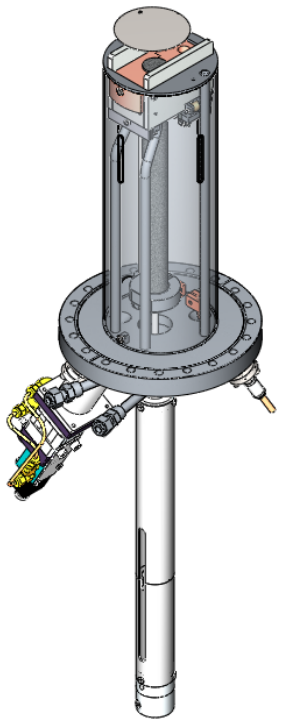
thermionics laboratory, inc.

HC Series 6kW Rod-Fed e-Gun™

High Capacity electron beam evaporation source:

Thermionics introduces 6 kW Rod-Fed e-Gun for better coating performance. The design protects the emitter from damage and shorting during installation and service. The improved water-cooling system enhances heat transfer, which increases rate stability and prevents damage to the e-beam source.



Features:

- 6kW e-Gun source
- 8" O.D. CF
- 1" O.D. Rod-fed material for continuous evaporation, manual or motorized
- Completely shielded emitter
- Fully UHV compatible

Specifications:

Operating pressure	Below 5 x 10^{-5} Torr is desirable for best operation
Beam voltage	6kV to 10kV
Beam current	0-750 mA continuously variable
Maximum power	6kW
Cooling water	1 gpm
Pressure differential	25 psi minimum
Maximum bakeout temperature	230°C
Crucible volume	1" diameter rod; 6" standard length
e-Gun size	1" diameter x 6" height

Ordering Information

Description	**Model No.**
Rod-Fed e-Gun only	**HCRF-06100**
Rod-Fed e-Gun with all utility, electrical and mechanical feedthroughs mounted on a 8" diameter CF type flange	**HCRF-06100/FM800**

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