

Summary of the vacuumtest

carried out by Tobias Schmitt

test:

pressure:

Chamber with small plastik screws and without cooling system over the weekend —————> $9.98 \cdot 10^{-8}$ mbar

Chamber with big plastik srews and with cooling system
– 15°C after half an hour —————> $1.50 \cdot 10^{-7}$ mbar
after 4 days —————> $5.42 \cdot 10^{-8}$ mbar

Heating to 20°C —————> $6.86 \cdot 10^{-8}$ mbar
after 2 hours —————> $6.72 \cdot 10^{-8}$ mbar

Heating to 35°C —————> $8.26 \cdot 10^{-8}$ mbar
after 2 hours —————> $7.80 \cdot 10^{-8}$ mbar

Cooling to –5°C —————> $6.23 \cdot 10^{-8}$ mbar

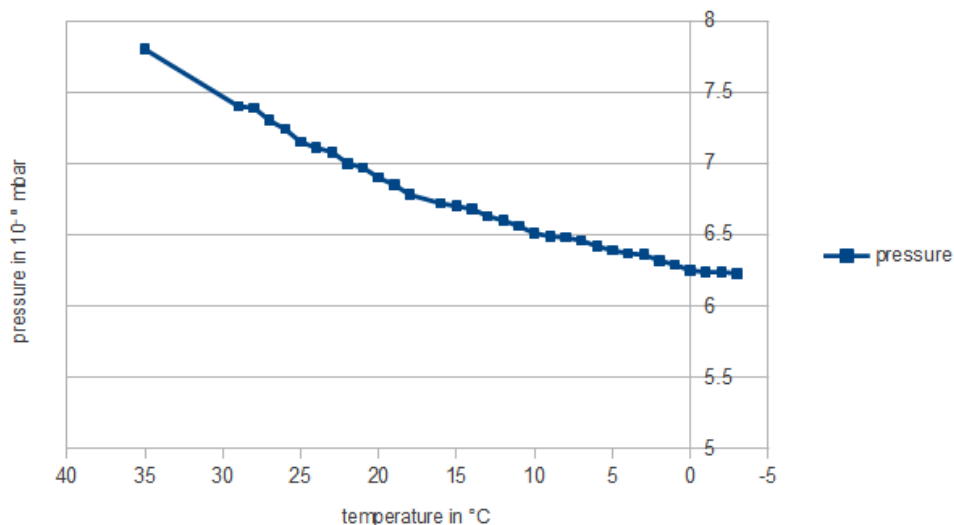


Abbildung 1: cooling from 35°C to –5°C

after 18 hours —————> $5.38 \cdot 10^{-8}$ mbar

Cooling to –15°C —————> $5.36 \cdot 10^{-8}$ mbar
after 1 hour —————> $5.27 \cdot 10^{-8}$ mbar