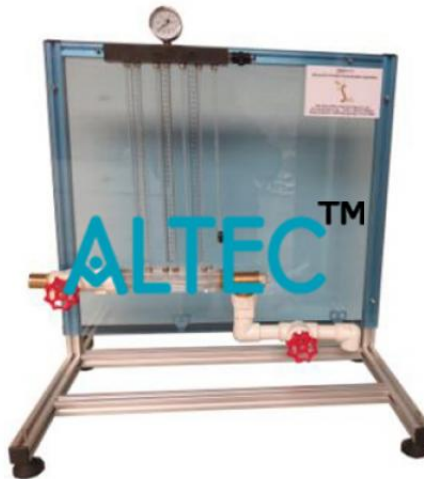


Product Name :
Bernoullis Principle Demonstration Apparatus**Product Code :**
FUDE0028**Description :**

Bernoullis Principle Demonstration Apparatus

Technical Specification :

- investigation and verification of Bernoulli's principle
- static pressures and total pressure distribution along the Venturi nozzle
- determination of the flow coefficient at different flow rates

Bernoulli's principle describes the relationship between the flow velocity of a fluid and its pressure. An increase in velocity leads to a reduction in pressure in a flowing fluid, and vice versa. The total pressure of the fluid remains constant.

Bernoulli's equation is also known as the principle of conservation of energy of the flow.

The MR-HM 150.07 experimental unit is used to demonstrate Bernoulli's principle by determining the pressures in a Venturi nozzle.

The experimental unit includes a pipe section with a transparent Venturi nozzle and a movable Pitot tube for measuring the total pressure. The Pitot tube is located within the Venturi nozzle, where it is displaced axially. The position of the Pitot tube can be observed through the Venturi nozzle's transparent front panel.

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

another single tube manometer.



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