Chamber Parameter	**PSI 1** ***LEO (Low Earth Orbit)***	**PSI 2** ***Solar System***	**PSI 3** ***Deep Space 1***	**PSI 5** ***PlanE (Planetary Environment)***	**PSI 6** ***Deep Space 2***	**PSI 7** ***MaSimKa (Mars Simulations Kammer)***	**PSI 9** ***Deep Space 3 Long Duration***
main chamber inner size: D x H [m]	0.50 x 0.50	0.80 x 0.49	0.30 x 0.35	0.20 x 0.30	0.20 x 0.30	0.25 x 0.35	0.25 x 0.30
usable inner size: D x H [m] L x W x H [m]	0.50 x 0.35	0.46 x 0.26 x 0.15 2 stacked cold plates	0.30 x 0.25 x 0.05 4 stacked cold plates	0.16 x 0.28 1 cold plate	0.14 x 0.28	0.22 x 0.26	0.20 x 0.20
irradiation windows material D x t [m] L x W x t [m] D x H [m]	vertical window Herasil 0.47 x 0.01	top lid window Herasil 0.45 x 0.26 x 0.03 lateral inspection windows 0.17 x 0.01 0.14 x 0.01	top lid window Suprasil 0.35 x 0.02	top lid window Suprasil DN63	top lid window Suprasil DN63 lateral inspection windows 0.13 x 0.01 0.04 x 0.01	top lid window Spectrosil 2000 0.09 x 0.01	top lid window quartz 0.08 x 0.01
final pressure [Pa]	5×10^{-5}	5×10^{-5}	1×10^{-10}	1×10^{-7}	1×10^{-10}	1×10^{-7}	1×10^{-10}
pumping units	rotary vane pump Duo35A + HIPace 700	rotary vane pump Duo35A + TMU261P	IPG	rotary vane pump Duo20 + TMU261P	rotary vane pump Duo20 + TMU261P IPG	rotary vane pump Duo20 + TMU261P	IPG
temperature range stability [K] device	248 – 353 +/- 0.1 shroud cold plate	233 – 323 +/- 0.1 2 stacked cold plates	233 – 323 +/- 0.1 4 stacked cold plates	243 – 323 +/- 0.1 1 cold plate	___	248 – 353 +/- 0.1 cold plate	___
irradiation source	1000 W, 2000 W polychromatic metal halogenide	1000 W, 2000 W polychromatic metal halogenide 254 nm Hg low pressure 8 D200 inserted deuterium	1000 W, 2000 W polychromatic metal halogenide 254 nm Hg low pressure	254 nm Hg low pressure D200 inserted deuterium X-ray 150 kW	254 nm Hg low pressure D200 inserted deuterium	400 W polychromatic metal halogenide 254 nm Hg low pressure	254 nm Hg low pressure