SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Digital Hydraulic Bench Apparatus | FluidoSurgeX 102

Category: Fluid Mechanics · **Order Code:** FLUIDOSURGEX 102 · **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/digital-hydraulic-bench-apparatus-for-fluid-mechanics-laboratory-fluidosurgex-102-by-scientico/



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

Technical Specifications

Parameter	Specification
Model	FluidoSurgeX 102
Type	Digital Hydraulic Bench Apparatus
Application	Fluid Mechanics Laboratory
Water Circuit	Closed-loop system
Pump Type	Centrifugal pump
Pump Power Consumption	500 to 746 W
Maximum Head	21.5 m
Storage Tank Capacity	160 L
Measuring Tank Capacity (Large Flow)	40 L
Measuring Tank Capacity (Small Flow)	7 L
Flow Measurement	Volumetric method using stopwatch
Digital Flowmeter Range	Up to 100 LPM
Work Surface	Integrated flume with safety edge
Construction Material	GRP/SS

Key Features

Key Features -

- Digital hydraulic bench for fluid mechanics experiments
- Closed water circulation system with integrated storage and measuring tanks
- Dual-section measuring tank for large and small volumetric flow rates
- Digital flowmeter for direct flow indication
- Measuring beaker for very low flow rate experiments
- Integrated flume for conducting weir experiments
- GRP construction for durability and corrosion resistance

Applications -

- Fluid mechanics laboratory experiments
- Volumetric flow rate measurement and analysis
- Weir and open channel flow studies
- Engineering colleges and technical institutes
- Teaching and demonstration of hydraulic principles

Construction & Design Details -

The FluidoSurgeX 102 features GRP construction for the storage tank, measuring tank, and work surface to ensure long-term resistance to water exposure.
The measuring tank is positioned above the storage tank to collect return water efficiently.
A stepped measuring tank design allows accurate measurement across different flow ranges, while the integrated flume supports controlled weir experiments.

Export & Supply Capability -

SCIENTICO manufactures the FluidoSurgeX 102 Digital Hydraulic Bench for supply to domestic and international markets.
The equipment is suitable for export to universities, engineering colleges, and training laboratories.
Standard packing, documentation, and instruction manuals are provided for export shipments.

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 makes the FluidoSurgeX 102 a digital hydraulic bench?
It is equipped with a digital flowmeter that provides direct flow rate readings in addition to manual volumetric measurement.

Q2. How is the water circulated in this system?
Water is circulated through a closed-loop system using an integrated centrifugal pump.

Q3. Can low flow rates be measured accurately?
Yes, very small flow rates can be measured using the graduated measuring beaker and stopwatch method.

Q4. What experiments can be performed using the integrated flume?
The flume is used for weir-related and open channel flow experiments.

Q5. What items are included in the scope of delivery?
The supply includes one stopwatch, one measuring beaker, one instruction manual, and one base hydraulic bench module.

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