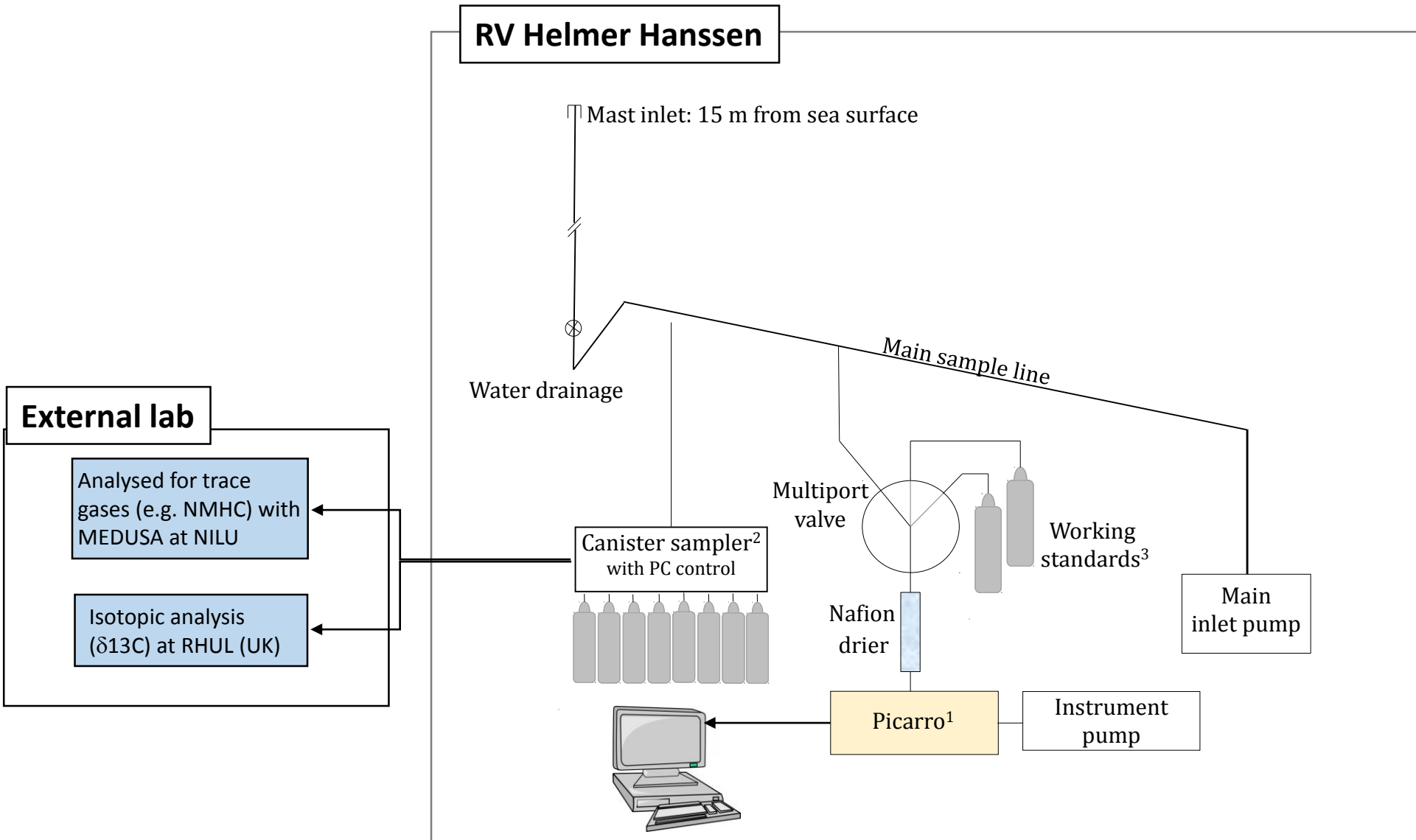


Atmospheric unit at RV Helmer Hanssen



Notes

1. Picarro Cavity Ring Down spectrometer (CRDS), model G2401: $\text{CH}_4/\text{CO}_2/\text{CO}/\text{H}_2\text{O}$. Precision CH_4 better than 0.2 ppb on 1 minute time resolution
2. Multivalve flask sampler, 2*8 flasks can be mounted at same time. Sampling program can be set up to automatize the sampling. Use the MEDUSA at NILU (better than 0.5 ppt concentration, high precision: ca 0.5-1% depending on gas)
3. Calibration are performed manually, prior to and after campaigns. Working standards provided by NILU, linked to Zeppelin (and NOAA/GAW).