

# Hydrology Demonstrators

Educational Training Equipment for the 21st Century

Bulletin 654-5C

## H-6545 Rainfall Demonstrator

### Purpose

The Hampden **Model 6545** Rainfall Demonstrator has been developed to demonstrate rainfall and a moving storm, along with runoff relationships for dry, saturated, and impermeable catchments of various slopes and mediums.

### Description

The unit incorporates a mobile carrier with a sump tank, pump, starter, control valves, demonstration tank, 8 spray nozzles, and 19 tube manometers.

### Experiment Capabilities

- Investigation of rainfall
- Investigation of runoff
- Simulation of moving storms
- Dewatering of excavation sites
- Flow from a well in a confined aquifer
- Demonstration of water sheds
- Sediment transport
- Studies of scour around simulated bridge piers

### Services Required

#### Electrical

120V AC, 60Hz, 1Ø

#### Water

- Supply (fill sump tank)
- Waste drain (drain sump tank)

#### Granular medium



Model H-6545 Rainfall Demonstrator  
Size: 94"L x 43"W x 81"H

### Options

- **H-6545-10** Instrumentation Package
  - Water Flowmeter
  - Sediment Flowmeter
- **H-6545-20** Models Package
- **H-6545-CDL** Computer Data Logging Package
  - Flow Sensor
  - CCD Camera with Mounting
  - H-LTCS Laptop Computer with LabVIEW® Software



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

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