

7860

WOx Tungsten Oxide Nanoparticle Generator

Adjustable aerosol generation between 1.2 and 20 nm

- Well-defined aerosol material (WOx)
- Continuously adjustable heating source
- Controllable mean particle size and number concentration



Features

- Particle size range 1.2 ... 20 nm
- Wide range of aerosol outlet flow rate: 0.3 ... 39 l/min
- Well-defined aerosol material (WOx)
- Three adjustable air flows: WOx air, carrier air, dilution air
- Continuously adjustable heating source

Benefits

- Controllable mean particle diameter
- Controllable particle number concentration
- Displays for voltage and current of heating source
- Integrated storage for replacement coils and ceramic cleaning rod
- Compact and robust design

Technical data

Particle size range of generated aerosol	Typically 1.2 ... 20 nm
Particle number concentration	Variable up to 10 ⁷ p/cm ³
Total aerosol outlet flow rate	Up to 39 l/min
WOx air	1.6 ... 16 l/h (0.03 ... 0.3 l/min)
Carrier air	50 ... 500 l/h (0.8 ... 8.3 l/min)
Dilution air	180 ... 1800 l/h (3 ... 30 l/min)
Material	Tungsten oxide (WOx)
Air supply	Requires external compressed air (2 ... 6 bar; oil and particle free)
Power supply	85 ... 264 VAC / 47 ... 440 Hz, max. 1 A (RMS by 110 VAC)
Handling	<ul style="list-style-type: none">• Flowrates controllable by adjustable rotameters• Heating source controllable by rotary potentiometer
Dimensions (h x w x d)	22 x 17.7 x 27 cm (8.7 x 7 x 10.6 inch)
Weight	7.5 kg (16.5 lbs)