

HYD-004 BERNOULLIS THEOREM APPARATUS



RANGE OF EXPERIMENTS TO BE CARRIED OUT:

1. To Observe and Verify the Bernoulli's Theorem
2. To Calculate the total head over the Venturi section.
3. To observe energy conversion in convergent and divergent flow.
4. To Calculate the Pressure head over the Venturi section
5. To Calculate the Pressure head over the Venturi section
6. To identify the frictional loss over the Venturi section

TECHNICAL DESCRIPTION :

The experimental unit consists of an acrylic venturi section with inlet and outlet tanks, a water sump tank with a self-priming monoblock centrifugal pump. The flow of water can be controlled by a valve. A venturi section is equipped with pressure measuring points for measurement of static pressure. A measuring tank is provided for measurement of discharge of water through the section.

This system is a complete closed circuit type and easy to move due to wheels.

DIMENSIONS AND WEIGHT :

Size :1.5 m.(L)x 0.7 m(W) X 1.7m (H)

Weight :Approx. 70 Kg

SERVICE REQUIRED :

Power Supply : 230v, AC ,Single Phase , 50HZ

Water : 120 ltr

SCOPE OF DELIVERY:

1. Experimental Setup
2. Instructional Manual