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Product Name :
Rotary Air Compressor Test Bench

Product Code :
SCHOOL-THM830020



Description :

Rotary Air Compressor Test Bench

Technical Specification :

The Rotary Air Compressor Test Bench Apparatus consists of a rotary vane compressor driven by an electric motor; an orifice meter and manometer, Discharge "pressure is measured by a pressure gauge, measure Air intake Power input of the compressor measured by an Energy meter.

The pressures and temperatures for both stages are recorded using sensors and indicated on digital displays.

The air throughput and the electrical power consumption are also measured.

Thus the students can determine volumetric efficiency, power consumption and free air discharge of compressor.

The measured values can be read on digital displays.

At the same time, the measured values can also be transmitted directly to a PC via USB.

The trainer is equipped with safety devices such as pressure relief valves and pressure switches.

The data acquisition software is included.

Efficiency, Isentropic Efficiency & Free Air Delivery at different delivery pressure.

To study all components/Accessories used in rotary Air Compressor.

To study & determine Isentropic Work, Actual Work Volumetric

To Plot Volumetric Efficiency/Isentropic Efficiency against Delivery Pressure & comment on the nature of the plot.

Observations can be taken by air compressed in storage & free condition.

Instrumentation: sensors with digital displays

Software for data acquisition via USB

NAUGRA[®]

School Educational Instruments

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