

RC Series 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
- UHV rated sweep coils included with source
- Enhanced beam culmination
- Plug-in emitter module
- Enhanced high-stability cooling
- Cross-contamination shielding
- Rugged design



RC Series Single Crucible e-Gun

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

Mounting Configurations

Each e-Gun is available in three standard mounting configurations:

1. e-Gun mounted on a PyraFlat or ConFlat metal-seal type flange, which uses a standard OFE copper gasket
2. e-Gun with a 1" diameter bolt-type mount, which mount through a 1" diameter hole, and is sealed by a compression O-ring
3. e-Gun alone with no mounting flange

Please specify the mounting configuration at the time the order is placed; the prices listed *may* not include the bolt-type or flange-type mount.

Other mounting flanges, configurations and geometries are routinely supplied, please call the factory for further information.

Ordering Information

Description	Model No.
Single Crucible e-Gun source with sweep coils	RCF0301