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Product Name :
Kaplan Turbine Test Set

Product Code :
LBNY-0005-1720006



Description :

The adjustable guide vanes direct water to the runner. Direct coupling generator with clutch is provided to simulate actual turbine generator operation. The set is designed for studying the Kaplan turbine characteristics under various flow rates and heads. Power output at various flow rates, heads and speeds can be measured by either dynamometer or generator output. The unit is on wheels. The unit consists of a storage tank, a pump, a turbine, a dynamometer, a generator, and measuring instruments.

Experiments:

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

Technical Specification :

Turbine
Construction: Fixed blade stainless steel runner.
Generator: 2 kVA.
Electrical load: Lamp bank.
Maximum power: 1500 W of brake power or 1000 W of electrical power.
Dynamometer: Mechanical brake absorber.
Pump: 7.5 kW.
Measuring instruments:

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



Laboratory Instrument India