

IC Series – Large Capacity 15kW e-Gun™

Industrial Capacity electron beam evaporation sources

December 2017

Thermionics' new ICR e-Gun™ is available with capacity up to 1500 cc in a carousel configuration as pictured here or as a multi-pocket e-Gun™ with up to 10 each 75 cc crucibles.

Features

- True XY sweep with full crucible coverage
- Proprietary anti-beam curl shield for longer more productive runs.
- Rugged drive mechanism to prevent jamming
- Plug-in emitter module
- Enhanced high-stability cooling
- Built in cross-contamination shielding (multi-pocket version)
- Easy access (without disassembly) to magnetic adjustments
- Optional increased run-time features: differential pumping, gas bleed and dual filaments



Dual ICR Installation with optional differential pumping

Specifications

Operating pressure	Below 5×10^{-5} Torr is desirable for best operation
Beam voltage	10,000 VDC
Beam current	0-1500 mA continuously variable
Maximum power	15 kW
Cooling water	3.5 gpm
Pressure differential	25 psi minimum
Maximum bakeout temperature	130°C
Crucible volume	Up to 1500 cc Carousel or up to 10 x 75 cc multipocket

Ordering Information

Description	Model No.
IC e-Gun™ source with sweep coils, 1500 cc Carousel. Bottom or Side Drive	ICRC1500-1
IC e-Gun™ source with sweep coils, 10 x 75 cc Rotary. Bottom or Side Drive	ICR-1575-10