



Product Code . JL-HM-10036

Gear Pump Test Setup

Description

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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

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)

Technical Specifications:-

Pump:- Gear Pump with pair of meshed gears **Capacity** 1 HP, Speed 1500 RPM (max.), Head 5 Kg/cm² (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.
