

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 $C_{n\ max} = 10^6$ 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

气溶胶	Dusts (e.g., SAE dusts), salts (e.g., NaCl, KCl), liquid aerosols (e.g., DEHS)	滤材测试面积	100 cm ² , 400 cm ² (FTD)
测量范围(粒径)	0.2 – 40 µm	测量范围(质量)	Up to 1,000 mg/m ³ (depending on the version)
体积流量	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)		

标准和证书

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