



In general a pump may be defined as a mechanical device which when interposed in a pipeline, converts the mechanical energy supplied to it from some external source into hydraulic energy and transfers the same to the liquid through the pipeline, thereby increasing the energy of the flowing liquid. The various pumps may broadly be classified into the following two types:

1. Positive-displacement pumps.
2. Rotodynamic pumps (or dynamic-pressure Pumps)

The positive displacement pumps are those pumps in which the liquid is sucked and then it is actually pushed or displaced due to the thrust exerted on it by a moving member, which results in lifting the liquid to the required height. A reciprocating pump essentially consists of a piston or plunger which moves to and fro in a close fitting cylinder. Reciprocating Pump Test Rig helps students in studying the characteristics of pump test rig. It is a compact & self contained apparatus.

FEATURES:

- Test section is completely enclosed.
- Control and measurement of electrical input by complete panelised instruments.
- Digital temperature indicator for temperature measurements

RANGE OF EXPERIMENTS:

- Following characteristics can be studied at different speeds which can be adjusted by using stepped pulley
 1. Discharge/s Head
 2. Discharge/s Input to pump
 3. Discharge/s Pump efficiency

SPECIFICATION:

- Reciprocating pump - 2HP, 3 phase motor 3 Piston Pump, Motor Pully, Suction Hose
- Motor with 1.5 H. P. Three phase induction motor
- Pressure gauges for suction and discharge head measurement.
- Three phase energy meter for power measurement.
- Control valve for flow control at discharge.
- Control panel

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Sump tank : 48lit capacity, (600L x 400W x 200Height) - SS Make
- Volumetric measuring tank (300 L x 300 W x 300 mm H) with piezometer

INSTRUCTION MANUAL:

- A manual is supplied which gives details of the apparatus and procedure of experiments along with sample calculations.

SERVICES REQUIRED:

- AC. 230 V single phase stabilized supply with earthing connection
- Space required : 3 mtr X 3 mtr approximately

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