



MFP 3000 with additional test duct for 400 cm<sup>2</sup> filter test area

## Benefits

- Additional test channel in FTD 3000
- Enhanced comparability of inhomogeneous filter media
- Optional: The FTD 3000 can also be used as stand-alone device (special model) without MFP 3000
  - Can be directly connected to the suctioning and compressed air connections of the MFP 3000 2 channels: 1 suctioning channel, 1 compressed air channel
- Virtually simultaneous particle measurement in the raw gas and clean gas
- Particle size measurements from 0.2 – 40 µm
- Measurement of  $C_{n,max} = 10^6$  particles/cm<sup>3</sup> 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 mg/m<sup>3</sup> (ISO Fine) or > 5000 mg/m<sup>3</sup> (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

## 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)
- Other standards in various versions
- Fully automatic measurement of the fractional efficiency, the pressure drop curve, the dust holding capacity and the gravimetric efficiency
- International comparable results due to the high distribution of the system



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

## Datasheet

Parameter	Description
Measurement range (size)	0.2 – 40 µm
Volume flow	1 – 36 m <sup>3</sup> /h (suction mode)
Dimensions	approx. 600 • 2,500 • 900 mm (MFP 3000), approx. 440 • 2,200 • 440 mm (FTD)
Inflow velocity	20 cm/s (others on request)
Differential pressure measurement	0 – 5,000 Pa
Test area of the medium	100 cm <sup>2</sup> , 400 cm <sup>2</sup> (FTD)
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 mg/m <sup>3</sup> (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  
**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