

Centrifugal Pump Test Rig (Variable Speed)



Product Categories: [Engineering Equipment](#), [Hydraulic Lab](#)

Product Page:

<https://www.labappara.com/product/centrifugal-pump-test-rig-variable-speed/>

Product Description

Centrifugal Pump Test Rig (Variable Speed)

Description:

The present Centrifugal Pump Test Rig is a self-contained unit operated on closed circuit basis containing a sump tank. The set-up consists of a Centrifugal pump coupled with a DC Motor. Power input to the DC Motor is varied by means of a Thyristor controlled DC Drive to vary the RPM of motor. A RPM Indicator with Proximity sensor indicates the RPM of Pump. Flow of water is measured by using measuring tank and stopwatch. Vacuum gauge is fitted on suction line and Pressure gauge is fitted on delivery line to measure the pressure.

Technical Details :

Pump : Kirloskar Make, Capacity 1 HP

Speed 2800 RPM (max.), Head 12 m (max.)

Medium Flow : Clear Water

Drive : 1 HP DC Motor with Thyristor controlled DC drive
for variable speed.

Sump Tank : Capacity 110 Ltrs.(approx.)

Flow Measurement : Using Measuring Tank with Piezometer,

Capacity 70 Ltrs.(approx.)

Stop watch : Electronic.

Pressure Gauge : Bordon type

Control Panel Comprises of:

RPM measurement : Digital RPM Indicator with Proximity sensor.

Energy measurement : L&T make, Electronic Energy meter.

Standard make On/Off Switch, Mains Indicator, etc.

Tanks will be made of Stainless Steel.

An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be

provided along with the Apparatus

The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.