



The experimental unit is used to demonstrate Bernoulli's principle by determining the pressures in a Venturi nozzle.

The experimental unit is a closed-circuit unit consist of a sump tank, measuring tank with piezometer tube, a constant head tank and a pipe section with a transparent Venturi nozzle, six tube manometer and control valve.

The centrifugal pump draws the water from the sump tank and delivers to a constant head tank from where it flows through pipe section to venturi nozzle and to the measuring tank where the discharge can be determined with the help of piezometer tube and stop watch.

The Venturi nozzle is equipped with pressure measuring points to determine the static pressures. The pressures are displayed on the six tube manometers.

TECHNICAL DETAILS

Venturi Nozzle	A: 84...338mm ² angle at the inlet: 10,5° angle at the outlet: 4° Single piece made of transparent Acrylic.
Sump Tank	Capacity : 70 liters Material : stainless steel
Measuring Tank	Capacity : 25 Liters with Piezometer tube Material : Stainless Steel
Constant Head Tank	Capacity : 20 Liters Material : Stainless Steel
Pump	Make : Crompton Capacity : 0.5 HP
Measuring Ranges	Pressure : 0 to 370 mm WC (static pressure) No. of measuring points : 7

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



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EXPERIMENTATION

- Energy conversion in divergent/convergent pipe flow
- recording the pressure curve in a Venturi nozzle
- recording the velocity curve in a Venturi nozzle

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