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PartectorTEM

Nanoparticle TEM sampler

Key benefits of the partectorTEM

- Miniature & lightweight
- Full functionality of the standard partector
- Easy to use push-button sampling
- Integrated measurement
- Easy TEM grid handling in the field
- Automatic determination of optimal sampling time
- Online display of current sample coverage

Specifications

Measurement unit:	LDSA Lung Deposited Surface Area
Concentration range:	0 – 20'000 µm²/cm³
Particle size range:	0.01 - 10 µm
Accuracy:	±30 %
Flow rate:	0.45 l/min
Battery life:	15 hours
Size:	14.2 cm x 7.8 cm x 2.9 cm
Weight:	430 g
Time resolution:	4 seconds (faster on request)
TEM sampling:	electrostatic deposition on standard 3.05mm TEM grids
Sampling efficiency:	~ 3% at 50nm

Description

Our TEM sampler combines the partector with an electrostatic precipitator to deposit nanoparticles directly on a TEM grid. You can use it as a simple survey instrument to quickly identify nanoparticle sources in workplaces and use it to sample particles directly to a standard transmission electron microscope (TEM) grid. It is the perfect marriage of a simple survey instrument with the most powerful analytical technique for nanoparticles.

TEM sampling

The partector TEM sampler is the only nanoparticle sampler that can determine the coverage of the sample online, and stop sampling when the optimal coverage is reached. You will never have empty or overloaded samples again