Cressington

Carbon Coater 108carbon/A

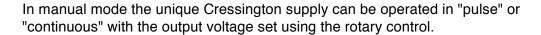
The Cressington 108 carbon coaters use a novel evaporation supply. Current and voltage are monitored by sensor wires in the head and the evaporation source is controlled as part of a feedback loop. The supply gives the conventional rod fed source unusual stability and reproducibility. Power consumption is low and the source shows exceptional re-starting characteristics. The evaporation source can be operated in "pulse" or "continuous" modes.



Illustrated: carbon coater 108carbon/A; thickness monitor MTM-10

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.





Thickness Monitors

Both 108 carbon coaters can be fitted with a high resolution thickness monitor. Resolution is better than 0.1nm for carbon. Careful use of monitor and evaporation controller gives better than 5% reproducibility of coating thickness in the useful 15nm - 25nm range.

Automatic carbon coater

Chamber size 120mm Ø x 120mm high

Evaporation source Bradley type $(6.15 \text{mm } \emptyset \text{ rods})$

Heavy duty stainless steel construction

Evaporation supply Microprocessor based

Feedback loop controlled with remote

current/voltage sensing Safety interlocked

Variable, 135A max. with over-current protection

Sputter supply Microprocessor based

Safety interlocked

Current control independent of vacuum

Digitally selectable current (20, 40, 60 or 80mA)

Sample table Holds 12 SEM 1/2" stubs

Height adjustment through 60mm

Analogue metering Vacuum, Atm - 0.001mb

Current, 0 - 200mA

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

Dimension Width 420mm (16.5"), Depth 295mm (11.6"),

Height 287mm (11.3")

Weight 14 kg

Power 800 VA max (excluding rotary pump)

Pumping system

Rotary Pump High speed, direct drive 2-stage

Pumping speed 3.0/3.6 m3/hr (50/60Hz)

Pumpdown time to 0.1mb is 20/25 sec.

Desktop system Vacuum pump is mounted on desktop compatible

anti-vibration table

All metal vacuum coupling system

Weight 15kg

Power 130VA

Service required

Supply 100 - 120 or 200 - 240 VAC, 50/60Hz

(specify on order)

Power 930 VA max.