

AG-01 (Aerosol Atomizer)

Aerosol generation is very important and necessary in the field of aerosol science.

AG-01 is a nebulizer type aerosol generator. Aerosol jets generated by compressed air throughout the critical orifice collide with the wall inside AG-01. Small droplets (including particle droplets) divided by impaction is exhausted outside AG-01.

Application:

- Filter Media Test
- Particle generation in wind tunnel
- Particle deposition in wafer deposition system

SPECIFICATIONS

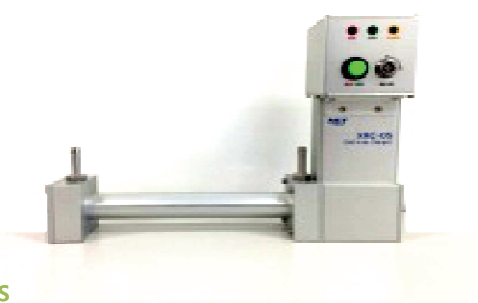
- Air Flow Rate : 4.5 L/min at 2.5 kg/cm³
- Particle Concentration : < 10⁶ particles/cm³
- Geometric Standard Deviation : 1.3 ~2.0
- Pressure Source : Air compressor
- Number of Jets : 1
- Dimensions (height) : 130 mm (5.12 in)
- Weight : 0.5 kg (1.1 lbs)



- Part Number
 - 2601003 Orifice 0.3 mm
 - 2601004 Orifice 0.5 mm
 - 2601001 Lid (tempered glass)
 - 2601006 Lid (Quartz)

XRC-05 (Soft X-Ray Charger)

XRC-05 is a bipolar charger that uses soft X-ray instead of radioactive source such as Am²⁴¹ (Americium-241), Kr⁸⁵ (Krypton-85), Po²¹⁰ (Polonium-210). It changes irregularly charged particles to equilibrium charged state. Particles introduced into XRC-05 is collided with ions (+) or electrons (-) generated by soft X-ray radiation. Ions or electrons being attached onto the particle surfaces, neutralizing the particles. XRC-05 does not generate Ozone due to its air ionization effect.



SPECIFICATIONS

- Ion Generation Method: Soft X-ray
- Source: Soft X-ray tube
- Power Consumptions: 7.2W
- Cooling Method: Natural cooling
- Weight: 1.11 kg /2.45 (lb)
- Input Power: AC 100~240V,
- 50/60Hz (Adaptor Input) DC 12V, 3.33A
- Life Time: 1 year
- Indicating: Ion generation indicating
- Dimension (LWH):273 X 72 X191 mm (10.8 x 2.8 x 7.5 in)

- Part Number
 - 2302002 DC 12V Adapter & power cord
 - 2302004 Safety Key

CAS-01 (Clean Air Supply)

Clean Air Supply, CAS-01 can provide clean and dry compressed air for aerosol experiments.

The Water & Oil trap removes large water & oil drops included in the compressed air. Compressed air is then dried in the desiccant dryer, then exhausted throughout the HEPA filter.

SPECIFICATIONS

- Maximum pressure : 10 kg/cm³
- Flow rate : 50 LPM (Max.)
- Dimension (LWH): 450 x 240 x 400 mm (17.7 x 9.45 x 15.7 in)
- Weight : 10 kg (22.05 lb)

- Part Number
 - 2501004 Oil trap
 - 7004004 HEPA Filter



DD-01 (Diffusion Dryer)

DD-01 removes water vapors contained in the aerosol and dries-off water on the surface of the droplet.

The Water & Oil trap mounted at the inlet of DD-01 removes large water & oil drops. Aerosols are dried by the diffusion of water vapor in the desiccant dryer filled with molecular sieve or silica gel.



SPECIFICATIONS

- Flow rate : 0 ~ 5 L/min
- Maximum pressure : 420kPa
- Relative humidity ; 20 % when incoming R.H. is 60 %
- Dimension (LWH): 570 x 160 x 210 mm (224.4 x 6.3 x 82.7 in)

- Part Number
 - 2401001 Lid
 - 2401002 Stand
 - 2401003 Water trap
 - 2401004 Outer Cylinder
 - 2401005 Inner Diffusion Screen
 - 9005009 Silica gel (Optional)