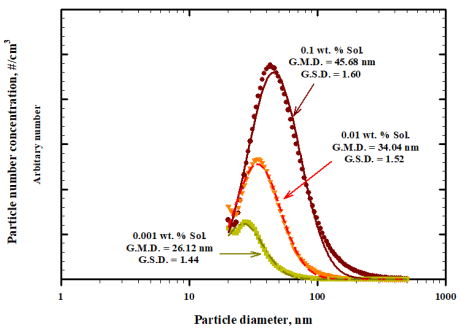
HCTM CO., LTD.

Aerosol Atomizer AG-01

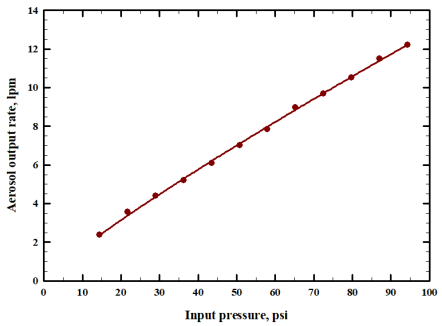


An important element of aerosol technology is the generation of test aerosol for calibration instruments, conducting aerosol research, and developing and testing air-cleaning and air-sampling equipment. The HCTM Aerosol Atomizer (AG-01) are jet-nozzle nebulizers that produce aerosols of small particle sizes by removing larger spray droplets by impaction within the atomizer. Compressed air at a supply pressure of 2.5kg/cm^2 exits from an orifice at a high velocity. The low pressure created at the exit region by Bernoulli effect causes the liquid to be drawn from a reservoir into the air stream. The liquid is disintegrated into small fine droplets through the jet orifice.

The Particle Size Distributions of Aerosol Atomizer (AG-01) according to NaCl Solution Concentration



The Relationship between Input Pressure and Aerosol Output Rate of Aerosol Atomizer (AG-01)



Application

- Filter media test
- Particle generation for instrument calibration
- Particle generation in wind tunnel
- Particle deposition in water deposition system

Specifications

Model	AG-01
Air Flow Rate	2.5 L/min at 2.5kg/cm^3
Particle Concentration	< 10^6 Particles/cm^3
Geometric Stanard Deviation	1.3 ~ 2.0
Pressure Source	Air Compressor
Number of Jets	1
Dimensions	130 mm (height)
Weight	0.5 kg

Manufactured by HCTM CO, LTD.

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Aerosol Atomizer AG-01