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Product Name :

Axial Flow Pump Module

Product Code :

SLE/EFM/03



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Description :

The **Axial Flow Pump Module** (Product Code: SLE/EFM/03) is a self-contained test rig built around an axial flow pump, mounted in a mobile frame with full instrumentation that includes a digital pressure display. It lets students study and test a common type of rotodynamic pumpsafely and at a realistic scale, without needing any external water supply. The module is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a technical educational equipment manufacturer, and is part of the engineering educational equipment we build for colleges in India and abroad.

Specifications

Parameter	Detail
Pump type	Axial flow (rotodynamic)
Mounting	Mobile frame
Instrumentation	Full instrumentation, including a digital pressure display
Speed and flow	Fully variable, for a range of tests
Water supply	Own water reservoir; no external water supply needed
Drive	Part of the Modular Fluid Power range; connects with the Universal Dynamometer as a common motive-power source
Connection plate	Schematic diagram showing the water flow circuit and how the parts of the module connect

Typical Use

The core experiment is the pump characteristic: at a fixed speed, students throttle the flow in steps, record pressure rise and shaft power at each point, and plot head, power and efficiency against flow rate. Repeating the test at other speeds shows how the whole curve shifts and gives a practical introduction to the pump scaling laws. Axial flow pumps move large volumes against relatively modest heads, so comparing their curves with those of a centrifugal pump helps students understand why each design suits different duties, from drainage and irrigation to cooling-water circuits.

Because the module carries its own reservoir, it can be wheeled into any teaching space as lab equipment for college practicals without plumbing. Sharing one Universal Dynamometer across several Fluid Power modules keeps the cost of a full lab down, and the schematic on the connection plate helps students trace the circuit before they start. Check the reservoir level before each session and drain it for long storage.

Manufacturer

ScienceLab is how Jain Scientific Equipments Private Limited presents its products to schools, colleges and training centres. The company operates from Ambala, Haryana, where it manu ofile.

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