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**Product Name :**  
Multi Stage Centrifugal Demonstration Unit

**Product Code :**  
LBNY-0005-1610002



#### **Description :**

The unit consists of a small multi stage air compressor with a motor on a steel base, inlet and outlet ducts, sensors and software. Speed control is by a variac. Multi Stage Centrifugal Demonstration Unit is a bench top unit for studying the multi stage centrifugal air compressor characteristics with data analysis by computer.

#### **Experiments:**

Effect of speed on compressor performance.  
Flow rate vs pressure.  
Compressor input, output, and overall efficiency.

#### **Technical Specification :**

Compressor  
Type: 2 stage, centrifugal  
Rated maximum pressure: 25 kPa  
Rated maximum flow rate: 0.03 m<sup>3</sup>/s  
Variac: 8 A.  
Outlet duct: Transparent with damper.  
Inlet duct: Transparent with orifice.  
Sensors with digital display and computer interface unit:  
Differential pressure at the orifice.  
Differential pressure across the fan.  
Temperature of inlet air.  
Input power.

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Compressor speed.



**Laboratory Instrument India**