

# MFP 3000 C



Version MFP 3000 C is specially tailored to the requirements of the DIN 71460 and ISO 11155-1 Road vehicle interior filters measurement procedures.

## BENEFITS

- Virtually simultaneous particle measurement in the raw gas and clean gas
- Particle size measurements from 0.2 – 40  $\mu\text{m}$
- Measurement of  $C_{n \max} = 10^5$  particles/ $\text{cm}^3$  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 > 100  $\text{mg}/\text{m}^3$  (ISO Fine) or > 500  $\text{mg}/\text{m}^3$  (ISO Coarse) with measurement of the fraction separation efficiency for burden tests
- Flexible filter test software FTControl
- 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 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 of individual components and the overall system during pre-delivery acceptance testing and upon delivery

## APPLICATIONS

- Testing of filter media and small filter elements in product development and during production monitoring.
- Testing option based on ISO 11155-1 / DIN 71460-1 (cabin air filters).

## FEATURES

- Measurement of fractional efficiency and pressure loss vs. volume flow
- Use of the Promo<sup>®</sup> 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

## DATASHEET

|                    |  |                                   |   |
|--------------------|--|-----------------------------------|---|
| Aerosols           | Dusts (e.g., SAE dusts), salts (e.g., NaCl, KCl), liquid aerosols (e.g., DEHS) | Test area of the medium           | 100 cm <sup>2</sup>   |
| Measurement (size) | range 0.2 – 40 µm  | Measurement (mass)                | range Up to 1,000 mg/m <sup>3</sup> (depending on the version)            |
| Volume flow        | 1 – 35 m <sup>3</sup> /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)   |                                   |   |