Hanks HM^2 Twin – Two Single Crucible e-Guns™

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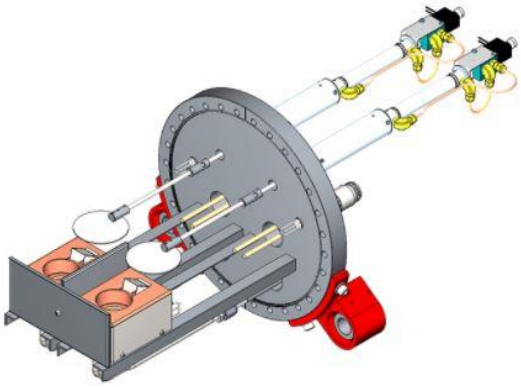
Thermionics introduces twin – two single pocket 10 and 15 kW HM^2 e-Guns (ebeam). The HM^2 series provides unique modular magnetic design producing a more efficient electron beam. The Hyper-Unimelt 200 Hz sweep eliminates tunneling and source material eruptions. Plug-in emitter assemblies and sweep coil assemblies make the sources easier to service. Easy filament alignment, more efficient electron collimation, minimal filament distortion and elimination of electron trials.

Features

- Elimination of beam curl
- UHV rated sweep coils included with source (200 Hz)
- Elimination of pole pieces
- Easy filament alignment
- More efficient electron collimation
- Minimal filament distortion
- Elimination of electron tails
- Optimal for co-evaporation
- Minimal crucible pocket spacing for ideal plume mixture
- Each source is independently water cooled
- Designed to eliminate cross talk interference
- Optional 3-point adjustable guide rail blocks



Specifications

Operating Pressure	Below 5 x 10^{-5} Torr is desirable for best operation
Emission Voltage	-7.5 to -10 kV
Filament	12 VAC 60A
Maximum Power	15 kW
Cooling Water	3 gpm (each source)
Pressure Differential	50 psi minimum
Maximum Bakeout Temp.	230°C
Crucible Volume	10, 15 or 40 cc

Ordering Information

Description	Model No.
10 kW HM2 series two - single pocket e-Guns, 10 cc crucibles	D1010
10 kW HM2 series two - single pocket e-Guns, 15 cc crucibles	D1015
15 kW HM2 series two - single pocket e-Guns, 40 cc crucibles	D1540

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