## MFP 4000





ALA

MFP filter test rigs from Palas® have already proved 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 mini-filters.

This enables you to determine the

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

within shortest times - reliably and therefore cost-effectively.

The MFP 4000 operates in suction mode. This ensures a particularly uniform formation of the dust cake even at high inflow speeds.

With the new FTControl test rig software of the MFP 4000, the aerosol spectrometer  $Promo \otimes 1000/2000$  is used for clear and reliable determination of the aerosol concentration ...

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## **BENEFITS**

- Simultaneous particle measurement in the raw gas and clean gas
- Particle size measurements from 0.2 40  $\mu$ m
- Measurement of  $C_{n\,max} = 10^6 \text{ particles}/\text{cm}^3$  without dilution
- 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
- Highest raw gas concentrations of up to >1000  $\rm mg/m^3$  (ISO Fine) or >5000  $\rm mg/m^3$  (ISO Coarse) with measurement of the fraction separation efficiency for burden tests
- 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

## APPLICATIO



- Product development and during production monitoring
- Testing based on ISO 11155-1 / DIN 71460-1 (cabin air filters)
- Testing based on ISO 5011 (engine pre-air filters)
- Testing based on ISO 16890 (room air filters)
- Other standards in various versions



## DATASHEET

Aerosols	Dusts (e.g., SAE dusts), salts (e.g., NaCl, KCl), liquid aero- sols (e.g., DEHS)	Test area of the medi- um	100 cm <sup>2</sup>
Measurement range (size)	0.2 – 40 μm	Measurement range (mass)	Up to 1,000 mg/m <sup>3</sup> (depen- ding on the version)
Volume flow	1 – 35 m <sup>3</sup> /h - suction mode	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 re- quest)	Compressed air supply	6 – 8 bar