

Product Name :
Centrifugal pump test rig (A.C motor)

Product Code :
HYDRAULIC0005



Description :

Centrifugal pump test rig (A.C motor)

Technical Specification :

The setup is designed to study the performance of centrifugal pump.

Set up consists of a centrifugal pump coupled with electrical motor, supply tank, measuring tank & pipe fittings for closed loop water circulation. Pressure and Vacuum gauges are connected on delivery and suction side of pump for the purpose of measurement.

The flow rate of water is measured using measuring tank and stop watch provided.

Experiments:

To determine overall efficiency and pump efficiency of the centrifugal pump.

To plot Head vs. Discharge, Pump efficiency vs. Discharge

Features:

Closed loop water circulation

Compact & stand alone set up

Stainless Steel tanks and wetted parts

Superb Finished structure

Simple to operate & maintain

Utilities Required:

Electric supply

Provides 200 +/- 10 VAC, 50 Hz, single phase electric supply with proper earthing

Ground Earth Voltage less than 5 VAC (CA, three pin socket with switch for pump)

Water supply Tap water connection, Distilled water @ 60 bars (optional)

Technical Details:

Product Centrifugal Pump Test Rig

Pump Capacity 1HP Speed 2800 RPM (max), Head 12m/40ft (Max)

Drive AC Motor with step cone pulley arrangement for 3 pulsed speed

DC Motor with DC drive along with non-contact type digital RPM indicator

Supply Tank Capacity 120 Liter, MDC SS

Measuring Tank Capacity 75 Liter, MDC SS fitted with Pressureme Tube & scale

Piping GI / PVC

Stop Watch Electronic

Control Panel With required electrical instrumentation

Overall Dimensions

LAB ENGINEERING

Elab Engineering Equipments Manufacturers