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Product Name :
Sediment Flow Channel

Product Code :
LBNY-0005-10300055



Description :

The channel is of a rectangular cross-section supported by steel frame. The channel sides are made of clear acrylic with tilting controlled by a manual screw jack. Sediment Flow Channel is a self contained bench top open channel for studying bed forms with change in flow and slope as well as flow phenomena without sediment. A stainless steel head tank with a stilling baffle provides a smooth flow. A fine strainer is provided in the storage tank to trap the sand sediment. The water is discharged from the channel via a built in rectangular weir to the storage tank.

Experiments:

- Flow over fixed gravel bed.
- Fixed smooth bed flow.
- Local scour.
- Mechanics of sediment transport.
- Bed form hysteresis.
- Flow over mobile sand bed.
- Flow structures.
- Depositionary features and fancies.
- Computational work.

Technical Specification :

Technical Data:

- Channel bed : Stainless steel.
- Side walls : Clear acrylic with clear vertical scale.

Tilting adjustment : 0 to + 10 %.

Channel size : 75 mm wide x 15 cm high x 1.5 m long.

Sediment : Fine grade sand.

Flow measurement : Water meter.

Power supply : 220 V, 1 Ph, 50 Hz.



Laboratory Instrument India