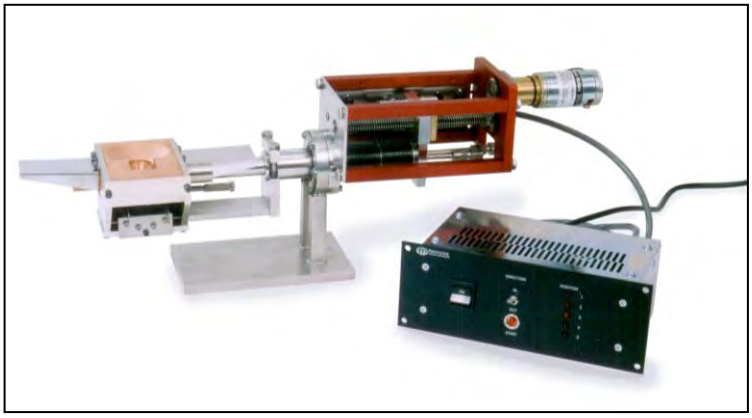
RC Series – Multiple Crucible Linear 3kW e-Gun™

Research Capacity electron beam evaporation sources

Thermionics introduces a new line of 3 kW e-Guns. The Research Capacity series provides enhanced beam stability and efficient XY sweep with full crucible coverage. Plug-in emitter assemblies and sweep coil assemblies make the sources easier to service. The line includes a full spectrum of power supplies, sweep controllers and accessories, including crucible liners.

Features

- True XY sweep with full crucible coverage
- Sweep coils included with source
- Enhanced beam culmination
- Plug-in emitter module
- Enhanced high-stability cooling
- Cross-contamination shielding
- Rugged design
- Optional auto-indexer
- UHV rated sweep coil



RC Series 3-Position Linear e-Gun shown with optional Auto-indexer

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	3 kW
Cooling water	1.5 gpm
Pressure differential	25 psi minimum
Maximum bakeout temperature	230°C
Crucible volume	2.24cc, 3.1cc x 3, 4 or 5 crucibles

Ordering Information

Description	Model No.
Multiple Crucible e-Gun source with sweep coils, linear 3-position	RCL0303
Multiple Crucible e-Gun source with sweep coils, linear 4-position	RCL0304
Multiple Crucible e-Gun source with sweep coils, linear 5-position	RCL0305

Options

/AI Auto-indexer
/FM8 mounted on 8”CF flange with all feedthroughs
/FM10 mounted on 10” CF flange with all feedthroughs

3118 Depot Road, Hayward, CA 94545 · 1-888-372-2283
www.thermionics.com · sales@thermionics.com