



PRESS RELEASE: FOR IMMEDIATE RELEASE

## **New company launches patented clean-air technology capable of destroying viruses and removing harmful particulates at unprecedented levels**

London, UK - [Date] - A new clean-air technology company today announced its official launch alongside the introduction of Sterilize-Aer, a patented, future-ready, air treatment platform designed to actively destroy airborne pathogens and remove harmful environmental particulates at a level unmatched by existing solutions.

Sterilize-Aer has been independently validated to destroy and remove 99.9% of airborne viruses and biological pathogens, while also eliminating PM10, PM2.5 and sub-micron particulates, including nano-plastics generated by traffic and industrial activity. This dual capability makes the company the only provider of a single, integrated technology proven to address both biological and environmental airborne threats.

Designed to go beyond conventional air filtration, Sterilize-Aer actively treats air rather than simply trapping contaminants. The system targets viruses, bacteria, allergens, fungal spores and hazardous particulates through a multi-stage, sequential process, with each stage engineered to address a specific class of airborne contaminant. A built-in fail-safe architecture ensures continued protection even if one stage is compromised, delivering uninterrupted performance in critical environments.

The technology has been developed to support sectors where air quality is mission-critical, including hospitals and healthcare settings, public transport networks, offices, schools, airports, shopping centres, care homes, hospitality venues and cinemas—allowing occupants to operate with greater confidence in the air they breathe.

Backed by awarded and pending patents and supported by rigorous third-party testing, Sterilize-Aer has been validated through collaborations with the University of Ulster (School of Biomedical Sciences), the National Physical Laboratory (NPL), and AirMid Healthgroup Limited. Using non-pathogenic surrogate organisms to ensure safety, testing confirmed the system's



ability to achieve a minimum five-log reduction in airborne pathogens and particulates, with modelling indicating potential reductions exceeding nine log levels, subject to further trials.

Unlike traditional HEPA filtration or UV-based air treatment systems, Sterilize-Aer operates without consumable filters, significantly reducing maintenance requirements and operational disruption. Its self-cleaning, fully automated design enables continuous background operation with minimal intervention. The absence of airflow-restrictive filters also delivers substantial efficiency gains, with energy savings of up to 90% compared with conventional HVAC filtration, making retrofitting into existing infrastructure both technically and financially viable.

By addressing the limitations of existing air treatment technologies—such as pressure loss, high energy demand, size constraints and potential health risks—the new company positions Sterilize-Aer as the most comprehensive clean-air solution currently available, capable of mitigating viral transmission, long-term particulate exposure and harmful gaseous pollutants in a single system.

“This launch marks a significant step forward in how we protect people from airborne health risks,” said a Neil Duffield, a director of the company. “Sterilize-Aer is not just a response to recent global health challenges; it is a long-term, scalable solution to the persistent problem of poor air quality in shared spaces.”

With growing regulatory, environmental and public health pressures around air quality, the company believes Sterilize-Aer offers organisations a robust, validated and future-proof platform to protect occupants, improve wellbeing and reduce operational costs—without compromise.

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## About Sterilize-Aer Limited / Sterilize-Aer Incorporated

Sterilize-Aer was founded at the height of the Covid pandemic, born from a simple yet profound conversation between a scientist and an engineer. At a time when the world urgently needed better ways to protect people and communities, their discussion turned into an idea: to create a solution not just for pathogens, but for the broader problem of harmful particulates in the air.

That idea grew into Sterilize-Aer. Today, the company is the only organisation with a proven technology capable of removing 99.9% of particulates – not just pathogens – delivering a level of clean air and environmental protection unmatched in the market.

Our origins are scientific, but our approach is collaborative. To move from concept to reality, we partnered with London Rock – a company best known for its work in aggregates, waste management, and land development. Though the industries differ, our goals align: to build practical, scalable solutions that make environments safer and more sustainable. From an idea shared in a difficult moment, Sterilize-Aer has become a company with a singular mission: redefining what's possible in air purification and environmental safety.

For more information about Sterilize-Aer, please visit <https://sterilize-aer.com>.

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