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**Product Name :**  
Experimental Flume 309x450mm And 409x500mm

**Product Code :**  
LBNY-0005-10300016



[www.laboratoryinstrumentindia.com](http://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 :**

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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.



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