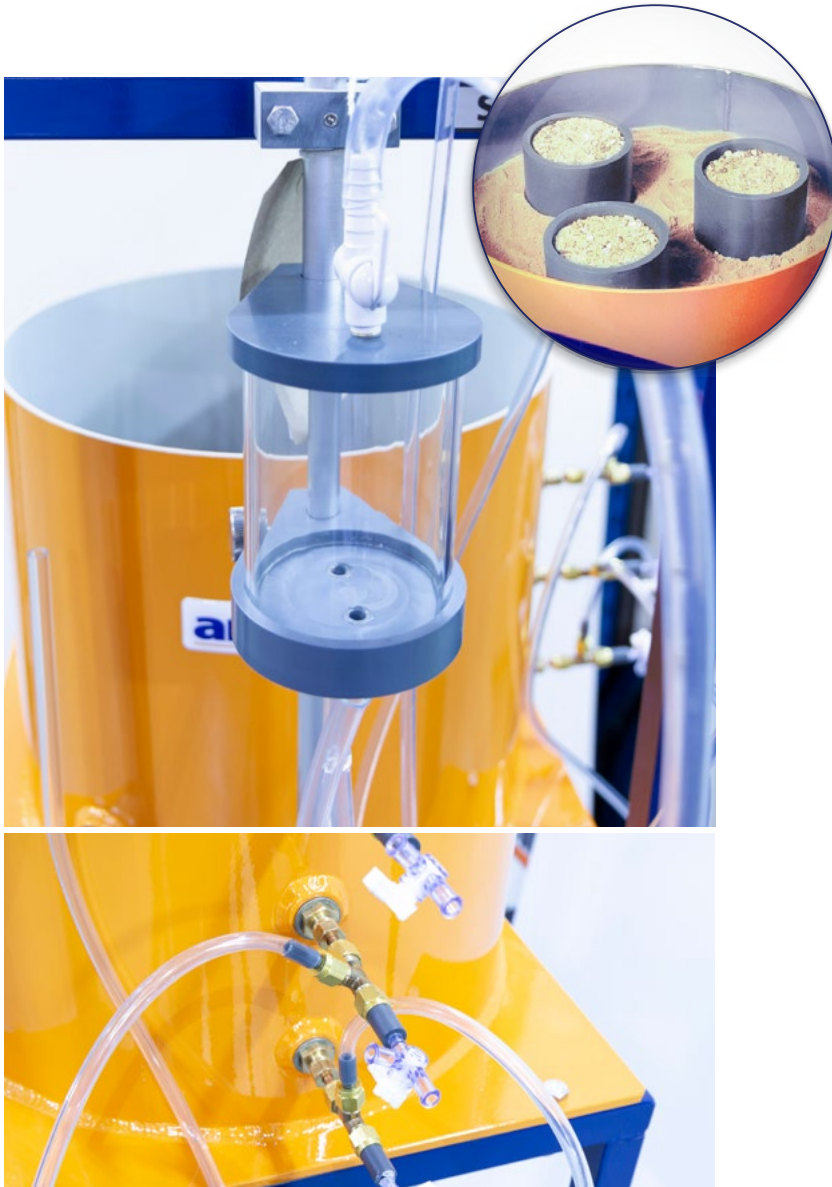


Primarily for the derivation of soil moisture characteristic curves, the FEL4 helps in understanding the principle of water retentivity and its relationship with soil moisture levels.

Soil Moisture Suction Sand Table – FEL4



Experimental content

- ▶ Understand the principles of water retentivity in terms of soil suction
- ▶ Demonstrate the relationship between soil texture and soil water characteristics
- ▶ Understand the relationship between water retentivity and soil
- ▶ Demonstrate the influence of soil structure on the soil water characteristics of a soil
- ▶ Derive soil moisture characteristic curves for a variety of soil
- ▶ Relationship between applied suction and suction attained in a sand table

Description

The equipment consists of a freestanding circular tank filled with saturated sand (not supplied).

Equilibrated soil samples placed on the sand are then subjected to a known variable suction range of 0-800mm of water.

The suction is applied by means of a buried porous pipe and an associated sliding control chamber. In order to maintain the suction an uninterrupted low volume water supply is required.

A lightweight cover is provided to prevent evaporative water loss during experiments and the table is large enough to permit the simultaneous evaluation of several samples.

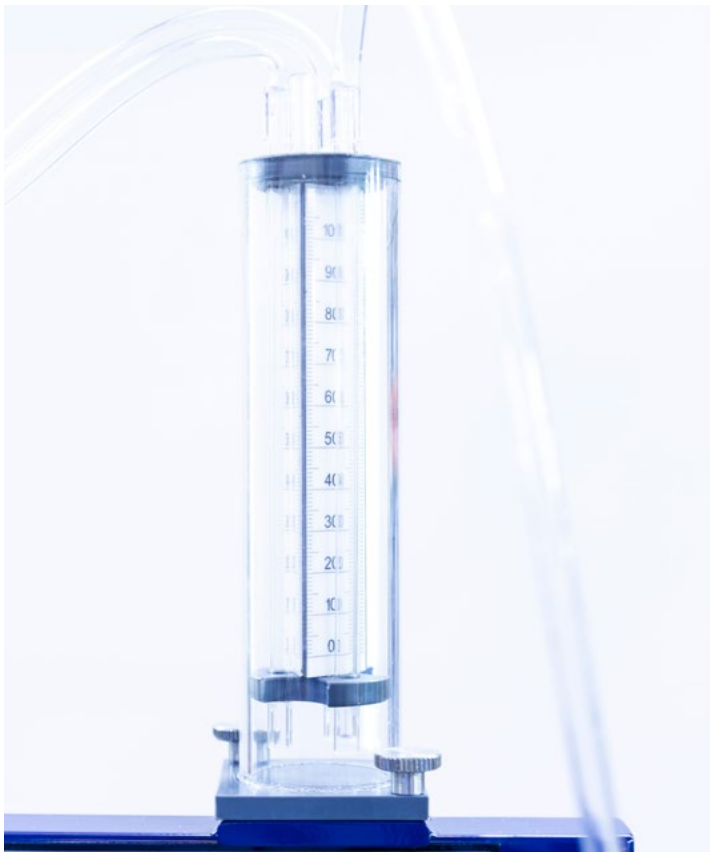
Requirements

Scale



Cold water supply: Connection to a permanent cold water supply

Drain: Suitable laboratory drain required



Overall dimensions

Length	0.5m
Width	0.4m
Height	0.5m

Packed and crated shipping specifications

Volume	0.7m ³
Gross weight	100Kg



Ordering specification

Soil Moisture Suction Sand Table comprising:

- ▶ 300mm diameter, with sliding suction control chamber giving tension range 0-800mm of water (using sandy-loam)
- ▶ Complete with three soil sample retaining rings (80mm diameter)
- ▶ Complete with instruction manual

Ordering codes

- ▶ FEL4

Knowledge base

- > 28 years expertise in research & development technology
- > 50 years providing engaging engineering teaching equipment

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