

**DESCRIPTION:**

The apparatus has been designed to demonstrate the phenomena of Cavitation. The present set-up consists of a test section made of acrylic having conversion and diversion section. Pressure tapings at appropriate position are provided. This test section is having one control valve at upstream side to regulate the water flow rate. Two pressure gauges are connected to these tapping which give the pressure readout at the time of flow passing through this test section. The unit is self-contained close circuit type with sump tank, measuring tank and centrifugal pump. Flow through test section can be regulated with the help provided by-pass and control valve. Sensors are provided for data acquisition system like flow sensor for discharge, pressure sensor for discharge and vacuum pressure. Software for data analysis through PC using USB connection.

**Technical Details:**

- Test Section: Material Acrylic
- Pressure Gauge: 0-4 kg/cm<sup>2</sup>
- Vacuum Gauge: 0-760 mmHg
- Pressure sensor for discharge and vacuum: range 0 to 6 bar and 0 to -1 bar.
- Water Circulation: By Pump Crompton make.
- Flow Measurement: Measuring Tank (Capacity : 40 liters) & Electronic
- Flow sensor: Range 0 to 50 LPM
- Stop Watch
- Sump Tank: Capacity 60 liters.
- Control Panel Comprises of: Standard make On/Off Switch, Mains Indicator, etc.
- Instruction Manual: An ENGLISH instruction manual will be provided along with the Apparatus.
- Tanks will be made of Stainless Steel.

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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- The whole set-up is well designed and arranged in a good quality painted structure.

**Experiment:**

- To observe the phenomena of cavitation.
- To compare the theoretical and actual pressures at cavitation condition.

**Utilities Required:**

- Water Supply (Initial Fill).
- Floor Drain Required.
- Floor Area Required: 1.5 m x 1 m.

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