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Product Name :
Miniature Flow Channel

Product Code :
LBNY-0005-16000033



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Description :

The apparatus consists of an open channel of rectangular cross section supported at its inlet end by a reservoir tank, and at the outlet end by a frame. A number of test models are provided along with an ink injector to allow streamlines to be observed. This Flow Channel provides a low cost experiment with an easy to set up and use operation. The nominal dimensions of the channel are 20 mm x 150 mm x 650 mm long. The channel walls are made from clear acrylic plastic so that full visibility of the flow characteristics can be achieved.

Experimental Capability:

Study of flow over triangular hump section, demonstration of approximate Specific energy - Depth relationships, comparison of theoretical and experimental values of critical height
Study of flow with variable head inlet and variable head outlet using the adjustable outlet orifice
Visualisation of flow around objects through the injection of ink into the flow
Study of flow under a sluice gate (undershot weir).

Technical Specification :

Ink reservoir and injector pipe for flow stream demonstration. Outlet flow controlled by undershot weir. Small visualisation Flow Channel apparatus comprising incoming water reservoir, complete with set of beads mounted on reservoir and stand, set of models (rectangular, circular and triangular) for flow visualisation.

Dimensions And Weights:

Length: 0.7m

Width: 0.3m

Height: 0.7m

Nett weight: 30kg.



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