

€6500 Mini Evaporator



Polaron E6500 Mini High Vacuum Evaporator

Ideal for TEM,
SEM carbon and
metal evaporation

Rapid turbomolecular
pumping

Convenient horizontally
mounted chamber

Optimal 125mm
working distance

Complete process
in one cycle

Small footprint

Individual metering of
backing & high vacuum

Large sample shutter

Variable angle
sample platform

Five-year warranty



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E6500 Mini High Vacuum Evaporator



Results in minutes

The E6500 Mini High Vacuum Evaporator is designed to meet TEM, SEM and general carbon and metal coating applications.



Benefits

The E6500 combines the advantages of large evaporation systems (e.g. optimum source to sample working distance, ability to adjust the evaporation angle) with the benefits of compact systems (small footprint, rapid pumping, easy to use and maintain).

Carbon and metal evaporation made easy

At the heart of the E6500 is an easy to access horizontally mounted vacuum chamber and hinged access door with a large viewing window.

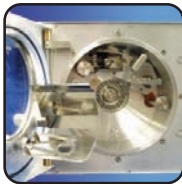
carbon rod source



The E6500 is fitted with dual thermal evaporation sources (metal and carbon) conveniently mounted on a cartridge style assembly. This allows easy removal for exchanging and adjusting evaporation sources. Both carbon and metal sources are supplied with removable

metal shields which maintain vacuum chamber cleanliness and directs evaporants toward the sample stage. To aid chamber cleaning two removable vacuum chamber liners are fitted.

vacuum chamber



The sample stage and large source shutter are located on the hinged chamber door, giving unsurpassed access for sample exchange.

Adjustment of evaporation stage angle is by an external control knob, making the E6500 ideal for TEM shadowing and replication techniques.

Warranty



All Polaron Range products have a comprehensive 12 months warranty as standard. The warranty on the E6500 and it's options may be extended to FIVE years at no cost simply by completing and returning a registration form. In the unlikely event of a defect arising as a result of material failure in normal usage our extended warranty requires the return of the equipment to our factory for repair. This extended warranty does not cover consumables or rotary pumps which are covered by the original manufacturers warranty only.

Free telephone and email technical support is available for the life of the product by contacting customer support on tel +44 (0)1273 510535, fax +44 (0)1273 510536 or email: support@quorumtech.com.

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Rapid Pumping

The 70l/s turbomolecular vacuum system is automatic in operation and is either pumping or venting. The automatic vent function also has a manual override to prevent excessive use of the vent gas (if used). A further vacuum facility is the standard ability to run the turbo pump at half or Standby speed. A 50l/m rotary pump (not included: see "options") is required to "back" the turbomolecular pump. Individual analogue metering of backing and high vacuum pressures and evaporation current is included.

Specification

Chamber Size: 190mm diameter x 100mm deep (horizontal).
Working Distance: 125mm sources to sample stage.
Viewing window: Large 150mm diameter viewing window.
Turbo Pump: Rapid (75l/s) automatic turbomolecular pumping. A 50l/m "backing" rotary pump is required.
Evaporation Sources: 1 x carbon rod, 1 x metal filament (can use carbon fibre). Cartridge mounted for easy removal.
Evaporation PSU: Dual voltage, 10V x 100A and 20V x 50A selectable.
Evaporation Functions: Continuous or pulsed modes.
Sample Stage: Variable angle 0-90° externally adjustable.
Vacuum System: Automatic with vent override and standby functions.
Dimensions: 450mm wide x 253mm high x 400mm deep.

Ordering Information

E6500 Mini High Vacuum Evaporator:	Code
Polaron E6500 220-240V	E6500
Polaron E6500 90-120V	E6500/110V
Dimensions and weight:	
E6500 w450 x d400 x h253mm, 20Kg (unpacked)	N/A
E5005F w850 x d330 x h230mm, 25Kg (boxed)	N/A
Supplied with the E6500:	
Comprehensive operating instructions	N/A
High purity "stepped" shaped carbon rods (pack of 10)	A0832A
Tungsten evaporation filaments (pack of 10)	A0754
Options and accessories:	
Pumps:	
50l/m two-stage rotary pump with oil mist filter - 115/230V 50/60Hz	E5005F
Replacement oil mist filter	E5004
Accessories:	
Tungsten evaporation filaments (pack of 10)	A0754
Carbon fibre cord (100cm)	A0816
Carbon fibre (high purity grade) cord (100cm)	A0819
Motorised carbon rod grinder (for stepped rods)	SC7605
High purity "stepped" shaped carbon rods 50mm x 6.2mm diameter (pack of 10)	A0832A
High purity unshaped carbon rods 100mm x 6.2mm diameter (pack of 10)	A0830A

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Manufactured in England by



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