Filter Testing

Particle Technology has many years of experience in filter efficiency testing to international standards: **EN 779**, **ISO 5011** and new for 2018 **ISO 16890**.

Air filters are the critical component in HVAC systems providing clean breathable air. The health hazards associated with respirable particles are now starting to be fully understood, therefore, specifying the correct filter is now more critical than ever. Our accredited laboratory in the UK can determine the essential performance characteristics: filter efficiency, discharged efficiency, test dust capacity, air flow restriction (pressure drop) and G1 - F9 classification or ePMx ratings.

- A 35 kW fan allows air flow rates up to 8000 m^3/hr and filter restrictions up to 6000 Pa.
- Oil and salt aerosol generators to determine filter efficiency.
- Upstream and downstream particle counting conducted using a Welas 3000 particle counter with a range of 0.2-100 μm.
- Topas TDC 584 for IPA discharge in accordance with ISO16890-4.
- A selection of dust feeders to enable concentrations from a few mg/m^3 up to hundreds g/m^3.
- We design and manufacture bespoke filter housings to meet the demands of our customers.

Excellence in filter efficiency testing