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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 m³/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.

Compressor speed.



Laboratory Instrument India