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**Product Name :**  
Flume 7.5 Meter

**Product Code :**  
LBNY-0005-10300011



#### **Description :**

Flumes have various models available, giving students a wide choice of experimentation in open channel flow. The flumes have a built-in recirculating water supply connected to a digital flow metre for accurate measurements during experimentation. The 32-way pressure display connects for real-time data acquisition. Each is supplied with two level gauges and a Pitot tube, all of which mount onto and run along the instrument rails at the top of the flume. Measurements from these instruments combined with the digital flow meter provide the potential for extensive analysis of open channel flow for research or advanced study. The Series channels are 300 mm in width, 450 mm in height, and are available in 2.5 metre, 5 metre, 7.5 metre, 10 metre, 12.5 metre and 15 metre lengths. The flumes have pressure measurement tappings at 0.25 metre intervals along the working section. These tappings can connect either to a multi-tube manometer or to a 32-way pressure display. Bed-load transport can be investigated using the optional Sediment Loop. This ancillary provides a closed sediment circuit consisting of a sediment trap and feed mechanism which allows sand to be pumped from the trap to a feeder located above the working section between experiments. Screw jacks raise and lower the supports inclining the channel as required. This gives smooth, uniform flow, free from entry effects. The digital inclinometer gives an accurate display of the channel angle. A pump with a speed controller, forces water up to the flow settling chamber at the upstream end of the channel.

#### **Technical Specification :**

##### **Accessories:**

Level gauges  
Pitot tube  
Float switch  
Powered end gate

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Sluice gate  
Sharp crested weir.



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