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Product Name :
Hydraulic Bench Unit

Product Code :
LBNY-0005-1580001



Description :

An integral weir tank is provided along with a volumetric measuring tank which is stepped to afford accurate measurement of both high and low flow rates. The Hydraulics Bench Unit range provides the basic services for pumping and volumetric measurement of the water supply with which all the additional accessories and experiments are used. The measuring tank discharges into a fiberglass sump tank by means of a quick acting ball valve. The working surface of all three units is molded in fiberglass and provides a recessed area on which to mount experiments.

Experimental Capability:

- Centrifugal pump characteristics
- Bernoulli's experiment
- Water flow measurement
- Flow through orifices and over weirs
- Hydrostatics
- Free and forced vortices
- Flow in pipes and pipe fittings
- Pipe networks
- Reynolds number
- Flow in channels
- Hydraulic machines

Technical Specification :

Service module for pumping and volumetric measurement of water supply required to operate accessories and

experiments.

High Flow Volumetric Tank, 40 litres.

Low Flow Volumetric Tank, 10 litres.

Variable speed motor driven centrifugal pump. Mounted externally for ease operation

Moulded fibreglass work surface with integral weir tank.

Stepped volumetric measuring tank.

Flow Regulating Valve

Direct indication of flowrate given by calibrated weir.

Pump: Pedrollo CPM 130 Centrifugal Pump close coupled to an standard induction motor.

Display unit giving centrifugal pump speed.

Pressure tapping points at pump suction, delivery and immediately prior to experiment.

Robust stove enamelled steel frame mounted on castors.

Bourdon gauge with inlet and outlet valves

120 litre capacity sump tank.

Stepped tank for low and high flowrates. Capacities 10 litre lower portion and 35 litre upper portion.

Rating: 4 hours in any 24 hour period. Not more than 10 starts per hour

Motor speed 2800r/min at 50Hz, 3400r/min at 60Hz

Induction motor 0.37 kW, 1.64/0.95A, 3 phase.

Pump casing: Brass with 3/4BSP connections

Gland: Carbon ring working on ceramic counterface.



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