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**Product Name :**  
Pump And Compressor Unit

**Product Code :**  
LBNY-0005-10300083



#### **Description :**

The unit itself includes the electric drive motor with speed control, 2 pressure vessels for the compressor experiments, a measuring tank and a supply tank for the pump experiments and a protection cover. The intake and delivery pressure, temperature, motor speed and power are measured and displayed digitally. The modular system allows the investigation of different machines (reciprocating machines and turbo machines). The corresponding flow is measured indirectly and transferred to the PC data acquisition software. Each machine is mounted on a base plate, which can easily be fitted into the unit. It is powered by a belt drive. Hoses with quick-action couplings provide the supply lines.

#### **Technical Specification :**

Mobile unit for turbo machines and reciprocating compressors  
2 pressure vessels, 10ltr, max. 10bar  
Water measuring tank with pressure switches, overflow, return to supply tank  
Indirect flow measurement via liquid level (water) or Venturi nozzle (air)  
6 belt-driven machines: piston compressor, rotary vane compressor, piston pump, impeller pump, 2 centrifugal pumps  
Drive motor: Speed controlled by frequency converter  
PC data acquisition with Lab View software under Windows 2000/XP  
230V, 50Hz, 1 phase.

#### **Technical Data:**

Piston compressor: max. Capacity: 115ltr/min, max. delivery pressure: 10bar  
Rotary vane compressor: max. 63ltr/min, max. 0.7bar rel., safety valve: 1...1,3bar rel.

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Impeller pump: max. 25ltr/min, max. 1.5bar

Electric motor, 4-pole: max. power at nominal operation: 0.37kW, nominal speed:1500rpm

Centrifugal pump: max. 60ltr/min, max. 1.8bar

Piston pump: max. 14.6ltr/min, max. 14bar

Dimensions and Weight

l x w x h: 1500 x 750 x 1650 mm

Weight: 85 kg.



**Laboratory Instrument India**