

Product Name :
Flow Channel

Product Code :
NEGEMG136



Description :

Flow Channel

The channel consists of a clear acrylic working section of large depth to width ratio incorporating undershot and overshoot weirs at the inlet and discharge ends respectively. Water is fed to the streamlined channel entry via a stilling tank to reduce turbulence. Water discharging from the channel is collected in the volumetric tank of the Hydraulics Bench and returned to the sump for recirculation. A dye injection system incorporated at the inlet to the channel permits flow visualization in conjunction with a graticule on the rear face of the channel. Models supplied with the channel include broad and sharp crested weirs, large and small diameter cylinders and symmetrical and asymmetrical aerofoils which, in conjunction with the inlet and discharge weirs, permit a varied range of open channel and flow visualization demonstrations.

Experimental Capabilities:

- Investigating the variation of friction head along a circular pipe with the mean flow velocity in the pipe
- Investigating the effects of laminar and turbulent flow regimes

Specifications:

- Dye reservoir capacity: 0.45 litres
- Width of channel: 15mm
- Length of channel: 615mm
- Depth of channel: 150mm
- Models:
 - broad crested weir
 - narrow crested weir
 - symmetrical aerofoil
 - asymmetrical aerofoil
 - small cylinder
 - large cylinder

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