



CRESSINGTON Carbon Coater



Fig 1. 108 Carbon Coater with MTM10

The Cressington 108carbon/A offers the choice of either manual or automatic evaporation.

In automatic mode the evaporation source operates at a programmed voltage for a programmed time. The programmer is simply adjusted and displays voltage and time digitally.

In manual mode the unique Cressington supply can be operated in "pulse" or "continuous" with the output voltage set using the rotary control.

The modular desktop design combines sputter control unit, pumping system and thickness monitor into an area of only 16" x 24" (42cm x 60cm). The desktop pumping system is fully integrated using a quick release all metal coupling system. The compact high speed rotary pump (30sec to 0.1mb) is mounted on an anti-vibration table with a desktop base.

The pumping system can be easily extended into a dual pumping system to accommodate the Cressington Sputter Coater along side a Cressington Carbon Coater.

All Cressington sputter coaters have a thickness monitor feedthrough port. Two types of high resolution thickness monitors are available. Each monitor has a 4 digit LED display, push button zero, and crystal lifetime check. Resolution is better than 0.1nm for any material.

Specifications:

Chamber size	120mm Ø x 120mm high(4.75" x 4.75")
Evaporation source	Bradley type (6.15mm Ø rods) Heavy duty stainless steel construction
Evaporation supply	Microprocessor based Feedback loop controlled with remote current/voltage sensing Safety interlocked Variable, 180A max. with over-current protection
Sample table	Holds 12 SEM ½" stubs Height adjustment through 60mm
Analogue metering	Vacuum, Atm - 0.001mb Current, 0 - 200A
Control method	Automatic evaporation control using programmed voltage and timer Full manual override with pulsed or continuous operation Digital timer, 1 - 30 seconds Digital voltage setting, 0.1 - 5.5V Automatic vent
Thickness monitoring	Optional, MTM-10 only
Dimensions	Width 420mm (16.5"), Depth 295mm (11.6"), Height 287mm (11.3")
Weight	14Kg (30.9 lbs)
Power	800 VA max (excluding rotary pump)
Pumping system	
Rotary Pump	High speed, direct drive 2-stage
Pumping speed	2.5/3.0 m3/hr (50/60Hz) Pumpdown time to 0.1mb is 30/25 sec.
Desktop system	Vacuum pump is mounted on desktop compatible anti-vibration table
Dimensions	All metal vacuum coupling system Width 330mm (13.0"), Depth 215mm (8.5"), Height 210mm (8.3"), 270mm (10.6") with filter
Weight	15Kg (33.2 lbs)
Power	130 VA
Services required	
Supply	100 - 120 or 200 - 240 VAC, 50/60Hz (specify on order)
Power	175 VA max.