KFM-04 Heleshaw Apparatus

Flow through pipes, channels may be laminar or turbulent. The type of flow depends upon the rate or volume of flow, surface roughness of pipe/ channel, velocity of fluid. However in most of the cases the flow is turbulent.

The Acrylic test section with drain cock test specification with following models.

- 1)Symmetrical aerofoil model
- 2)Square model
- 3)Circular model

Specifications:

- Size approx. 220 mm x 360 mm height.
- Transparent Heleshaw Apparatus.
- · Suitable stand.
- Two dimensional models of cylinder, aerofoil, Square & triangular.
- · Measuring cylinder



KFM-05 Notch Apparatus



Specifications:

- M. S. storage tank (channel) of size 250 mm x 250 mm x 1250 mm
 Length provided with four sets of baffles and sieves for steadying water supply, fixing arrangement for interchangeable notches.
 Baffles for steadying water supply. Arrange-ment for fixing interchangeable Notches.
 Supporting stand for the equipment.
- Measuring tank of 1000 mm x 300 mm x 400 mm capacity with drain valve & gauge glass.

- Sump Tank size
 300 mm x 300 mm X 500 mm.
- Set of 2 brass Notches: (As requirement extra provided with extra cost)
 - 1) Rectangular Notch
 - 2) 'V' Notch.60°C

Range of Experiments:

- To determine Co-efficient of discharge (Cd) through
 Destangular Natah
 - a) Rectangular Notch
 - b) V Notch

KFM-06 Pipe Friction Apparatus

Specifications:

- Three pipes: 15mm, 19 mm & 25mm I. D. nominal diameters approximately connected in a common manifold.
- Pressure tapping at 1 m distance.
- Supporting stand structure for the equipment.
- Measuring tank with drain valve & gauge glass.
- Differential manometer of 300 mm length with mercury.

Range of Experiments:

- To determine coefficient of friction for pipes.
- To plot relation between pressure loss & flow rates for a particular pipe diameter.

