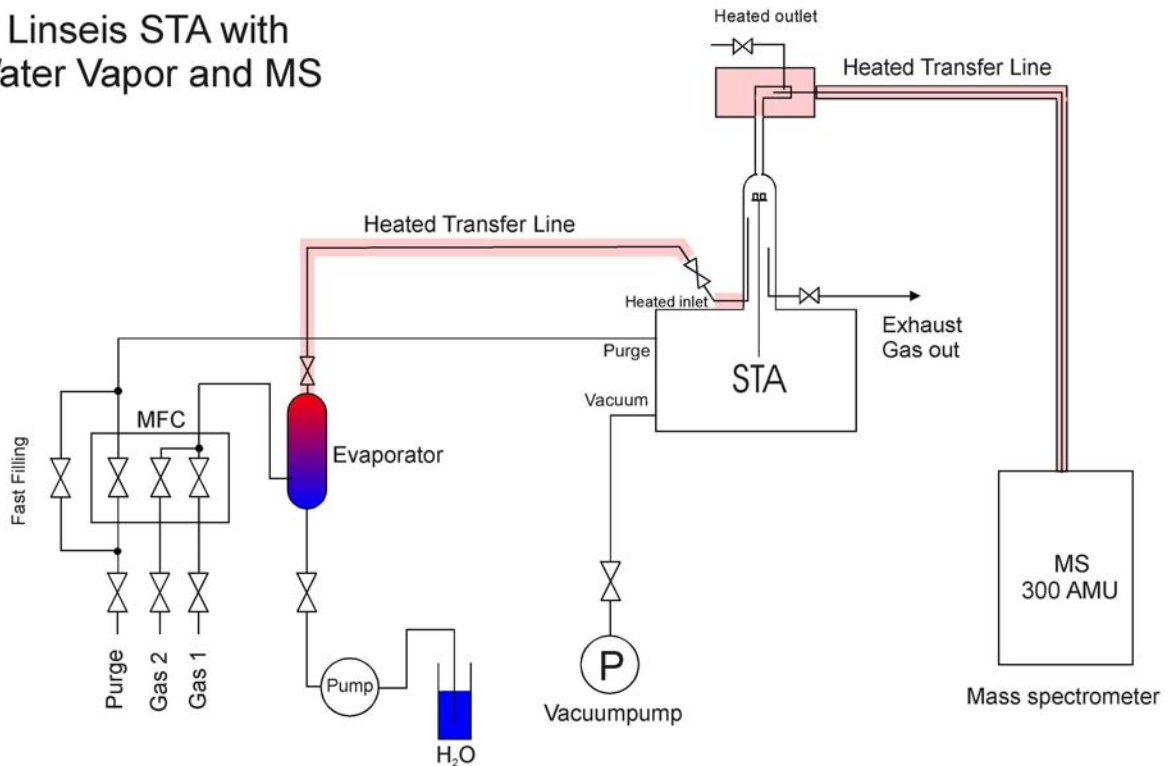


Linseis Water Vapor Generator

Optional the Linseis STA can be equipped with a water vapour generator

Linseis STA with Water Vapor and MS



1 l water will be transferred into 1673 l water vapor at 1013 mBar

the following equation is an example for a gas flow of 6 l/h at the sample

for 6l/h water vapor a water flow into the evaporator of 3,586 ml/h water is needed.

If a H₂O partial pressure e.g. of 4 kPa (is needed (at 101 kPa , 1013 mBar) inert gas must be mixed with the water vapour

This gives a partial pressure of 4%

calculated for a total flow of 100 ml/min or 6 l/h

4 kPa = 4 % Vapor = 4 ml/min water vapour (2,39 µl/min water)
+ 96 % Gas = 96 ml/min Gas

2,39 µl/min water flow and 96 ml/min gas flow is needed

0,5 kPa = 0,5 % vapour = 0,5 ml/min water vapour (0,299 µl/min water)
+ 99,5 ml/min gas = 99,5 ml/min Gas

0,299 µl/min water flow and 99,5 ml/min gas flow is needed