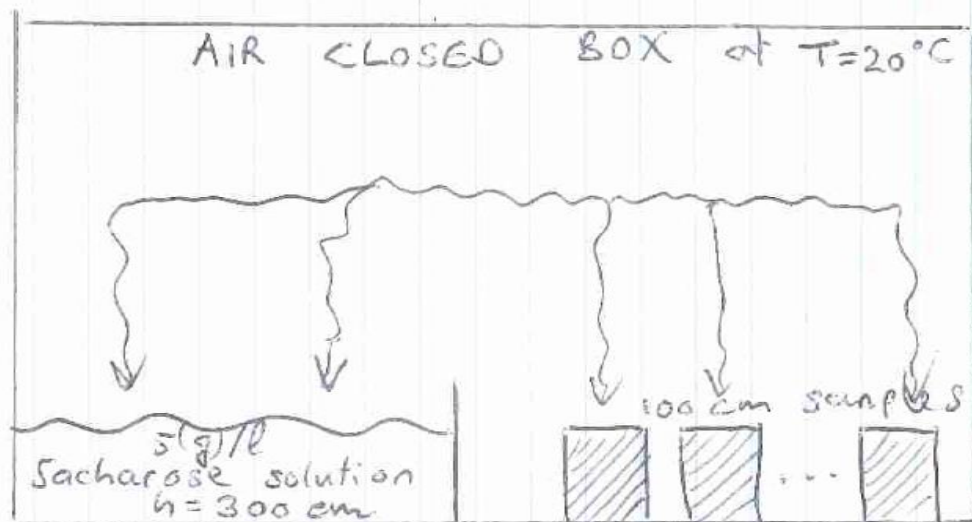




# Can Vapor Equilibration be used to bring soil samples to a certain pF value?



### What is the Problem?

For many types of Soil Physical measurements to be compared properly, the soil should be brought to a certain pF value. This can for example be done at a sandbox or in a pressure chamber. However, these methods are often not suitable for soil samples that are in the form of aggregates of other shapes.

In literature the option is proposed to use a salt solution in a closed chamber and to use Vapor Equilibration to bring soil samples to a certain pF value. First experiments in our Soil Hydro Physics laboratory have been done and give promising results.

### Optional work to be done:

- Design and setup an experiment to check if this method is indeed working
- Which pF values can be reached with which salt solutions?
- Evaluate the performance according to the current standards.
- Evaluate which kind of samples can be used for this method.
- Determination of a more suitable method for treating such samples .
- Evaluate if the applicable standards need to be adjusted.

**Host institute:** Wageningen Environmental Research

**Country:** Netherlands

**Starting date:** can be discussed

**SLM contact person:** Harm Gooren ([harm.gooren@wur.nl](mailto:harm.gooren@wur.nl), +31 317 483 707)

