

Product Name :
Propeller Turbine Demonstration Unit**Product Code :**
ALABS-A104-503**Description :****Propeller Turbine Demonstration Unit**

- Self contained, small scale hydropower unit designed to demonstrate the operating principles of a propeller turbine.
- 75 litre water reservoir.
- Circulating pump which produces 14m head at 4.4 litres/second.
- Loaded by a magnetic brake unit which is controlled direct from the PC
- Links to a PC via a USB interface.
- Electronic sensors monitor process variables.
- Supplied with full education software package including comprehensive results processing and help facilities.

Description:

The Propeller Turbine consists of a

framework base which houses a large water reservoir and a circulating pump. A stainless steel top supports the turbine itself and a dynamometer assembly. The propeller itself is housed in a clear acrylic pipe to allow maximum visibility of the workings. The unit incorporates a paddle wheel type flow meter and a pressure sensor to measure the inlet condition of the water. The dynamometer module incorporates a magnetic type brake which applies load to the turbine. The level of braking is controlled directly from the software. A load cell measures the braking force, and hence the power, and an optical sensor measures the rotational speed of the turbine.

Technical Specification:

- Maximum Power: 55W
- Maximum Speed: 8500rpm
- Maximum Torque: 0.60Nm



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