

Product Name :
Permeability and Fluidisation Studies Apparatus

Product Code :
NLAB-TECHNICALAB38005

Description :

Permeability and Fluidisation Studies Apparatus

Technical Specification :

The apparatus can also be used for a part of the testing of media for water and waste water filtration. Demonstration Capabilities > pressure drop measurements and correlations for flow through packed beds > verification of Kozeny's equation > characteristics of a liquid fluidised bed > measurement of permeability of selected solids > attrition tests. Description

A bed of granular medium (usually sand, but other materials can be used such as Ballotini or anthracite) is placed in a readily demountable tube through which water can be made to flow in either a downwards or upwards direction.

Flow from a laboratory tap passes through a constant head tank, which also allows air bubbles to be released, and is controlled by hand with a needle valve. The rate of flow is indicated by a variable area meter.

Pressure drop across the bed can be measured either by a 0.5m length water differential manometer or a 0.5m length Mercury manometer (see recommended accessories), depending on the magnitude. Valves are fitted for isolation of various parts of the circuit, together with air release valves.

The test section tube and all tubing connections are transparent so that operation can be observed and the presence of air bubbles easily detected. All metal fittings are corrosion resistant.

No power connections are required and the whole apparatus can be lifted and transported by one person. Test material (Ballotini) for the packed bed is supplied but Mercury for the manometer is not included.

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