

Water Treatment Trainers

Educational Training Equipment for the 21st Century

Bulletin 651-9A

H-6519 Permeability/Fluidization Studies Trainer

Purpose

The Hampden **Model H-6519** Permeability/Fluidization Studies Trainer is designed to investigate the measurement and characteristics of flow through a bed of particles.

The trainer consists of metal framework, transparent test section module, constant head module, valve and flowmeter module, water manometer, digital manometer, interconnection tubing and glass beads for the test column.

Description

Tap water is used to fill and maintain the constant head tank. The out flow of this tank is controlled by a needle valve which interfaces with the flowmeter and may be connected to the test section module for either up or down flow. The pressure drop across the filter bed is measured by either water or mercury manometer.

Specifications

Framework: 1½" square mechanical steel tubing finished in instrument tan texture.

Base: 1½" square mechanical steel tubing finished in instrument tan texture with four levelers.

Flowmeter: 0-745 ml/min

Differential Manometer/Water: 20"

Manometer: Digital

Test Section

Module: 20" long by 1½" diameter clear plastic with fittings for easy removal and media fill. Unit is provided with glass beads. Other granular media beds, i.e. sand, is procured locally.

Interconnection Tubing: Transparent



Recommended

Accessories: Thermometer
Sieve Shaker
Media material, i.e. sand

Services Required

Water: ½ gallon/min @ 20 psi

Waste: Drain



110716

All Hampden units are available for operation at any voltage or frequency

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