

108 carbon/A/SE AUTOMATIC CARBON COATER

For Standard Scanning Electron Microscopy Sample Preparation and X-Ray Micro-Analysis



Shown with Optional MTM-10 High Resolution Thickness Monitor



ROTARY PLANETARY TILTING STAGE (OPTIONAL)

This stage offers multi-angle movements of multiple samples for sputter coating and carbon coating evaporation. The R-P-T stage can be configured with 4 specific holders for most types of SEM mounts, large specimen mounts and cross sections; see the listing below. The R-P-T enables better uniformity and more conform coating on topographic samples than with a static stage. It enables coating of a larger number of samples. The R-P-T fits all larger chamber configurations found on the 208 and the 108/SE series of Cressington coaters. With the special Large Sample Adapter, the R-P-T stage can be used as a rotary stage.

The 108 Carbon/A/SE Auto Carbon Coater Special Equipment version has the same technical specifications regarding carbon coating capabilities as the standard 108 Carbon/A Auto Carbon Coater. The special feature of the 108 Carbon/A/SE is the larger, 150mm diameter chamber which will accommodate the optional Rotary Tilting Stage or Rotary Planetary Tilting Stage. The advantage of using the Rotary Planetary Tilting Stage is that highly topographic specimens or larger specimens can be uniformly coated to give better conductivity when performing EDX analysis on such specimens.

Expanded features of this Special Equipment version include:

- **Increased Chamber Diameter**
Chamber size has been increased to permit coating of larger samples. Standard chamber 150mm diameter x 165mm.
- **Variable Chamber Geometry (optional)**
Adjustable chamber height is used to improve coating uniformity and vary the deposition rate.
- **Sample Stage Movements (optional)**
Separate rotary, planetary and tilting sample movements to optimize coating distribution and coverage.



THICKNESS MONITOR MTM-10 (OPTIONAL)

- Microprocessor based
- 4 digit display
- 5 time/sec. display update rate
- 6MHz crystal with life-time check
- Thickness range: 0-999.9nm (pos./neg.)
- Resolution: 0.1nm gold or carbon
- Density Range: 0.50 - 30.00gm/cm³
- Tooling Factor Range: 0.25 - 8.0
- Data Change Facility: 4 source memory

See reverse side for complete ordering information.

 **TED PELLA, INC.**
Microscopy Products for Science and Industry

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TECHNICAL SPECIFICATIONS FOR 108 Carbon/A/SE

Chamber Size	150mm OD x 165mm high (5.9" x 6.5")
Evaporation Source	Bradley type (6.15mm rods, [1/4"]); Heavy duty stainless steel construction
Evaporation Supply	Microprocessor based feedback loop controlled with remote current/voltage sensing; Saftey interlocked by vacuum level variable, 180A max, with over-current protection
Sample Table	Holds 12 SEM Mounts; Height adjustable through 60mm
Analog Metering	Vacuum Atm - 0.001mb; Current: 0-200A
Thickness Monitoring	MTM-10 High Resolution Thickness Monitor (optional)
Control Method	Automatic evaporation control, using programmed voltage and timer; full manual override with pulsed or continuous operation; Digital timer (0-9.9 seconds); Digital volt setting (0.1-5.5V)
Electrical Requirements	100-120 or 200-240 VAC, 50/60Hz (specify on order)
Power Requirements	1000VA (coater and pumping system together)



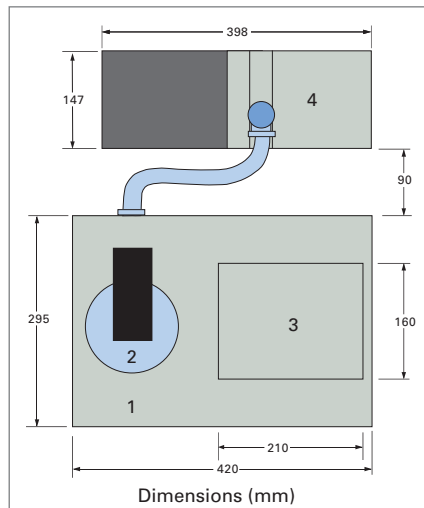
RVP 100 - 3.5

- Pumping Speed: high speed, direct drive, 2-stage rotary pump 5/6 m³/hr (50-60Hz)
- Pumpdown Time: >25/30 sec. to 0.1mb
- Desktop System: Rotary pump is positioned on desktop behind coater
- All metal vacuum integrated coupling system

DUAL-VACSET KIT AVAILABLE

- Connects two Cressington 108 series Coaters to one vacuum pump
- Two fully separate coating systems, each with optimized controls
- High throughput, efficient setup
- No cross-contamination between sputter (metal) and carbon coater

FOOTPRINT



1. Control Unit
2. Vacuum Chamber
3. Thickness Monitor
4. Rotary Pump

ORDERING INFORMATION

9603	108 Carbon/A/SE Automatic Carbon Coater, 115V*	each
9603-220	108 Carbon/A/SE Automatic Carbon Coater, 220V*	each
92080	Rotary Pump, High Speed, 115V/208-230V, 50/60Hz	each
92080-108	All Metal Connection Kit	each
92080-200	Dual-VacSet for 92080 Pump, fits Cressington 108 Coaters	each
93004	Thickness Monitor MTM-10, 115V**	each
93004-220	Thickness Monitor MTM-10, 220V**	each
93009	Replacement Crystals	pkg/10
9607	O-Ring, 120mm, for Glass Cylinder	pkg/2
9608	Glass Cylinder (120mm H x 120mm D)	each
8025	O-Ring, 150mm, for Glass Cylinder	pkg/2
8006	Glass Cylinder Tall (150mm D x 150mm H) light deposition	each
8009	Glass Cylinder Short (150mm D x 65mm H) heavy deposition	each
92061	Oil Mist Filter for 92080 Pump	each
93015	Carbon Rods, Grade 1, ø6.15x305mm (1/4"x12"), 60Hz	pkg/10
93016	Carbon Rods, Grade 1, ø6.15x305mm (1/4"x12"), 50Hz	pkg/10
93010	Pointed Carbon Rods, Double Neck Tip ø6.15x38mm (1/4"x1-1/2")	pkg/10
58	PELCO easiShaper™ Carbon Rod Shaper System, 100-240V	each
57-10	Two Step Carbon Rod Sharpener, for 1/4" Rods	each

* The 108carbon/A/SE Automatic Carbon Coater includes: Specimen Table for 12 Pin-Mounts; Operational Manual

** The Thickness Monitor MTM-10 includes: Vacuum Feedthrough; Cables; Oscillator Box; Crystal Holder; Test Crystal; Instructions