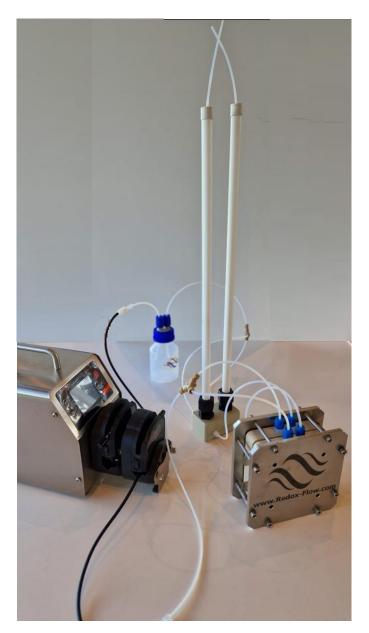
# Gas seperation unit Overview & assembly manual





#### Notes

This electrolyser gas separation unit is intended for research purposes only and can be used for many different purporses.

There is no warranty on performance, corrosion or lifetime on the items. It is purely for research purposes.

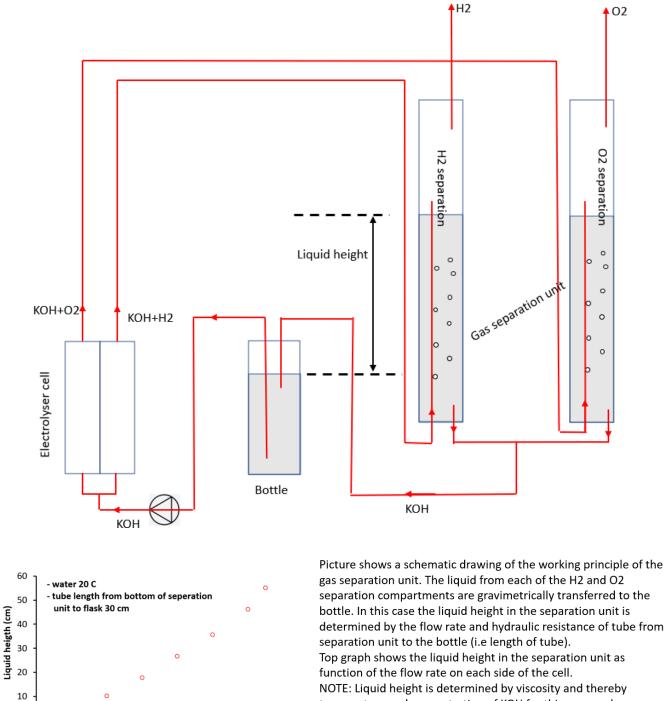
The black compression fitting that seals the 16 mm PP pipe contains a metal piece (to keep the pipe in place). It does not get in contact with the liquid and can be left in without concerns about corrosion.

Please note that both O2 and H2 have low, but not negligible, solubility in water, the gas separation does therefore not work with 100 % efficiency. For this reason, a mixture of H2 and O2 can be built up inside the PP bottle. To mitigate this, keep the head space in the bottle as low as possible.

Version 2.0 - July 12, 2023



#### Flow rates & operation principle



NOTE: Liquid height is determined by viscosity and thereby temperature and concentration of KOH for this reason above graph is indicative only.



Flow rate per side (ml/min)

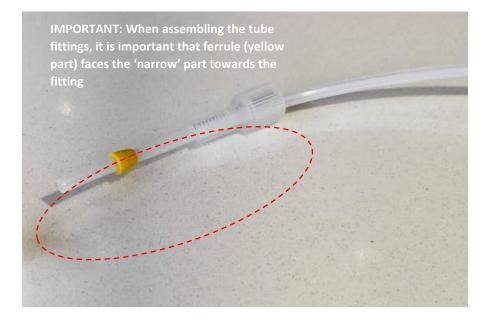
## Overview of included components

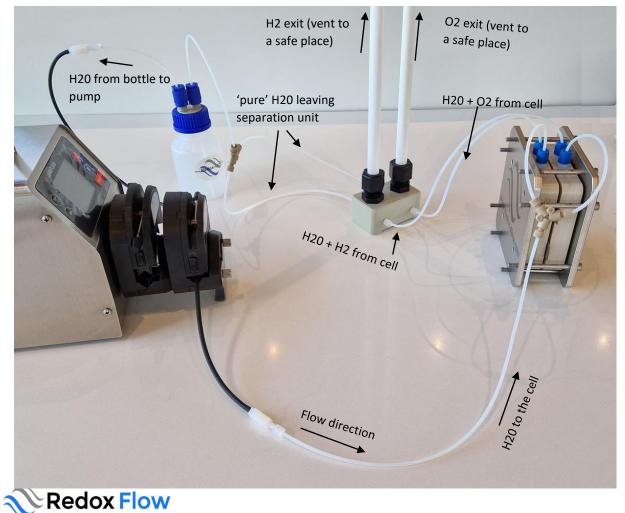


The whole setup comes unassembled and the 1/8" tubing in one piece, thereby giving larger flexibility.

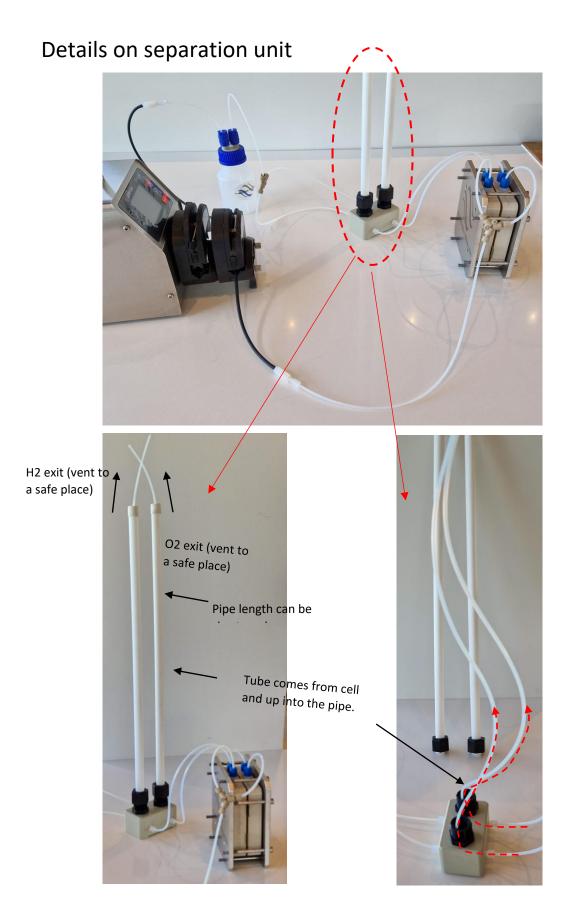


### Assembly





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## Mounting of tube inside pipe





