

VIU 1000

AIR PURIFIER & VIRUS IRRADIATION UNIT

Version 1.0

purified[®]air

INDOOR AIR QUALITY VIRUS CONTROL AND FILTRATION EXPERTS

Purified Air has been delivering cleaner, safer environments for clients since 1984. Now in 2021, the challenge has never been greater. We have been developing and extending our range of UVGI products to help control pollution including coronavirus.

VIU 1000

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VIU 1000

AIR PURIFIER & VIRUS IRRADIATION UNIT

Designed to be installed in offices, gyms and other commercial premises to remove airborne particles and help to destroy viruses including Coronavirus.



KEY FEATURES

- ➔ Dual Technology
- ➔ Electrostatic Filtration – UVGI
- ➔ Quiet Operation
- ➔ Highly efficient
- ➔ Concealed above the ceiling

DUAL TECHNOLOGY

ESP TECHNOLOGY

ESP is a method of removing tiny particles from the air, the system works by applying a static charge of around 8000v to particles in the air stream.

These particles are then attracted to collector plates which have the opposite electrical potential resulting in them being stripped from the air. Filtration capacity is at a very high efficiency (up to 99%) even with sub-micron sized contaminants such as virus and bacteria.

The filter components used are metal and can be cleaned so there is no filter replacement necessary. A further advantage is that using static force to filter the contaminants provides a very low resistance to the air stream which enables better overall performance.

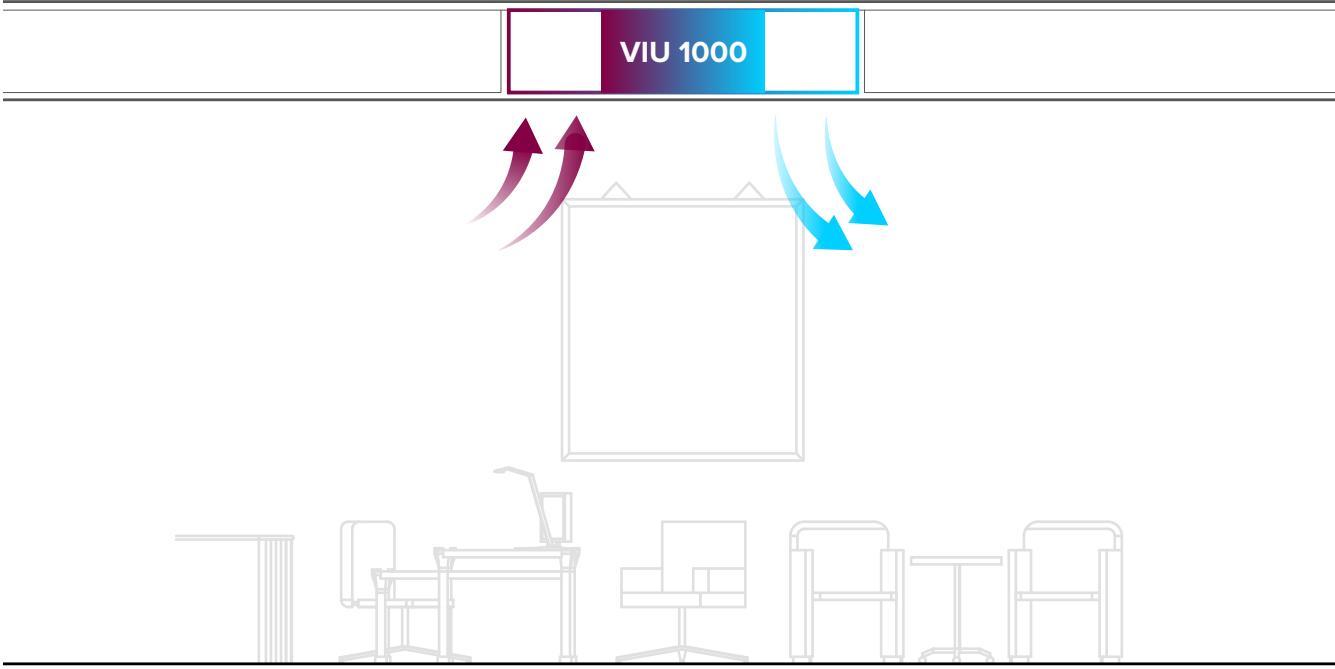
UVGI TECHNOLOGY

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

Our technology incorporates:

- ➔ High output lamps with enclosure designed to achieve maximum irradiation.
- ➔ ESP collector and UV lamps easily removable for cleaning or replacement.
- ➔ Non Ozone producing lamps

HOW IT WORKS



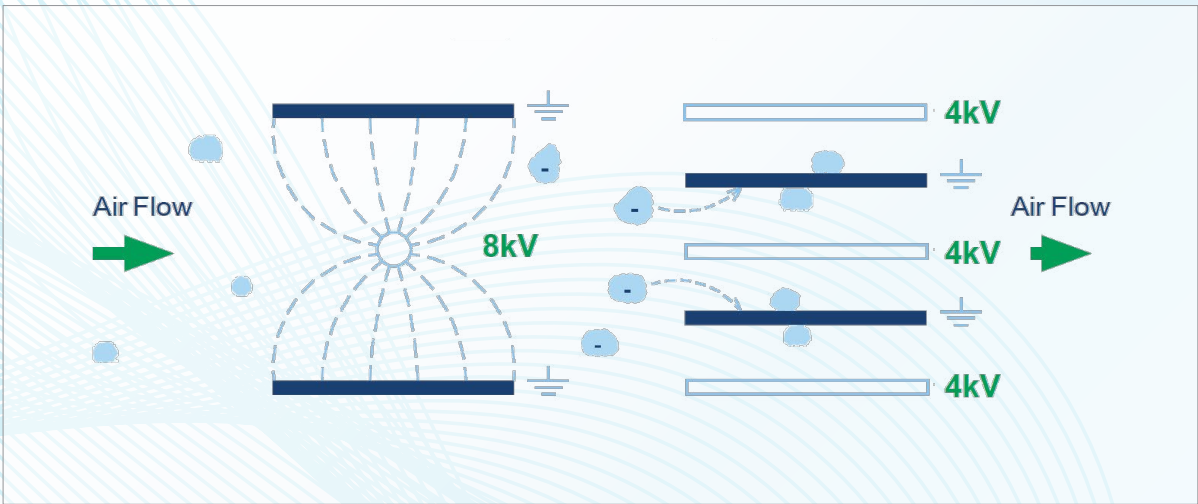
- ➔ Concealed overhead unit
- ➔ Increased coverage
- ➔ No need for duct work
- ➔ Dual technology

ULTRAVIOLET (UV)

Ultraviolet (UV) light is measured in wavelengths with the UV-C wavelength within the range of 100 nanometer (nm) to 280 nm emitting highly effective sterilization power. UV-C germicidal wavelength at around 260nm is the most effective to kill

harmful micro-organisms in the air and on surfaces. Germicidal lamps utilize powerful UV-C wavelength to destroy disease causing germs including viruses, bacteria, fungi, protozoa and algae, effectively sterilizing and purifying air, water and surfaces.

THE ELECTROSTATIC PROCESS



The above diagram shows, in a basic visual, how an electrostatic precipitator works. As air passes into the combined ioniser / collector cell, the particulates in the air stream are polarised. As they continue through the ioniser and

between the collector cell plates, the polarised particulates are repelled away from the positively charged plates and attracted to the earthed plates where they stick and so are filtered out of the air flow.

THE BENEFITS OF ELECTROSTATIC TECHNOLOGY

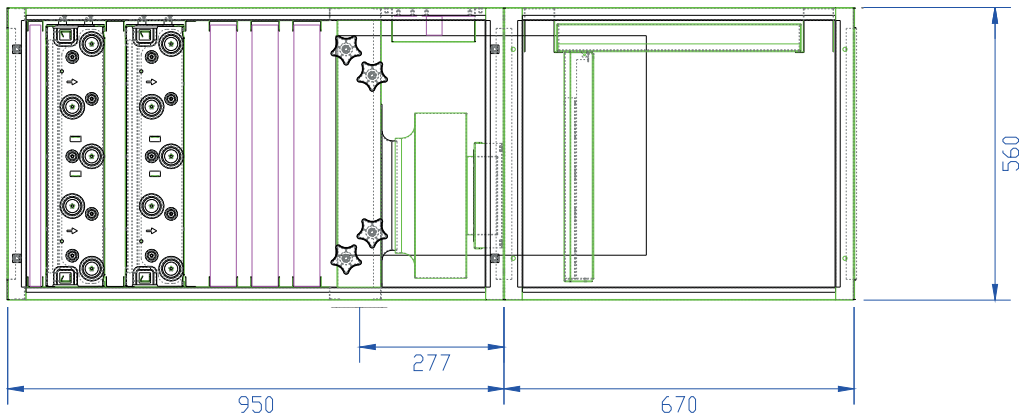
- Eliminates up to 99% of particles
- Filters particles down to sub-micron levels
- Modular design
- Energy efficient

TECHNICAL SPECIFICATION

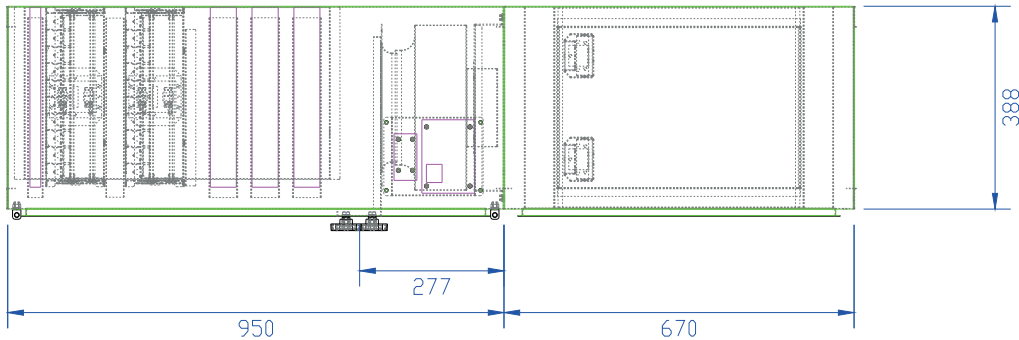
Electrical Supply	Power Consumption	Area Capacity	Maximum Airflow	Weight
220-240V SINGLE PHASE	560W MAXIMUM	160SQM	1700M³/HR	70KG APPROX

DIMENSIONS W 2420mm x H 560mm x D 388mm

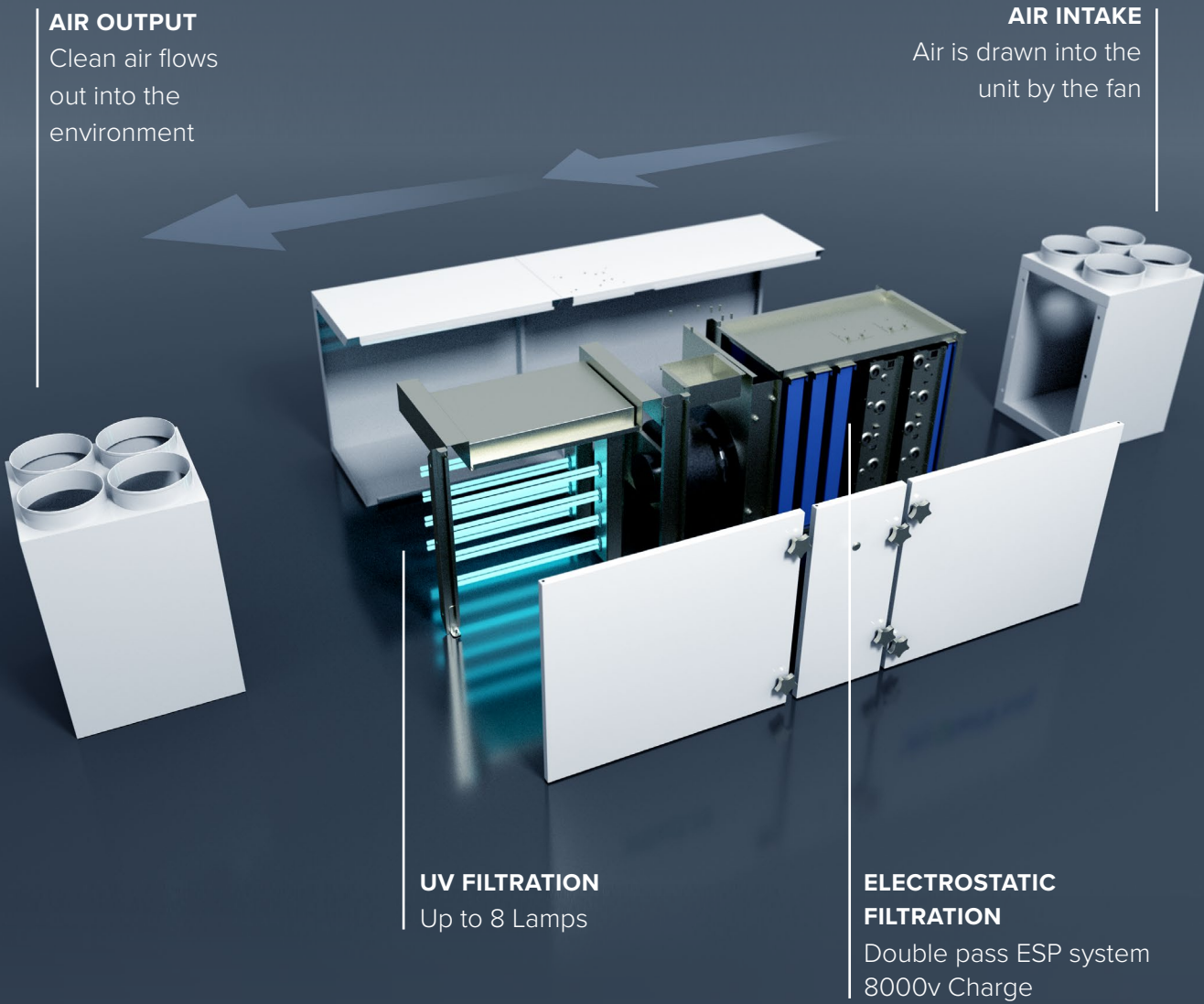
SIDE



TOP



EXPLODED VIEW



COMPLETE SERVICE PACKAGE

 Design

 Manufacture

 Maintain



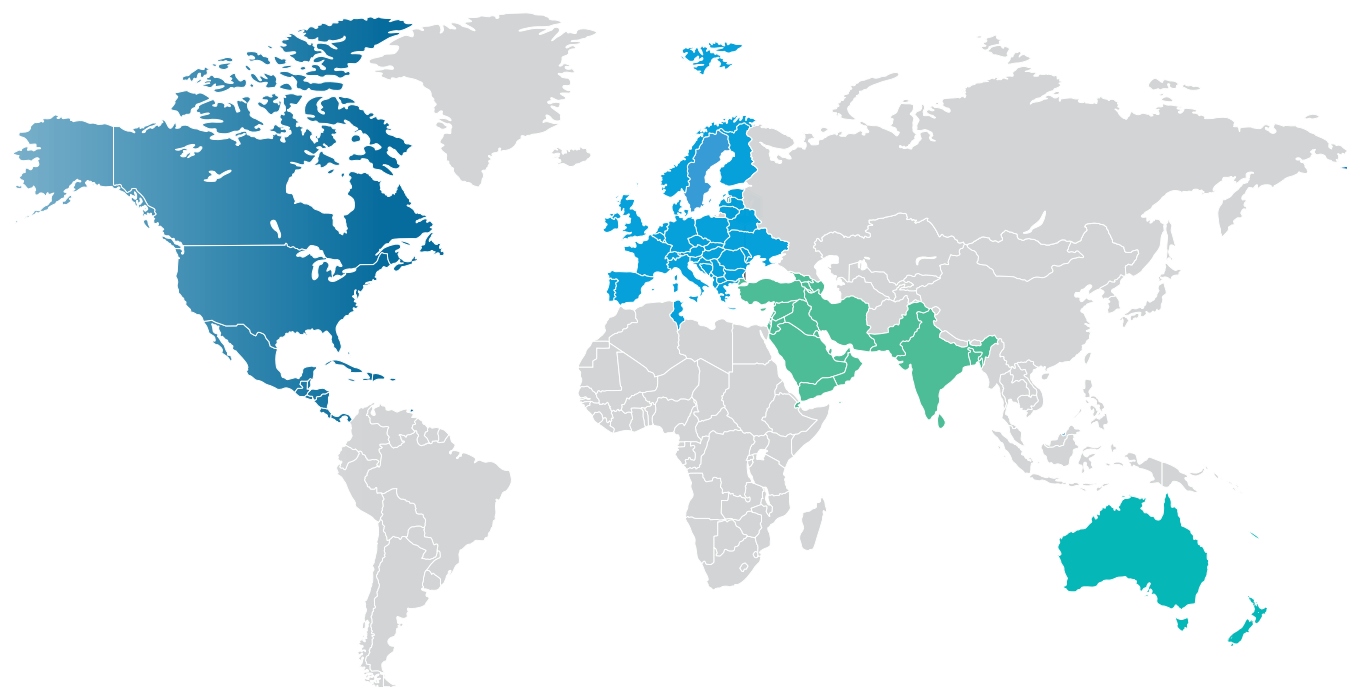
ABOUT US

Purified Air has been delivering cleaner, safer environments for clients since 1984. Now in 2020, the challenge has never been more significant. We have been developing and extending our range of UVGI products to help control pollution, including coronavirus.

In partnership with our market-leading odour filtration systems, Purified Air currently supplies systems to many sectoral brands. We provide bespoke in-duct and mobile air purification systems for office, commercial and education environments. By working with these variables, we can design and supply some of the world's best virus control and filtration systems.

WORLDWIDE COVERAGE

- United Kingdom
- Middle East
- Europe
- North America
- Asia
- Australasia



GET IN TOUCH

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