



The **AirKlean UVGI** is a "plug and play" unit, specifically designed to disinfect air in confined spaces, such as: Hospital Rooms and Wards, Operating Theatres, Lifts and Lobbies, Waiting Rooms, Public Spaces, through to Retail Units and Food Production and Storage; anywhere that requires infection control.

With dimensions measuring in at a compact 192 x 228 x 740 (HWLmm)\*, the AirKlean UVGI features both ceiling and wall mounting options (air is drawn through the unit via its internal fan).

The unit features 2x 95W UV-C germicidal lamps which emit light at a wavelength of 254nm. These high intensity UV-C lamps eliminate over 99% of airborne microbes such as **viruses, bacteria, spores and moulds**.

The AirKlean UVGI is finished in grade 304 stainless steel, weighing in at just 7kg.

## Safety

The unit does not produce ozone, and has light guards to prevent UV-C light escaping. As a result, the AirKlean UVGI can be used in places where people are present. For an extra safety precaution, the UV-C emitters can be supplied with a special Teflon sheath\*\* to protect against breakage.

\*\*Optional extra

## Benefits

- Disinfects 24 hours a day
- Plug and play (practically maintenance-free)
- Eliminates expensive and polluting chemical cleaners
- Excellent price / benefit ratio
- Simple to retrofit

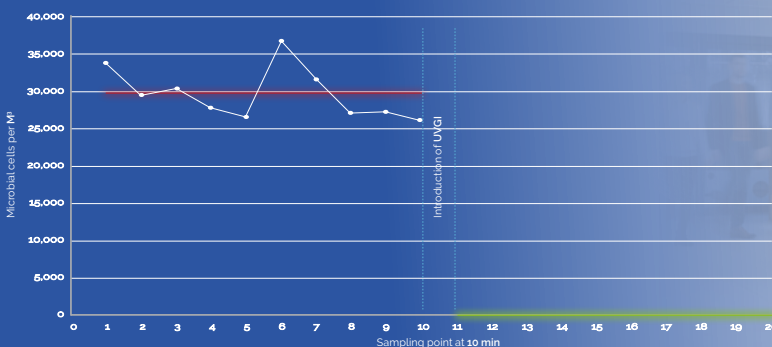
## PRODUCT SPECIFICATION

<b>Dimensions (HxWxL)</b>	192 x 228 x 740mm
<b>Weight</b>	7kg
<b>Supply</b>	230v / 50Hz
<b>Power consumption</b>	240W
<b>UV-C emitter</b>	2 x 95W with optional Teflon coating
<b>UV-C emitter life</b>	9,000hrs
<b>Material</b>	Grade 304 stainless steel
<b>Air flow</b>	120m <sup>3</sup> /hr

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

# 99+% DISINFECTION RATE

UV-C light at 254nm is known as 'germicidal irradiation' due to its lethal effect on micro-organisms. 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. 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](http://Plasma-Clean.com/news)

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## Introduction to UVGI • Ultraviolet Germicidal Irradiation

Ultraviolet light in the c-band range (225–302 nm) is lethal to micro-organisms and is referred to as ultraviolet germicidal irradiation (UVGI). UVGI works by cross linking nucleic acids (DNA & RNA) to prevent replication and proliferation of micro-organisms 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 Air 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 Air.

For information on the effectiveness of UVGI on COVID-19; [click here](#)

Plasma Clean Air'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 and the [TechniKlean UVGI series](#) designed to treat air in building ventilation systems.

## Air Treatment using AirKlean UVGI

The AirKlean UVGI is designed to disinfect air in enclosed spaces – from offices and public buildings to cold stores and food production areas, in fact anywhere that requires infection and odour control.

## Sizing of Equipment – AirKlean UVGI

One AirKlean UVGI unit has a coverage of up to 100m<sup>2</sup>.

To accurately specify the correct equipment to ensure optimum germicidal performance, the following information is required:

- Height x Width x Length of the room where the UVGI equipment is to be installed
- Room layout to assess air circulation
- Room air changes per hour
- Type of micro-organism that is being treated.

## Installation

The unit is ceiling or wall mounted and has an internal fan which draws air through the unit. Here, the air passes over 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 standard unit does not produce ozone, and has light guards to prevent UV-C light escaping. As a result, the AirKlean UVGI can be used in places where people are present. Ozonating models are available on request, please enquire. For surge protection purposes it is recommended to install a Class D MCB circuit breaker in the electrical supply.

## Kit Contents

AirKlean UVGI unit complete with UV-C emitters (installation required)

Mains power cable – 2m

Screws and fixings for mounting are not supplied.

## Accessories

Teflon coated lamps for food safety applications.

Ozonating lamps.

## Safety

For UV-C safety, the unit has internal UV-C light guards to prevent UV light escaping.

## Maintenance

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

- Servicing is normally confined to the regular cleaning of the UV-C lamps as part of a maintenance programme managed by Plasma Clean Air or a Plasma Clean Air approved contractor
- For maximum efficiency establish a regular cleaning cycle based on routine checks of the UV lamps during the first few months of use.
- The UV lamps have a normal operating life of 9,000 hrs after which time they should be replaced

## Technical Drawing

Please contact our Technical Helpdesk if a CAD drawing is required.

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