

# PF-DETERMINATION (SANDBOX METHOD)



P1.80

## 08.03 Membrane apparatus for pF-determination (pF 3.0 - 4.2)

In case of the membrane apparatus for pF-determination of samples in the range pF 3.0 - 4.2 (1.0 - 15.5 bar), samples cut in sample rings are not used. In this setup the semi-disturbed sample is saturated before measurement in the laboratory and placed in a synthetic ring.

The complete set consists of a pressure membrane extractor suitable for a maximum of 15 samples, a 20 bar compressor including reducing valve and manometer, an air filter, cellophane membrane, filter cloth, synthetic soil sample retaining rings and various accessories.

For the pF-determination the laboratory should at least be fitted with a balance, a drying oven and aluminum soil sample boxes with lids.

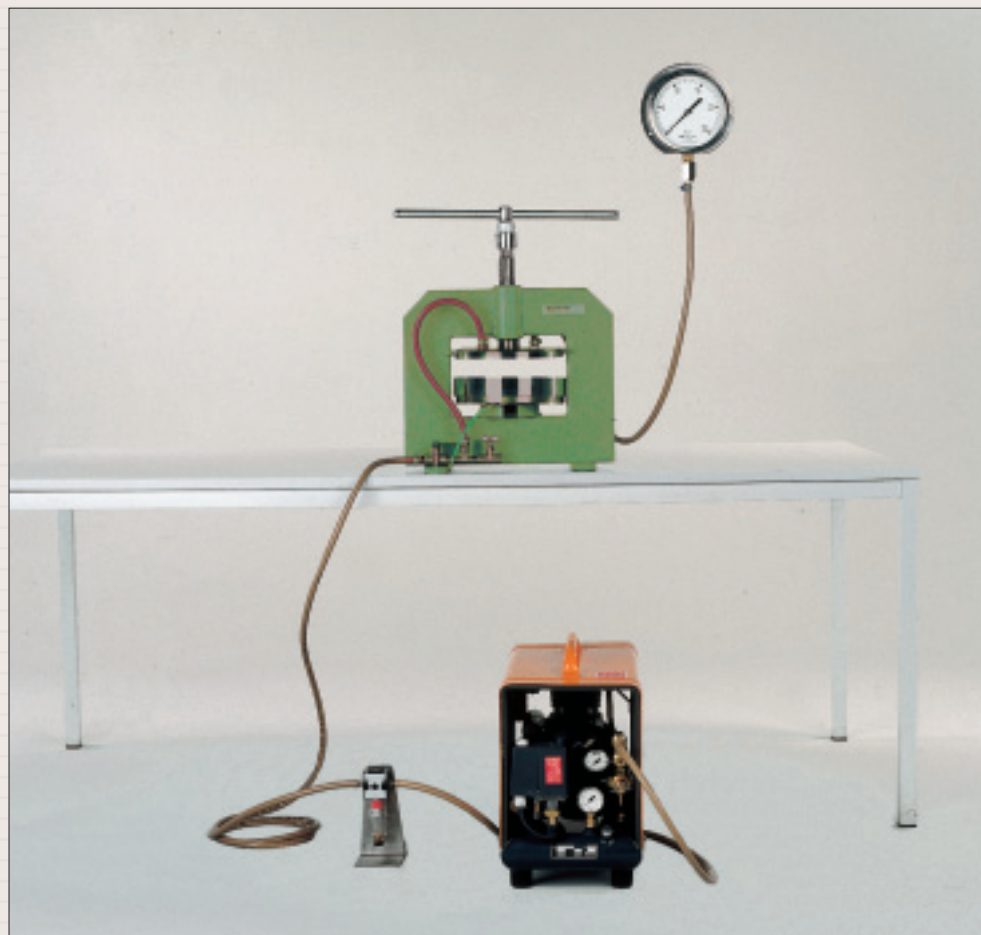
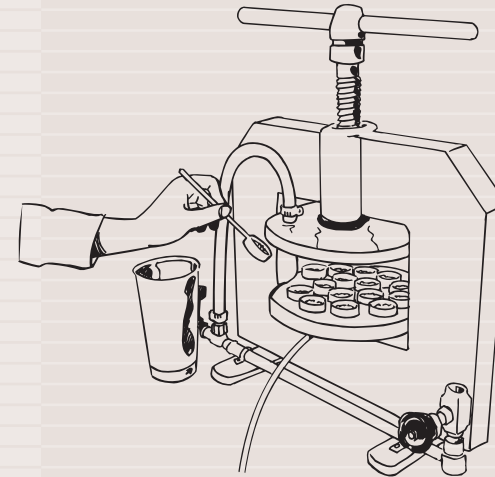
After saturation of the sample, part of this sample is placed in a synthetic retaining ring and prepared further.

After closing of the pressure membrane extractor an overpressure is realized in the pressure membrane extractor using the compressor.

On reaching the equilibrium the samples are removed, weighed, dried and weighed again.

In order to be able to measure a larger series of samples a second pressure membrane extractor can be connected to the first extractor.

The saturated sample is scooped from the sample pot into the rings.



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## BENEFITS

### 08.03 Membrane apparatus

- Determines the driest range of the pF curve
- Uses overpressure on disturbed samples
- Effective set-up



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