

## Free Vortex Apparatus



**Product Categories:** [Engineering Equipment](#), [Hydraulic Lab](#)

**Product Page:** <https://www.labappara.com/product/free-vortex-apparatus/>

### Product Description

#### Free Vortex Apparatus

##### **Description:**

The experimental set up consist of a circular transparent cylindrical tank in which four circumferential jets are placed along the circumference of the cylinder near its bottom which helps in the formation of free vortex. It is assumed that the torque exerted by these jets is negligible. A pointer can be transversed horizontally & vertically across full diameter of the vessel so that water surface profile can be measure. Both axes contain graduations so that exact position of the pointer is known. The experimental procedure involves measurement of the resulting free surface that represents the variation of the sum of the pressure head and datum head. An arrangement is provided to drain the vessel.

##### **Technical Details:**

Cylinder: Material Acrylic. Dia. 200 mm (approx).

Height: 200mm approx

Water Circulation : FHP Pump, Crompton make.

Flow Measurement : Using Rota meter.

Sump Tank : Made of Stainless Steel, Compatible capacity.

Control Panel Comprises of:

Standard make On/Off Switch, Mains Indicator, etc.

Instruction Manual : An ENGLISH instruction manual will be provided along with the Apparatus

The whole set-up is well designed and arranged in a good quality painted structure.