



Email : sales@laboratoryinstrumentindia.com

Product Name :
Multi Turbine Test Set

Product Code :
LBNY-0005-1720005



Description :

The unit consists of a pump and a storage tank, turbine units connected in parallel, a dynamometer for each turbine, and measuring instruments. Multi Turbine Test Set is a self-contained set of three different types of turbine namely-Pelton, Francis, Cross Flow, designed for studying the turbine characteristics under various flow rates and heads. The unit is on wheels.

Experiments:

Power output vs speed for various heads and flow rates.

Efficiency vs speed for a given head and flow rate.

Each turbine can be tested on the following :

Racing characteristics.

Torque vs speed at various heads and flow rates.

Technical Specification :

Pelton Turbine :

Stainless steel casing with transparent window to observe hydraulic action.

Maximum power : 400 W of brake power.

Construction : Stainless steel runner and nozzle.

Cross Flow Turbine

Construction : Stainless steel runner, and nozzle.

Francis Turbine

Construction : Metal runner.

Maximum power : 400 W of brake power.

Non corrosion metal casing with adjustable guide vanes and transparent window to observe guide vane position.
Stainless steel casing with transparent window.
Maximum power : 400 W of brake power.
Pump : 2.2 kW.
Dynamometer : Water brake absorber.
Measuring Instruments
Pressures : Pressure gauges at turbine inlets.
Flow rate and speeds : Digital display.
Torques : Spring balances absorber.
Power supply : 220 V, 1 Ph, 50 Hz.



Laboratory Instrument India