SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Flow Visualization in Channel | FluidoSurgeX 220

Category: Fluid Mechanics · **Order Code:** FLUIDOSURGEX 220 · **Country of Origin:** India

Product Overview

The Flow Visualization in Channel is a laboratory apparatus designed for visual study of open channel flow phenomena. Manufactured by SCIENTICO, the unit enables observation of streamlines, vortices, and flow behavior around weirs and drag bodies. Made by Scientico India, ISO 9001:2015 certified, and supplied with a calibration certificate and operation manual.

View this product online: https://scienticoindia.com/product/flow-visualization-in-channel-fluidosurgex-220/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

Parameter	Specification
Apparatus Type	Open channel flow visualization unit
Experimental Flume Dimensions (L x W x H)	600 x 3 x 165 mm
Flume Material	Transparent
Contrast Medium	Ink
Contrast Injection Nozzles	5
Water Tank Capacity	10 L
Ink Tank Capacity	570 mL
Drag Bodies Supplied	Streamlined body, guide vane profile
Water Supply	Hydraulic bench or laboratory supply
Water Level Adjustment	At inlet and outlet weir

Key Features

Key Features-

- Visualization of streamlines in open channel flow
- Transparent experimental flume for direct observation
- Demonstration of flow around weirs and drag bodies

- Five-nozzle distributor for contrast medium injection
- Adjustable water level for different flow conditions
- Flow straightener for uniform, non-vortical inlet flow
- Flexible installation on hydraulic bench or flat laboratory surface

Applications-

- Fluid mechanics laboratory experiments
- Study of open channel flow behavior
- Visualization of streamlines and vortices
- Demonstration of flow interaction with weirs
- Observation of flow around drag bodies

Construction & Design Details-

The apparatus features a transparent flume that allows unobstructed observation of flow patterns. A stabilizer and flow straightener are integrated to ensure even flow at the inlet. Contrast medium is injected using a distributor with five nozzles to clearly define streamlines. The unit can be securely placed on the work surface of a hydraulic bench or operated independently using a laboratory water supply with proper drainage.

Experiments-

- Study of how differently shaped weirs affect flow behavior
- Visualization of streamlines for flow incident to a weir
- Observation of flow patterns around different drag bodies

Standard Scope of Delivery-

- 1 experimental module
- Assorted drag bodies
- 1 instruction manual

Export & Supply Capability-

SCIENTICO manufactures the Flow Visualization in Channel FluidoSurgeX 220 for engineering colleges, technical universities, and training laboratories. The apparatus is suitable for domestic and international supply. Export packing and documentation are provided according to customer and destination requirements.

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

Q1. What is the purpose of FluidoSurgeX 220?
It is used to visualize streamlines and flow behavior in open channels.

Q2. How are streamlines made visible?
Streamlines are visualized by injecting ink as a contrast medium through multiple nozzles.

Q3. Can the apparatus be operated without a hydraulic bench?
Yes. It can also be operated using a laboratory water supply with proper drainage.

Q4. What types of flow elements can be studied?
Flow around weirs and different drag bodies can be investigated.

Q5. Is the water level adjustable during experiments?
Yes. The water level can be adjusted at both the inlet and outlet weir.

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