



The Set-up is designed to study the performance of Gear Pump. The Set-up consists of a Gear Pump having a pair of meshed gears coupled with electrical motor, supply tank, measuring tank & pipe fittings for closed loop oil 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.

**EXPERIMENT:**

- To determine overall efficiency and pump efficiency of the Gear Pump
- To plot Head vs. Discharge, Pump efficiency vs. Discharge

**FEATURES:**

- Closed loop water circulation
- Compact & stand alone set-up
- MS Excel sample calculation program on demand
- Stainless Steel tanks and wetted parts
- Superb painted structure
- Simple to Operate & Maintain

**TECHNICALS SPECIFICATIONS:**

- Pump : Gear Pump with pair of meshed gears Capacity 1 HP, Speed 1500 RPM (max.), Head 5 Kg/cm<sup>2</sup> (max.)
- Drive : AC Motor with step cone pulley arrangement for 3 prefixed speed DC Motor with DC Drive along with (non-contact type Digital RPM Indicator
- Supply Tank : Capacity 30 Ltrs.
- Measuring Tank : Capacity 20 Ltrs. fitted with Piezometer Tube & Scale
- Piping : GI / PVC
- Stop Watch : Electronic
- Control Panel : With required electrical instrumentation

(The whole Set-up is well designed and arranged in a good quality painted structure.)

**UTILITIES REQUIRED:**

- Electric Supply: - Provide 230 +/- 10 VAC, 50 Hz, Single Phase Electric Supply with proper earthing. (Neutral - Earth voltage less than 5 VAC) 5 A, three pin socket with switch for pump.
- Oil Supply: Oil @ 30 Ltrs. (Optional extra cost)

Note: Specifications are subject to change.

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