

# 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 EN 143, 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<sup>a</sup>**
- Includes two Aerosol generators for oil and NaCl
- 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 SARS-CoV-2 (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
- 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 2 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

## 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>

# PMFT 1000



## Datasheet

<i>Parameter</i>	<i>Description</i>
<b>Measurement range (size)</b>	0.1 – 40 $\mu\text{m}$
<b>Volume flow</b>	1 – 27 $\text{m}^3/\text{h}$ (pressure mode)
<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>	3,5 – 70 cm/s (others on request)
<b>Differential pressure measurement</b>	0 – 1200 Pa
<b>Test area of the medium</b>	
	100 $\text{cm}^2$
<b>Aerosols</b>	Salze (z. B. NaCl, KCl), Flüssigaerosole (z. B. DEHS), Latexpartikel (PSL)
<b>Compressed air supply</b>	6 – 8 bar

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