

Product Name :
Multi Purpose Teaching Flume

Product Code :
ALABS-A43-077

ALTEC™

Description :

Multi Purpose Teaching Flume

- A 76mm wide, 250mm high open channel for use with an F1-10 Hydraulics Bench.
- Available in 2.5m and 5.0m working section lengths.
- Clear acrylic sides to give visibility of the working section.
- A jacking system permits the slope of the channel bed to be adjusted between -1% and +3%.
- Inlet tank with flow stilling arrangement.
- Includes a Venturi, sharp and broad crested weirs, 2 vernier level gauges, adjustable undershot weir and crump weir.
- Wide range of other models available as accessories.
- Optional flowmeter.
- Comprehensive instruction manual.

Description :

The is a small open channel flume, available in 2.5 m or 5.0 m lengths, with clear acrylic sides to the working section for total visibility of the flow. The channel is fitted with a PVC inlet tank, and is designed for free discharge into the Hydraulics Bench. The flume is mounted on a rigid framework, and can be tilted by use of a calibrated screw jack, which allows accurate slope adjustment of the channel.

The inlet tank incorporates a stilling arrangement to diffuse the water flow prior to entry into the channel, ensuring smooth uniform flow. The level in the working section of the flume is controlled using an overshoot weir at the discharge end.

Bed pressure tappings and fixing points for models are provided. A longitudinal scale positioned at the top of the channel allows depth gauges and Pitot-static tubes to be accurately positioned along the channel length.

A set of models and gauges are provided with the flume as part of the standard supply, comprising:

-Venturi flume

-Sharp and broad crested weirs

-Crump weir

-Adjustable undershot weir

-2 Vernier level gauges

Optional educational software is available offering a complete teaching package of coursework. The student manually enters data in the software, which can then be used for calculations, data processing and graph plotting.



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