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**Product Name :**  
Mini Axial Flow Propeller Turbine Demonstration Unit

**Product Code :**  
LBNY-0005-17200013



#### **Description :**

The unit consists of axial flow propeller turbine with a dynamometer, a water storage tank, a low head high flow centrifugal pump, an interface box and input power sensors and software. The turbine fixed guide vanes direct water to the runner. The interface box includes power supply to the sensors and motor, and a computer interface unit. Mini Axial Flow Propeller Turbine Demonstration Unit is a self contained mini axial flow propeller turbine for studying the turbine characteristics with data analysis by computer. It also provides interface ports to sensors and computer. The unit is to be used with a computer.

#### **Experiments:**

Torque vs speed at various heads and flow rates.  
Efficiency vs speed for a given head and flow rate.  
Racing characteristics.  
Power output vs speed for various heads and flow rates.

#### **Technical Specification :**

Turbine  
Sensors: Torque and speed.  
Dynamometer: Mechanical brake  
Pump: 0.55 kw  
Maximum power: 20 W.  
Software for data display and analysis by compute.



**Laboratory Instrument India**