Product name:	Product code:
Advanced Hydrology Study System	Hydraulics0013



Description

Advanced Hydrology Study System

Technical specification

- Hydraulic gradients in ground water flow .Investigation of model stream flow in alluvial material
- Formation of river features and development over time
- Sediment transport, bed load motion, scour and erosion

Features of Advanced Hydrology Study System

- Stilled inlet tank provides developed river flow conditions, allowing the full length of the tank to be used for river simulations
- Novel outlet tank design for water flow and sediment flow measurement
- Stainless steel sand tank
- Dual jacks provide adjustable tilt
- Adjustable spray nozzle height
- Use of fine grade sand allows detailed feature development
- Single grade of sand for all defined demonstrations, no need to change the sand
- Control and measurement of inlet flows
- Flexible configuration allows a wide range of simulations
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- Computer data logging option for sediment and water outlet flow measurement

Advanced Hydrology Study System

The unit comprises a sand tank, made of stainless steel, measuring 2 meters by 1 meter. Water may be input to the sand tank from spray nozzles located above the tank (simulating rainfall) from an inlet tank simulating a river flow or from two french drains buried in the sand at either end of the tank. The water is output either from an outlet tank and flow measurement system located at the end of the main sand tank, from up to both of the two wells located in the tank, or one or both of the French drains.

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A large plastic sump tank is located under the sand tank.

Capabilities of Advanced Hydrology Study System

- Determination of run-off hydrographs from model catchments including multiple storms, moving storms, effect of reservoir storage and land drains
- Construction of draw-down curves for one or two well systems in a sand bed