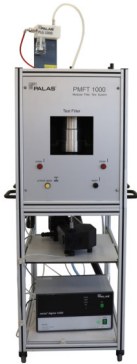


# PMFT 1000



Test of respiratory masks better than the standard. Exact analysis of filter mask efficiency from 100 nm up to 40  $\mu\text{m}$ . SARS-CoV-2 size approx. 120 nm - 160 nm.

## Benefits

- Test rig working principle better than GB 2626, EN 143, EN 149 and EN 13274-7
- Equivalent to GB 2626, 42 CFR 84 and ASTM 2299-3 by additional software option
- Includes 2 Aerosol generators for NaCl and oil
- Upgrade KIT for GB 2626, 42CFR84 and ASTM 2299-3 available
- Testing of fractional efficiency, e.g. efficiency in whole size range of 100 nm up to 40  $\mu\text{m}$
- Exact analysis of filter and filter mask efficiency for Corona Virus (size approx. 120 nm up to 160 nm) in the size range between 100nm and 180 nm we have 8 size channels
- Future proof: Works with any kind of aerosol without adjustments
- Simulation of breathe resistance by measurement of differential pressure at different face velocities
- Face velocity adjustable between 1.5 - 50 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 2 years maintenance package for availability of test rig

## Applications

- Test of respiratory masks
- Exact analysis of filter mask efficiency for e.g. Corona Virus
- Filter testing for HEPA quality



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

## Datasheet

| <i>Parameter</i>                             | <i>Description</i>   |
|--|--|
| <b>Measurement range (size)</b>              | 0,10 – 40 µm   |
| <b>Volume flow</b>                           | 1 – 27 m <sup>3</sup> /h (Druckbetrieb)  |
| <b>Power supply</b>                          | 115/230 V, 50/60 Hz  |
| <b>Dimensions</b>                            | approx. 600 • 1,800 • 900 mm (W • H • D)   |
| <b>Installation conditions</b>               | 10 – 40 °C   |
| <b>Test conditions according to standard</b> | 19 – 23 °C   |
| <b>Inflow velocity</b>                       | 5 – 100 cm/s (others on request)   |
| <b>Differential pressure measurement</b>     | 0 – 1200 Pa  |
| <b>Test area of the medium</b>               | 100 cm <sup>2</sup>  |
| <b>Aerosols</b>                              | Dusts (e. g. SAE dusts), salts (e. g. NaCl, KCl), liquid aerosols (e. g. DEHS)       |
| <b>Aerosol concentrations</b>                | For SAE Fine without additional dilution up to 1,000 mg/m <sup>3</sup> (ISO A2 Fine) |
| <b>Compressed air supply</b>                 | 6 – 8 bar  |

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