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Product Name :

Fluid Properties and Hydrostatics Bench

Product Code :

SLE/MCE/41



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Description :

Fluid Properties and Hydrostatics Bench (Product Code: SLE/MCE/41) is a mobile laboratory trolley used to teach density, viscosity, capillarity, buoyancy and pressure measurement in fluid mechanics courses. It carries its own sealed water circuit with a 0.22 kW submersible pump anda cabinet of modules, from falling-sphere viscometer tubes to an Archimedes set, so it workswithout a mains water connection. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Construction	Laboratory trolley with demonstration panel, working area and cabinet; pipe section with pressure measuring devices and integrated measuring containers
Water circuit	Sealed circuit with pump and supply tank, independent of mains water
Submersible pump	0.22 kW; flow rate 95 L/min; head 12.5 m
U-tube manometer	0 to 500 mm water column
Mercury (Hg) U-tube manometer	270–0–270 mbar
Aneroid barometer	973 to 1047 mbar
Thermometer	-10 to 50 °C
Pycnometer	50 ml
Hydrometer jars	Two, 450 x 50 mm
Falling sphere viscometer tubes	Two, 300 x 40 mm, with marks at 0, 25, 175, 200 and 220
Stainless steel balls	3.175 mm, 2.381 mm and 1.588 mm diameters
Capillary tubes module	Tubes of 5, 4, 3, 2.2, 1.7 and 1.2 mm
Other capillarity module	Parallel plates capillary module
Archimedes module	Displacement vessel, bucket and cylinder, used with a variable scale lever balance up to 310 g
Centre of pressure device	Included in the cabinet; also allows the pressure on a weir to be determined
Dimensions	1000 x 800 x 1400 mm
Weight	120 kg
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