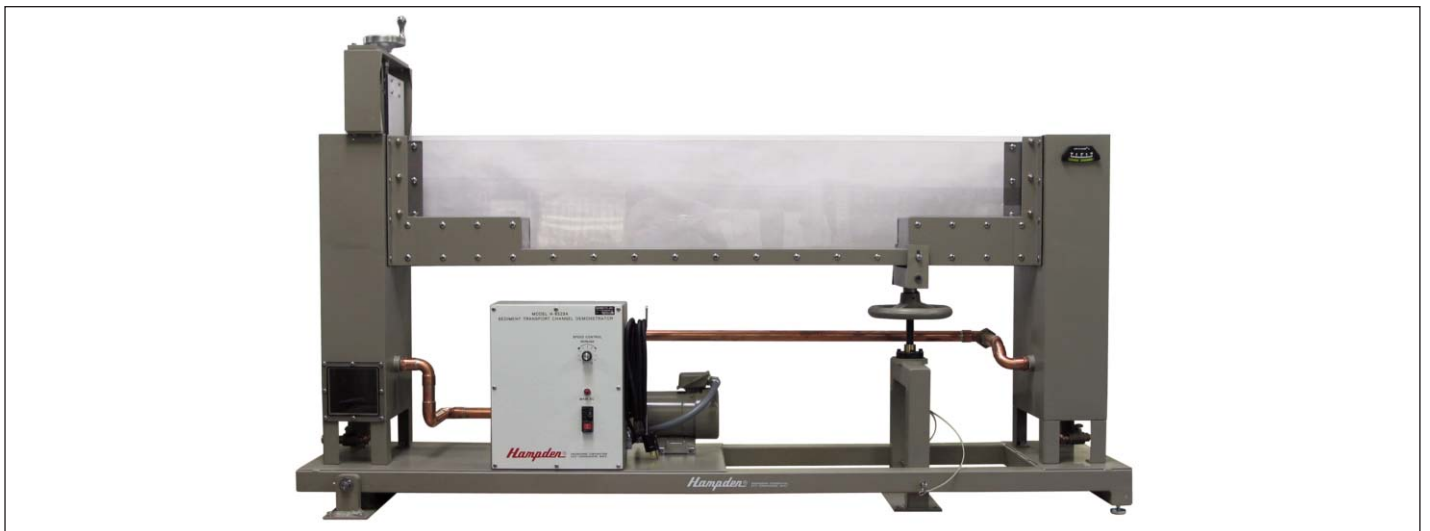


# ENVIRONMENTAL SYSTEMS



**Hampden**<sup>®</sup>  
ENGINEERING CORPORATION



## Observe Environmental Occurrences with Hampden Environmental Demonstrators

### COMPARE INFILTRATION RATES OF DIFFERENT SOIL TYPES AND TREATMENTS

The Hampden MODEL H-6520 Infiltration Demonstrator investigates the infiltration rates of different soil types and soil surface treatments. The unit consists of a table top base and panel assembly, sump tank tray, three glass cylinders, upper and lower bracket assembly and a graduated beaker.

#### Accessories

- Graduated beaker, 1000mL
- Spare perforated plate
- Spare hardware set
  - 3 - 40" x 40" copper mesh screen
  - 1 - breather tube
  - 1 - "O" ring



**Model H-6520**  
Dimensions: 36"H x 22"W x 16"D

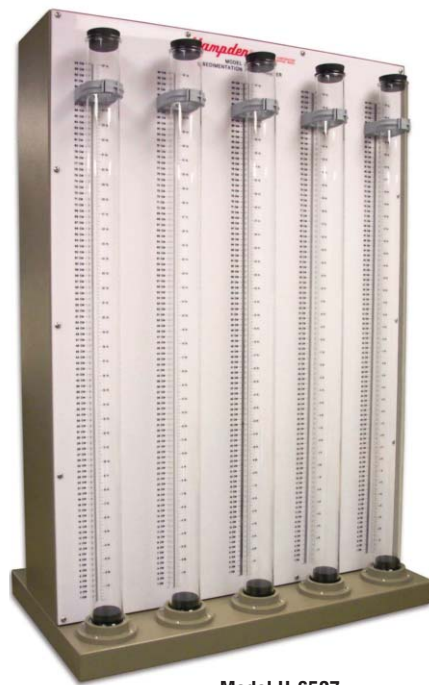
### EXPLORE SEDIMENTATION PHYSICAL PROCESSES

The Hampden MODEL H-6527 Sedimentation Study Trainer investigates sedimentation physical processes. The student will be able to evaluate and measure the particles as to height, size and settling rates for making up the sedimentation curve.

The trainer consists of a metal framework with an illuminated front panel with silk-screened scaled markings, five vertical mounted glass cylinders, mounting clips, and accessories.

#### Accessories:

- Stop watch, digital
- Plastic beaker - 2 liter, 3-required
- Soil hydrometers for specific gravity of soil samples in suspension, 11" long (280 mm)
- Hydrometer Jar



**Model H-6527**  
Dimensions: 44½"H x 30"W x 18"D

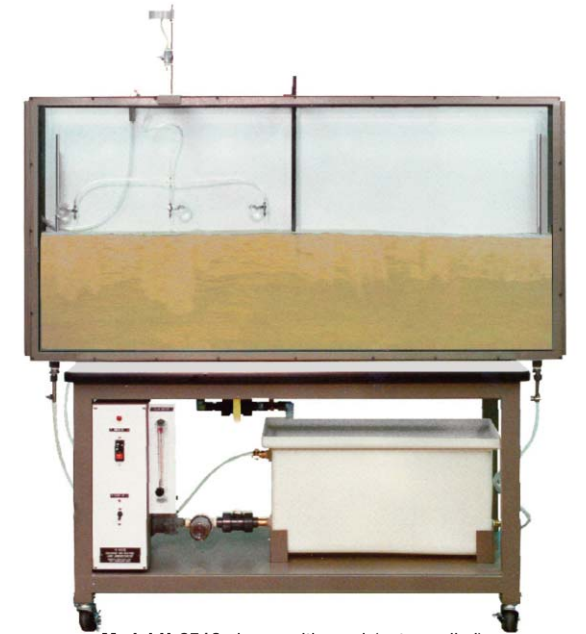
### INVESTIGATE WATER FLOW THROUGH PERMEABLE MEDIA

The Hampden MODEL H-6510 Drainage and Seepage Tank investigates water flow through permeable media. Using sand as the medium and two-dimensional models, flow lines can be determined as well as the distribution of up-lift pressure and seepage rates.

This unit incorporates a mobile carrier with a sump tank, pump, starter, control valve, tank, adjustable overflow drains, tank drain, six pressure taps, dye injection tank with hose, model set, and graduated beaker.

#### Accessories

- Flexible tube set
- Graduated beaker
- Operating Instructions Manual
- Pump service kit



**Model H-6510** shown with sand (not supplied)  
Dimensions: 58"H x 60"W x 24"D

### OBSERVE LAND DRAINAGE, FLOOD RISK, WELLS AND DRAINAGE OF LAKES & PONDS

The Hampden MODEL H-6526 Ground Water Flow Tank investigates simple three dimensional flow models utilizing sand as a medium. A multitube manometer is used to show profile and make level measurements at appropriate locations.

Tank demonstrations will provide the student with practical experiments about land drainage, flood risk, wells, as well as drainage of lakes or ponds.

The unit consists of a mobile structural tube frame base, tank assembly with fittings and a nineteen tube manometer.

#### Accessories:

- Rectangular Ring — Large
- Rectangular Ring — Small
- Round Ring — Single well assembly
- Stainless Steel Weights
- Sand — 2 bags #1 Silica Sand, washed
- Hose Adaptor



**Model H-6526**  
Dimensions: 42"H x 43¼"W x 25"D

**Standard Products...Designed to Meet Your Growing Needs!**

# HYDROLOGY DEMONSTRATORS

## STUDY SUSPENDED SEDIMENT IN A MOVING STREAM

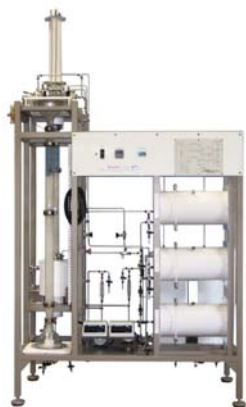
**MODEL H-6523A** Sediment Transport Demonstrator investigates suspended sediment in a moving stream and bed load movement. The moving stream can be controlled to simulate fast flowing streams or slow moving rivers to demonstrate the various sizes and densities of partial deposits. 0-10% slope. Working Section: 12"H x 60"W x 6"D



Model H-6523A  
Dimensions: 45"H x 72"W x 8"D

## EVALUATE LIQUID-LIQUID AND SOLID-LIQUID EXTRACTION

**MODEL H-6150** Liquid-To-Liquid Extraction Demonstrator has been developed to permit student study of the fundamentals of a liquid-to-liquid extraction system. In addition to demonstrating the hydrodynamics of liquid-to-liquid extraction systems and interface control techniques, this unit can also be used to determine the mass transfer rates, heat transfer coefficients, extraction efficiency, and operating conditions at different liquid flow rates.



Model H-6150  
Liquid-Liquid Extraction Demonstrator  
Dimensions: 102"H x 57¼"W x 29"D

**MODEL H-6160** Solid-To-Liquid Extraction Demonstrator allows student study of the fundamentals of a solid/liquid extraction system. The student will be able to determine the operating characteristics of solvent extraction from a packed bed. It comes equipped with all components required to operate the system. Glass parts are used where observation of the process is informative. The corrosion resistant nature of the equipment allows the unit to be used with a wide variety of systems including: water/inorganic salts; water/sugar beets; methylene chloride/vegetable oil; water/coffee and others.



Model H-6160 Solid-Liquid  
Extraction Demonstrator  
Dimensions: 80"H x 45"W x 20"D



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