



Multi Purpose Teaching Flume

The Adak Multi-purpose Teaching Flume has been specifically designed to demonstrate the principles of fluid mechanics when applied to engineering structures in open channel flow.

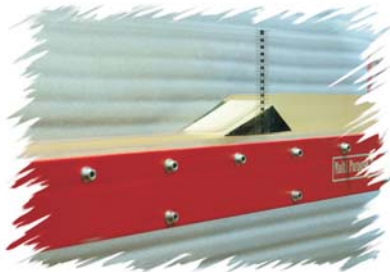




Multi Purpose Teaching Flume

H-670

- A 76mm wide, 250mm high open channel for use with an 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.



- > Use of hook and point gauges to measure water level
- > Use of a Pitot-static tube to measure flowrate
- > Learning how to apply force-momentum and steady flow energy equations to simple flow situations
- > Understanding the relationship between water level above the crest of a weir and flowrate over the weir
- > Using hydraulic structures to control level, e.g. syphon spillways
- > Understanding sub-and super-critical flow and the underlying characteristics of waves
- > Hydraulic jump
- > Using hydraulic structures for control of flow e.g. sluice gate
- > Applying and understanding Manning's formula
- > Measurement of velocity profiles