SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Series and Parallel Pump Apparatus | FluidoSurge-X 192

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

Product Overview

A CE-certified hydraulic test bench for studying series and parallel pump configurations, combined H-Q characteristics, 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/series-and-parallel-pump-apparatus-fluidosurge-x-192/



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

Technical Specifications

Parameter	Specification
Model	FluidoSurge-X 192
Type	Series and Parallel Pump Apparatus
Pump Type	Horizontal single stage centrifugal
Number of Pumps	2 units (P1 and P2)
Maximum Flow Rate	Up to 100 L/min
Pump Speed Range	0 to 3000 rpm for each pump
Maximum Head per Pump	10 to 12 m
Operation Modes	Single pump, series, parallel
Selector Switch	Selection of single or dual pump operation
Circulation Tank	Transparent Plexiglass
Process Piping	Industrial PVC
Valves	Non ferrous
Base Structure	Stainless steel
Pressure Gauge Ranges	0 to 2.5 bar (2 Nos), -1 to 1 bar (1 No)
Power Supply	220 or 380 VAC, 3 phase, 50 or 60 Hz

Parameter	Specification
Water Requirement	Laboratory main supply

Key Features

Key Features-

- Study of centrifugal pump operation in single, series, and parallel modes
- Variable speed control for both pumps
- Closed loop circulation system for repeatable experiments
- Transparent tank for visual monitoring of water level
- Integrated indicators for flow rate, head, speed, and power
- Industrial grade PVC piping with corrosion resistant valves

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Applications-

- Comparison of pump characteristic curves for single, series, and parallel operation
- Determination of pump capacity and total head
- Evaluation of pump efficiency and overall system efficiency
- Study of energy conversion from electrical to hydraulic energy
- Fluid mechanics and hydraulic machinery laboratory experiments

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Construction & Design Details-

The apparatus is mounted on a stainless steel base with all components clearly arranged for instructional use. Two identical centrifugal pumps are connected through industrial PVC piping with non ferrous valves to allow flexible configuration. A selector switch enables quick change between operating modes. Pressure gauges and indicators are provided to measure suction pressure, delivery pressure, flow rate, speed, and power without external conversion.

Export & Supply Capability-

SCIENTICO manufactures the Series and Parallel Pump Apparatus FluidoSurge-X 192 for domestic and international supply. The unit is suitable for export to engineering colleges, universities, and technical training institutes. Standard packing 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 pump configurations can be tested using this apparatus?
Single pump operation, two pumps in series, and two pumps in parallel can be tested.

Q2. What is the effect of series operation on pump performance?
In series operation, the pressure head increases while the discharge remains approximately constant.

Q3. What is the effect of parallel operation on pump performance?
In parallel operation, the discharge increases while the pressure head remains similar to single pump operation.

Q4. Can pump efficiency be determined using this apparatus?
Yes, pump efficiency and overall efficiency can be evaluated from measured head, discharge, speed, and power.

Q5. Is data acquisition software available with this system?
Optional DAQ software is available for data acquisition, processing, and report generation.

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