

Product Name : Centrifugal Pump Test Rig Multi Stage Variable Speed Series and Parallel	Product Code : NLAB-MECHANICALAB410003
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Description :

Centrifugal Pump Test Rig Multi Stage Variable Speed Series and Parallel

Technical Specification :

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 two Centrifugal pumps. Both pump are coupled with individual Motors. Speed Control facility is provided to vary the RPM of motor. RPM Indicator with Proximity sensor indicates the RPM of Pump. Pipeline and valve arrangement provided enables the user to operate the test rig either in single pump operation, parallel mode or in series mode. Flow of water is measured by flow sensor. Vacuum & Pressure sensors are fitted on suction line and delivery line of each pump to measure the pressure.

EXPERIMENTATION

The Centrifugal Pump Test Rig allows the students to understand the performance benefits of Centrifugal Pumps in parallel & series mode as under: -

Speed Vs Discharge.

Head Vs - Discharge at various speeds.

Efficiency curves at various speed and heads

TECHNICAL PARAMETERS

Pump (2 Nos.): Centrifugal Type, 2800 RPM (max.)

Medium Flow: Clear Water

Drive: Variable speed.

Sump Tank : Made of Stainless Steel, Compatible capacity

Measuring Tank: Made of Stainless Steel, Compatible capacity

Flow Measurement: By Using Flow Sensor.

Pressure Measurement: By Using Pressure Sensor, Vacuum Sensor.

Instruction Manual: An ENGLISH instruction manual will be provided along with the Apparatus

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