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.

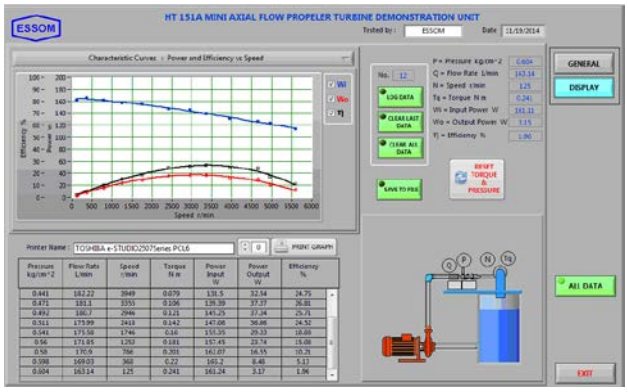
The unit consists of axial flow propeller turbine with a dynamometer, a water storage tank, a low head high flow centrifugal pump, an interface box and input power sensors and software.

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.

Instruction manual is also included.

EXPERIMENT 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
  - Ratings : Maximum power over 20 W
- Dynamometer : Mechanical brake
- Pump
  - Motor : 0.55 kW
- Sensors with digital display : Torque and speed
  : Flow rate and pressure
- Software for data display and analysis by computer (separately supplied).

OPTIONAL EQUIPMENT

- HT 151A-060 Computer Control

  This includes flow and load control motors and additional software function for control by computer (separately supplied).
- Other optional equipment, please contact manufacturer (essom@essom.com)

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

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We reserve the right to change specifications without prior notice