MFP 2000

MFP 滤料测试台是一种模块化过滤测试系统，适用于平面滤材和小型微型滤芯。MFP 2000 可在极短时间内可靠且经济地测定以下参数：无尘涂层滤料的压力损失曲线、分级分离效率，以及在负载施加过程中的容尘量与分级分离效率。

该系统的气溶胶发生器更换便捷，且与整体系统协调匹配，因而能够快速简便地使用不同测试气溶胶完成过滤测试。借助光散射粒径谱仪Promo® 2000，可确保清晰可靠地测定气溶胶浓度和粒径，从而精确计算分级分离效率。

通过高度自动化的测试流程设置、明确界定的独立组件以及滤料测试软件FTControl 中可个性化调整的序列程序，共同保证了测量结果的高度可靠性。...

优势

- Particle size measurements from 0.2 μm
- 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
- Sequence programs for pressure loss measurements, measurements of fraction separation efficiency and burden measurements
- 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

应用领域

- 适用于过滤介质与小型微型滤芯
- 用于产品开发及生产过程监控
- ISO 11155-1（车厢空气过滤器）
- ISO 5011（发动机预进气过滤器）
- ISO 16890（室内空气过滤器）
- EN 1822-3（HEPA 高效过滤器）
- CEN EN 143 及各版本相关标准

特点

- Measurement of fractional efficiency and pressure loss vs. volume flow
- Use of the Promo® 2000 aerosol spectrometer
- Customized filter adapters and adaptations in the air duct possible
- On-site calibration and adjustment (particle size and volume flow)
- Checking volume flow and pressure loss using a perforated plate

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
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 – 35 m^3/h - pressurized operation
电源	115 – 230 V, 50/60 Hz
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	1,800 • 600 • 900 mm (H • W • D)

标准和证书

ISO 11155-1, ISO 5011, ISO 16890, EN 1822-3, CEN EN 143