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Product Name :
Cross Flow Turbine Test Set

Product Code :
LBNY-0005-1720009



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Description :

Cross Flow Turbine Test Set is designed for studying the Cross Flow turbine characteristics under various flow rates and heads. The adjustable nozzle direct a water jet tangentially to the runner. Power output can be measured by either dynamometer or generator. The unit is on wheels. The unit consists of a storage tank, a pump, a turbine, a dynamometer, a generator, and measuring instruments.

Experiments:

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

Technical Specification :

Turbine
Stainless steel casing with transparent window.
Construction: Stainless steel runner, and nozzle.
Maximum power: 1000 W of brake power or 650 W of electrical power.
Generator: 2 kVA.
Electrical load: Lamp bank
Pump: 7.5 kW.
Dynamometer: Mechanical brake absorber.
Measuring instrument:

Pressure: Pressure gauge.
Electrical power output: Voltage and current digital display.
Torque: Spring balance.
Flow rate and speed: Digital display.
Power supply: 380V 3 Ph 50 Hz.



Laboratory Instrument India