

HYD-009 **ORIFICE AND MOUTHPIECE APPARATUS**



RANGE OF EXPERIMENTS TO BE CARRIED OUT:

1. To Calculate the Orificemeter coefficient of given Orifice meter and compare with the reported value in literature.
2. To Calculate the Mouthpiece meter coefficient of given Mouthpiece meter and compare with the reported value in literature.
3. To Calculate the Coefficient of Velocity of given Mouthpiece meter and Orifice meter
4. To Calculate the Coefficient of Contraction of given Mouthpiece meter and Orifice meter

TECHNICAL DESCRIPTION :

The experimental unit consist of an overhead tank with scale , at the bottom of which orifice or mouthpiece can be fixed. a water sump tank with self-priming monoblock centrifugal pump. The flow of water can be controlled by a valve.. A measuring tank is provided for measurement of discharge of water through the Section. A Horizontal and vertical scale is fixed for measurement of flow of jet.

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

DIMENSIONS AND WEIGHT :

Size :1.2 m.(L)x 0.7 m(W) X 1.7m (H)

Weight :Approx. 40 Kg

SERVICE REQUIRED :

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

Water : 100 ltr

SCOPE OF DELIVERY:

1. Experimental Setup
2. Instructional Manual