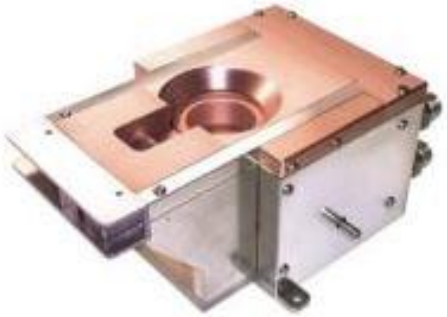
HCR Series 10 kW e-Gun™

High Capacity Rotary Electron Beam Evaporation Series

Thermionics HCR rotary series e-Guns (ebeam) are available in 3 to 8 crucible designs allowing sequential deposition of to 8 materials. The High 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
- UHV rated sweep coils included with source
- Enhanced beam culmination
- Plug-in emitter module
- Enhanced high stability cooling
- Cross-contamination shielding
- Rugged design
- Multiple crucibles, rotary designs
- Long life emitter assembly
- Permanent magnet beam positioning



Specifications

Operating Pressure	Below 5 x 10^{-5} Torr is desirable for best operation
Emission Voltage	-6 to -10 kV
Emission Current	0 to 1A
Maximum Power	10 kW
Cooling Water	3 gpm
Pressure Differential	50 psi minimum
Maximum Bakeout Temp.	230°C
Crucible Volume	7, 15, 25 or 40 cc

Ordering Information

Description	Model No.
4 pocket HC series Rotary e-Gun, 7 cc, 6 kW (6, 8 pocket options)	HCR-0607-4
4 pocket HC series Rotary e-Gun, 15 cc, 6 kW (6, 8 pocket options)	HCR-0615-4
4 pocket HC series Rotary e-Gun, 25 cc, 10 kW (6 pocket options)	HCR-1025-4
4 pocket HC series Rotary e-Gun, 40 cc, 10 kW	HCR-1040-4

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