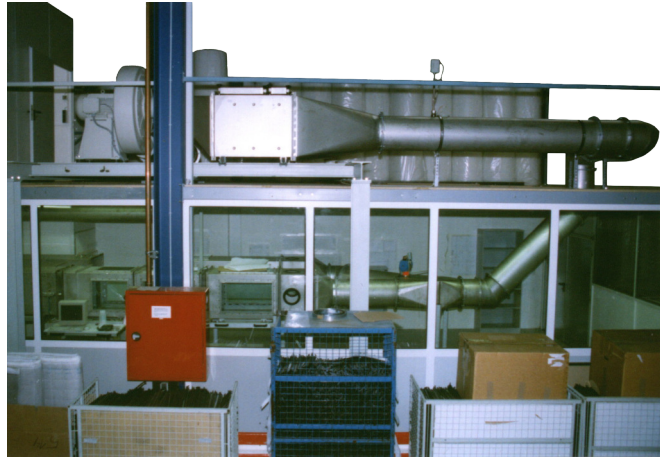


# GVT 3000



For over three decades, Palas® has built filter test systems for filters and filter media or has upgraded existing test rigs with components such as aerosol generators (droplets, salts, and solids), aerosol spectrometers, dilution systems, discharger systems, and automation software.

In the field of room air filtration, more than 14 existing test rigs have already been upgraded and automated using Palas® technology to satisfy our international customers.

Upgrading and automation of particle measurement, as offered by Palas® 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.

The Palas® aerosol generators offer unrivaled consistency in particle concentration and size. This forms the basis for the excellent repeatability of test results using the Palas® filter testing systems and test rig upgrades.

## BENEFITS

- Easy use of different test aerosols, e.g. SAE Fine and Coarse, NaCl/KCl, DEHS
- Highest dosing consistency in aerosol generation with the tried-and-tested Palas® aerosol generators
- High resolution measurement technology using we-las® 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 PM<sub>1</sub>, PM<sub>2.5</sub> and PM<sub>10</sub> 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
- Flexible filter test rig software FTControl
- Sequence programs for EN779:2012, ASHRAE 52.2 and ISO 16890
- Easy to operate - even untrained personnel can be quickly trained in the use of the equipment
- Short set-up times
- Cleaning and calibration can be performed autonomously by the customer
- Highest measurement reproducibility of the test system
- Easy use of the measurement technology components – even in other applications
- Reliable, fast, reproducible and therefore cost-effective measurement results

## 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

