



K450X Automatic Carbon Coater

SEM carbon coater 165mm chamber - carbon fibre (automatic operation)

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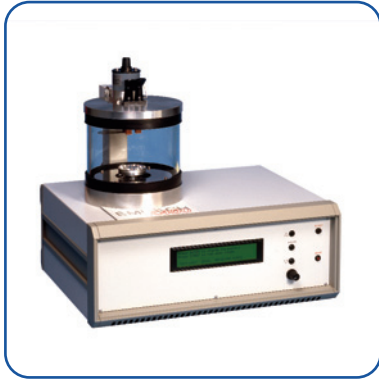
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SEM CARBON COATER



SEM coating at the push of a button

K450X automatic carbon coater



K450X Automatic Carbon Coater

The K450X is a fully automatic, digitally controlled rotary pumped SEM carbon coater. The system uses low voltage, high current electrodes between which the carbon fibre is located. A shutter is included to protect the specimens from heat damage during the timed out-gassing of the carbon fibre.

The whole process is completely automatic - after pump down to a working vacuum and out-gassing, the shutter automatically retracts and full power is applied to the electrodes; this causes the carbon to burn quickly (or 'flash') which fuses (breaks) as part of the process. Finally the shutter returns to the protective position and the chamber is vented. The controls can be pre-selected to allow for different types of carbon fibre. A rotating, tilting specimen stage ensures even carbon deposition of samples with irregular surfaces.

Pumping: The 450X requires a 50L/min rotary pump.

Key Features & Benefits

- Fully automatic control - easy to set up, easy to operate
- Menu-driven 'user' key inputs - allows user to set and store preferred operating parameters
- Automatic protection shutter - protects samples during carbon out-gassing
- Rotating, tilting specimen stage included as standard

Options

K350 Sputter/glow/etch attachment.



K350 sputter/glow/etch unit

K400X Semi-automatic carbon coater

The K400X is identical to the K450X, except that operation is semi-automatic with manual control of the shutter operation. The K400X is also fitted with a static stage (no rotation).

EK4195 Rotate/oscillate sample stage.

SEM-Basic-1

Starter kit (sample mounting stubs, boxes, mounting media and tweezers).

See: www.quorumtech.com for full technical specification and additional details.

PRODUCT SPECIFICATIONS

Supplied with	Accessory kit including: carbon fibre, electrode springs, 'O'-rings and cleaning brush, implosion guard
Electrical	230V 50Hz (6A max including pump), 115V 60Hz (12A max including pump)
Weights & dimensions	450mm W x 350mm D x 175mm H, glass chamber 165mm x 125mm H. Weight: 25Kg
Carbon source	Carbon fibre cord
Model differences	K400X: Fixed 60mm stage and manual outgas and shutter controls. K450X: 60mm rotating specimen stage with tilt facility (spacing to electrodes is 60mm)
Metering	Vacuum gauge range: ATM - 1x10 ⁻² mbar, ammeter gauge: 0-50A, low voltage: 25V
Vacuum pumping	Requires a 50L/min two-stage rotary pump (EK3175) with oil mist filter

