# MFP 3000







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 3000 operates in suction mode. This ensures a particularly uniform formation of the dust cake even at high inflow speeds.

With the aid of the light scattering spectrometer Promo® 3000, clear and reliable determination of the aerosol concentration and the particle size and therefore a clear determination ...

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## **BENEFITS**

- Virtually simultaneous particle measurement in the raw gas and clean gas
- Particle size measurements from  $0.2 40 \mu m$
- Measurement of  $C_{n max} = 10^6 particles/cm^3 without$
- · 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  $mg/m^3$  (ISO Fine) or > 5000  $mg/m^3$  (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

#### APPLICA



- For filter media and small filter elements
- · Product development and during production monito-
- Testing based on ISO 11155-1 / DIN 71460-1 (cabin
- 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 cm<sup>2</sup> filter test area

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



# **DATASHEET**

Aerosols	Dusts (e.g., SAE dusts), salts (e.g., NaCl, KCl), liquid aerosols (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/m³ (depending on the version)
Volume flow	$1-35  \mathrm{m}^3/\mathrm{h}$ - 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 request)	Compressed air supply	6 – 8 bar
Dimensions	2.500 • 680 • 1.550 mm (H • B • T)		