DEMC 1000

The DEMC size classifier (as defined in ISO 15900:2000) selects aerosol particles from an aerosol stream according to their electrical mobility. Different lengths of columns are available depending on the size range to be selected. Depending on the configuration of the control unit and column, the designation changes accordingly.

The size classifier is suitable in combination with condensation particle counters from the Palas UF-CPC , ENVI-CPC series or electrometers (Charme®) for measuring the number concentrations of different aerosols in scientific and regulatory environments. Alternatively, columns and particle counters from other manufacturers can also be integrated.

Benefits

- The user is able to select any size within the defined size range.
- The DEMC can be connected to many counters to form an SMPS.
- Continuous and fast-scanning principle of measurement
- Graphic display of measurement values
- Intuitive operation using 7″ touchscreen and GUI
- Integrated data logger
- Low maintenance
- Reliable function
- Reduces your operating expenses

Applications

- Calibration of condensation particle counters (CPC)
- Monodisperse particle source
- System component of an SMPS

Model Variations

DEMC 1000 X
Differential electrical mobility classifier from 4 – 600 nm with integrated X-ray ionization
https://www.palas.de/en/product/demc1000x

DATASHEET

Volume flow (sheath air)	2.5 – 14 l/min (others on request)
Size channels	Max. 256 (128/decade)
User interface	Touchscreen, 800 • 480 pixel, 7″ (17.78 cm)
Data logger storage	4 GB
Software	PDAnalyze
Power supply	90 – 264 V, 50/60 Hz
Classifying range (size)	4–600 nm
Installation conditions	+5 – +40 °C (control unit)
Impactor	Nozzle for 3 different cut-offs
Adjustment range (voltage)	1 – 10,000 V
Data Management	Prepared for connection to the Palas Cloud MyAtmosphere (“MyAtmosphere-ready”); Internet access and separate registration required. The MyAtmosphere terms of use apply.

NORMS AND CERTIFICATES

ISO 15900:2010, CEN/TS 17434:2020