

# Cressington

## sputter coater *108*

Cressington 108 Sputter Coaters are ideal for routine sample preparation. Compact, economical and simple to operate, they offer rapid pumpdown times, fine-grain coatings and negligible sample heating. Cool, fine-grain sputtering is achieved with a very efficient dc magnetron head. A quick-change target method allows a range of metals to be used. The safety interlocked sputtering supply is fully variable and setting the sputter current is not influenced by vacuum level.



Illustrated: sputter coater 108 (without thickness monitor)

Although it is the simplest sputter coater in the Cressington range the 108 has an excellent specification. The standard 108 has fully variable current control, digital process timer with "pause", variable height specimen table, hinged top-plate and o-ring sealed vacuum chamber. The current controller allows independent choice of sputter current and argon pressure. Coverage and grain size are optimized for any specimen. The 108 can be factory fitted or retro-fitted with a Cressington MTM-10 high resolution thickness monitor system.

### Automatic sputter coater

<b>Chamber size</b>	120mm Ø x 120mm high
<b>Sputter head</b>	Low voltage planar magnetron Quick target change Wrap-around dark-space shield
<b>Sputter target</b>	Gold fitted as standard (Au/Pd or Pt optional) 57mm Ø x 0.1mm thick
<b>Sputter supply</b>	Microprocessor based Safety interlocked Current control independent of vacuum Variable 10 - 40mA

<b>Sample table</b>	Holds 12 SEM ½" stubs Height adjustment through 60mm
<b>Analogue metering</b>	Vacuum, Atm - 0.001mb Current, 0 - 50mA
<b>Control method</b>	Manual gas and current control Digital timer, 5 - 300 seconds with pause Manual vent
<b>Thickness monitoring</b>	Optional, MTM-10 only
<b>Dimensions</b>	Width 420mm (16.5"), Depth 295mm (11.6"), Height 287mm (11.3")
<b>Weight</b>	10Kg (22.1 lbs)
<b>Power</b>	45 VA max (excluding rotary pump)

## **Pumping system**

<b>Rotary Pump</b>	High speed, direct drive 2-stage
<b>Pumping speed</b>	3.0/3.6 m <sup>3</sup> /hr (50/60Hz) Pumpdown time to 0.1mb is 20/25 sec.
<b>Destop system</b>	Vacuum pump is mounted on desktop compatible anti-vibration table All metal vacuum coupling system
<b>Dimensions</b>	Width 330mm (13.0"), Depth 215mm (8.5"), Height 210mm (8.3"), 270mm (10.6") with filter
<b>Weight</b>	15Kg (33.2 lbs)
<b>Power</b>	130VA

## **Service required**

<b>Supply</b>	100 - 120 or 200 - 240 VAC, 50/60Hz (specify on order)
<b>Power</b>	170 VA max.
<b>Argon gas</b>	Purity, min. 99.9% Pressure, regulated 7 - 8 psi (0.5 - 0.6 bar) Hose connection, 6.0mm (¼")