



The DEMC size classifier (as defined in ISO 15900) selects aerosol particles based on their electrical mobility and directs them to the outlet. It is also often referred to as a DMA.

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 2000 X

Differential electrical mobility classifier from 8 – 1,400 nm with integrated X-ray ionization

<https://www.palas.de/product/demc2000x>

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	Classifying (size) range	4 – 1,489 nm
Installation conditions	+5 – +40 °C (control unit)	Impaktor	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.