

**DESCRIPTION:**

The equipment is designed and fabricated to demonstrate the Bernoulli's theorem. It consists of a test section made of acrylic. It has convergent and divergent sections. Pressure tapings are provided at different locations in convergent and divergent section. Present set-up is self-contained water re-circulating unit, provided with a sump tank, centrifugal pump etc. An arrangement is done to conduct the experiment on different flow rates. Flow rate of water is measured with the help of measuring tank and stopwatch. Sensors for static pressure and flow sensors for discharge measurement is also provided for data acquisition. With the help of software provided with the apparatus, the real time data can be analyzed with the usb connection to PC.

**Technical Details:**

- Test Section : Material Acrylic (One Piece)
- Piezometer Tubes : Material P.U. Tubes (7 Nos.)
- Water Circulation : 0.5hp Pump
- Flow Measurement : Using Measuring Tank with Piezometer, Capacity 30 Ltrs.
- Sump Tank : Capacity 60 Ltrs.
- Inlet Tank : Capacity 25 Ltrs.
- Stop Watch: Electronic
- Flow sensor: for discharge measurement, Range 0 to 50 LPM
- Pressure sensor: 7 nos for static pressure m
- Control Panel Comprises of : Standard makes 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.
- The whole set-up is well designed and arranged in a good quality painted structure.

**UTILITY REQUIRED:**

- Water Supply
- Drain

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



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- Electricity 0.5 kW, 220 V AC, Single Phase
- Floor Area 1.5 x 0.75 m

**EXPERIMENT:**

- To verify Bernoulli's Theorem experimentally.
- To plot the Total energy Vs distance.



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