



Vent Grille Cleaning

The air we breathe is a common vector for the transmission of harmful pathogens with the potential to cause infection.

The vent grilles in air ventilation systems, if left uncleaned, present a risk by facilitating the spread of airborne infections such as MRSA and circulating dust particles. This is especially a concern in clinical settings where patients are immunocompromised and therefore more likely to acquire an infection.

The Risk of Infection

Hospitals are familiar with the risks of HAIs and the costs of MRSA infections. Evidence suggests MRSA, tuberculosis (TB), influenza and measles can all pose a risk as airborne pathogens.

The MRSA bacteria is commonly found in dusty and inaccessible areas such as air conditioning or extraction ducts. MRSA can survive on surfaces or skin cells for up to 80 days. Uncleaned vent grilles assist in the circulation of pathogens so it is essential to ensure they are cleaned effectively and on a regular basis.



Did you know...



THE REQUIRED AIR CHANGE RATE CAN ONLY BE SUSTAINED WITH A WELL-MAINTAINED VENTILATION SYSTEM¹

- Absent or defective filters in ventilation systems may introduce environmental aerosols or dust with a high microbial load into hospitals²
- Wound contamination rates have been found to be higher in operating theatres without laminar airflow facilities²

Sources: See overleaf.



The Most Susceptible

Theatres, in particular, require safe, clean air. Yet, over time, dust can collect in vent grilles, reducing the overall air quality and leading to an increased risk in the acquisition of Surgical Site Infections (SSIs). An acquisition of such an infection by a patient ultimately leads to a longer hospital stay, impacting the throughput of patients and bed capacity, as well as cost of care.

A robust schedule of vent grille cleaning is therefore especially beneficial to staff and patients in theatres, but also in wards and treatment rooms, as well as specialist areas including ICU, oncology and respiratory clinics.

How Inivos Can Help

Our vent grille cleaning can be delivered as an on-call service for emergency situations, a specific area or a project, a complete service, which includes full decontamination of the complete HVAC system, or as a scheduled managed service contract. Our work is carried out in compliance with all relevant health and safety regulations².

This enables us to reduce the risk of a patient acquiring an infection whilst in hospital.

Our Service

We manage the project from end-to-end to ensure all stakeholders are aligned through clear communication of a complete project plan. Our teams of qualified technicians are able to operate 24 hours a day, 365 days a year to ensure rapid turnaround and minimum disturbance or disruption to the clinical schedule. This involves:

Ventilation Disinfection

Our first step is to survey the vent grille and to take samples to actively assess the current the condition and implement the correct cleaning plan. This allows us to analyse the microbial growth and degree of dust contamination.

Effective Cleaning

Wearing the correct PPE to ensure their safety against airborne microbes, one of our skilled technicians carries out effective cleaning through the use of a HEPA filtered vacuum followed by manual cleaning with anti-bacterial wipes.

Validated Assurance

After cleaning and disinfecting, we validate the efficacy with testing of the dust contamination and microbial growth, before providing you with a report. We also take photographs before, during and after our work to show you the results, in line with our evidence-based approach.

Our Approach

Our approach follows a set of steps which we apply to every part of what we do. This involves analysing your needs and environment, designing solutions fit for purpose and delivering effective results.

Our knowledge and experience takes care of sealing and isolating ducts sectionally so as to prevent contamination of already serviced partitions.

Why Inivos?

Not only are we an established and trusted name in healthcare, with facilities and hospitals around the world relying on our advanced hydrogen peroxide vapour and UV-C light disinfection robots, but we also offer **a level of expertise second to none**, and **services not provided by other companies**, including managed service contracts and the most innovative technologies.



Multiple areas included



Evidence based processes



Validated assurance



Dedicated project management

Helping you provide patient-ready spaces with on-call decontamination and managed services



Our Inivos services are easy to arrange and tailored to your requirements:

Call **0845 270 6690** or email **customerservices@inivos.com**

Sources: ¹ Eames I., Tang J., Li Y., Wilson P. Airborne transmission of disease in hospitals. J. R. Soc. Interface. 2009;6:S697-S702.

² Schall K.P. Medical and microbiological problems arising from airborne infection in hospitals. Journal of Hospital Infection. 1991;18:S451-S459.