

PSI 6 *Deep Space 2*

Chamber parameters		Operational parameters		Optional equipment	
main chamber inner size D x H [m]	0.20 x 0.30	temperature range [K] stability [K]	—	temperature control	—
usable inner size D x H [m]	0.14 x 0.28	pressure [Pa]	1×10^{-7}	pressure sensors	TPG 262 Full Range Gauge min. 1×10^{-10} Pa
		pumping units	rotary vane pump Duo20 + TMU261P IGP	leak test	Leybold Heraeus Ultratest M2 pressure range $10^1 - 10^4$ Pa; Helium
irradiation windows material D x t [m]	top window Suprasil DN63 lateral inspection windows 0.13 x 0.01 0.04 x 0.01	irradiation source	254 nm Hg low pressure D200 inserted deuterium	spectral analysis	Bentham DMC150 measurement range 200-600 nm; smallest measuring step 0.5 nm
optional interface ports D [m]	CF-F: 1 x DN40 1 x DN63				
special features	—			gas	Argon, Nitrogen, Helium, customised gas mixtures
				sample wheel	6-8 slots
electrical connectors interface	—				

experiments performed: EXPOSE-R2 preflight tests, MiDiv, BioDiv