

Product Name :
Double Stage Air Compressor Test Rig for engineering schools

Product Code :
ACTR002



Description :

Double Stage Air Compressor Test Rig for engineering schools

Technical Specification :

Double Stage Air Compressor Test Rig, technical teaching equipment for engineering

Two Stage Air Compressor Test Rig consists of a double stage reciprocating type air compressor driven by 2 HP Motor through a belt. The outlet of the air compressor is

connected to reservoir (Tank) and suction is connected to another air tank with a calibrated orifice plate and a water manometer. Bellow is fitted on one side of the air tank to regulate the flow. Temperature of inlet air, after single compression, inlet and outlet of second compression and pressure in reservoir and at intermediate stage can be measured by Temp. Sensors and gauges.

EXPERIMENTATION:

Ø To calculate the volumetric efficiency.

Ø To calculate isothermal Horse Power.

Ø To calculate compression ratio.

UTILITIES REQUIRED :

Ø Electricity 2 kW, 220V AC, Single Phase.

Ø Floor Area 2.5 x 1.25 m.

TECHNICAL DETAILS :

- Kirloskar Make Compressor
- Compressor : Double Stage, Double Cylinder.
- Capacity 6.9 CFM max.
- Working Pressure : Max. 7 kg/cm²
- Motor : 2 HP Crompton/Standard make, Swinging Field type
- Spring Balance : 10 kg, Dial type
- Flow Measurement : Orificemeter with Manometer
- Temperature Measurement : RTD PT-100 type sensor (4 nos.)
- Air Tank : Capacity 150 Ltrs. with safety valve, shut off valve,
- Pressure Gauge : Bourdon Type.
- RPM measurement : RPM Indicator with Proximity sensor.
- MCB : For overload protection

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