



Features

Tesca Centrifugal Air Compressor Test Apparatus consists of a centrifugal blower driven by a variable speed electric motor. A motor controller is used to regulate the blower speed. Ducts are fitted to inlet & outlet of the blower. A damper in inlet duct is provided to regulate the intake air flow of the blower. A Pitot tube with differential manometer is used to measure the air flow rate. Two manometers are provided to measure intake & discharge pressure of air. Two temperature sensors are used to measure the air temperature at inlet & outlet. Blower speed & power consumption are displayed using digital panel indicators.

Specifications

- Compressor: Centrifugal compressor, with forward curved impeller
- Motor: Variable Speed Motor, Power 0.5 hp, 2800 RPM with speed controller
- Pitot Tube & Manometer: Pitot tube with U Tube water manometer for Air flow measurement
- Piezometer: Range 0-150mm of Water Column, for delivery pressure
- Inclined Tube Manometer: Range 0-100 mm of Water Column, for intake pressure
- RMP Indicator with Inductive Speed Sensor: Range - 0 to 9999 Temperature Sensor & Indicator: RTD PT-100 Sensors (2 Nos.) With Indicator.
- Voltmeter: Digital Voltmeter, 0 – 500 V
- Ammeter: Digital Ammeter, 0 – 2 A
- Stand: M.S. Structure with powder coating
- Electrical Switches & Indicators

Experimental Capabilities

- To investigate performance of Centrifugal Compressor.
- To study effect of blower speed on delivery pressure, air flow rate.
- To study blower characteristics as function of speed, air flow rate & delivery pressure.
- To determine mechanical efficiency of centrifugal compressor.

Services Required

- T3 Phase 400 – 440V, 50Hz Mains Power

Note: Specifications are subject to change.

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