

MFP 3000 FTD



The MFP 3000 FTD filter test rig comprises the test rig MFP 3000 with a test surface of 100 cm² and the additional conduit FTD 3000 with a test surface of 400 cm², which can be operated in turn.

The MFP 3000 FTD operates in suction mode. This ensures an exceptionally uniform dust cake formation even at high inflow speeds.

BENEFITS

- Additional test channel in FTD 3000
- The FTD 3000 can also be used as stand-alone device (special model) without MFP 3000
- Virtually simultaneous particle measurement in the raw gas and clean gas
- Particle size measurements from 0.2 – 40 μm
- Measurement of $C_{n\text{ max}} = 10^6$ particles/cm³ without dilution
- Internationally comparable measurement results
- 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/m³ (ISO Fine) or > 5000 mg/m³ (ISO Coarse) with measurement of the fraction separation efficiency for burden tests
- Sequence programs for pressure loss measurements, measurements of fraction separation efficiency and burden measurements
- Easy to operate
- Short set-up times
- Cleaning and calibration can be performed by the customer
- Easy use of the measurement technology components – even in other applications
- Mobile setup, easy to move on castors
- 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 filter elements
- 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
- 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

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 , 400 cm ² (FTD)
Measurement range (size)	0.2 – 40 µm	Measurement range (mass)	Up to 1,000 mg/m ³ (depending on the version)
Volume flow	1 – 36 m ³ /h - suction mode	Differential pressure measurement	0 – 1,200 Pa selectable, 0 – 2,500 Pa selectable, 0 – 5,000 Pa selectable
Inflow velocity	20 cm/s (others on request)	Compressed air supply	6 – 8 bar
Dimensions	MFP 3000: approx. 600 • 2,500 • 900 mm (H • W • D), FTD: approx. 440 • 2,200 • 440 mm (H • W • D)		

NORMS AND CERTIFICATES

ISO 5011, ISO/TS 19713, DIN 71460, ISO 11155-1, EN 779, ASHARE 52.2, ISO 16890