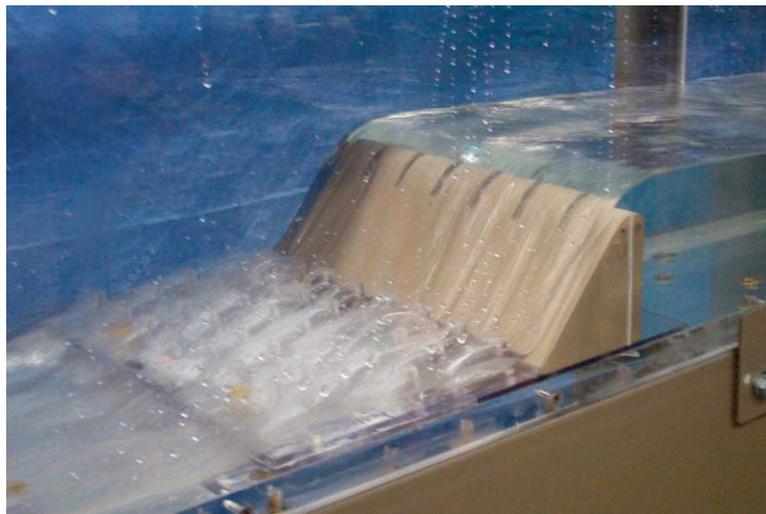


Hydrology

Demonstration and Experimentation Equipment



Hampden[®]
ENGINEERING CORPORATION



HYDROLOGY DEMONSTRATION & EXPERIMENTATION EQUIPMENT

Designed to Work!

Hampden Engineering Corporation designs and builds the finest educational training equipment in the world. Our line of Hydrology Demonstration & Experimentation Equipment is built to provide professionals and students with an exceptional selection of modeling and analysis tools.

All Hydrology Demonstration & Experimentation Equipment is built to Hampden's high standards of quality and unmatched value. The rugged construction and materials incorporated into all Hampden products can assure you years of trouble-free operation.



Hampden's new Digital Manometer & Manifold Assembly, **Model H-6927-10**, is included as a standard with many of our Flume products and provides accurate and instantaneous data acquisition over traditional methods. The range of this instrument is suitable for gauge, differential, or absolute measurements over a wide range of pressures.

Accessories

We can provide any number of standard or custom accessories as required to complete your program. All of our experimental apparatus is designed to fit within your specific equipment exactly while also being designed for quick set-up and operation. The following flume accessories are typical examples of the apparatus set-ups available.



- Pitot Tube
- Hook and Point Gauge
- Pipe Flow Set
- V-Notch Weir
- Broad Crest Weir
- Spillway Section
- Sudden Contraction/Expansion
- Venturi w/Pressure Tap
- Flow Nozzle Pipe
- Reynolds Experiment



MODEL H-6523A Sediment Transport Demonstrator is designed to investigate suspended sediment in a moving stream and bed load movement. Simulates fast flowing streams or slow moving rivers to demonstrate the various sizes and densities of partial deposits. 0-10% slope.
Working Section: 60" L x 6" W x 12" H



MODEL H-6940 Multi-Purpose Flume has been developed to investigate basic principles of fluid mechanics—various weirs, flume, gate syphon and spilling. Clear channel, inlet tank, discharge tank, pivot leg assembly, slope adjustment, pipe and flowmeter assembly and model set.
Working Section: 8' L x 3" W x 10" H



MODEL H-6530 Mobile Hydraulic Demonstration Channel is designed for the investigation of analytical applications of fluid mechanics within a continuous media including conservation of mass, continuity, energy, and momentum. Application of these laws may be simplified in order to describe quantitatively the behavior of the fluid.
Working Section: 144" L x 6" W x 18" H

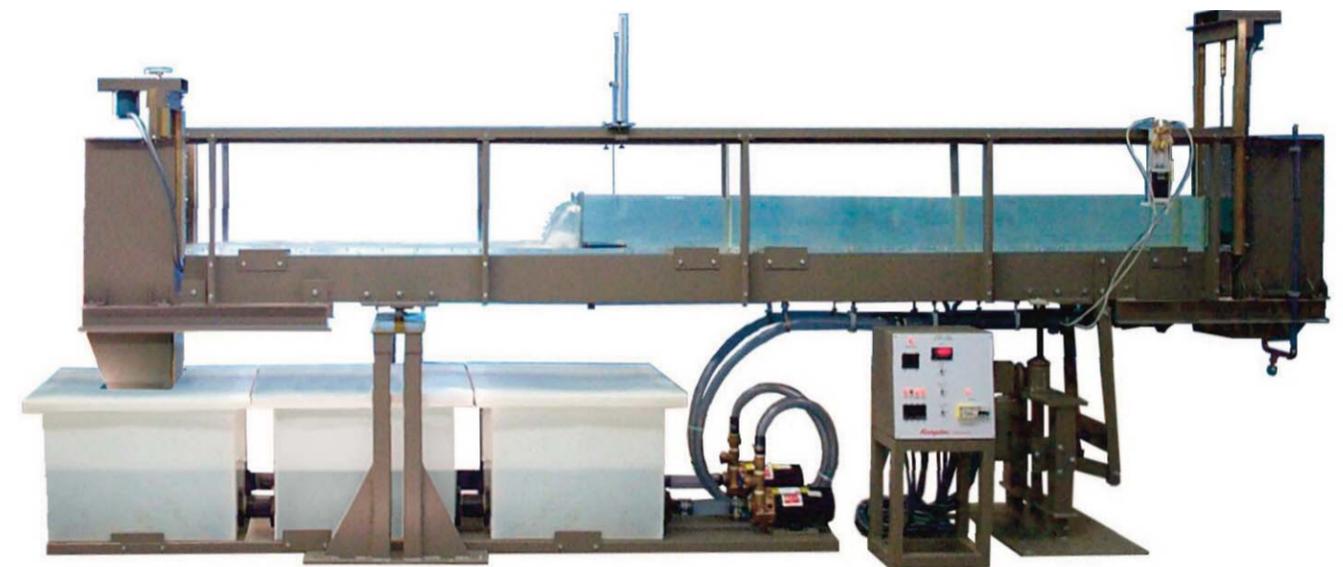
Complete Solutions

Our line of Hydrology Demonstration & Experimentation Equipment is designed to fit the working needs of professionals and advanced students alike. From the smaller flumes, used to demonstrate the principles of study to the larger flumes, used in the evaluation of real-world processes, Hampden products provide the right solutions for your needs.



Support Services

We are a world leader in the design and manufacturer of specialized educational equipment. At Hampden Engineering, our engineers and technicians will work with you to create a product that is exactly right for your application. Specialized modifications or additions to standard products are easily achieved. Every unit we build is designed to provide the maximum benefit to the customer without compromising functionality, quality or durability. Contact your Hampden Engineering representative for more details on specific products or to learn more about our wide of selection other Hampden products.



Hampden **MODEL H-6531** Hydraulic Demonstration Channel has been designed to investigate advanced analytical applications of fluid mechanics to situations in which fluids can be treated as continuous media. The particular laws involved include conservation of mass, continuity, energy, and momentum. Application of these laws may be simplified in order to describe quantitatively the behavior of the fluid.
Working Section: 144" L x 12" W x 18" H

**We Offer A Complete Line of
Hydrology Demonstrators & Apparatus...
Call us with Your Needs!**



H-6520 Infiltration Demonstrator includes three cylinders for soil placement. Water infiltration into different soil samples can be accurately measured and compared.



H-6510 Drainage and Seepage Tank demonstrates water flow through permeable media (sand). Two-dimensional model flow lines can be determined as well as distribution of up-lift pressure and seepage rates.

Hampden Engineering Corporation

HYDROLOGY



MODEL H-6990 Tilting Water Channel and Gate System is designed for use as a general purpose center pivot flume. With the H-6990, one can demonstrate and investigate steady and unsteady flow, sediment transportation, weirs, sluice gates and wave phenomena. The channel consists of a head tank, working section, tail tank and model set.
Working Section: 64'L x 23.6" W x 35.4" D



Hampden is committed to providing industry-leading technology.

For the latest from Hampden, visit our home page at <http://www.hampden.com> or e-mail us at sales@hampden.com

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