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Product Name :
Free And Forced Vortex

Product Code :
LBNY-0005-103000284



Description :

The apparatus includes a clear acrylic cylinder on a plinth developed to produce & measure free and forced vortices.

The forced vortex is induced by a paddle in the base of the cylinder which is rotated by jets of water. The profile of the forced vortex is determined using a series of depth gauges.

The free vortex is generated by water discharging through an interchangeable orifice in the base of the cylinder and the resulting profile is measured using a combined caliper and depth scale.

Dye crystals (not supplied) may be used to demonstrate secondary flow at the base of the free vortex

Velocity at any point in the free or forced vortices may be measured using the appropriate pitot tube supplied.

Technical Specification :

Plexiglass tank on powder coated base plate, complete with pipework, fittings and connections, as well as measuring device with vertical/radial scale

Vortex generated via outlet inserts or impeller with 3 blades

Experimental set-up to study the formation of vortices in liquids, for use

630 x 400 x 675mm(l x w x h), 18kg

Technical Data:

Tank: diameter: 250mm, height: 190mm

4 outlets: diameter: 8, 12, 16, 24mm.



Laboratory Instrument India