PMFT 1000

PMFT 1000 for development and production monitoring of half masks. Test of total penetration better than the standard, exact analysis of filter mask efficiency from 100 nm to 3 μm

Benefits

- Test rig working principle better than EN 149 and EN 13274-7
- Equivalent to GB 2626, 42 CFR 84 and ASTM 2299-3 by additional software option
- Test of community masks equivalent to CWA 17553
- Meets the requirements for respirators specified by the CCF (Covid Certified Filter) quality seal[a]
- Includes two aerosol generators for oil and NaCl
- Testing of fractional efficiency, e.g., efficiency in whole size range of 100 nm up to 3 μm
- Exact analysis of filter and filter mask efficiency for SARS-CoV-2 (size approx. 120 nm up to 160 nm) in the size range between 100 nm and 180 nm we have eight size channels
- 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 measurement of breath resistance
- Face velocity adjustable between 1.5 – 70 cm/s
- Product capable of fast quality assurance **and** continuous optimization in RD (display of size distribution)
- Individual face mask adapter for your product
- Attractive two years maintenance package for availability of test rig

The software extension additionally offers:

- Display of penetration results of the entire tolerance range of the size distribution according to EN 13274-7
- Allows the comparison of different test institutes and test systems
- Facilitates certification
- Shows wide range of standards. Depending on the test operation – i.e., particle size distribution of the test aerosol – one and the same mask can perform very well or fail the test

Applications

- Development and production monitoring of half masks
- Test of total penetration for respiratory masks
- Exact analysis of filter mask efficiency for e.g., Coronavirus

[a] CCF-Siegel: https://www.ccf-quality.com/

DATASHEET

Measuring range (total penetration)	0.0005 - 100 %
Measurement range (size)	0.1 – 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
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)

Mehr Informationen:
https://www.palas.de/product/pmft-1000

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