

BMI:Aerosol Generation System

The Aerosol Generation System produces particles of known chemical composition and diameter size range, generally for laboratory experiments where specific aerosol chemical, size and concentration properties are desired.



Aerosol Generation System

Technical Specifications

Atomizer droplet number mode diameter:	0.6-1 μm
Syringe pump liquid flow rate:	0.03 ml/hr—2 ml/min
Typical output number concentration:	10,000-100,000 cm^{-3}
Atomizer & spray chamber:	13l x 7w x 7h in
Dilution chamber:	10l x 8w x 8h in
In-line dryer:	42l x 5 in diameter
Syringe pump:	13l x 8w 6h in
Total system weight:	15 lbs
Power supply voltage (syringe pump only):	100-230 VAC
Power:	12 watts
Operating temperature range:	15-45°C
Operating pressure range:	0.7-1 atm

Key Features:

- Constant output atomizer with controllable liquid supply flow rate
- Precise syringe pump with broad range of liquid flow rate control
- Atomizer sprays into a chamber to avoid backup and clogging of sprayed droplets
- Range of sample air flow rates between 6-20 lpm
- Dilution chamber for diluting high concentration atomizer output
- In-line desiccant dryer to dry droplets and create residue particles
- Easy-to-change dryer desiccant
- All stainless steel construction to avoid chemical artifacts associated with plastics
- Integrated filtered compressed air supply



For more information about Aerosol Generation Systems, visit our website at www.brechtel.com/Aerosol/Products/ or contact our sales department by email at bmi_info@brechtel.com or 510-732-9723