

PSI 1
LEO (Low Earth Orbit)

Chamber parameters		Operational parameters		Optional equipment	
main chamber inner size D x H [m]	0.50 x 0.50	temperature range [K] stability [K]	248 – 353 +/- 0.1 shroud cold plate	temperature control	LAUDA Proline RP 1290 C temperature range 183 – 473 K
usable inner size D x H [m]	0.50 x 0.35	pressure [Pa]	5×10^{-5}	pressure sensors	TPG 262 Full Range Gauge
irradiation windows material D x t [m]	vertical window Herasil 0.47 x 0.10	pumping units	rotary vane pump Duo35A + HIPace 700	leak test	Leybold Heraeus Ultratest M2 pressure range $10^1 - 10^{-4}$ Pa; Helium
irradiation source		irradiation source	1000 W, 2000 W polychromatic metal halogenide	spectral analysis	Bentham DMC150 measurement range 200 - 600 nm smallest measuring step 0.5 nm
optional interface ports D [m]	CF-F: 4 x DN40 4 x DN63 1 x DN160				
special features	mass spectrometer Prisma™ 80			gas	Argon, Nitrogen, Helium, customised gas mixtures, in facility mixing capability
electrical connectors interfaces	—				

experiments performed: MATROSHKA preflight tests, BioDiv