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Product Name :
Open Channel Sediment Transport

Product Code :
LBNY-0005-103000137



Description :

Investigation of open-channel flow with and without bed-load transport
Flow-optimized inlet element for low-turbulence entry to the experimental section; inlet element with Sediment trap to prevent sediment flowing back
Closed water circuit with water tank with sediment trap for coarse sand, pump and manual flow rate adjustment
Side walls of the experimental section are made of tempered glass for excellent observation of the experiments
All surfaces in contact with water are made of corrosion-resistant materials
Experimental flume, consisting of experimental section, inlet element, water outlet and closed water circuit
Discharge measurement via measuring weir in the water drain
Level gauge for measuring the discharge depth and the height of the sediment surface
Smoothly adjustable inclination of the experimental section
Sluice gate and bridge pier for experiments with and without sediment transport
Visualisation of the flow using a contrast medium.

Technical Specification :

Technical Data:

Experimental section
Flow cross-section WxH: 300x86mm
Inclination adjustment: -1...+3%
Length: 1600mm
Tank: 280L
Pump
Power consumption: 1,02kW

Sediment trap filter element: 49mesh
Max. flow rate: 22,5m/h
Max. head: 13,7m
Dimensions and Weight
LxWxH: 3450x650x1200mm
Weight: 215kg.



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