

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

Product Code :
ACTR001



Description :

Single Stage Air Compressor Test Rig for engineering schools

Technical Specification :

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

Single Stage Air Compressor Test Rig consists of a single stage reciprocating type air compressor driven by 1 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 an orifice plate and a water manometer. Bellow is fitted on one side of this air tank to regulate the flow. Temperature of inlet and outlet of air and pressure at outlet can be measured by Temperature sensor and pressure gauge.

EXPERIMENTATION:

- To calculate the volumetric efficiency.
- To calculate isothermal HP.

- To calculate compression ratio.
- UTILITIES REQUIRED :
- Electricity 2 kW, 220V AC, Single Phase.
- Floor Area 1.5 x 0.75 m.
- Tachometer to measure RPM

TECHNICAL DETAILS :

- Compressor : Single Stage, Capacity 4 CFM (max.)
- Drive : 1 HP Crompton make motor
- Manifold Tank : Suitable Capacity
- Flow Measurement : Orificemeter with Manometer
- Temp. Measurement : RTD PT-100 type sensor (2 Nos.)
- Air Tank : Capacity 90 Ltrs. with safety valve,
- Pressure Gauge : Bourdon Type
- Energy measurement : Electronic Energy meter, L&T make.
- MCB : For overload protection.
- Instruction Manual : An ENGLISH instruction manual will be
- The whole set-up is well designed and arranged in a good quality painted structure.

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