



DESCRIPTION:

Open channel flume having length, width and height of about 4.0 m, 250 mm and 200 mm, respectively, with clear acrylic sides to the working section for complete visibility of the flow. A jacking system, permit the slope of the channel bed to be adjusted between -1% and +3%. It includes models of Venturi flume, sharp and broad-crested weirs, Vernier level gauge, crump weir which can be fitted in the channel one by one as per needs. The channel is fitted with a SS inlet tank, and is designed for free discharge into the hydraulic bench. The flume is mounted on a rigid framework and can be tilted by use of a calibrated screw jack, which enables accurate slope adjustment of the channel. The inlet tank should incorporate 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 by using an overshoot weir (stop logs) at the discharge end. A longitudinal scale positioned at the top of the channel enables depth gauges to be accurately positioned along the channel length. Comprehensive instruction manual is provided along with the equipment. Sensos such as flow sensor, velocity sensor and water level sensor are provided for data acquisition. The system can be connected to PC using USB connection and can be analyzed with the help of software provided.

Technical Details:

- Length: 4 m
- Flow cross-section WxH : 250 x200 mm
- Side wall: Transparent acrylic 6 mm thick
- Inclination adjustment: -1....+5 degree
- Sump Tank Capacity: 250 liters
- Volumetric tank capacity: 50 liters
- Material: stainless teel
- With necessary valves and fittings.
- Pump capacity: 2 Hp
- Bottom support of flow bed : rectangular pipe made of 4mm thick M.S 75 x 50 mm pipe.

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



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- Sensors for data acquisition
- **Water level sensor , flow sensor , velocity sensor for data acquisition through USB connection**
- 440V, 50Hz, 3 phase
- Accessories provide
- Hook gauge 30 cm in length
- Broad and sharp crested weir
- Sluice gate
- Ogee crested weir , crump weir

Experiment:

- Uniform and non-uniform discharge
- Flow formulae
- Flow transition (hydraulic jump)
- Energy dissipation (hydraulic jump)
- Flow over control structures:
- Weirs (sharp-crested, broad-crested, ogee crested, crump)

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