

HT 501AI MINI AXIAL FLOW IMPULSE TURBINE TEST SET



Photograph includes optional equipment

GENERAL DESCRIPTION

This is a self contained bench top set for studying the axial flow impulse turbine characteristics under various flow rates and heads.

The unit consists of a storage tank on a steel base, a pump, a mini axial flow impulse turbine, a dynamometer, and measuring instruments. The twin nozzles direct water jets to the runner radial blades.

Instruction manual is also included.

EXPERIMENT CAPABILITIES

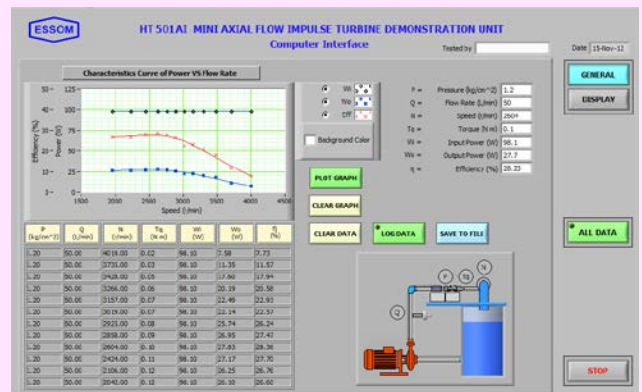
- Torque vs speed at various heads and flow rates.
- Power output vs speed for various heads and flow rates.
- Efficiency vs speed for a given head and flow rate.
- Racing characteristics.

TECHNICAL DATA

- Turbine
 - Construction : Stainless steel runner and twin nozzles
 - : Stainless steel casing with transparent discharge section
 - Ratings : Maximum power over 25 W
- Dynamometer : Mechanical brake
- Measuring instruments:
 - Torque : Spring balances
 - Speed : Portable tachometer
 - Flow rate : Water meter and stop watch
 - Pressure : Pressure gauge
- Software for data display and analysis by computer (separately supplied).
- Power supply : 220 V, 1 Ph, 50 Hz. Other power supply is available on request.

OPTIONAL EQUIPMENT

- HP 009 Pressure gauge at pump inlet for pump pressure vs flow rate curve.
- HP 010A Flow digital display instead of water meter and stop watch.
- HP 011A Pressure digital display instead of pressure gauge.
- HP 012A Torque digital display instead of spring balance.
- HP 014A Speed digital display instead of portable tachometer.
- HT501-050 Computer Interface
Sensors with computer interface unit for key data acquisition instead of analog data measuring instruments.
This includes computer interface unit with sensors instead of spring balances, portable tachometer, water meter and pressure gauge.
- Other optional equipment, please contact manufacturer (essom@essom.com)



Net (unpacked) shipping dimensions WxLxH
Net weight

: 40 x 110 x 85 cm
: Approx. 70 kg

