

ELECTRON BEAM EVAPORATOR

EB-ST



CreaTec's electron beam evaporator EB-ST is designed for the evaporation of low vapour pressure materials either from wire, rod or crucible under true UHV conditions.

The instrument is suitable for metals (Fe, Co, Ni, Ag, Cu, Au, Pd, Pt, ...), insulators (MgO, MgF₂, CaF₂, ...) and semiconductors (in particular Si from rod).

Its compact design allows the integration of up to four units on a NW 150 CF cluster flange. A high precision analogue control unit is used for the instantaneous variation of all necessary parameters.

OPTIONS:

- Different conductive crucible materials are available
- RS-232 interface for software control
- Motorization of shutter and target alignment

Technical Data

Standard :

Type	EB-ST
Heating system	E-beam heating, tungsten (self supported)
Max. emission current	100 mA
Max. filament heating	10 V/ 10 A
Emission control or manual adjustment of filament and emission current	
Target voltage	1000 V
Target alignment	25 mm
Flux monitor	2 nA - 20 mA
Evaporation area	Ø 5 – 20 mm
Water-cooled shield assembly	
Water-cooled target feedthrough	
Integrated flux monitor	
Manual shutter	
Bakeout temperature	250 °C
Shipping	Stainless steel container with valve

Custom :

Flange size	CF 40/ CF 63 (or specified)
Max. outer diameter	38 mm
Length	As specified
Crucible material	W/ Ta/ Mo ...
Crucible capacity	0.8 cc

Options :

Other dimensions	As specified
Crucible	Optional
Interface	RS 232 (for software control)



Orifice region of the EB-ST



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