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Product Name :

Axial Flow Pump Test Rig

Product Code :

SLE/MCE/45



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Description :

Axial Flow Pump Test Rig (Product Code: SLE/MCE/45) is a pump trainer used to measure the operating behaviour of a propeller-type axial flow pump in hydraulic machines and fluidmechanics laboratories. Its 1000 W pump delivers up to 700 L/min at a maximum head of 1.75 mthrough a closed 160 L circuit with an electromagnetic flow meter. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of vocational training lab equipmentin India, at its own factory in Ambala.

Specifications

Parameter	Detail
Pump type	Axial flow (propeller) pump, not self-priming
Pump output	1000 W at 1000 rpm
Maximum flow rate	700 L/min
Maximum head	1.75 m
Tank	160 L, closed water circuit independent of the mains water system
Flow measurement	Electromagnetic flow meter, 0 to 1200 L/min
Temperaturemeasurement	Temperature sensor, 0 to 100 °C
Inlet pressure	±1 bar
Outlet pressure	0 to 0.6 bar
Power supply	230 V, 50 Hz, 1 phase
Dimensions	1110 x 800 x 1380 mm
Weight	Approx. 154 kg
Product code	SLE/MCE/45
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Axial Flow Pump Test Rig Used For?

Where large volumes of water must be lifted only a short height — drainage systems, wastewater treatment plants and cooling water supply — engineers choose axial flow pumps. Unlike a centrifugal pump, the propeller builds pressure the way an aerofoil produces lift, with water passing straight through the impeller along the shaft axis. This rig lets students see how that design trades head for flow.

By logging inlet and outlet pressure together with electromagnetic flow readings at a series of operating points, students plot the head-flow characteristic and compare it with the steeper curves of centrifugal pumps. Because the pump is not self-priming, the propeller must stay cover he water

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