

Order Code : 20213501.1.4
Name : Flow demonstration apparatus

Flow Demonstration Apparatus

Description

The present set-up is designed in Stainless Structure. Screws, nuts, plates and all the metallic elements in stainless steel. Diagram in the front panel with similar distribution to the elements is provided in the real unit. Centrifugal pump is used to re-circulate the water from sump tank to the inlet tank and test section and is return back to the sump tank. Experiments can be conducted on different flow rates and measured with the help of measuring cylinder and stopwatch.

Experimentation/Learning Objectives

- To visualize flow field in a laminar flow over different types of object.

Technical Details

- Capacity of the dye tank : 300 ml.
- Width/length of the channel : 50/630 mm. (approx.)
- Depth of channel : 150 mm. (approx.)
- Centrifugal pump : 1/2 HP, Crompton/Standard make
- Flow measurement : Measuring cylinder and stop watch
- Sump Tank : Capacity 50 Ltrs, Stainless Steel 304 Grade
- Damping tank that eliminates the turbulences.
- Hydrodynamic models:
 - Two lengthened.
 - Two circular of 25 and 50 mm diameter.
 - Rectangle with rounded edges.
 - Wedge.
- Easy and quick coupling system built-in.
- Anodized aluminum structure.
- An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus.
- The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.



Utilities Required

- Electricity supply: Single Phase, 220 V AC, 50 Hz, 5-15 Amp. combined socket with earth connection. Earth voltage should be less than 5 volts.
- Water Supply (Initial Fill).
- Floor Drain.
- Floor Area: 1.5 x 1.5 m.

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

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