

## HCCS Series 10 kW e-Gun™

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### *High Capacity Compact Electron Beam Evaporation Series*

Thermionics introduces high capacity compact single pocket 10 kW e-Gun (ebeam). Our HCCS series protects the emitter and H.V. F/T's from damage and shorting during installation and operation. The H2O cooling system enhances heat transfer, thus increases rate stability and prevents damage to the e-beam source. This compact source is designed for easy installation. The line includes a full spectrum of power supplies, sweep controllers and accessories, including crucible liners.

### Features

- 10 kW (-6kV to -10kV max) e-Gun source
- Completely shielded emitter and H.V. F/T's
- High Vacuum (HV) and Ultra High Vacuum (UHV) compatible
- Low outgassing
- High purity evaporation for thin films and other high-precision deposition applications
- No beam sweep, designed for metallic materials
- Source shutter (pneumatic or manual) and HV feedthroughs
- Compact Source can be transformed into a 1" dia. rod-fed source
- Enhanced high stability cooling
- Cross-contamination shielding
- Rugged design



### Specifications

Operating Pressure	Below $5 \times 10^{-5}$ Torr is desirable for best operation
Emission Voltage	-6 to -10 kV
Emission Current	0 to 1A
Maximum Power	10 kW
Cooling Water	1.5 gpm
Pressure Differential	25 psi minimum
Maximum Bakeout Temp.	230°C
Crucible Volume	10 cc

### Ordering Information

Description	Model No.
10 cc single crucible HCCS series e-Gun	HCCS-1010