

**DESCRIPTION:**

The setup consists of a channel having sufficient length and width in which water is supplied from the bottom. Required Notch is fitted at one end of this channel. A pointer gauge with Vernier scale is fitted to measure the height of fluid in flow channel. Arrangement for fixing interchangeable notches is made. Set of three notches, i.e. rectangular notch, 60° V notch & 45° V notch is provided along with the set-up. Present set-up is self-contained water re-circulating unit, provided with a sump tank and a centrifugal pump etc. Flow control valve and by-pass valve are fitted in water line to conduct the experiment on different flow rates. Flow rate of water is measured with the help of measuring tank and stopwatch. For data acquisition flow sensor for discharge measurement and ultrasonic sensor for height measurement for crest and head measurement. Real time data can be analyzed on PC through USB connection with the help of software provided.

Technical Details:

- Channel Test Section : Size 700 x250 x 250 mm.
- Notches : Material Brass
- Rectangular Notch
- 45° V Notch
- 60° V Notch
- Pointer Gauge: With Vernier scale.
- Water Circulation: FHP Pump Crompton/ Kirloskar makes.
- Flow Measurement: Using Measuring Tank with Piezometer, Capacity 30 Ltrs.
- Sump Tank: Capacity 60 Ltrs.
- Stop Watch: Electronic.
- Flow sensor: 0 to 50 LPM
- Ultrasonic sensor: 0 to 500 mm
- Control Panel Comprises of: Standard make On/Off Switch, Mains Indicator, etc.
- Instruction Manual: An ENGLISH instruction manual will be provided along with the Apparatus.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Tanks and Channel will be made of Stainless Steel.
- The whole set-up is well designed and arranged in a good quality painted structure.

Experiment:

- To determine co-efficient of discharge (Cd) through:
- V notch 45°
- V notch 60°
- Rectangular Notch.

Utilities Required:

- Water Supply.
- Drain.
- Electricity 0.5 kW, 220V AC, Single Phase.
- Floor Area 1.5 x 0.75 ml

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