

MODEL 5561

ELECTROSTATIC PRECIPITATOR

The GRIMM 5561 electrostatic precipitator is a sampler for aerosols over a wide size range from 0.8 – 1094 nm.

The particles can be collected for off-line analysis on different substrates that are suitable for a variety of common analytical tools like transmission electron microscopes (TEM), scanning electron microscopes (SEM), or atomic force microscopes (AFM).

For sampling well defined size fractions, all GRIMM DMAs are designed to be combined with the precipitator.



FEATURES

- particle collection on different substrates
- collection of size-selected particles
- compatible with all GRIMM DMAs
- user-selectable voltage and electrode diameters

APPLICATIONS

- investigation of particle morphology by TEM, SEM, or AFM
- composition of single particles or of bulk samples

0.8 - 1094 nm

sample for TEM,
SEM, or AFM

0.3 - 5.0 L/min

different sample
substrates

10 or 20 mm
sampling electrodes

TECHNICAL DATA

SPECIFICATIONS

size range	0.8 – 1094 nm (compliant with GRIMM DMAs)
sample flow	0.3 – 5.0 L/min (pump not included)
voltage	0 – 10 000V, positive polarity, free selectable negative available on request

FUNCTION

sampling substrates	conducting or non-conducting
sampling electrodes	10 or 20 mm in diameter; magnetic

HANDLING

status indication	voltage display and LED
power supply	100 – 240 VDC, 50-60 Hz or 12-18 VDC,
power consumption	18 W
ambient temperature	10 – 40°C (50 – 104°F)
ambient humidity	0 – 95% RH, non-condensing
absolute pressure range	600 – 1100 mbar
dimensions (h x w x d)	25 x 11.5 x 11.5 cm (9.8 x 4.5 x 4.5 in)
weight	2.2 kg (4.9 lbs)