SCIENTICO INDIA

Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET

Catalogue reference for product evaluation

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Hydraulic Bench Apparatus | FluidoSurgeX 101

Category: Fluid Mechanics · **Order Code:** FLUIDOSURGEX 101 · **Country of Origin:** India

Product Overview

A CE-certified self-contained hydraulic bench providing a measured water supply for a range of fluid mechanics experiments, manufactured by Scientico India to ISO 9001:2015 standards. Supplied with calibration certificate, operation manual, and complete export documentation. Designed for Fluid Mechanics laboratories in engineering colleges and technical institutions.

View this product online: https://scienticoindia.com/product/hydraulic-bench-apparatus-for-fluid-mechanics-laboratory-fluidosurgex-101-by-scientico/



Request a model-specific quotation

Include quantity and delivery country.

Technical Specifications

Parameter	Specification
Model	FluidoSurgeX 101
Type	Hydraulic Bench Apparatus
Application	Fluid Mechanics Experiments
Water Circuit	Closed-loop system
Storage Tank	Integrated, GRP construction
Pump	Centrifugal pump
Measuring Tank	Dual-section tank for large and small flow rates
Small Flow Measurement	Graduated measuring beaker
Flow Measurement Method	Volumetric measurement using stopwatch
Work Surface	Integrated flume with safety edge
Construction Material	GRP/SS for tanks and work surfac

Key Features

Key Features -

- Basic supply unit for fluid mechanics experimental modules
- Closed water circulation system for clean and efficient operation

- Dual-section measuring tank for accurate volumetric flow rate measurement
- Measuring beaker for very low flow rate experiments
- Integrated flume for conducting weir-related experiments
- Raised work surface for safe and stable placement of accessories
- GRP construction for corrosion resistance and long service life

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Applications -

- Fluid mechanics laboratory experiments
- Volumetric flow rate measurement studies
- Weir and open channel flow experiments
- Engineering education and training institutions
- Polytechnic and technical laboratory demonstration

Construction & Design Details -

The FluidoSurgeX 101 is constructed using GRP for the storage tank, measuring tank, and work surface to ensure durability and resistance to water-related wear.
The measuring tank is positioned above the storage tank to allow gravity-assisted collection of return water.
The stepped measuring tank design enables accurate measurement across different flow ranges, while the integrated flume allows controlled open channel experiments directly on the work surface.

Export & Supply Capability -

SCIENTICO manufactures and supplies the FluidoSurgeX 101 Hydraulic Bench Apparatus for domestic and international markets.
The unit is suitable for export to engineering colleges, universities, and training institutes worldwide.
Standard packaging and documentation are provided to support international logistics and installation 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 primary use of the FluidoSurgeX 101 Hydraulic Bench Apparatus?
It is used as a base unit for conducting fundamental fluid mechanics experiments involving water flow measurement and hydraulic studies.

Q2. How are flow rates measured in this hydraulic bench?
Flow rates are measured volumetrically using a stepped measuring tank and a graduated measuring beaker, along with a stopwatch.

Q3. Is the water supply system open or closed?
The system operates on a closed water circuit with water recirculated between the storage tank and measuring tank.

Q4. Can this bench support additional experimental accessories?
Yes, the work surface is designed to accommodate various fluid mechanics experimental units safely.

Q5. What material is used for the tanks and work surface?
The storage tank, measuring tank, and work surface are made of GRP for durability and corrosion resistance.

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