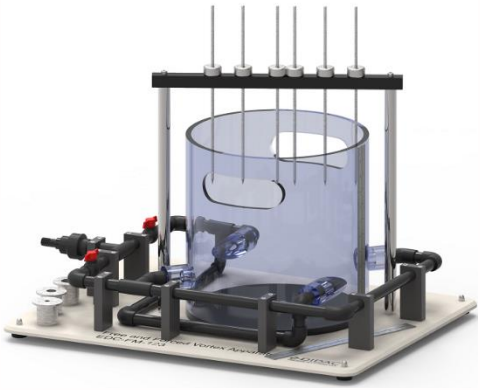
Free and Forced Vortex Apparatus

(EDC-FM-123)



EXPERIMENTAL DATA:

- Conception of various vortices.
- Examination of free and forced vortices.
- Purpose of velocity.

DESCRIPTION:

Apparatus has a transparent tank with nozzles, various inserts on the water drain, an impeller and a point gauge for detecting the vortex profiles. In fluid dynamics, a vortex is a spherical flow of a liquid produced by satisfactorily big velocity gradients. In practice, this can be experimental when water flows out of a basin into a pipe or when two fluids with different speeds meet each other. This experimental unit consents you to produce and study free and forced vortices.

SPECIFICATIONS:

- Water supply and flow rate measurement via EDC-FM-100 base module.
- Point gauges detect the surface profile.
- Cohort and study of vortices.
- Transparent tank allows picturing of vortex formation.
- Different inserts for the water channel to generate free vortex.
- Impeller for generating a forced vortex.

TECHNICAL DATA:

- Transparent Tank: D:250mm, H: 200mm.
- 4 inserts for the water drain of different diameter: 8, 12, 16 and 24mm.
- Impeller with blades.
- Vertical point gauge with moveable rods: Qty 6.
- Horizontal point gauge with 2 moveable rods.
- Measuring tube: moveable.

DIMENSIONS AND WEIGHT:

- L x W x H (mm): 650 X 500 X 700 approx.
- Weight: 20 kg approx.

SCOPE OF DELIVERY:

- 1 x EDC-FM-123
- 1 x Instructional Manual