

Aerosol Particle Mass Analyzer

Model 3602 APM-II

Aerosol Particle Mass Analyzer (APM-II) classifies particles by mass based on the balance between centrifugal force and electrostatic force.

Particle size distribution measurement is normally used in order to measure nanosized particle distribution. While DMA (Differential Mobility Analyzer) classifies particles by particle size utilizing electrostatic force, APM-II classifies particles by mass based on entirely new classification principles.

Applications

- Mass distribution measurement
- Particle density research
- Monodispersal aerosol generation







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Aerosol Particle Mass Analyzer

APM - II MODEL 3602

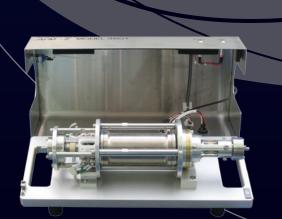


Features & Benefits

- Desktop and lightweight unit
- APM-II classifies aerosol particles of 0.01 to 100 femtograms
- Particle density distribution can be attained by combining the APM and DMA



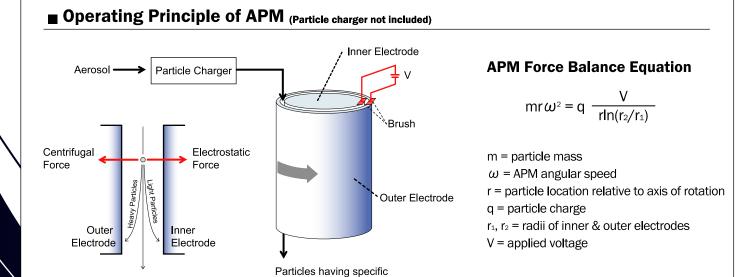
Control Unit



Rotating Cylinder Assembly

Aerosol Particle Mass Analyzer Model3602 APM-II Specifications	
Main Unit (Classifier)	
Classification Method	Classification based on the balance between centrifugal force and electrostatic force
Particle Mass Range	Approx.0.01~100 femtograms
	(Equivalent to approx. 30 nm∼580 nm for particle density of 1g/cm³)
Rotation Speed	1,000~14,000 rpm
Maximum Voltage	Up to -2,000V
Rotation Cylinder Dimensions	Inner Cylinder Diameter : 48 mm
	Gap between Inner and Outer Cylinders : 1 mm
	Cylinder Length : 100 mm
Sampling Flow Rate	0.3 to 1.0 L/min (0.3 L/min is recommended)
Control Unit	
Control Function	Rotation Speed and Applied Voltage
Display Function	Applied Voltage / Rotation Speed / Differential Pressure between inlet and outlet (panel display)
Input / Output Function	Input : Applied Voltage Setting / Rotational Speed Setting
	Output: Applied Voltage / Rotational Speed / Differential Pressure between Inlet and outlet
Dimensions / Weight	Main Unit: 430 (W) × 200(L) × 165(H) mm (excluding projection) / approx.11kg
	Control Unit: 430 (W) × 350(L) × 140(H) mm (excluding projection) / approx.8kg
Power Supply	Single-phase AC100~240V 50/60Hz 400VA
Optional Extras	Communication Cable, PCI Communications Boards

Specifications are subject to change without notice.



mass-to-charge ratio



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