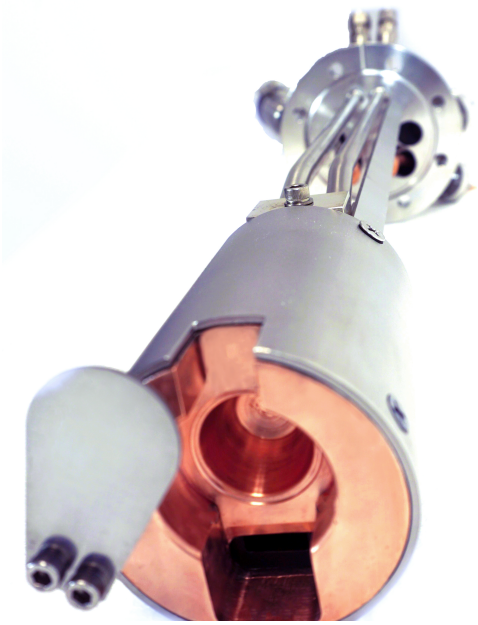
thermionics laboratory, inc.

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 x 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**

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