



The **MobiKlean UVGI** is the ideal solution for disinfecting rooms in a wide array of sectors and environments; including **hospitals, offices and hotel rooms** to name a few. Our **portable and lightweight** solution offers **99%+ disinfection rate** of microorganisms such as bacteria, moulds, spores and a host of viruses including **Covid-19**.

Our "plug and play" solution provides **simple to use features** including lockable wheels, timer controls (10-60 minutes) and compact remote control for operation. Should the unlikely scenario arise of someone walking into a room whilst the MobiKlean is operating; our intelligent **safeguard motion sensors** provide automatic shutdown of the UV light, for extra peace of mind.

Remove Covid-19 from a 160m² room in 11 minutes*
*Please see chart overleaf for full list of room sizes and microorganism disinfection times

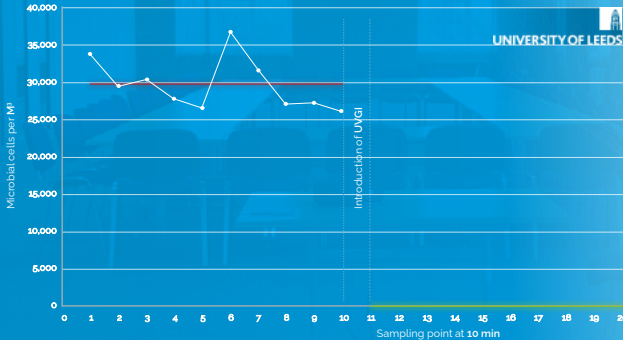
Benefits

- 99%+ Disinfection Rate of unwanted microorganisms, including SARS-CoV-2
- Safety features include Remote Control, Motion Sensor, Room-specific Timer
- Specified, tested and adaptable settings suitable for: Dentists / Hospitals / Schools / Offices / Restaurants / Leisure / Gym



99%+ DISINFECTION RATE

UV-C light at 254nm is known as 'germicidal irradiation' due to its lethal effect on microorganisms. Independent testing conducted at the **University of Leeds**, showed a reduction of over **99% of viruses, bacteria, spores and fungi** when exposed to our UVGI products.



Phil Greenwell BDS 1990
Auckland Dental Practice
Country Durham

"The MobiKlean unit has had a dramatically positive effect on our practice within days. Follow time is now down to 15 minutes and we can re-enter surgeries with peace of mind. It gives our team and customers confidence, it improves our environment and it improves our productivity"

Tests were conducted using a range of biological indicators designed for the pharmaceutical, food and medical device industries. Read the full findings via Plasma-Clean.com/news

plasma-clean.com • ask@plasma-clean.com | +44 (0)161 870 2325
Earl Business Centre, Dowry Street, Oldham, OL8 2PF

[f](#) [t](#) [@PlasmaClean](#) [in/Plasma-Clean-LTD](#)



Introduction to UVGI • Ultraviolet Germicidal Irradiation

Ultraviolet light in the c-band range (225–302 nm) is lethal to microorganisms and is referred to as ultraviolet germicidal irradiation (UVGI). UVGI works by cross linking nucleic acids (DNA & RNA) to prevent replication and proliferation of microorganisms such as viruses, bacteria, spores, moulds, yeast and fungi. It is important to use the correct UV-C dosage in order to achieve high kill rates. Low intensity UV-C can be used for surface treatment as there is a long UV-C exposure time whereas high intensity UV-C is required for air treatment as the exposure time is short. Plasma Clean UVGI systems are sized to achieve up to 99% microbial kill rate for common microbes based on UV-C dosage tables in the scientific literature as well as independent testing carried out by Plasma Clean.

Plasma Clean's germicidal range consists of the [CoilKlean UVGI](#) for surface treatment of heat exchange coils, the [AirKlean UVGI](#) unit which is a standalone air cleaner, the [TechniKlean UVGI series](#) designed to treat air in building ventilation systems and the [MobiKlean UVGI](#) for mobile germicidal irradiation. All of our UVGI products can be supplied with [UV-C 100 Dosimeters](#); designed to visually indicate an accumulated dose of UV-C ranging from 25, 50, 75 and 100 mJ/cm².

Air Treatment using MobiKlean UVGI

The MobiKlean UVGI is designed to safely disinfect a huge variety of rooms of up to 50m², 100m² and 160m². It uses UVGI technology which is tested and specified to kill 99+% of harmful microorganisms, including Covid-19. For full peace of mind, the unit operates remotely - this ensures that there is no exposure of UV-C light to the user. This is achieved via remote control operation of the unit, a proximity cut-off sensor and timer functions; set to suit specific areas.

Sizing of Equipment – MobiKlean UVGI

One MobiKlean UVGI unit can be specified for coverage of up to 50m², 100m² and 160m². To accurately specify the correct equipment to ensure optimum germicidal performance, the following information is required:

- Height x Width x Depth of the room where the UVGI equipment is to be installed
- Room layout to assess air circulation
- Type of microorganism that is being treated

Installation

The unit can be timer or remotely operated. Please be aware that there are no light guards to prevent UV-C light escaping. As a result, the MobiKlean UVGI must be used remotely with no people present. It features high intensity UV-C emitters which act on airborne microbes such as viruses, bacteria, spores, moulds, yeast and fungi. For best results, locate the unit where there is free-flowing air circulation. The unit does not produce ozone.

Kit Contents

MobiKlean UVGI unit with high output UV-C lamps
Mains Power Cable - 5m
Remote Control
Warning / Hazard Floor Stand
Operations Manual

Accessories

Spare high output UV-C lamps
UV-C Dosimeters

Safety

To prevent any UV-C exposure, the MobiKlean features a "clear out" period once activated, as well as an adjustable timer, plus remote control operation. The MobiKlean also comes with warning signs for staff.

Maintenance & Warranty

A Plasma Clean service contract is available (please enquire) and in any case we would recommend:

- UV-C lamps must be replaced annually - this is covered with a Plasma Clean 12 Month Warranty

*Plasma Clean is continuously improving its products and services and reserves the right to alter designs without prior notice

Product Details

Lamp Technology	UV-C
Lamp Quantity	2, 4 or 6 (50m ² , 100m ² or 160m ²)
Dimensions	974 x 380 x 380 mm
Weight	10kg
Voltage	110-240V AC, 50/60Hz
Total Watts	72W / 144W / 216W
Lamp Watts (Single)	36W
UV Output	220 / 440 / 660 @ 254nm µW/cm ² (@1m)
Lamp UV Output (Single)	12W
Expected Lifespan	8,000+ hrs
UV Wavelength	Fluorescent UV-C Lamp 200-280nm (254nm peak)
Lamp Type	UV-C
Beam Angle	360°
Power Factor	>0.9
Delay	90 seconds
Maximum Treatment Time	24 hours
Amps	1A / 2A / 3A
Ambient Operating Temp	26.7°C
Mounting	Portable - (4) Wheels
Ratings/Features	Short-wave, germicidal UV-C light kills 99+% of viruses and unwanted microorganisms Cooling Fans Safety Kit Included 360° coverage

Room Sizes, Lamps & Disinfection Times

	Influenza	Anthrax Spores	Black Mold	SARS-CoV-2*
50m ² 72W unit	6 mins	43 mins	306 mins	10 mins
100m ² 144W unit	7 mins	44 mins	312 mins	10 mins
160m ² 216W unit	7 mins	50 mins	352 mins	11 mins

*SARS-CoV-2 irradiation dosage, based on published UV susceptibility constants (k-values)