

**Product Name :**  
TWO STAGE AIR COMPRESSOR TEST RIG

**Product Code :**  
NLAB-MECHANICALAB190014



**Description :**

TWO STAGE AIR COMPRESSOR TEST RIG

**Technical Specification :**

**DESCRIPTION:-**

The unit consist of one experimental type two stage reciprocating air compressor air cooled inter cooler ,suitable for a pressure of 12 kg/cm<sup>2</sup> & having a displacement of 0.168 m<sup>3</sup>/min. driven by squirrel cage induction motor of 2 H.P. Energy meter & stop watch to determine the input to the motor. The above motor suited for 400/440 V. 3 ph. 50 cycles A. C. supply. The motor is provided with switch & starter.

**RANGE OF EXPERIMENT:-**

To conduct a performance test on the two stage reciprocating air compressor and to determine the volumetric efficiency and isothermal efficiencies at various delivery pressures.

**SPECIFICATION:-**

- Compressor: Two stage with intercooler.
- Diameter of LP Cylinder: 55mm
- Diameter of HP cylinder: 50 mm
- Stroke Length: 65mm
- Compressor Speed: 720 rpm
- 2HP A/C Motor
- Air intake Measurement: M/S Tank with Orifice-meter and Manometer
- Bourdon Tube Pressure gauges to measure the pressures.
- Three Phase energy meter.
- Multi-channel temperature Indicator to measure various Temperatures.
- Pressure relief valves.

**SERVICE REQUIRED:-**

- Suitable floor space to mount apparatus.
- 32 amps Three Phase Electrical Connection.

## **Naugralabequipments**

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