



PMFT 1000 F as an all-rounder in the testing of almost all mask and filter types. Test of total penetration better than the standard, exact analysis of filter mask efficiency from 145 nm to 40 μm

Benefits

- Test rig working principle better than EN 143, ISO 16900-3, 42 CFR 84, EN 149 and EN 13274-7
- Determination of photometric total penetration for the size range according to standard
- Includes two aerosol generators for NaCl and for oil
- Testing of fractional efficiency, e.g., efficiency in whole size range of 145 nm up to 40 μm
- Exact analysis of filter and filter mask efficiency for SARS-CoV-2 (size approx. 120 nm up to 160 nm). Efficiency also displayed at 145 nm
- Future proof: Works with any kind of aerosol without adjustments
- Further measurement of differential pressure, e.g., as well within different face velocities to simulate test of breathing resistance
- Face velocity adjustable between 1.5 – 70 cm/s
- Product for fast quality assurance **and** continuous optimization in RD (display of size distribution)
- Attractive two years maintenance package for availability of test rig
- Can be operated with standard filter threads according to EN 148-1
- Measurement of filter efficiencies up to 99.9995 %

Applications

- Test of respiratory masks with standard filter threads according to EN 148-1
- Test of total penetration for respiratory masks
- Exact analysis of filter mask efficiency for e.g., Coronavirus
- Filter testing for HEPA quality



<https://www.palas.de/product/pmft-1000-f>

PMFT 1000 F



Datasheet

| <i>Parameter</i> | <i>Description</i> |
|----------------------------------------------|----------------------------------------------------------------------------|
| Measuring range (total penetration) | 0,0005 - 0,1% |
| Measurement range (size) | 0.145 – 40 μm |
| Volume flow | 1 – 27 m ³ /h- pressurized operation |
| Installation conditions | +10 – +40 °C |
| Inflow velocity | 1.5 – 70 cm/s (others on request) |
| Differential pressure measurement | 0 – 1,200 Pa |
| Test area of the medium | 100 cm ² |
| Aerosols | Salts (e.g. KCl, NaCl), liquid aerosols (e.g. DEHS), latex particles (PSL) |
| Compressed air supply | 6 – 8 bar |
| Dilution factor | 1:27 / 1:700 |
| Power supply | 115 – 230 V, 50/60 Hz |
| Test conditions according to standard | +19 – +23 °C |
| Dimensions | Approx. 1,800 • 600 • 900 mm (H • W • D) |

Palas GmbH
Partikel- und Lasermesstechnik
Greschbachstrasse 3 b
76229 Karlsruhe
Germany

Managing Partner:
Dr.-Ing. Maximilian Weiß, Udo Fuchslocher
Commercial Register:
register court: Mannheim
company registration number: HRB 103813
USt-Id: DE143585902



Contact: E-Mail: mail@palas.de Internet: www.palas.de Tel: +49 (0)721 96213-0 Fax: +49 (0)721 96213-33