

PMFT 1000 F



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 5 μm

BENEFITS

- Test rig working principle better than EN 143, ISO 16900-3, 42 CFR 84, EN 149, EN 13274-7 and GB 2626
- Determination of photometric total penetration for the size range according to standard
- Includes two aerosol generators for NaCl and for oil
- Integrated corona discharger CD 2000 A
- 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

- Überprüfung von Vollschutzmaskenfiltern zur Verwendung mit Norm-Filterverschraubungen nach EN 148-1
- Messung der Gesamtpenetration von Atemschutzmasken
- Exakte Analyse von Filtermaskeneffizienz für bspw. Coronavirus
- Medientest für HEPA-Qualität

DATASHEET

Measuring range (total penetration)	0.0005 - 100 %
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
Aerosols	Salts (e.g. KCl, NaCl), liquid aerosols (e.g. DEHS), latex particles (PSL)
Compressed air supply	6 – 8 bar
Test area of the medium	100 cm^2
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)



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