

MFP 1000



MFP filter test rigs from Palas have already proven themselves many times over all around the world in practical applications in development and quality control.

The MFP filter test rig is a modular filter testing system for flat filter media and small filters. The MFP 1000 can be used to determine:

- pressure loss curve on the medium without a dust coating,
- fraction separation efficiency, or
- burden and fraction separation efficiency during application of the burden

within shortest times – reliably and therefore cost-effectively.

The corresponding aerosol generator can be used depending on the standard or application.

BENEFITS

- Particle size measurements from 120 nm
- Internationally comparable measurement results
- Widespread distribution of the measurement system
- High reproducibility of the testing method
- Easy use of different test aerosols, e.g. SAE Fine and Coarse, NaCl/KCl, DEHS
- Flexible filter test software FTControl
- Sequence programs for pressure loss measurements, measurements of fraction separation efficiency and burden measurements
- Easy to operate; even untrained personnel can be instructed quickly in the use of the equipment
- Short set-up times
- Cleaning and calibration can be performed autonomously by the customer
- Easy use of the measurement technology components – even in other applications
- Mobile setup, easy to move on castors
- Reliable operation
- Validation of the clear function of individual components and the overall system during pre-delivery acceptance testing and upon delivery
- Low-maintenance

APPLICATIONS

- For filter media and small mini-filters
- Product development and during production monitoring
- Fast and cost efficient testing of fractional efficiency with dust, oil or salt based on ISO 11155-1 (cabin air filters), ISO 5011 (engine pre-air filters), EN 779/ Ashrae 52.2/ ISO 16890 (room air filters)

MODEL VARIATIONS



MFP 1000 HEPA

Version with additional dilution for measuring high filter efficiencies

<https://www.palas.de/product/mfp1000hepa>

- Measurement of fractional efficiency and pressure

DATASHEET

Aerosols	Dusts (e.g., SAE dusts), salts (e.g., NaCl, KCl), liquid aerosols (e.g., DEHS)	Test area of the medium	100 cm ²
Measurement range (size)	0.12 – 40 µm	Measurement range (mass)	Up to 1,000 mg/m ³ (depending on the version)
Volume flow	1 – 35 m ³ /h - pressurized operation	Power supply	115 – 230 V, 50/60 Hz
Differential pressure measurement	0 – 1,200 Pa selectable, 0 – 2,500 Pa selectable, 0 – 5,000 Pa selectable	Inflow velocity	5 cm/s – 1 m/s (others on request)
Compressed air supply	6 – 8 bar	Dimensions	1,800 • 600 • 900 mm (H • W • D)