

MFP Nano plus 4000



MFP Nano plus 4000 with U-SMPS - Real-time determination of fraction separation efficiency in accordance to **DIN EN 1822-3 und ISO 29463-3** with two **UF-CPC** in raw and clean gas and detection of MPPS range

Benefits

- Real-time determination of the fraction separation efficiency above 10 nm
- The measuring time for determining the fraction separation efficiency is halved by measuring the particle concentration in the raw and clean gas.
- No dilution necessary!
- Combining two UF-CPC versions, the UF-CPC for the highest concentrations up to 2,000,000 particles/cm³ (single count mode) in the raw gas and the UF-CPC 50 for top counting rates at low concentrations in the clean gas, corresponds to a dilution factor of 1:200.
- Internationally comparable measurement results in accordance with DIN EN 1822-3 and ISO 29463-3
- Simple use of different test aerosols, such as NaCl / KCl or DEHS (others on request)
- Simple measurement of the fraction separation efficiency and determination of the MPPS range
- High reproducibility of the test method
- Flexible filter test software FTControl
- Easy to operate, even untrained personnel can be quickly trained in the use of the equipment
- Cleaning can be performed independently by the customer
- Short set-up times, fast throughput times
- Mobile set-up, easy to move on castors
- Clear verification of the function of the individual components and the system as a whole in the scope of pre-delivery acceptance testing and at delivery
- Reliable functioning

Applications

- Prüfung von Filtermedien und kleinen Minifiltern in der Produktentwicklung und bei der Produktion-überwachung
- Prüfmöglichkeit nach DIN EN 1822-3 (HEPA / ULPA) und ISO 29463-3
- Fraktionsabscheidegradmessung für andere Filtermedien im Bereich von ca. 20 nm bis 1 µm



<https://www.palas.de/product/mfpnanoplus4000>

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Datasheet

Parameter	Description
Measurement range (size)	U-SMPS 2050: 10 – 800 nm
Volume flow	0.54 – 16 m ³ /h (pressurized operation)
Power supply	115/230 V, 50/60 Hz
Dimensions	approx. 600 • 1,800 • 900 mm (W • H • D)
Inflow velocity	1.5 – 40 cm/s (others on request)
Differential pressure measurement	0 – 2,500 Pa (others on request)
Test area of the medium	100 cm ²
Aerosols	Dusts (e. g. SAE dusts), salts (e. g. NaCl, KCl), liquid aerosols (e. g. DEHS)
Compressed air supply	6 – 8 bar

Palas GmbH
Partikel- und Lasermesstechnik
Greschbachstrasse 3 b
76229 Karlsruhe
Germany

Managing Partner:
Dr.-Ing. Maximilian Weiß
Commercial Register:
register court: Mannheim
company registration number: HRB 103813
USt-Id: DE143585902



Contact: E-Mail: mail@palas.de Internet: www.palas.de Tel: +49 (0)721 96213-0 Fax: +49 (0)721 96213-33