

# 7811 Aerosol Generator

For generating aerosols from liquids, suspensions and solutions

- Multi-purpose nebulizer
- No compressed air needed



## Features

- **Generating aerosols from:**
  - All kind of liquids (aqueous, oil-like)
  - Suspensions, e.g. PSL
  - Solutions, e.g. NaCl, KCl
- **Dilution and drying of aerosol (optional)**
- **Two integrated pumps**
- **Two independently controllable flows:**
  - Nebulized air
  - Dilution air
- **Suitable for small liquid volumes**

## Benefits

- **Applications**
  - Instrument calibration and testing
  - Filter efficiency testing
  - Inhalation and toxicology studies
  - Generating multi-purpose test aerosols
- **Easy to operate and maintain**
  - Portable
  - No external compressed air needed
  - Easy access to silica gel cartridge for exchange
  - Up to six nebulizers stored inside the removable cover on the instrument's backside

## Technical data

Particle generating method	Nebulizer
Aerosol substances	<ul style="list-style-type: none"><li>• Suspensions, e.g. PSL Polystyrene Latex Spheres in water</li><li>• Aqueous solutions, e.g. salt-solutions (NaCl, KCl etc.)</li><li>• Oil-like liquids, e.g. DEHS or DOP only in conjunction with use of DEHS- and DOP-resistant nebulizer</li></ul>
Nebulizer flow rate	2.5 ... 7.0 l/min
Dryer flow rate	7.5 ... 17.0 l/min
Nebulizer liquid capacity	3 ... 10 ml
Nebulizer container	For storage of up to 6 nebulizers
Particle concentration	PSL: > 10 <sup>4</sup> particles/cm <sup>3</sup> DEHS: > 10 <sup>7</sup> particles/cm <sup>3</sup> NaCl-solution (@0.025 mg/cm <sup>3</sup> ): > 10 <sup>5</sup> particles/cm <sup>3</sup>
Particle size range	PSL: approx. 50 nm ... 2 µm DEHS: approx. 40 ... 400 nm Saline solutions: approx. 5 ... 200 nm
Ambient temperature	0 ... 40 °C (32 ... 104 °F)
Ambient humidity	0 ... 90% RH, non-condensing
Handling	<ul style="list-style-type: none"><li>• Adjustable nebulizer- and dryer-flow via two rotary knobs</li><li>• LCD display to monitor pressure of atomizer flow</li></ul>
Dimensions (h x w x d)	32.5 x 31 x 28 cm (12.8 x 12.2 x 11.02 inch)
Weight	11.0 kg (24.25 lbs)