Product name:	Product code:
Free and Forced Vortex	Fluid00018



Description

Free and Forced Vortex

Technical specification

- Experimental set-up to study the formation of vortices in liquids, for use
- 630 x 400 x 675mm(l x w x h), 18kg
- 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

Technical Data:

- Tank: diameter: 250 mm, height: 190 mm
- 4 outlets: diameter: 8, 12, 16, 24 mm

Free and Forced Vortex Free and Forced Vortex

Free and Forced Vortex:

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- The apparatus includes a clear acrylic cylinder on a plinth developed to produce & measure free and forced vortices.
- 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.
- 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.
- Velocity at any point in the free or forced vortices may be measured using the appropriate pitot tube supplied.
- Dye crystals (not supplied) may be used to demonstrate secondary flow at the base of the free vortex

Specification: