SGUVGI Range

Our SGUVGI range has a lethal effect with micro-organisms such as viruses and bacteria. SARS-CoV-2, the virus responsible for Covid-19, can be inactivated by exposure to SGUVGI.

KEY FEATURES

- High efficiency UV-C technology
- Kill rate up to 99% effective

Each individual unit sits directly in the air stream and can feature from 8 to 24 high output UV-C lamps supplied in modules of 8.

The number of modules specified will be dependent on the air volume which will dictate the amount of irridation needed.

SGUVGI inactivates micro-organisms by attacking their DNA, permanently destroying and altering the molecular structure, leaving them unable to replicate or grow.

Our SGUVGI range incorporates:

- **UV-C lamps shielded by their module to reduce the collection of dirt on their surface thus extending their optimum efficiency.**
- **The ability to provide the units in simple format or fully monitored with each module of lamps able to provide a local alarm or a BMS signal if in fault.**

Ultraviolet (UV) light is measured in wavelengths with the UVC wavelength within the range of 100 nanometer (nm) to 280 nm emitting highly effective sterilization power. UVC germicidal wavelength at around 260nm is the most effective to kill harmful microorganisms in the air and on surfaces. UVC light emitted at 185nm is used in UV germicidal systems to produce ozone, which is utilized in air purification systems. Ozone generating UV lamps are proven to eliminate odour in the air caused by volatile organic compounds (VOCs) such as ammonia, mercaptans and sulphides.

For SGUVGI applications we use non Ozone producing lamps

Germicidal lamps utilize powerful UVC wavelength to destroy disease causing germs including viruses, bacteria, fungi, protozoa and algae, effectively sterilizing and purifying air, water and surfaces.

UVC disinfection targets the nucleic acid of these harmful cells, rearranging the genetic information, or DNA, and rendering them harmless. As the UVC radiation is absorbed into the cells they become unable to reproduce or multiply to infectious numbers and are considered inactive or dead.

SGUVGI Range

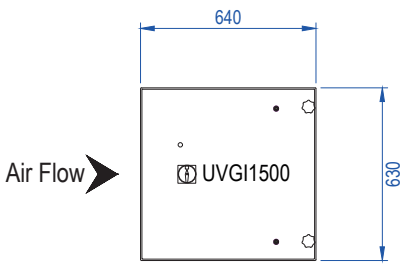
Technical Specification

	SGUVGI 1500	SGUVGI 3000	SGUVGI 4500
Electrical Supply	220/240V 50Hz	220/240V 50Hz	220/240V 50Hz
Power Consumption *	560 Watts	560 to 1120 Watts	1120 to 1680 Watts
Max Air Volume	up to 0.7m³/sec	up to 1.4m³/sec	up to 2.1m³/sec
Dimensions	450 W 630 H 640 L	900 W 630 H 640 L	1350 W 630 H 640 L
Weight	43kg (APPROX)	66kg (APPROX)	89kg (APPROX)

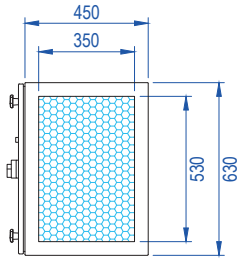
** Each rack is 560W (8 lamps)*

Drawings

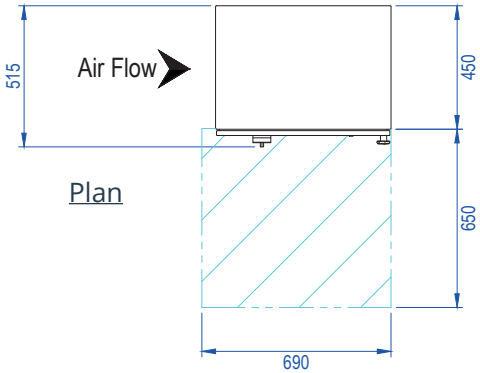
SGUVGI 1500



Side Elevation

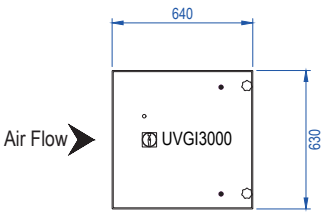


Air on/off Elevation



Plan

SGUVGI 3000



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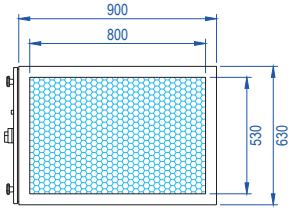
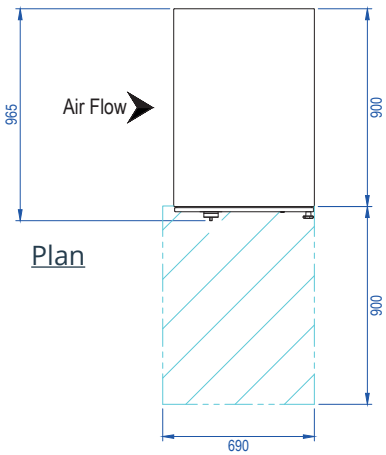


Air on/off Elevation



Plan

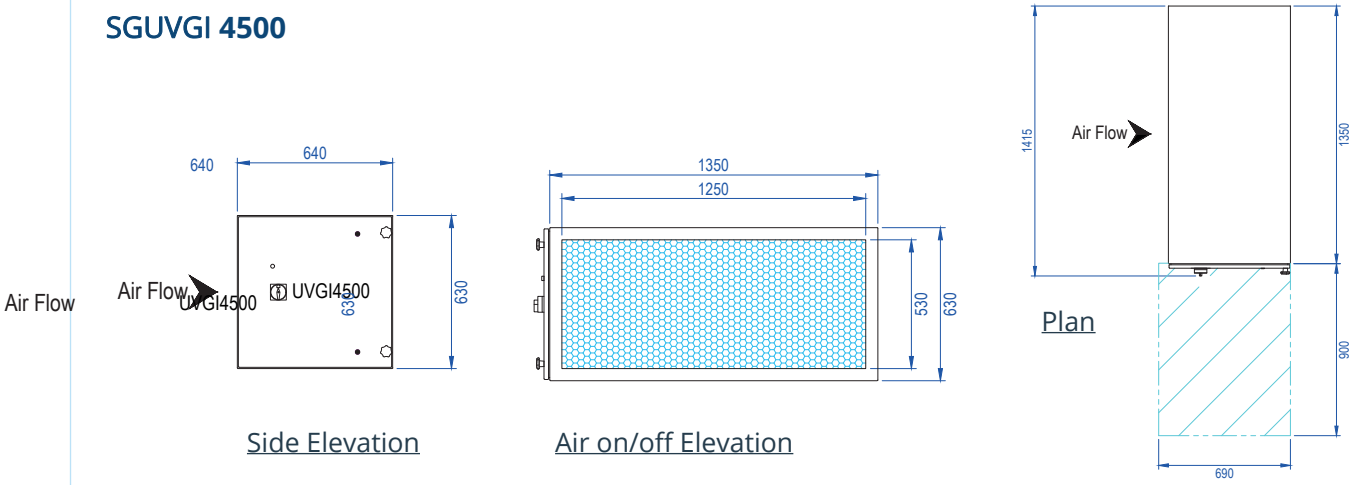
Air Flow

1350

Plan SGUVGI Range

900

SGUVGI 4500



Side Elevation

Air on/off Elevation

Plan

Airflow Charts