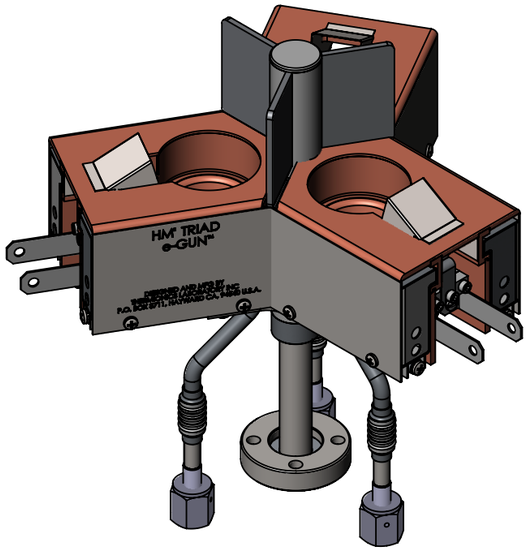
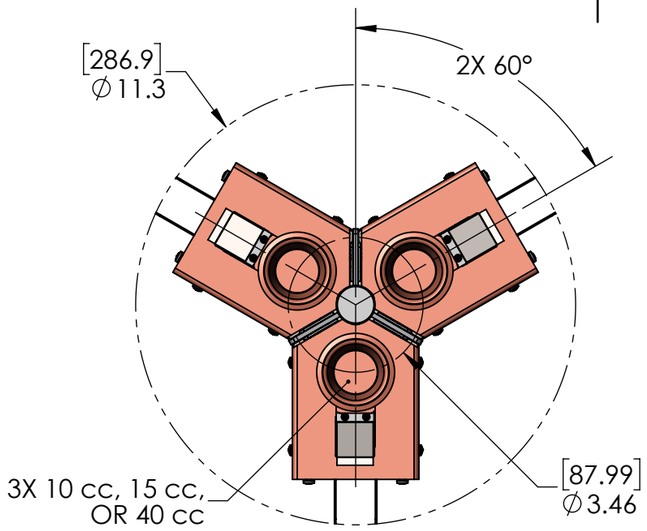
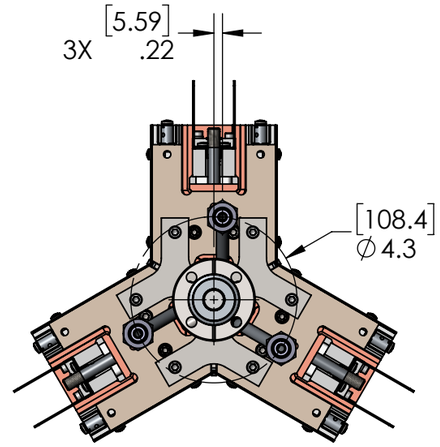
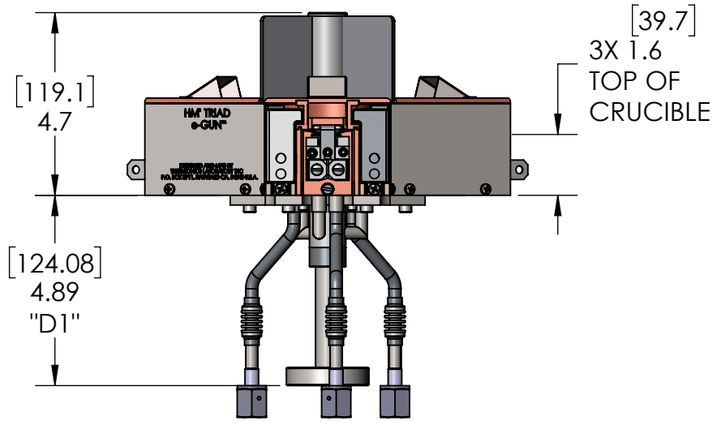
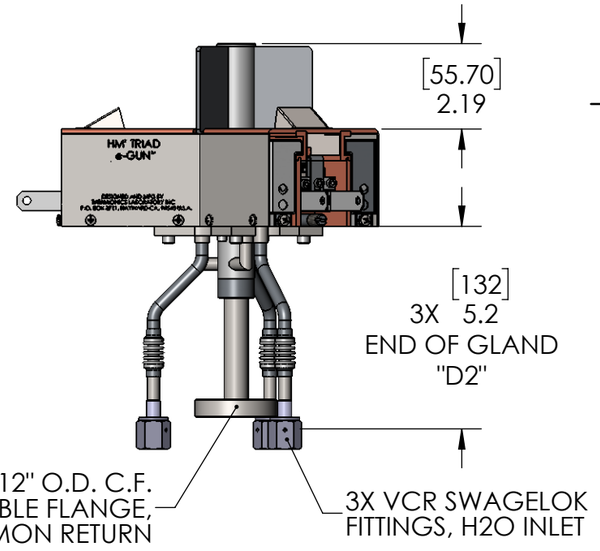






BOTTOM VIEW





SPECIFICATIONS:
*METAL-SEALED, FULLY UHV COMPATIBLE, MEASURED BASE PRESSURE: $2x10^{-11}$ TORR.
*POWER OUTPUT: 6 kW; 7.5 kV; 0 TO 800 mA
10 kW; 10 kV; 0 TO 1.0 A
*FILAMENT: 12 VAC 60 A
*ELECTRON BEAM: 270° DEFLECTION
*WEIGHT: ~14 lbs.
*EVAPORATION RATES FOR "Al": 1 gpm AT 10 kW; 3.6 MICRONS AT 25 cm.
*BEAM SPOT SIZE: ~∅.25"
*CRUCIBLE: OFE Cu
*BAKEOUT TEMPERATURE: 230°C (446°F)
*H2O: 9 gpm (FILTERED) AT 70 psi (EACH CRUCIBLE HAS ITS OWN H2O SUPPLY)
*PRESSURE DIFFERENTIAL: 50 psi MINIMUM
*X AND Y SWEEP: HYPER-UNIMELT SWEEP (0 TO ABOVE 200 Hz)

PROPRIETARY AND CONFIDENTIAL
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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± N/A
ANGULAR: MACH ± BEND ± .5°
ONE PLACE DECIMAL ±.1
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.005
SURFACE FINISH 63 R.M.S.

FINISH:

thermionics laboratory, inc.

DO NOT SCALE DRAWING | REVISION

thermionics laboratory inc.
Hayward Ca. 94545

	NAME	SIGNATURE	DATE		USED ON	NEXT ASSY.
DESIGN/ENG.						FINAL
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:		

TITLE:
THERMIONICS' HANKS HM2 TRIAD e-GUN SOURCE

DWG NO. A3

WEIGHT: 14 lbs. | SCALE:1:4 | SHEET 1 OF 1