

thermionics
laboratory, inc.

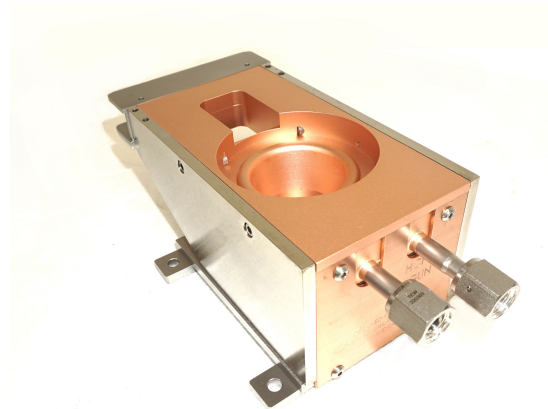
HCF Series 10 kW e-Gun™

High Capacity Electron Beam Evaporation Series

Thermionics introduces single pocket 10 kW e-Guns. 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



Specifications

Operating Pressure	Below 5×10^{-5} Torr is desirable for best operation
Emission Voltage	-6 to -10 kV
Emission Current	0 to 1A
Maximum Power	10 kW
Cooling Water	2.5 gpm
Pressure Differential	25 psi minimum
Maximum Bakeout Temp.	230°C
Crucible Volume	7, 15, 25 or 40 cc

Mounting Configurations

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

*e-Gun mounted on PyraFlat™ or CF metal-seal type flange, which uses a standard OFE copper gasket

*e-Gun alone with no mounting flange

Ordering Information

Description	Model No.
7 cc single crucible HC series e-Gun	HCF-1007
15 cc single crucible HC series e-Gun	HCF-1015
25 cc single crucible HC series e-Gun	HCF-1025
40 cc single crucible HC series e-Gun	HCF-1040