



Features:

- Designed to obtain catchment rainfall and runoff values as functions of time.
- Provided with Electronically controlled & motor-driven traversing vessels for collecting runoff.

Tesca Rainfall Hydrographs Demonstrator is designed to study rainfalls in laboratories. The unit consists of a tank filled with gravel. Water is supplied by overhead nozzles & water flow is controlled by a flow control valve. Transparent curtains are provided around the tank to avoid water spillage. To collect the runoff a measuring unit is located at one end of the tank. The measuring unit consists of a motor-driven traversing vessel with 17 storage compartments. An electronic console controls the traversing vessel. Water collected in the vessel provides an immediate histogram of runoff as a function of time.

The trainer is supplied with the following accessories -

- Polythene sheet for impermeable catchment
- Four plastic containers for reservoir storage
- Permeable pipe for tile drain

Detailed Operation & Maintenance Manual is provided along with the trainer.

Specifications:

A self contained facility for study of flow through permeable media.

Tank

Length: 1.2m

Width : 0.6m

Height : 0.2m

Flow meter range : 0.4 - 4.4 litres / min

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tescaglobal.com

Runoff collector : 17 x 0.5 compartments

Overall Dimensions

Length: 1.58m

Width : 0.9m

Height : 1.05m

Ordering Specifications:

- A unit designed to obtain catchment rainfall and runoff values as functions of time.
- Comprising a bench- or floor-standing tank with two overhead square pattern spray nozzles
- supplying water via a flow control valve, flow meter, and solenoid valve.
- A motor-driven traversing vessel with seventeen compartments is moved by a timer beneath the
- outlet at a preselected rate to collect the runoff and provide an immediate display of the hydrograph.
- The tank is 1.2m in length x 0.8m wide x 0.2m deep.
- The flow range is 0.4 to 4.4 liters/minute.
- A comprehensive user manual is included in the supply.

Experiment Capabilities:

- Storm hydrographs from single or multiple storms
- Storm hydrograph from a previously saturated catchment
- Storm runoff from an impermeable catchment
- Effect of a moving storm on the flood hydrograph
- Effect of reservoir storage on the flood hydrograph
- Effect of land drains on the flood hydrograph

Required Services:

- Hydraulics bench or cold water supply (4 litres/min required Drain)
- Electrical supply : 220-240V/1pH/ 50Hz 1m³ washed, well graded gavel, range 2.0-5.0mm