



**Modular filter media test rig** for fractional efficiency, differential pressure, dust holding capacity and gravimetric efficiency in **suction mode**. Version **HF** with **temperature and humidity control**

## Benefits

- Virtually simultaneous particle measurement in the raw gas and clean gas
- Particle size measurements from 0.2 – 40  $\mu\text{m}$
- Measurement of  $C_{n\text{ max}} = 10^6$  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  $\text{mg}/\text{m}^3$  (ISO Fine) or > 5000  $\text{mg}/\text{m}^3$  (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

## Applications

- For filter media and small filter elements
- product development/ 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)

## Model Variations



### MFP 3000 C

Version for testing filter media better than DIN 71460 and ISO 11155-1 road vehicle interior filters

<https://www.palas.de/product/mfp3000c>



### MFP 3000 FTD

MFP 3000 with additional test duct for 400  $\text{cm}^2$  filter test area

<https://www.palas.de/product/mfp3000ftd>

... more variations available

<https://www.palas.de/product/mfp3000>

## Datasheet

Parameter	Description
Measurement range (size)	0.2 – 40 $\mu\text{m}$
Volume flow	1 – 35 $\text{m}^3/\text{h}$ (suction mode)
Dimensions	680 • 2,500 • 1,550 mm (W • H • D)
Inflow velocity	5 – 100 $\text{cm/s}$ (others on request)
Differential pressure measurement	0 – 5,000 Pa
Test area of the medium	100 $\text{cm}^2$
Aerosols	Dusts (e. g. SAE dusts), salts (e. g. NaCl, KCl), liquid aerosols (e. g. DEHS)
Aerosol concentrations	For SAE Fine without additional dilution up to 1,000 $\text{mg/m}^3$ (ISO A2 Fine)
Compressed air supply	6 – 8 bar

**Palas GmbH**  
 Partikel- und Lasermesstechnik  
 Greschbachstrasse 3 b  
**76229 Karlsruhe**  
 Germany

**Managing Partner:**  
 Dr.-Ing. Maximilian Weiß, Udo Fuchslocher  
**Commercial Register:**  
 register court: Mannheim  
 company registration number: HRB 103813  
 USt-Id: DE143585902



**Contact:** E-Mail: [mail@palas.de](mailto:mail@palas.de) Internet: [www.palas.de](http://www.palas.de) Tel: +49 (0)721 96213-0 Fax: +49 (0)721 96213-33