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Product Name :

Computerized Reciprocating Pump Test Apparatus

Product Code :

SLE/MCE/49



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Description :

Computerized Reciprocating Pump Test Apparatus (Product Code: SLE/MCE/49) is a piston pump test unit used to record p-V diagrams and pump characteristics on a PC in fluid mechanics and hydraulic machines laboratories. A variable-speed piston pump runs in a transparent housing on a closed water circuit, with an air vessel, a crank angle sensor and pressure sensors in the cylinder and at the outlet. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM technical educational equipment manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Pump	Piston pump in a transparent housing, variable speed via frequency converter
Piston pump speed	30 to 180 rpm
Maximum flow rate	135 L/h
Maximum head	40 m
Drive motor power	180 W
Gear transmission ratio	1:7.5
Water circuit	Closed circuit with water tank and air vessel to damp pressure pulsation
Flow and head adjustment	Needle valve and overflow valve
Cylinder pressure	0 to 5 bar
Outlet pressure	0 to 5 bar
Crank angle	0 to 360°, angle sensor on the piston rod
Flow rate measurement	0.2 to 6 L/min
Data acquisition	Microprocessor-based measuring technique in a protective housing; values sent to a PC via USB and analysed with the software included
Power supply	230 V, 50 Hz, 1 phase (230 V, 60 Hz, 1 phase and 120 V, 60 Hz, 1 phase also listed)
Dimensions	670 x 590 x 740 mm
Weight	Approx. 49 kg
Product code	SLE/MCE/49
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

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