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Product Name :
Experimental Flume 600x800mm

Product Code :
LBNY-0005-10300017



www.laboratoryinstrumentindia.com

Description :

The inlet element is designed so that the flow enters the experimental section with very little turbulence. The closed water circuit consists of a series of water tanks and a powerful pump. The experimental section is 16m long and has a cross-section of 600x800mm. The tanks are included in the system in such a way that they also serve as a gallery which you can stand on. The user can thus comfortably reach any part of the experimental section. The side walls of the experimental section are made of tempered glass, which allows excellent observation of the experiments. The experimental flume has a motorised inclination adjustment to allow simulation of slope and to create a uniform flow at a constant discharge depth. All components that come into contact with water are made of corrosion-resistant materials.

Learning objectives/experiments:

Flow Transition (Hydraulic Jump)
Energy dissipation (hydraulic jump, stilling basin)
Flow over control structures
Together with optionally available models
Uniform and non-uniform discharge
Flow formulae
Local losses due to obstacles
Transient flow: waves
Vibrating piles
Weirs (sharp-crested, broad-crested, ogee-crested)
Discharge under gates
Flow-measuring flumes
Sediment transport

Technical Specification :

All surfaces in contact with water are made of corrosion-resistant materials

Flow-optimised inlet element for low-turbulence entry into the experimental section

Closed water circuit with 2 water tanks, pump and flow control

Basic principles of open-channel flow

Experimental flume with experimental section, inlet and outlet element and closed water circuit

Experimental section with 20 evenly spaced threaded holes on the bottom for installing models or for water level measurement using pressure

Length of the experimental section 5m, up to 12,5m possible with additional extension elements

Smoothly adjustable inclination of the experimental section

Experimental section with guide rails for the optionally available instrument carrier

Side walls of the experimental section are made of tempered glass for excellent observation of the experiments.



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