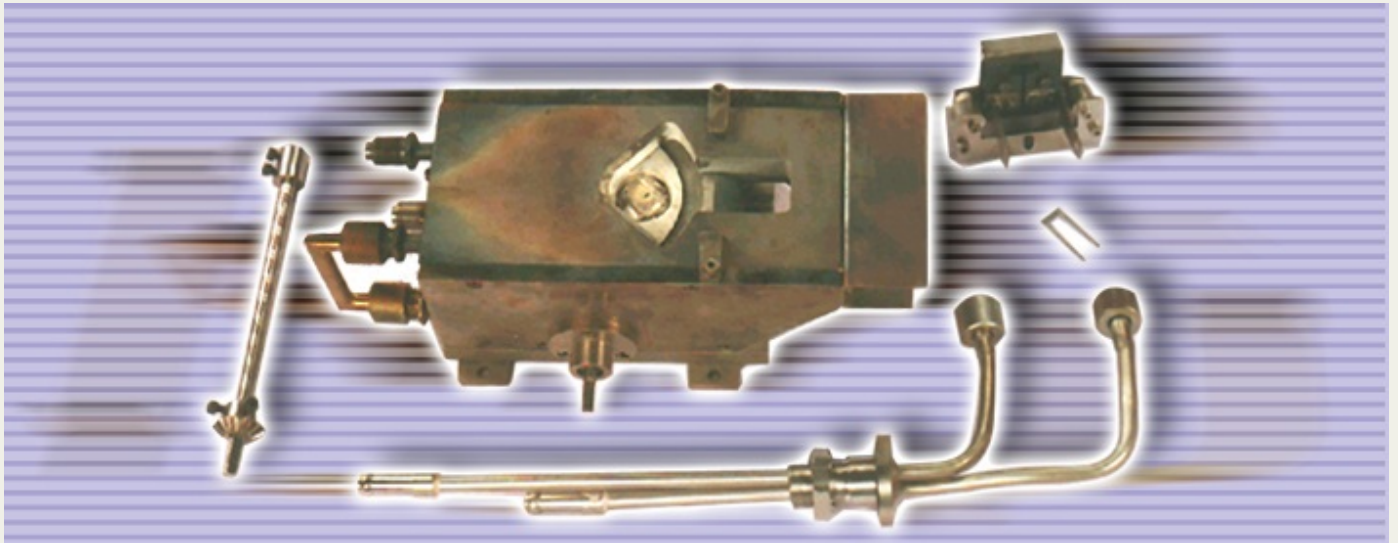


Electron Beam Gun 8KW



HINDHIVAC offers electron beam evaporation source, complete with power supplies for high temperature, ultra pure evaporation of materials in vacuum for laboratory and industrial applications

The electron beam gun is basically a diode having a cathode (in the form of a filament) T grounded anode (water cooled crucible). A negative high voltage is superimposed on the cathode LT supply, grounding the positive of the HT supply. It has got the following applications.

- Evaporation of Di-electric materials.
- Vapour deposition of alloys.
- High rate and quantity evaporation.
- Pure metal evaporation.
- Clean source for evaporation.
- Ion plating.

8 Kw electron beam gun is offered with 4 source as standard the unit is supplied with a specially built power supply for maximum reliability, safety and easy of operation.

TECHNICAL SPECIFICATIONS

Description	Model: 8KW
Operating pressure	Below 1×10^{-4} mbar
Power	0-8000 watts (0-8KW)
Beam voltage	6-10 KVDC
Beam current	0-600 mA (Continuously variable)
Filament voltage	0-10 volts AC
Filament current	0-60 amps max.
Beam deflection	270° 4 Source
Crucible size	28mm dia max. 20 minimum 15mm depth, 6.8 cc volume in copper hearth. Beam Sweep X-Y sweep facility for Electron beam
Feedthroughs:	
Electrical	Two 15KV, 50 amps feedthrough (Model H-15)
Water	Water feedthrough to circulate chilled water
Cooling water	4-5lit/min at inlet temperature of 20°C and 30 PSIG

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