MFP 3000 G

Version MFP 3000 G is especially tailored to the requirements of the ISO 16890 measurement procedure.

Benefits

- Virtually simultaneous particle measurement in up- and down stream
- 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 > 70 mg/m^3 (ISO Fine) or > 300 mg/m^3 (ISO Coarse) with measurement of the fraction separation efficiency for loading tests
- Sequence programs for pressure loss measurements, measurements of fraction separation efficiency and burden measurements
- 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
- Validation of the clear function during acceptance testing

Features

- Measurement of fractional efficiency and pressure loss vs. volume flow
- Use of the Promo® 3000 aerosol spectrometer
- Connection of the sensors in raw and clean gas
- Customized filter adapters and adaptations in the air duct possible
- On-site calibration and adjustment (particle size and volume flow)
- Checking the volume flow and pressure loss using a perforated plate

Applications

- Testing of filter media and small filter elements in product development and during production monitoring.
- Testing option based on ISO 16890 (General ventialtion air filters), the test procedure according to ASHRAE 52.2 or EN 779 is optinal available.

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
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	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)

NORMS AND CERTIFICATES

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