

PSI 7
MaSimKa (Mars Simulations Kammer) [under construction]

Chamber parameters		Operational parameters		Optional equipment	
main chamber inner size D x H [m]	0.25 x 0.35	temperature range [K] stability [K]	248 – 353 +/- 0.1 cold shroud plate	temperature control	LAUDA RKP 20 233 – 473 K
usable inner size D x H [m]	0.22 x 0.26	pressure [Pa]	1×10^{-5}	temperature sensor	5 x PT100 + NiDaqPad6015
irradiation windows material D x t [m]	Top lid window Spectrosil 2000 0.09 x 0.01	pumping units	rotary vane pump Duo20 + TMU261P	pressure sensors	MKS PR4000 Baratron® MKS Type 626 pressure range 0.1 - 1200 Pa automatic pressure regulation
optional interface ports D [m]	CF-F: 4 x DN40 3 x DN63 1 x DN160	irradiation source	400 W polychromatic metal halogenide 254 nm Hg low pressure		
special features	water injection system	rel. humidity rF [%] at pressure [Pa], humidity sensor	0.3 – 99.7 at 200 - 1200	gas	Argon, Nitrogen, Helium, customised gas mixtures
electrical connectors, interface	16 channel high speed DAQ 360 ksamples/s				

experiments performed: