

HT 151A MINI AXIAL FLOW PROPELLER TURBINE DEMONSTRATION UNIT, Computer Interface



GENERAL DESCRIPTION

This is a self contained mini axial flow propeller turbine for studying the turbine characteristics with data analysis by computer.

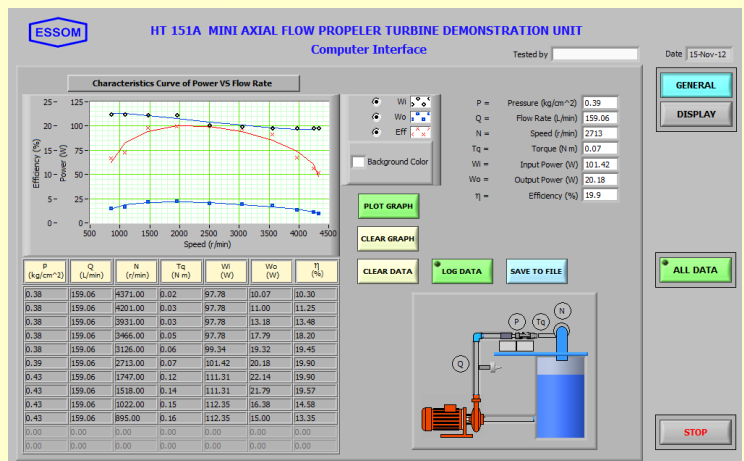
The unit consists of axial flow propeller turbine with a dynamometer, a water storage tank, a low head high flow centrifugal pump, an interface box and input power sensors and software.

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. It also provides interface ports to sensors and computer.

The unit is to be used with a computer (separately supplied).

TEST CAPABILITIES

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



TECHNICAL DATA

- Turbine
 - Construction : Metal runner and guide vanes.
 - : Stainless steel casing with transparent guide vane and runner section.
 - Maximum power : 20 W.
- Dynamometer : Mechanical brake
- Pump : 0.55 kw
- Sensors : Torque and speed.
- Software for data display and analysis by computer (separately supplied).

OPTIONAL EQUIPMENT

- HT 152-060 Computer Control
This includes control motors, and software for data display, analysis, and control by computer (separately supplied).

Net (unpacked) shipping dimensions WxLxH : 80 x 120 x 76 cm
Net weight : Approx. 7 kg

