

Achieve precision and efficiency in pump testing



## Specification

- HMI-PLC based fully automatic system with USB data logging & Live monitoring
- Storage Tank capacity : Up to 500 Liter
- Centrifugal Pump: 0.5 - 2 HP (Up to 150 LPM)
- Gear Pump: 0.5 - 2 HP (up to 50 LPM)
- Reciprocating Pump: 0.5 - 2 HP (up to 30 LPM)
- Digital Electromagnetic Water Flow sensor and Torque Sensor compatible with PLC
- Motorized Globe Valve for flow control
- Motorized Ball Valve for process selection
- Easy Interchangeable provision of the impeller in Centrifugal pump
- Acrylic casing used for centrifugal pumps to visualize cavitation effects with various impeller types
- Energy consumptions of pumps and total system

## Learning Outcome

- Understand the principles and operation of multiple pump systems.
- Learn to set up and calibrate a multi-pump test rig.
- Analyze the performance characteristics of different pump types under varying conditions ( like flow, pressure etc. )
- Gain skills in measuring and interpreting flow rates, pressures, and efficiencies.
- Develop the ability to troubleshoot and diagnose issues within pump systems.
- Assess the energy consumption and efficiency of pump configurations.
- Explore the impact of different fluid properties and different impeller on pump performance.
- Enhance practical knowledge of maintenance and safety procedures for pump systems.



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