FET 600

The FET 600 enables defined testing of filter elements up to 610 • 610 mm, such as ventilation filters, HEPA/ULPA filters, vacuum cleaner filters, and car cabin filters.Designed for optimum flow guidance, the channel can also use adapters for smaller filter elements.Coarse filters up to ULPA filters are tested for separation via particle size and differential pressure.

Thanks to individual adapters and customer-specific adaptations in the air duct, the FET system can be used for a wide variety of filter elements.

Benefits

- Measurement according to ISO 29463-5 and ISO 16890 (ISO ePM$_1$; ISO ePM$_{2.5}$) in one channel
- Double channels on request
- Particularly wide range of applications for separation efficiency measurement from 0.02 to 3 μm
- Customization possible for optimal test execution
- Horizontal design to minimize particle losses
- Easy to use for filter elements as well as for material testing (adapter required)
- Logged results based on the relevant standards
- Test benches tested and calibrated ex works

Features

- Measurement of fractional efficiency and pressure loss vs. volume flow
- Connection of Promo® aerosol spectrometers and SMPS systems
- 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

- Development
- Quality control for
  - Cabin filters
  - HEPA/ULPA clean room filters
  - Cabin air filters
  - Engine air filters
  - Compressor supply air filters
- Measurement of MPPS according to ISO 29463-5
- Measurement of the fractional separation efficiency according to ISO 16890
- Determination of the pressure loss at different volume flows

https://www.palas.de/en/product/FET600

DATASHEET

Aerosols	Dusts (e.g., SAE dusts), salts (e.g., NaCl, KCl), liquid aerosols (e.g., DEHS), latex particles (PSL)	Measuring range (total penetration)	Up to 0.0005 %
Measurement range (size)	0.02–100 μm	Volume flow	40–1,500 m^3/h -pressurized operation
Differential pressure measurement	0 – 1,200 Pa selectable, 0 – 2,500 Pa selectable, 0 – 5,000 Pa selectable	Size filter element	610 • 610 • 610 mm (H • W • D)

NORMS AND CERTIFICATES

ISO 29463-5, ISO 16890