

HT 303 COMPACT FRANCIS TURBINE TEST SET

GENERAL DESCRIPTION

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

The unit consists of a storage tank, a pump, a turbine, a dynamometer, and measuring instruments. The adjustable guide vanes direct water to the runner.



TYPICAL TESTS

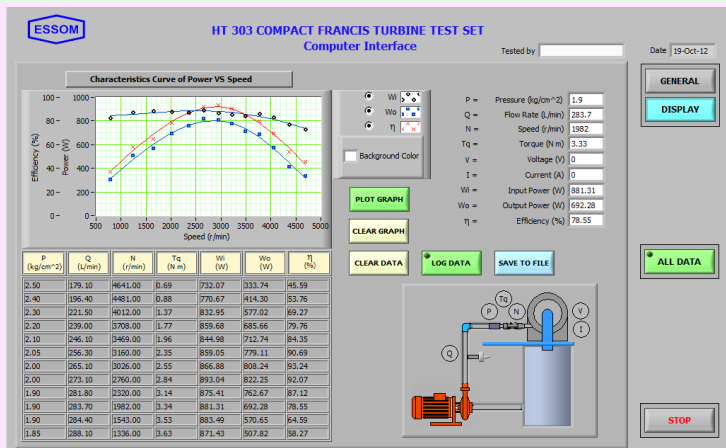
- Torque vs speed at various heads and flow rates.
- Power output vs speed for various heads and flow rates.
- Efficiency vs speed for a given head and flow rate.
- Racing characteristics.

TECHNICAL DATA

- Turbine :
 - Construction : Metal runner, bronze casing with adjustable guide vanes.
 - Maximum power : 400 W of brake power.
- Pump : 2.2 kW.
- Dynamometer : Water brake absorber.
- Measuring instruments:
 - Torque : Spring balances.
 - Pressure : Pressure gauge.
 - Sensors with digital display : Flow rate and speed
- Power supply : 220V 1Ph 50 Hz. Other power supply is available on request.

OPTIONAL EQUIPMENT

- HT 051 Compact Turbine Computer Interface
This includes sensors, computer interface unit, and software for data display and analysis by computer (separately supplied).



Net (unpacked) shipping dimensions WxLxH
Net weight

: 70 x 155 x 85 cm
: Approx. 130 kg