



ARTICLE: STERILIZE-AER GROUP

DATE: 28 JANUARY 2026

The hidden risk in the workplace: Why clean air is now a strategic investment

While historically underestimated, since 2020 air quality has become a critical factor in the workplace particularly in relation to health, safety and performance.

In many work environments, employees and customers are continuously exposed to a mixture of airborne pathogens and fine particulates generated by human activity, building systems, traffic pollution, industrial processes and everyday materials. Microscopic particles such as PM10 and PM2.5 can penetrate deep into the respiratory system, contributing to respiratory illness, cardiovascular problems and reduced cognitive performance. At the same time, airborne viruses, bacteria and fungal spores increase the risk of infection, absenteeism and long-term health impacts.

Prior to 2020, these risks were often treated as an unavoidable background issue. The COVID-19 pandemic fundamentally changed that perception. It provided clear evidence that airborne transmission can be a primary route for the spread of infectious disease, particularly in enclosed and poorly ventilated spaces such as offices, healthcare facilities, transport hubs, retail environments and hospitality venues. Businesses experienced first-hand how outbreaks could disrupt operations, force temporary closures and undermine employee confidence, productivity and customer trust.

Looking ahead, organisations are increasingly recognising that effective air-quality strategies must be built for the long term. Solutions designed solely in response to COVID-19 risk becoming obsolete as new pathogens, variants and environmental challenges emerge. Future-proof approaches focus on resilience-systems capable of addressing a broad spectrum of airborne threats, from seasonal viruses and emerging infectious diseases to pollution, allergens and micro-particulates. This long-term thinking enables organisations to maintain protection even



as external conditions change, ensuring workforce safety is not dependent on reacting to the next crisis.

As a result, organisations have reassessed what it means to provide a safe working environment. Health and safety considerations now extend beyond visible hazards to include the invisible quality of the air people breathe. Clean air is increasingly recognised as a core component of business resilience rather than a discretionary wellbeing initiative.

Poor indoor air quality is now linked not only to illness, but also to fatigue, reduced concentration and lower overall performance, all of which directly affect productivity and service delivery.

In response, many companies are investing not only in improved ventilation and air monitoring but advanced air-treatment technologies to reduce the presence of harmful particulates and airborne pathogens to improve the health and wellbeing of their workforce.

These investments are driven by a combination of factors, not only a desire to protect staff, but the need to reassure customers and stakeholders and ensure their company is adhering ever-evolving regulatory expectations.

There is also evidence of a broader shift towards proactive risk management and future-proofing. By prioritising long-term, adaptable solutions, businesses can protect their workforce, reassure customers and create safer, more productive environments well into the future.

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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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