



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076.

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RFx. No.6100001266

Technical Specification of Propeller Turbine and Cavitation Apparatus

Propeller Turbine

Power output: approx. 130W at 3500min⁻¹ rotor, outer diameter: 50mm blade length: 5mm Pump power consumption: 1.02kW max. Flow rate: approx. 375L/min max. head: 13.7m Measuring orifice diameter: 44mm differential pressure sensor: 0...0.1bar Measuring ranges flow rate: 500L/min pressure (inlet): 0...5bar torque: 0...2Nm 230V, 50Hz, 1 phase

Cavitation in Pumps

- Visualization of cavitation in centrifugal pumps
- Transparent pump housing and pipe at the inlet side
- Open impeller to observe the blades during operation
- Continuously adjustable pump speed via frequency converter
- Temperature control via heater and external cooling via water supply
- Flow measurement using rotameter
- Display of the pressures at inlet and outlet side of the pump via manometers
- Digital display of speed, water temperature in the return and flow rate ·
- closed water circuit with tank and temperature display ·

Note: - made up of Stainless Steel- 304 Grade

* Warranty: - 01 Year