

Product Name :
Astra Scientific Computerised Two Stage Air Compressor Test Bench

Product Code :
ThermalLab0020



Description :

Astra Scientific Computerised Two Stage Air Compressor Test Bench

Technical Specification :

The trainer provides all necessary data for recording the compressor characteristic and to depict the compression process on a p-V diagram.

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. 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 data acquisition software is included.

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

FEATURES:

- Layout and function of a two-stage compressor
- Measurement of relevant pressures and temperatures
- Determination of the intake airflow rate

- Compression process on a p-V diagram
- Determination of the efficiency
- Instrumentation: sensors with digital displays
- software for data acquisition via USB

SPECIFICATIONS:

- Compressor

two-stage with 2 cylinders in a V-arrangement

- power consumption: 2.2kW
- speed: 710rpm
- intake capacity 250L/min
- operating pressure: 12bar, max. 35bar Pressure vessels, 16bar; capacity:
- 1st stage: 5L
- 2nd stage: 20L
- intake vessel: 20L
- Measuring ranges

differential pressure: 0...25mbar

pressure: 1x 0...1.6bar / 2x 0...16bar

temperature: 4x 0...200°C

power: 0...2500W



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