

Product Name :
TWO STAGE AIR COMPRESSOR TEST RIG

Product Code :
Heat Engine0001



Description :

TWO STAGE AIR COMPRESSOR TEST RIG

Technical Specification :

The unit consist of one experimental type two stage reciprocating air compressor air cooled inter cooler ,suitable for a pressure of 12 kg/cm² & having a displacement of 0.168 m³/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.

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- Pressure relief valves.

SERVICE REQUIRED:-

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

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