

# Electron Beam Gun 3KW



HINDHIVAC offers electron beam evaporation sources, complete with power supplies for high temperature, ultrapure evaporation of materials in vacuum to produce thin films in coating units used in laboratory and industrial application. Our Electron Beam Guns are widely used for all types of thin film work, optical coating and micro-electronics. The main advantages of electron beam melting has advantages over other melting processes are the longer time in molten state and the much lower vacuum pressure over the molten pool. A further point in favour of electron beam melting is that considerable superheats are possible, thereby enabling some reactions to proceed that are very slow at temperatures only a little above the melting point.

### Salient Features:

- Highly Focused electron Beam Gun
- Compact Design
- Filament contamination avoided by beam bending
- Fully protected by interlocks
- Remote control operation for Beam Power adjustment
- Working Pressure as high as  $1 \times 10^{-4}$  m.bar

## TECHNICAL SPECIFICATIONS

Description	Model: 3KW
<b>Operating pressure</b>	Below $1 \times 10^{-4}$ mbar
<b>Power</b>	0-3000 watts (0-3KW)
<b>Beam voltage</b>	6KVDC
<b>Beam current</b>	0-500 mA (Continuously variable)
<b>Filament voltage</b>	0-10 volts AC
<b>Filament current</b>	0-40 amps max.
<b>Beam deflection</b>	180° 4 Source/ 270° Single Source
<b>Crucible size</b>	12mm dia-spherical
<b>Feedthroughs:</b>	
<b>Electrical</b>	Two 10KV to 30 amps feedthrough (Model H-15)
<b>Water</b>	Water feedthrough to circulate chilled water
<b>Cooling water</b>	2-3lit/min at inlet temperature of 20°C and 30 PSIG

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