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Product Name :
Computer Controlled Thermodynamic Cycle Of A Screw Compressor

Product Code :
LBNY-0005-14100019



Description :

The is designed to connect to the to expand the experimental capability.
The has been designed and manufactured to incorporate all current safety standards.
A Computer Controlled Thermodynamic Cycle of a Screw Compressor training plant for studying the energy transfer in a compressed air system.
It includes industrial sensors and transducers.
The is controlled by a PC and software.

Experiments:

Determining the polytropic index
Calculating the effective average pressure of the compressor
Analysing the pressure / volume diagram of the first and second stages of the compressor by experiment

Checking the operation of the safety devices:

For detailed study of the air characteristics it is necessary to connect the ACV85 to the ACV90 Compressed Air Dehumidification Training Plant
Using a T-s diagram for air to determine the characteristics of the thermal cycles by experiment.

Technical Specification :

2.2 kW three-phase motor
Single-stage screw compressor
Pipes connecting the various components painted with different colours to aid circuit identification

Frequency converter for continuous variation of motor r.p.m.
100 litre tank with all necessary fittings
High and medium pressure gauges
Coil evaporator
Throttling valve.



Laboratory Instrument India