

### Constant Head permeability apparatus

Make: LabTek

Model: SUN-SL-004

Origin: India

Standards: BS 1377 | ASTM 46-47 | IS 2720 (PART XVII) 1966

The constant head method is particularly suitable for relatively coarse grained soil such as sands and gravel. For fine grained soils such as clay-like or silty soils see Falling head permeability apparatus.

The apparatus consists of a Perspex permeability cell mounted on a detachable aluminium base and head. The cylinder has pressure points at different levels, which have to be connected to the manometer stand and to the constant level tank. Two models available: 75 and 114 mm cell nominal diameter.

The apparatus is used for the laboratory determination of permeability of soil using a constant or a variable head. This test is recommended for soils with co-efficient permeability in the range of 0-10<sup>-3</sup> to 10<sup>-7</sup> cm/sec. The maximum particle size of the soil which can be tested in the mould is 10mm. The soil permeability is a very important factor to study the behavior of soil in its natural condition with respect to water flow.

Product Code

SUN-SL-004A/75 Constant Head Permeability Set for Ø 75 mm cell

SUN-SL-004B/114 Constant Head Permeability Set for Ø 114 mm cell

SUN-SL-004/01 Constant Head Permeability Cell, 75 mm dia.

SUN-SL-004/02 Constant Head Permeability Cell, 114 mm dia.

SUN-SL-004/03 Wooden Stand with 3 Manometer Tubes

SUN-SL-004/04 Constant Level Water Tank, 7 Liter



### Falling Head Permeability apparatus

Make: LabTek

Model: SUN-SL-005

Origin: India

Standards: BS 1377 | ASTM 46-47 | IS 2720 (PART XVII) 1966

Falling Head Permeability Set is used to study the behaviour of soil, particularly fine grained soils such as clay-like or silty soils, with respect to water flow. The Falling Head Permeability Cell is produced from plated steel with an inside diameter of 100 mm. The Wooden Stand is fitted with 4 glass Manometer Tubes of each 1500 mm long with inside diameters of about 21 mm, 12 mm, 5 mm and 3.5 mm. All tubes have connection valves. The Soaking Reservoir Tank is produced from plated steel with an over-flow tube and is used for containing the permeability cell during the test. De-Airing tank with in-let and a flow outlet Connection and Single Stage Vacuum Pump Should be ordered separately.

The SUN-SL-005 Falling Head Permeability Set is supplied complete with;

- SUN-SL-005/01 | Wooden Stand with 4 Manometer Tubes and 3 m Hose
- SUN-SL-005/02 | Falling Head Permeability Cell 100 mm dia.
- SUN-SL-005/03 | Soaking Reservoir Tank  
De-Airing Water Tank.

