



A Pitot tube is used to measure the local velocity at a given point in the flow stress. A Pitot tube of standard design made of copper / SS is supplied and is fixed below Vernier scale. The Vernier scale is capable to measure the position of Pitot tube in transparent pipe section. The pipe has a flow control valve to regulate the flow. A U-tube manometer is provided to determine the velocity head. Present Set-up is self-contained water re-circulating unit, provided with a sump tank and a centrifugal pump etc. Flow control valve and by-pass valve are fitted in water line to conduct the experiment on different flow rates. Flow rate of water is measured with the help of measuring tank and stop watch.

EXPERIMENTS:

- To find the point velocity at the center of a tube for different flow rates of water and calibrate the Pitot tube
- To plot velocity profile across the cross section of pipe

UTILITIES:

- Water Supply & Drain
- Electricity Supply: Single Phase, 220 VAC, 0.5 kW

TECHNICAL SPECIFICATION:

- Pitot Tube : Material Copper/SS of compatible size fitted with Vernier Scale
- Test Section : Material Clear Acrylic, Compatible to 1" Dia. Pipe
- Water Circulation : FHP Pump, Crompton / Sharp make
- Flow Measurement : Using Measuring Tank, Capacity 40 Ltrs.
- Sump Tank : Capacity 70 Ltrs.
- Stop Watch : Electronic
- Control Panel : On / Off Switch, Mains Indicator etc.
- The whole Set-up is well designed and arranged in a good quality painted Structure

Note: Specifications are subject to change.

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