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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