SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Hydrostatics Trainer | FluidoSurge-X 213

Category: Fluid Mechanics · **Country of Origin:** India

Product Overview

The Hydrostatics Trainer is designed for experimental study of fluids at rest and hydrostatic pressure phenomena. It enables analysis of buoyancy, pressure distribution, surface tension, and communicating vessels. 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/hydrostatics-trainer-fluidosurge-x-213/



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

Technical Specifications

Parameter	Specification
Model	FluidoSurge-X 213
Type	Hydrostatics Trainer
Configuration	Self contained with air and water supply
Pump Power	250 W
Maximum Flow Rate	10 m³ per hour
Maximum Head	8 m
Water Supply Tank	Approx. 60 L
Experimental Tanks	Height 500 mm, diameters 100 mm, 150 mm, 200 mm
Pressure Measurement	Digital pressure sensor, twin tube manometers, diaphragm manometer, Bourdon tube manometer
Pressure Range	2 units, -1 to 1.5 bar
Differential Pressure Ranges	0 to 500 mm WC, 0 to 0.4 bar
Density Measurement	Areometers 0.8 to 1 g per cm³ and 1 to 1.2 g per cm³
Compressor Power	100 W
Compressor Pressure	Inlet 240 mbar, outlet up to 2 bar

Key Features

Key Features-

- Comprehensive experimental introduction to hydrostatics
- Transparent tanks and modules for clear process observation
- Integrated water circulation and air supply system
- Multiple instruments for pressure and differential pressure measurement
- Dedicated experimental units for buoyancy, surface tension, and capillarity
- Capability to study static and dynamic pressure components

Applications-

- Study of buoyancy on bodies of different shapes
- Investigation of density of liquids
- Demonstration of hydrostatic pressure and Pascal’s law
- Determination of center of pressure
- Study of surface tension and capillary effects
- Familiarization with pressure measurement techniques
- Introductory experiments on Boyle’s law

Construction & Design Details-

The trainer uses transparent plastic tanks and piping to ensure visibility and corrosion resistance. Experimental modules are arranged for safe access and systematic experimentation. Pressure instruments include Pitot tube, static pressure tube, digital sensors, and manometers for liquid and gas measurements. The closed loop water circuit and integrated compressor ensure independent operation without external laboratory services.

Export & Supply Capability-

SCIENTICO manufactures the Hydrostatics Trainer FluidoSurge-X 213 for domestic and international supply. The equipment is suitable for export to engineering colleges, universities, and technical training institutes. Standard packing, accessories, and documentation are provided with each unit.

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 type of experiments can be performed with this trainer?
Experiments include buoyancy, density, hydrostatic pressure, surface tension, capillarity, and center of pressure determination.

Q2. Does the trainer include its own water and air supply?
Yes, it includes a closed water circuit with pump and an integrated air compressor.

Q3. Are pressure measurements available for both liquids and gases?
Yes, the trainer includes instruments for liquid pressure, differential pressure, and gaseous pressure measurement.

Q4. Are the experimental units transparent?
Yes, tanks and pipes are made of transparent plastic for clear observation.

Q5. Is this trainer suitable for undergraduate laboratories?
Yes, it is designed for structured hydrostatics teaching at undergraduate and diploma levels.

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