

PSI 5
PlanE (Planetary Environment)

Chamber parameters		Operational parameters		Optional equipment	
main chamber inner size D x H [m]	0.20 x 0.30	temperature range [K] stability [K]	243 – 323 +/- 0.1 cold plate	temperature control temperature sensor	LAUDA RP 855 temperature range 218 – 473 K 1 x PT100
usable inner size D x H [m]	0.16 x 0.28 cold plate	pressure [Pa] pumping units	1 x 10 ⁻⁵ rotary vane pump Duo20 + TMU261P	pressure sensors leak test	TPG 262 Full Range Gauge Leybold Heraeus Ultratest M2 pressure range 10 ¹ - 10 ⁻⁴ Pa; Helium
irradiation windows material D x t [m]	top lid window Suprasil DN63	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: 3 x DN63				
special features				gas	Argon, Nitrogen, Helium, customised gas mixtures
electrical connectors interface	—				

experiments performed: Mars 500 MICHAm, Planetary Protection (resistance experiments), MiDiv, BioDiv