



Email : sales@laboratoryinstrumentindia.com

Product Name :
Experimental Flume 309x450mm And 409x500mm

Product Code :
LBNY-0005-10300016



www.laboratoryinstrumentindia.com

Description :

The side walls of the experimental section are made of tempered glass, which allows excellent observation of the experiments. All components that come into contact with water are made of corrosion-resistant materials. The experimental flume with a closed water circuit has a cross-section of 309x450mm. The inlet element is designed so that the flow enters the experimental section with very little turbulence. The length of the experimental section is between 5m and with further extension elements a maximum of 12,5m.

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
- Flow-measuring flumes
- Local losses due to obstacles
- Weirs (sharp-crested, broad-crested, ogee-crested)
- Discharge under gates
- Sediment transport
- Transient flow: waves
- Vibrating piles.

Technical Specification :

Smoothly adjustable inclination of the experimental section
Experimental section with 20 evenly spaced threaded holes on the bottom for installing models or for water level measurement using pressure
Basic principles of open-channel flow
Experimental flume with experimental section, inlet and outlet element and closed water circuit
Length of the experimental section 5m, up to 12,5m possible with additional extension elements
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
Side walls of the experimental section are made of tempered glass for excellent observation of the experiments
Experimental section with guide rails for the optionally available instrument carrier.



Laboratory Instrument India