

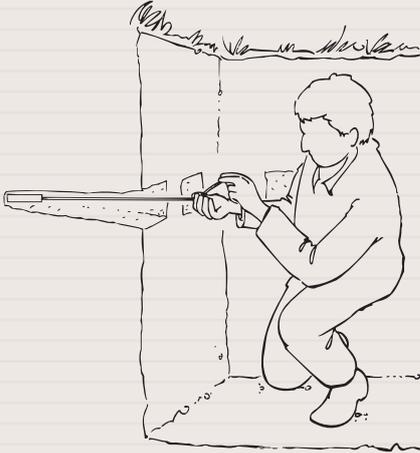


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# SOIL MOISTURE SAMPLING

P1.65

After installing a glass soil water sampling plate in a profile pit, the hole is filled and the tube is led to the surface.



## BENEFITS

### 12.56 Soil water sampling plate, glass

- Will also determine soil moisture flux
- For use in lab and field lysimeters

## BENEFITS

### 12.57 Soil water sampling plate, plastic

- Will also determine soil moisture flux
- Can be coupled/extended to large surfaces
- For use in lab and field lysimeters

## Glass / plastic sampling plates

### 12.56 Soil water sampling plate, glass, standard set

This glass suction plate was developed especially for the extraction of soil solution on large areas and its examination on organic solutes (Pesticides, DOM). It consists of a multilayer borosilicate glass plate that is melted down into a glass basin. This construction increases the rigidity as well as the water uptake of the plate, because the water can flow through the whole plate area at the same time. No use is made of additives or bonding materials, which can irritate laboratory analyses after collecting soil solution samples. The sampling tube is fixed to the plate without any adhesives, because sealings and glues can release DOC to the sampled soil water.

The plates are preferably installed horizontally from a soil profile wall or vertically from the soil surface.

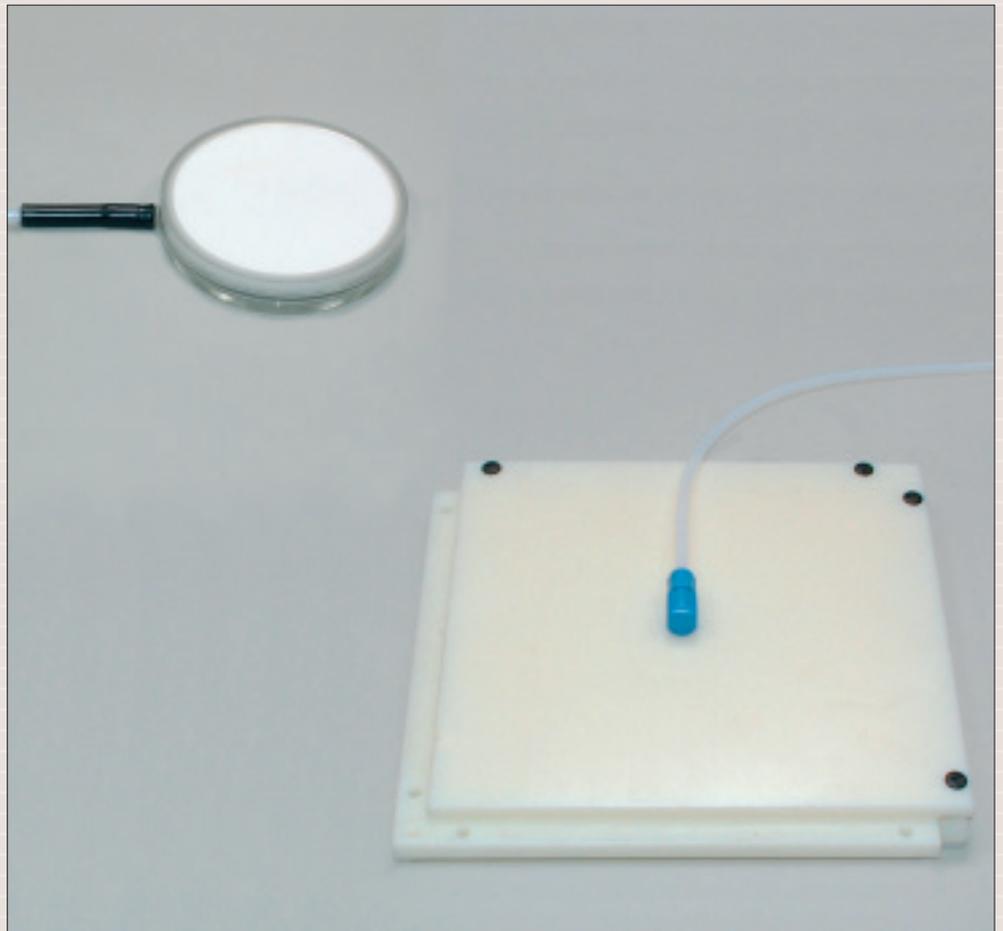
The standard set comprises: soil water sampling plates of glass with a diameter of 100 mm (with teflon sampling tube, sampling bottle with silicone stopper and a

### 12.57 Soil water sampling plate, plastic, standard set

The plastic suction plates are especially suited for the extraction of soil solution on large areas and its examination on heavy metals and phosphate. Because of their low charged surfaces, plastics are the best materials for these purposes.

The filter elements have a tongue and groove system and can be put together to areas of any size. Due to the extraction of soil water over a large area together with low adsorption losses quantitative examinations of solute fluxes are possible. The filter part of the suction plates consists of a porous polyethylene substructure and a hydrophilic polyamide membrane filter which is protected against damaging by a cover shield.

The standard set comprises: a square plastic porous soil water sampling plate 250 x 250 mm incl. teflon sampling tube, sampling bottle with silicone stopper and a vacuum pump with manometer.



Soil water sampling plate glass and plastic