

Advanced Hydrology Apparatus (EDC-FM-150)

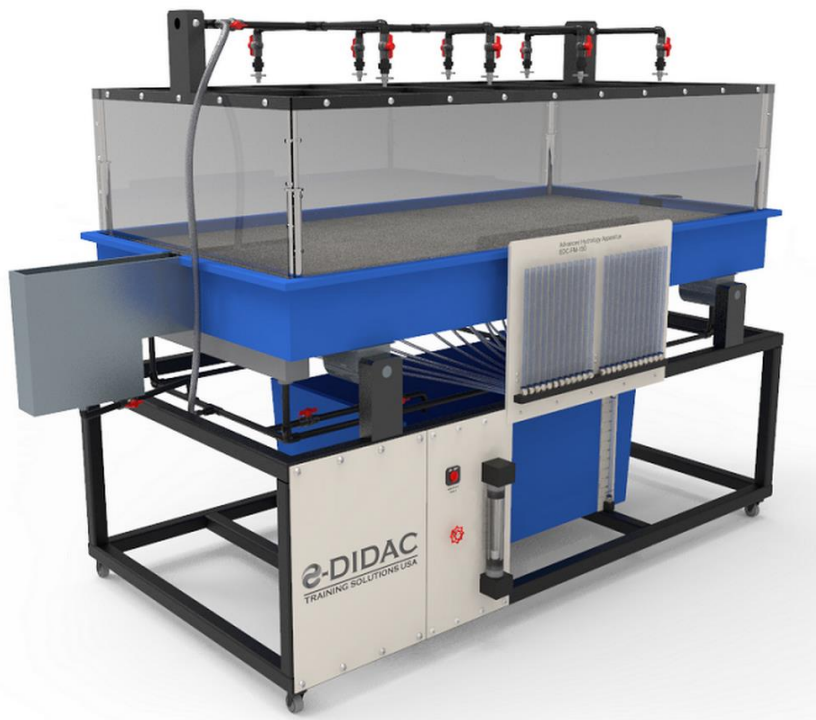
EXPERIMENTAL DATA:

- Effect of rainfall of changing duration on the discharge.
- Flow performance of rivers, problems in the river bed, sediment transportation in rivers.
- Storing capacity of a soil.
- Exploring steady processes.
- Exploring seepage flow.
- Paraphernalia of wells on the groundwater level over time.



DESCRIPTION:

Apparatus EDC-FM-150 used for learning of seepage and groundwater flows. It contains a closed water circuit with pump and flow control valve with rotameter for the measurement of flow at inlet. The central element is a sand-filled, stainless steel experiment tank with inclination adjustment. To study rainfall, piping is on the top for artificial rain with control valves to operate manually on different area of the experimental bed. Two tanks one at inlet and other at outlet for advance measurement of flow and problems in sediment transport.



SPECIFICATIONS:

- Inclinable stainless steel experiment tank.
- Experimental tank contains different measuring connections to detect groundwater levels, measuring connections at inlet and outlet tank, and screens for separating the chambers.
- Wells with open seam tubes in the experiment tank.
- Rainfall device with different nozzles that are adjustable.
- Water supplies and drains can be selected separately.
- Instruments: Tube manometers for groundwater and flow meter for water supply.
- Investigation of rain-discharge relationships.
- Storage capacity of soils.
- Seepage flows and groundwater flows.

TECHNICAL DATA:

- Testing tank: area 2 m x 1 m, 0.2 m depth.
- Rainfall device with nozzles: Qty 8.
- Flow rate adjustable using valve.
- Weir for measuring flow rate.
- Pump for water supply: 25 LPM.
- Storage tank for water: 220L.
- 230V, 50Hz, 1 phase.

DIMENSIONS AND WEIGHT:

- L x W x H (mm): 2500X 1150 X 1850 approx.
- Weight: 330 kg approx.

SCOPE OF DELIVERY:

- 1 x EDC-FM-150
- 1 x Instructional Manual

