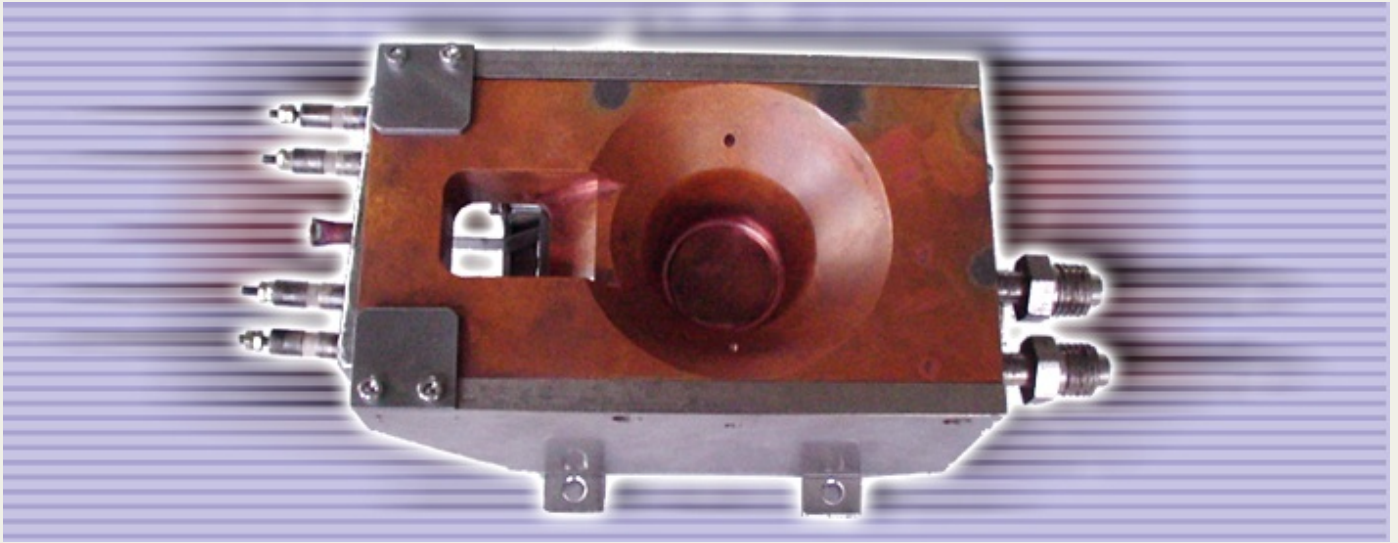


# Electron Beam Gun 10KW



**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) & 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.

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

## TECHNICAL SPECIFICATIONS

Description	Model: 10KW
<b>Operating pressure</b>	Below $1 \times 10^{-4}$ mbar
<b>Power</b>	0-10000 watts (0-10KW)
<b>Beam voltage</b>	6-10 KVDC
<b>Beam current</b>	0-1Amps (Continually variable)
<b>Filament voltage</b>	0-10 volts AC
<b>Filament current</b>	0-60 amps max.
<b>Beam deflection</b>	270° Single Source
<b>Crucible size</b>	28mm dia max. 20 minimum 15mm depth, 6.8 cc volume in copper hearth. Beam Sweep X-Y sweep facility for Electron beam
<b>Feedthroughs:</b>	
<b>Electrical</b>	Two 15KV, 50 amps feedthrough (Model H-15)
<b>Water</b>	Water feedthrough to circulate chilled water
<b>Cooling water</b>	4-5lit/min at inlet temperature of 20°C and 30 PSIG

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