

Features:

- Compact bench top unit with non-corrosive components
- Transparent components & Tubing for better visualization.
- Includes precision Flow meter & differential manometer for accurate measurement.

Tesca Filterability Index Unit Demonstrator is demonstrating the filtering process through porous media. It enables a water quality test to be made on a suspension to be filtered through sand or similar granular media. This unit utilizes a bed of granular material, normally sand, which can be chosen by the student to suit his own purposes. The measurements taken with this unit enable a filterability index to be calculated which has significance in deep bed filter performance.

The Filterability index unit is a bench-top unit composed of a feeding tank, where the initial solution of water with solids in suspension is placed. During the normal operation, the tank is communicated with the sand filter upper part, through a pipe of 10 mm diameter. The filter lower part is communicated with the flowmeter. A regulation valve located at the flowmeter allows changing the flow which passes through the filter. The fluid pressure is obtained by means of gravity because the feeding tank is placed at a higher level. The pressure is measured by a manometer.

The filter cartridge is easily removable, so it allows to study of the difference between different media, both in compositions and in the mesh.

Detailed Operation & Maintenance Manual is provided along with the trainer.

Specifications:

- Feed Vessel: 1.5-liter Capacity, Material - Glass
- Filter Unit: 60mm high, cell diameter: 38mm
- Flowmeter: 20-280ml/min.
- Water manometer: Range 0.5 m
- Height: 0.97m
- Width: 0.45m
- Depth: 0.25m

Experiment Capabilities:

- Measurement of filterability of a given suspension performance of a standard water quality test.
- Procedure for filtration.
- Basic principles of filter operation for student study.
- Preliminary assessment of pre-treatment processes and filter media calculation of filterability index number from measurements taken

Required Services:

- Water: Tap water supply & Drain.

Note: Specifications are subject to change.

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