



AIR

Air Cleaner & Air Handling Devices

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An ISO 17025 accredited laboratory, airmid has world leading facilities to allow companies research and develop new, cutting edge technologies in the area of both media-based and no/low impedance air quality systems. We have expertise of UV, Photo-catalytic, Ionisation, Ozone, Gaseous and Plasma technologies, used with or without HEPA or ULPA filters.



Our test duct rig system (ASHRAE 52.2 modified) attached to a large AHAM type chamber.

Our facilities include a 3m³, 30m³ and 28.5m³ AHAM type chamber with a modified ASHRAE 52.2 test duct attached. This allows us to assess either in-duct, standalone and car air purification systems, as well as filters. Adjacent microbiology and accredited virology and allergen laboratories allow rapid analysis of samples. With the ability to probe selected microorganisms using the latest analytical technology, we specialise in key areas relating to indoor air quality including including ultrafine particles, viruses, bacteria, mould, allergen, VOCs and toxins.

Our studies are designed to reflect real world performance. Our environmental test chambers can control temperature, relative humidity and air change rates, enabling us to simulate a range of environmental conditions. The effect of in-duct air purification systems can be analysed both in the duct and in the chamber to provide a complete picture of the impact of the intervention on the indoor space.

We have experience of carrying out decay tests or continuous loading tests where microorganisms are sequentially introduced to assess technologies that are effective over an extended period of time. Our validated protocols include procedures to ensure a homogeneous introduction of a bioaerosol and, where appropriate, room disturbance measures designed to keep the microbe of interest airborne.

If you have particular organisms you wish to test for, be it viruses, bacteria mould, allergen or other toxic substances, we will tailor the test protocol parameters to your requirements.

Through investigations carried out in-vitro, in a controlled environment through chamber based studies or in real life situations, we can provide:

- A road test of early ideas at a lab level
- Chamber performance testing before going in to production
- An open source innovation for Intellectual Property development
- New technology verification
- Valuable data for a science based retail proposition
- Help to think outside standard ISO/ASTM/ASHRAE test for product breakthroughs





Our team can set you apart from your competition. We will provide repeatable, real time data for the impact your air cleaner has on indoor air quality and building occupant health.

Service we offer:

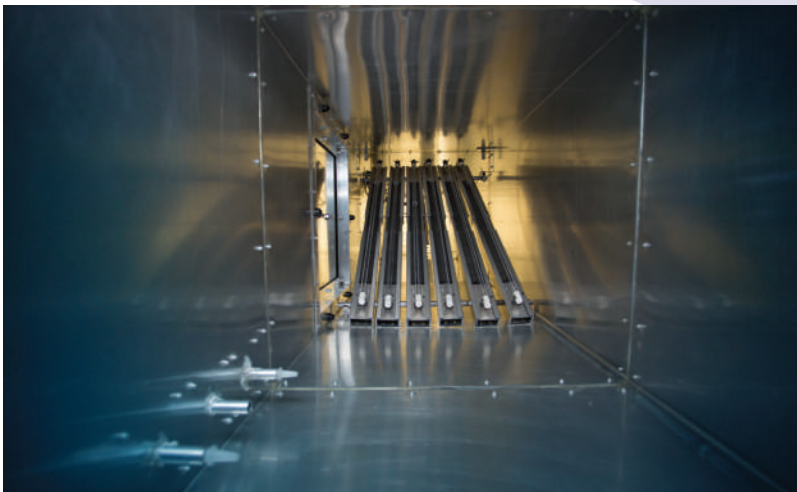
- We offer testing of air cleaner performance in removing or eliminating a wide range of viruses, bacteria, moulds, allergens, odours and VOCs
- We are a Biosafety level 2 facility and examples of microbes which we regularly work with include;
 - **Viruses** Influenza A (H1N1), Human rhinovirus, Feline calicivirus, Human Coronavirus
 - **Bacteria** *Staphylococcus epidermidis*, *Bacillus atropheus*, *Escherichia coli*
 - **Fungi** *Aspergillus niger*, *Cladisporium cladosporioides*
 - **Allergens** House dust mite (Der p 1), Cat (Fel d 1) and Timothy Grass Pollen (Phl p 5)
 - **VOCs** Formaldehyde, Toluene, Acetone
- Real-time monitoring of airborne particles including PM2.5
- Assessment of care code and maintenance procedures
- Single pass filter efficiency testing
- Testing of car air purification systems
- State-of-the-art air sampling techniques in the chamber followed by rapid in house analytical testing including
 - PCR (Virology, Mycology, Bacteriology)
 - ELISA (airmid healthgroup is an ISO 17025 accredited testing laboratory for the quantification of House Dust Mite Allergen, Cat Allergen & Influenza A Nucleoprotein).

Contract Research

Our unique environmental chambers allow us to mimic indoor building environments. Through the generation of real time data we assess the impact your products have on indoor air exposures and building occupant health.

Pricing for our unique service is based on a daily rate for the chamber and staff, with consumables and assays additional.

Therefore, by selecting the questions, time points and number of organisms, our clients can design bespoke projects and influence their own pricing.



Mr Graeme Tarbox
General Manager/Head of Sales



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