DC 10000



The DC 10000 consists of four cascaded special dilution systems with a dilution factor of 1:10. The DC 10000 dilution cascade has one aerosol inlet and four aerosol outlets. Depending on which aerosol outlet is connected to the measuring device, the aerosol with the dilution factors 1:10, 1:100, 1:1,000, or 1:10,000 are diluted.

The DC 10000 can be operated with all standard optical particle counters (OPC) according to ISO 12501-4 or optical aerosol spectrometers (OAS) according to ISO 12501-1. The DC 10000 can be used up to a particle size of approx. 5 μm.

Benefits

- No compressed air connection; only electrical power supply 115 - 230 V, 50 - 60 Hz
- Dilution factors 1:10, 1:100, 1:1,000, 1:10,000
- The user can perform a simple functional test on-site
- The dilution systems can be combined with all common particle counters
- The dilution systems from Palas are characterized unambiguously. This is documented with a calibration certificate for each individual device.

Applications

- Aerosol dilutions in filter media test systems, e.g. MFP 1000 HEPA and MFP Nano plus according to EN 1822 and ISO 29463
- Aerosol dilution in clean rooms
- Aerosol dilution in the operating room to determine the level of protection according to SWKI VA 105-1 and DIN 1946-4
- Recovery tests according to ISO 14644-3

DATASHEET

Volume flow (clean air)	72 – 180 l/min
Volume flow (suction flow)	2 – 5 l/min
Power supply	115 – 230 V, 50/60 Hz
Isokinetic suction nozzles	2 – 5 l/min, 15 – 37 l/min
Maximum particle size	< 5 µm
Dilution factor	1 : 10, 1 : 100, 1 : 1,000, 1 : 10,000
Dimensions	Approx. 500 • 230 • 150 mm (H • W • D)
Weight	Approx. 10 kg

NORMS AND CERTIFICATES

DIN 1946-4, EN 1822, ISO 12501-1, ISO 14644-3, ISO 29463, SWKI VA 105-1