

## RC Series 3kW Rod-Fed e-Gun™

Research Capacity electron beam evaporation sources

Thermionics introduces a redesigned 3 kW Rod-Fed 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 Rod-Fed e-Gun is designed for easy installation into MBE systems.

## **Features**

- 3kW e-Gun source
- Fits into a 4.5" CF type port
- Rod-fed material for continuous evaporation
- Completely shielded emitter
- Fully UHV compatible



**Specifications** 

Operating pressure	Below 5 x 10 <sup>-5</sup> 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	0.25" diameter -or- 0.38" diameter rod; 3" standard length
e-Gun size	2.25" diameter x 2.95" height

**Ordering Information** 

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Description	Model No.	
Rod-Fed e-gun only	RF0303-25	
Rod-Fed e-gun with all utility, electrical and mechanical	RF0303-25/SK	
feedthroughs mounted on a 4.5" diameter ConFlat® type flange		