

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
MFP 1000 HEPA with Promo® 1000

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

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) |