

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

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| Particle generating method | Nebulizer |
| Aerosol substances | <ul style="list-style-type: none">• Suspensions, e.g. PSL Polystyrene Latex Spheres in water• Aqueous solutions, e.g. salt-solutions (NaCl, KCl etc.)• Oil-like liquids, e.g. DEHS or DOP only in conjunction with use of DEHS- and DOP-resistant nebulizer |
| 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 ⁴ particles/cm ³ DEHS: > 10 ⁷ particles/cm ³ NaCl-solution (@0.025 mg/cm ³): > 10 ⁵ particles/cm ³ |
| 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">• Adjustable nebulizer- and dryer-flow via two rotary knobs• LCD display to monitor pressure of atomizer flow |
| 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) |