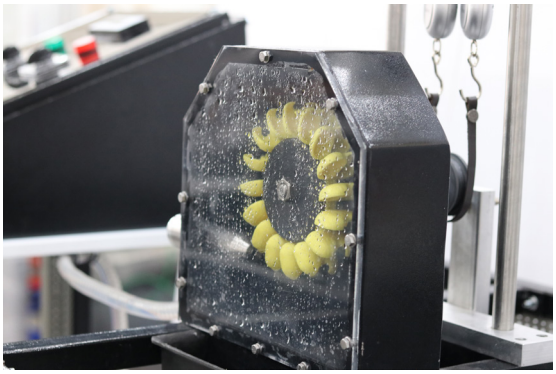
PELTON TURBINE

RF 019

Description:

Pelton turbines that have common use in power plants and other industries are driven by water at high pressure. They work by discharging pressurized water from a nozzle to a tangentially driven turbine. This unit provide the basic experiments to understand the operating principle and the most important characteristic variables of Pelton turbines. The water jet is accelerated in a nozzle and hits the Pelton wheel tangentially. In the blades on the circumference of the Pelton wheel the water jet is deflected by approximately 180°. The impulse of the water jet is transmitted to the Pelton wheel.



Specifications:

- Reservoir tank
- Centrifugal pump
- Pelton Turbine
- Rotameter
- Mechanical braking system
- Pressure gauge
- Tachometer
- Piping system with valves and fittings
- Control panel with switches and display
- Nozzle
- Wheeled carbon steel structure
- Installation and training video included
- Instructions manual included
- 10-year warranty

Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

Applications:

1. Working and operating behavior of a Pelton turbine
2. obtaining the relation between torque, inlet pressure, flow rate and produced power- speed diagram
3. Investigating turbine efficiency for different conditions

Required For Operation:

- 220V Single Phase Electricity
- Distilled Water
- Desirable Temperature (°C): 10-30
- Relative Humidity: 15% - 80%

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Dimensions (L*W*H) mm: 1100x 700 x 1500