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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

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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**