

FUZONE500

The air and surface purifier that safely eliminates 99.99% of bacteria both airborne and surface related

FUTURE Designs proven air and surface purifying system, combines ultraviolet light and ozone technology to efficiently and safely sanitise areas, whilst significantly improving air quality.

FUZONE500 uses the natural properties of ozone (O₃) to eliminate up to 99% of unwanted bacteria and airborne viruses without direct contact with the treated areas. The ultraviolet lamp incorporated within the system is totally obscured from the human eye, allowing the system to operate whilst the premises are occupied with no detrimental effect to personnel or furnishings.

With over 38 million confirmed cases worldwide and over 600,000 in the UK alone **(1)**, Covid-19 has had a significant impact on the way we live and interact with our surroundings. Cases are increasing at an astronomical rate and finding effective solutions to control the spread of the coronavirus - and other airborne diseases - has become paramount.

PRODUCT KEY FEATURES

- **FUZONE500** has been developed to produce an ozone level no greater than 0.04ppm enabling the system to be operated continuously whilst the premises are occupied. The system will not operate above this level which is 25% lower than the base line threshold value issued by the World Health Organisation (WHO) which states that guideline threshold values for O₃ for health protection are between 0.05-0.06ppm.
- **FUZONE500** is designed to be integrated into existing **FUTURE Designs** lighting systems including **VANE99**, **VANE150**, **EXEMPLAR** and adjacent to all other existing lighting systems.
- **FUZONE500** works without filters, reducing the accumulation of hazardous particles and eliminating the growth of bacteria, mould or fungi.



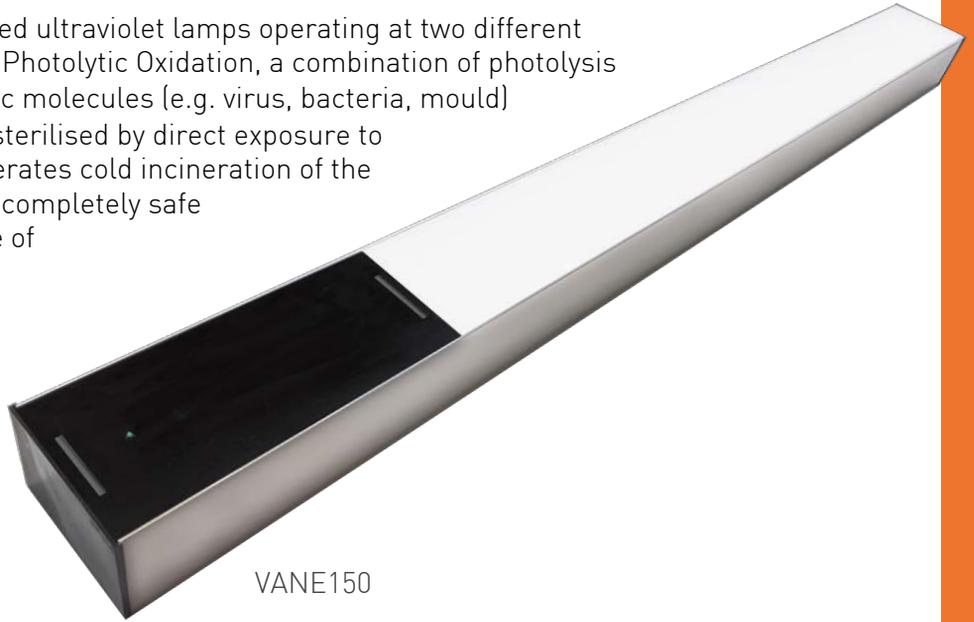
"Depending on the virus targeted, concentration and exposure time varies. Considering the structure of SARS-CoV-2, and how like viruses respond to ozone exposure, it is estimated that as little as 1 ppm concentration for a matter of seconds is sufficient to achieve as much as 4 logs disinfection. A good quality ozone generator should have no problem reaching this concentration within a short period of time."

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(1) World Health Organization, October 2020.

HOW DOES FUZONE500 WORK?

FUZONE500 uses sealed ultraviolet lamps operating at two different wavelengths to create Photolytic Oxidation, a combination of photolysis and ozonolysis. Organic molecules (e.g. virus, bacteria, mould) are broken down and sterilised by direct exposure to ozone (O₃), which generates cold incineration of the molecules ending in a completely safe oxidation process, free of volatile compounds.



VANE150

The **FUTURE Designs** ultraviolet light and ozone technology keeps air and surfaces continuously disinfected by re-circulating “compromised” air and directly exposing it to ultraviolet light inside the unit, destroying unwanted viral, bacteria, pollen, fungi, mould and other airborne particulates.



EXEMPLAR

TECHNICAL SPECIFICATIONS

Unit integration

FUZONE500 can be integrated within the complete **FUTURE Designs** product portfolio and additionally can be adapted to suit all other existing lighting systems within commercial, educational, retail, healthcare, hospitality and residential sectors.

Care and maintenance

FUTURE Designs qualified technicians shall carry out an annual maintenance visit to assess the system is operating correctly and replace the lamp after the expiry of operating life (7,500–8,000 hours).

TEST AND CERTIFICATIONS (test documents available o request)



Analytical Laboratories (S) Pte Ltd
Environmental Services

Air Quality Assessment

Test performed using a microbiological air sampler SAS Super 100 to collect indoor air particulates for microbial activity. Ozone was measured using a portable Crowcon's Triple Plus Analyser for intervals of 30 seconds over one hour.

Results obtained are within the Ministry of the Environment's "Guidelines for Good IAQ in Office Premises" and ASHRAE's IAQ Guidelines as well as other established international organizations such as OSHA, NIOSH and ACGIH.

Test result: 0.01 (limit of 0.05 ppm – 8 hours).



Inactivation of aerosolized Vira: MS2 bacteriophages

FUZONE500 has proven to efficiently reduce the concentration of active and airborne MS2. The determined attribution of the technology is **0.73 – 1.2 log reduction (base 10) per hour in a 20 m³ room.**

EnSURE Touch

Hygiene Ensure Touch testing equipment (NHS certified and approved)

This in-house test was carried out under normal conditions in an office setting, exposing four different surfaces to ozone for sixty minutes. Two samples taken with Hygiena Sure Trend Plus ATP Swap after one hour proved a significant reduction of bacteria with results below **>10 RLU's.**

EU Statement of Compliance

EU certified for compliance with Low Voltage Directives (LVD) and harmonised standards (Machinery – Electrical material on machinery).



To arrange a presentation and demonstration please contact us at:

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