



K975X Turbo Evaporator

high vacuum evaporator for TEM, SEM and thin film applications with 250mm chamber



high specification, with digital control

K975X turbo evaporator



K975 Turbo Evaporator

The K975X is a compact, multiple application thermal evaporator. The standard configuration has a carbon rod gun and a metal filament / boat source. An optional sputtering source is available. The K975X is ideal for a wide range of techniques, including carbon support films and replicas for TEM, carbon / metal thin film applications, low angle shadowing and sequential layer coating using dual source evaporation. A chamber implosion guard is included as standard.

Menu-driven control

The menu-driven, microcontroller allows the user access to a range of options, but readily 'defaults' to optimum operating conditions, allowing both fully automatic and manual override as required. A unique sample loading system gives the user easy sample access and the hinged lid assembly makes other areas of the vacuum chamber readily accessible.

Turbomolecular pumping

The K975X uses a modern 100L/sec turbomolecular pump backed up by an external rotary vacuum pump (not included) with the complete pumping sequence being under full automatic control. A wide range of "add-on" options are available (see below).

Note: The K975S is based on the K975X; however its special load lock door allows the loading of wafers up to 200mm (8").

Key Features & Benefits

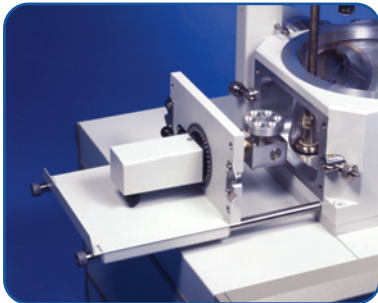
- Menu-driven 'user' key inputs - ideal for multiple user sites
- Wide selection of "add-on" options - allows future upgrade
- Samples up to 140mm square or 200mm diameter
- Unique 'anti-stick' carbon rod gun evaporation assembly - reproducible carbon films
- Rack out drawer sample loading system - easy sample exchange
- Restricted or full vent control - prevents sample disturbance during venting

Options

- K975S Loading stage for up to 200mm (8") wafer samples
- K150P (EK4165) Plug-in FTM module
- EK4165 Film Thickness Monitor (FTM) module plug-in style
- EK4105 Liquid nitrogen trap for enhanced pumping speed and vacuum cleanliness
- EK4175 Sputtering module
- EK4205 Rotating sample stage (planetary style) with externally adjustable tilt angle
- SC7605 Motorised carbon rod shaper for reproducible "stepped" profile rods

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

easy sample stage access



PRODUCT SPECIFICATIONS

Supplied with	Accessory kit including: carbon rods (6.15mm x 100mm), manual rod shaper and operating manual
Electrical	230V 50Hz (8A max including pump), 115V 60Hz (16A max including pump)
Specimen stage	60mm adjustable tilt 0-90°. Distance to electrodes is 110mm to 130mm
Weights & dimensions	450mm W x 500mm D x 300mm H, borosilicate glass chamber with hinged top plate: 250mm x 300mm H (can accommodate samples to 200mm/8"). Weight: 65Kg
Carbon source	Adjustable height with tilt control 0-200, uses 6.15mm x 100mm carbon rods
Technical specifications	Vacuum gauge: ATM - 1x70 ⁻⁷ mbar, operating vacuum: towards 10 ⁻⁵ mbar, ammeter gauge: 0-50A low voltage pulsed select: 0-5V-15V-25V, outgas current: 0-25A
Vacuum pumping	100L/sec turbomolecular pump. Requires a 50L/min rotary pump with oil mist filter (EK3175)

