as close as possible for the required time, depending on intensity required.
- SASUV Units can be strategically placed and remotely operated in a vacated room or area.

## WHY SAFEAIR STERILISERS?

- SafeAir Sterilisers have high UV-C output and kill pathogens in seconds.
- Available in 18w and high output 55w and 95w models.
- Germicidal 254nm UV-C lamp.
- 9,000 hours of lamp life (5-10 years depending on hours use/day).
- Easy lamp change without dismantling housing.
- Lightweight aluminium powder coated housing.
- Easy to use with on/off switch and safety remote control.
- Anti-vibration lamp holder.
- Designed and manufactured in South Africa.
- Includes UV Safety Glasses, face shield and gloves.
- Special lamp glass filters out the 185 nm ozone-forming radiation.
- Protective inside coating ensures almost constant UV output for the complete lifetime of the lamp.
- Shatterproof lamp sleeve for safety in the event of lamp breakage.

## WHERE CAN I USE SAFEAIR SURFACE STERILISERS?

- ✓ Business (offices, call centres, factories, warehouses)
- ✓ Education (crèches, schools, universities)
- ✓ Hospitality (hotels, lodges, B+B's, restaurants, canteens)
- ✓ Medical (hospitals, clinics, consulting rooms, ambulances)
- ✓ Public Transport
- ✓ Entertainment & Recreation (gyms, theatre, cinema)
- ✓ Retail (trolleys, till points, shelves, restrooms)
- ✓ Mine change houses and living quarters
- ✓ Food and meat industry
- ✓ Shopping Malls
- ✓ Airports, Aircraft & Shipping (containers, pallets, boxes)
- ✓ Nursing Homes

## SAFEAIR SASUV18/55/95 DATA AND SPECIFICATIONS.

Model & Order Code	Unit Size in mm L x W x H	Unit Weight KG	Unit Structure	Application	Lamp (Nom) Volts, Power & Current	Lamp Cap - Base 4 Pin	Lamp Life & Lifetime Depreciation %	Hg Content	UV-C Radiation At 100hr	µW/cm <sup>2</sup> at 1Meter
SASUV 18	412 x 76 x 123	1.1	Powder Coated Aluminium	Disinfection	60V - 18W - 0.37A	2G11	9000hrs 15%	4.4mg	5.5w	51
SASUV 55	712 x 76 x 123	1.79	Powder Coated Aluminium	Disinfection	103v - 55W 0.54A	2G11	9000hrs 15%	4.4mg	17.0w	156
SASUV 95	712 x 76 x 123	1.85	Powder Coated Aluminium	Disinfection	115V - 95W 0.8A	2G11	9000hrs 15%	4.4mg	27.w	250

Lamp Intensity and UV-C Dose	SASUV18	SASUV55	SASUV95
µW/cm <sup>2</sup> at 1m (Lamp Intensity)	51	156	250
UV-C Dose / 1min at 1meter	3060	9360	15000
µW/cm <sup>2</sup> at 250mm (Lamp Intensity)	204	624	1000
UV-C Dose / 15 sec at 250mm	3060	9360	15000
µW/cm <sup>2</sup> at 125mm (Lamp Intensity)	408	1248	2000
UV-C Dose / 7.5 sec at 125mm	3060	9360	15000
µW/cm <sup>2</sup> at 62.5mm (Lamp Intensity)	816	2496	4000
UV-C Dose / 4 sec at 62.5mm	3264	9984	16000

## WARNINGS AND SAFETY

Exposed UV-C products should never be permitted to operate with humans, animals, or plants present in the operation area. Exposure to direct or reflected germicidal ultraviolet rays **must** be avoided, as it causes eye irritation and reddening of the skin.

When using exposed UV-C products, PPE's must be worn - gloves, long sleeve shirt with no gaps between cuffs and gloves, UV-C blocking face shield/glasses to protect eyes and exposed skin. There must be signage to advise of UV-C sterilising in the area.

### ULTRAVIOLET DOSAGE

Germicidal lamps provide effective protection against microorganisms. A small cross-section is shown below.

ORGANISM	ALTERNATE NAME	TYPE	DISEASE	DOSE*
<i>Corynebacterium diphtheriae</i>	<i>C. diphtheriae</i>	Bacteria	Diphtheria	6,500
<i>Legionella pneumophila</i>	<i>L. pneumophila</i>	Bacteria	Legionnaire's Disease	12,300
<i>Mycobacterium tuberculosis</i>	<i>M. tuberculosis</i>	Bacteria	Tuberculosis (TB)	10,000
<i>Pseudomonas aeruginosa</i>	<i>P. aeruginosa</i>	Bacteria		3,900
<i>Serratia Marcescens</i>	<i>S. marcescens</i>	Bacteria		6,160
<i>Staphylococcus aureus</i>	<i>S. aureus</i>	Bacteria		6,600
<i>Staphylococcus epidermidis</i>	<i>S. epidermidis</i>	Bacteria		5,800
Adeno Virus Type III		Virus		4,500
Coxsackie A2		Virus		6,300
Influenza		Virus	Flu	6,600

## WHO TO CONTACT?