

UV – Environment Sterilisation Technology

KILLS 99.9% OF VIRUSES

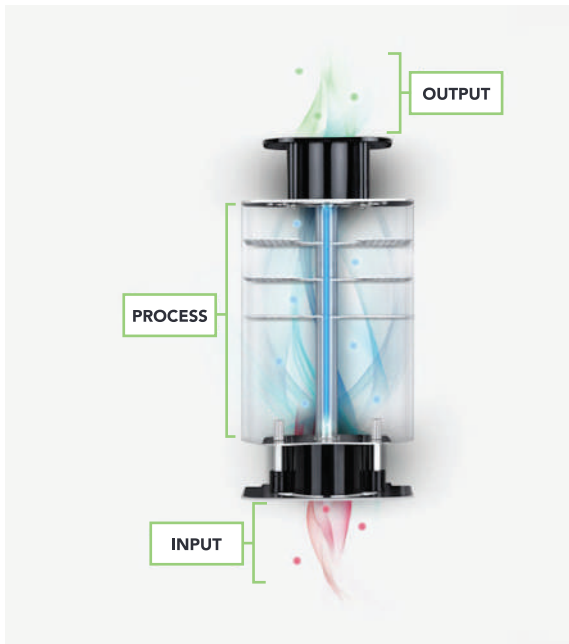
Our Technology can kill and or paralyze 99.9% of bacteria, infections and viruses.

TREATS AIR AND ON SURFACES

Due to the advances in 3 in 1 technology, the SmartAir solutions treat the air that passes through the unit, attaching to contaminated air outside of the unit and falling to the surface to sterilise and contaminate the exposed area.

ERADICATES ODOURS

As well as treating infections we eradicate all embarrassing odours, break down fumes and gases and leave the environment clean and fresh.



Contaminated air passes through the unit, either through thermal convection or with the help of a built-in mini fan.

The air is then subject to UV rays. This has the capability to kill and or deactivate:

- Microorganisms
- Viruses
- Bacteria
- Infections
- Fungi
- And the most resistant (harmful) moulds

The exposure of the UV rays disrupts the DNA of these molecules, thus destroying their vital functions, leaving them inactive.

Inside the casing, free O radicals are produced. These have the capacity to eliminate pollutants by breaking them down.

The result is Carbon Dioxide (CO₂) and water (H₂O). These have the effect of eliminating bad smells and cleaning the air.

- Air sterilisers are particularly important in communal office areas where they have a demonstrable effect on reducing transmission of not just Coronavirus but also common cold and seasonal flu.
- The germ-killing properties are unrivalled with a sterilising action inside the unit and continuously outside within the room using activated oxygen and plasma which permeates into every corner of a room.
- The process disrupts the lipid envelope on a virus and breaks down the cell membrane of gram-negative bacteria destroying them.
- SmartAir steriliser technology is proven to kill bacteria and viruses including Coronaviruses, Influenza, E Coli, Staphylococcus, Salmonella, MRSA and more.

The air then leaves the machine in the form of Plasma composed of negative ions (ion-) and very small amounts of Ozone (O₃).

The ion force all particles to come together, because of the heavier weight they fall to the ground and any exposed surfaces. At the same time, the air is now free of pollutants due to prior actions. OH, hydroxyl Radicals – Ozone, which by its very nature seeks to become O₂ again. This will transmit its 3rd oxygen molecule to any particle around in the environment. This means the Ozone will attach itself to whatever is still present (other pathogens) which when an oxygen molecule is transmitted to, is burnt, and destroyed. **Whatever its nature.**

Features and Benefits



- The SmartAir technology is capable of disinfecting and sanitising air and surfaces even in the presence of humans.
- The room, the furniture and the surfaces are disinfected 24 hours a day 365 days per year.
- The chemical-free solutions enable Zero downtime and no application costs.
- Reduces absenteeism from illness and cases of contagious infection rates.
- Keeps the area safe, clean, fresh, and virus free.
- Removes harmful and toxic fumes from the poorly ventilated room.

SmartAir Sterilisers

Creating a safer environment

Businesses that can demonstrate their commitment to providing a hygienic environment for staff and customers are likely to do better when they emerge from lockdown than those that do not.

The sterilising effect of the sun and UV light on viruses, bacteria and odours is well known.

SmartAir Air Sterilisers are designed to recreate and enhance this process by increasing the activated oxygen effect and creating a plasma which further results in the breaking down the 'envelope' on viruses, destroying them rendering them harmless.

Studies have shown that the solutions:

- Eradicate smells almost instantly
- Reduce bacteria levels by 30% in the busiest public toilets
- Reduce absenteeism from illness by over 40% in heavily populated call centres



AVAILABLE FOR

- Offices and Call Centres
- Shops, Bars and Restaurants
- Hotels Rooms, Receptions and Gymnasiums
- Hospitals, Surgeries and Care Homes
- Educational Facilities – Schools, Colleges, Universities and Nurseries
- Homes and Workplaces
- Transport – Buses, coaches and Trains