

PMFT 1000 M



The PMFT 1000 M tests face masks better than the standards EN 149/EN 13274-7 with additional accurate analysis of filter mask efficiency for SARS-CoV-2 (size approximately 120 nm to 160 nm). Both total photometric penetration and fractional efficiency are tested, e.g., the efficiency in the whole size range, respectively, the particle size-dependent penetration.

优势

- 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
- 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 capable of fast quality assurance **and** continuous optimization in R&D (display of size distribution)
- Individual face mask adapter for your product
- 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

应用领域

- Reliable continuous operation in routine monitoring of half masks
- Test of total penetration for respiratory masks
- Exact analysis of filter mask efficiency e.g., Coronavirus
- Can be operated as Mas-Q-Check with optional Mas-Q-Head

技术数据

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|-------------------------|--|---------------------------------------|-----------------------|
| 气溶胶 | Salts (e.g. KCl, NaCl), liquid aerosols (e.g. DEHS), latex particles (PSL) | 滤材测试面积 | 100 cm ² |
| 测量范围(总穿透率) | 0.0005 - 100 % | 测量范围(粒径) | 0.145 – 40 μm |
| 体积流量 | 1 – 27 m ³ /h - pressurized operation | 电源 | 115 – 230 V, 50/60 Hz |
| Installation conditions | +10 – +40 °C | Differential pressure measurement | 0 – 1,200 Pa |
| Inflow velocity | 1.5 – 70 cm/s (others on request) | Compressed air supply | 6 – 8 bar |
| Dilution factor | 1 : 27 | Test conditions according to standard | +19 – +23 °C |
| Dimensions | Approx. 1,800 • 600 • 900 mm (H • W • D) | | |

标准和证书

CCF (Covid Certified Filter), EN 149, EN 13274-7, GB 2626, 42 CFR 84