



## Product Overview

The Flume Based Dam Model with Sluice Gate / Spillway is designed for the study of hydraulic structures and fluid flow characteristics. It is widely used in civil engineering laboratories for demonstration and experimentation on open channel hydraulics, dam behavior, flow regulation, and energy dissipation. The model is equipped with a transparent flume section for visual observation and a controlled pumping system for water circulation.

## Technical Specifications

- **Flume Dimensions:**
  - Cross Section: 200 × 300 mm
  - Total Length: 6000 mm
  - Transparent Window: 1800 mm on either side
  - Effective Working Length: 4 m
- **Inlet / Throat Dimensions:**
  - Inlet: 50 mm
  - Throat: 25 mm

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



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• **Tank & Flow Details:**

- Sump Tank Capacity: 250 liters (Stainless Steel)
- Flowmeter: Shunt Orifice Type, Range 0.5 – 2.5 L/s

• **Capacity & Volume:**

- Flume Volume: 2.8 m<sup>3</sup>
- System Weight: 330 kg

• **Pump & Power Requirements:**

- Pump: 3 HP Centrifugal Monoblock Pump
- Power Supply: 240 VAC, 1 Phase, 50 Hz

**Key Features**

- Transparent flume windows for direct visual observation of flow patterns.
- Integrated sluice gate and spillway for simulating dam operations.
- Precision flow measurement using shunt orifice flowmeter.
- Durable stainless steel sump tank with high corrosion resistance.
- Heavy-duty centrifugal pump ensures continuous water circulation.
- Suitable for both teaching and research purposes in hydraulic engineering.

**Applications**

- Study of flow over spillways and through sluice gates.
- Demonstration of dam operation and energy dissipation.
- Analysis of hydraulic structures under controlled conditions.
- Laboratory training for students in civil and hydraulic engineering.

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