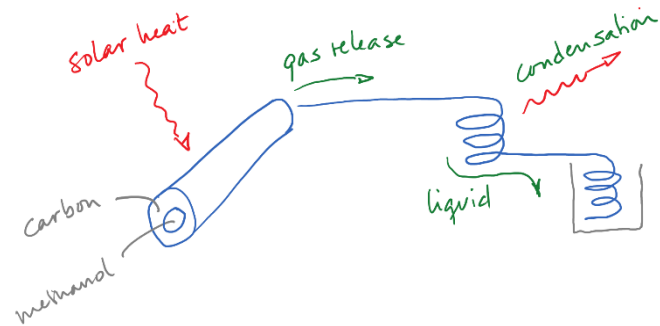
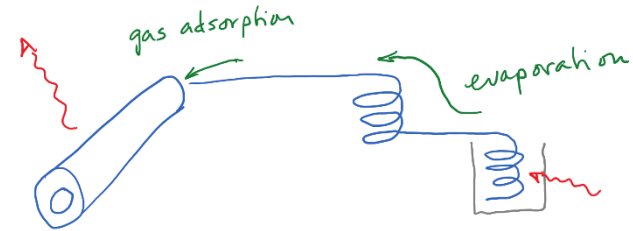


# Refrigeration unit

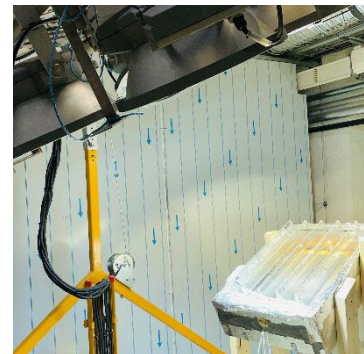


**Day time:** Solar heat generates vapor which condenses and accumulates in evaporator



**Night time:** adsorption and generation of ice in the evaporator

- Adsorption principle is well known, and we adopt it to a simple batch process
- First version with Ammonia was tested and further explored at University of Dar es Salaam, Tanzania
- Second version with activated carbon and Methanol in progress at NTNU
- Applications: Preservation for agricultural products and food, medicines,



(Ibrahim, Joseph, Andreas Grodås Jørs, Adrian Danielsen, Neema Wilfred Muhogolo)