

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.

工作原理

ADDITIONAL TEST DUCT FOR 400 CM² FILTER TEST AREA

The MFP 3000 FTD is easily connected as an additional canal with a 400 cm² filter area to the volume flow control and pressure loss measurement of the MFP 3000 by a pneumatic connector.

The aerosol sensors for fractional efficiency measurement are connected to the sampling probes at the FTD channel. Thus, the user simply has a new test channel at his disposal.

With the same extraction capacity, larger media up to 400 cm² filter area can thus be tested about fractional collection efficiency and service life.

优势

- Additional test channel in FTD 3000
- The FTD 3000 can also be used as stand-alone device (special model) without MFP 3000
- 原气与净气准同步颗粒测量
- 粒径测量范围0.2 – 40 μm
- 最高测量浓度达10颗粒/立方厘米（无需稀释）
- 测量结果具备国际可比性
- 测试方法重现性高
- 支持多种测试气溶胶（包括SAE 细/粗颗粒、NaCl/KCl、DEHS 等）
- 承载测试中可实现极高原气浓度测量 $>1000 \text{ mg/m}^3$ （ISO 细颗粒）或 $> 5000 \text{ mg/m}^3$ （ISO粗颗粒）下的分级分离效率
- 配备序列程序用于压力损失测量、分级分离效率测量及负载测量
- 操作简便
- 准备时间短
- 用户可自行完成清洁与校准
- 测量组件便于使用（可适配其他应用场景）
- 移动式设计（带脚轮便于移位）
- 交付前验收及交付时验证各组件及整机系统功能清晰可靠
- 维护需求低

标准和证书

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

技术数据

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)

应用领域

- 适用于过滤介质及小型滤芯
- 产品开发与生产过程监控
- 测试基于ISO 11155-1 / DIN 71460-1 标准（车厢空气过滤器）
- 测试基于ISO 5011 标准（发动机预进气过滤器）
- 测试基于ISO 16890 标准（室内空气过滤器）
- 各版本其他相关标准
- 全自动测量分级效率、压降曲线、容尘量及重量法效率
- 基于系统的广泛适用性，确保测量结果具备国际可比性



Mehr Informationen:

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