

thermionics laboratory, inc.

RC Series Compact e-Gun™

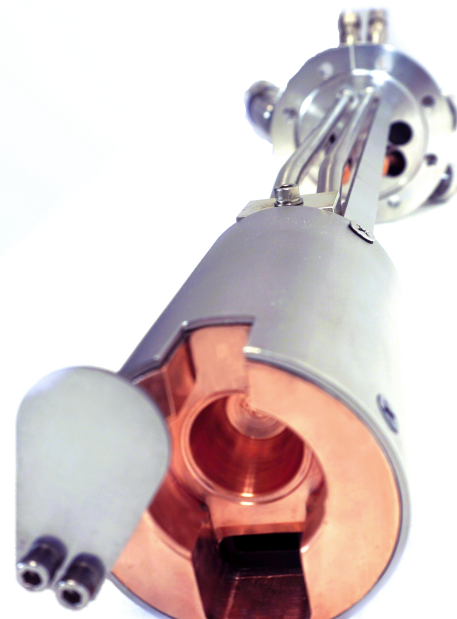
Research Capacity electron beam evaporation sources

Thermionics introduces a redesigned 3 kW Compact e-Gun for better coating performance. The new 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.

The Compact e-Gun is designed for easy installation into MBE systems.

Features

- 3kW e-Gun source
- Fits into a 4.5" CF type port
- 2.24cc or 3.31cc crucible
- Fully UHV compatible



Specifications

Operating pressure	Below 5×10^{-5} Torr is desirable for best operation
Beam voltage	4,000 VDC
Beam current	0-750 mA continuously variable
Maximum power	3kW
Cooling water	1 gpm
Pressure differential	25 psi minimum
Maximum bakeout temperature	230°C
Crucible volume	2.24cc or 3.31cc
e-Gun size	2.25" diameter x 2.95" height

Ordering Information

Description	Model No.
Compact e-Gun 2.24cc	RCCS-03/FM6-2.24
Compact e-Gun 3.31cc	RCCS-03/FM6-3.31