

GVT 3000



Upgrading and automation of particle measurement with the GVT 3000 (General Ventilation Test System Upgrade), serves in quality assurance and the development of filters in EN 779, ASHRAE 52.2, and ISO 16980 test rigs. The upgrade consists of an aerosol spectrometer, incl. a laptop/PC and monitor, aerosol generators (optionally: discharge unit), a sampling system, as well as automation of the measurement process.

BENEFITS

- Easy use of different test aerosols, e.g. SAE Fine and Coarse, NaCl/KCl, DEHS
- Highest dosing consistency in aerosol generation
- High resolution measurement technology using welas[®] digital / Promo[®] with up to 120 size classes per measurement range, e.g. 0.2 - 10 μm
- Large particle size range of 0.2 - 100 μm in four measurement ranges
- Determination of PM₁, PM_{2.5} and PM₁₀ values
- Classification accuracy and size resolution exceeding the high demands from ASHRAE 52.2.
- Minimisation of sampling losses through the use of patented optical fibre technology
- Sequence programs for EN779:2012, ASHRAE 52.2 and ISO 16890
- Short set-up times
- Cleaning and calibration can be performed autonomously by the customer
- Highest measurement reproducibility of the test system
- Reliable, fast, reproducible and therefore cost-effective measurement results
- Complete system from Palas, including the individual components
- Clear verification of the function of the individual components and the system as a whole within the scope of pre-delivery acceptance testing and on delivery
- Low maintenance

APPLICATIONS

- Testing of room air filters in accordance with EN779:2012
- Testing of room air filters in accordance with ASHRAE 52.2
- Testing of room air filters in accordance with ISO 16890

NORMS AND CERTIFICATES

EN779:2012, ASHRAE 52.2, ISO 16890