

Hydrology Trainers

Educational Training Equipment for the 21st Century

Bulletin 653-57A

H-6535-7 Viscosity Demonstrator

Purpose

The Hampden **Model H-6535-7** Viscosity Demonstrator provides the student with the means to perform experiments in the measure of viscosity.

The application of shear stress to a fluid results in the continual and permanent distortion known as flow. Viscosity is the resistance of a fluid to its internal friction i.e. Shear motion. This resistance is due to cohesion of the molecules and molecular transfer from one layer to another setting up a tangential or shear stress. Cohesion predominates in liquids, as temperatures increase cohesion decreases as does viscosity.

Description

The **Model H-6535-7** consists of a steel mounting base with rubber feet and steel mounting panel. The base is finished in instrument tan texture and the equipment mounting panel is finished in instrument white. The nomenclature shall be silkscreen nomenclature. Components supplies consist of the following:

- Viscometer, Type 1
- Viscometer, Type 2
- Viscometer, Type 3
- Floats, Glass (3)
- Floats, Stainless Steel (3)
- Float, Tantalum
- Stop Watch, Digital
- Beaker, 1000mL
- Instruction Manual

- Pipet Package Consisting of:
 - 1 - Borosilicate Glass Tube
5mm OD x 0.6mm ID
 - 1 - Borosilicate Glass Tube
6mm OD x 1.2mm ID
 - 1 - Borosilicate Glass Tube
6mm OD x 2.7mm ID
 - 1 - Borosilicate Glass Tube
7mm OD x 2.2mm ID
 - 1 - Borosilicate Glass Tube
7mm OD x 3.0mm ID



010814

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

Hampden
ENGINEERING CORPORATION