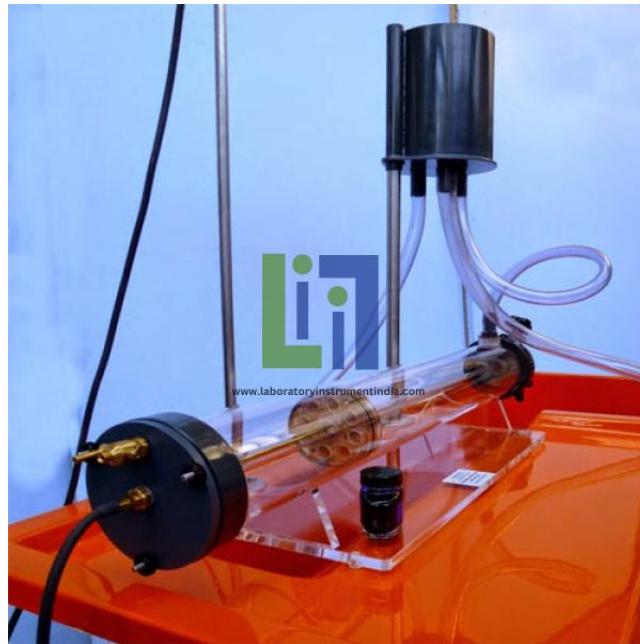




Email : sales@laboratoryinstrumentindia.com

Product Name :
Osborne Reynolds Unit

Product Code :
LBNY-0005-15800013



Description :

The unit is designed to be used on Hydraulics Bench which allows the volumetric measuring tank to be used for flow measurement. Alternatively the unit can be used on a laboratory bench with water supplied from a tap and with the unit discharging to a drain. Osborne Reynolds Unit comprises a reentrant bell mouthed glass experimental tube of 16 mm bore and approximately 650 mm long mounted horizontally in a 103 mm bore perspex tube. Flow control is achieved by an angled seat valve at exit from the apparatus. A dye injector probe and adjustable head dye reservoir are provided to introduce a dye filament for the observation of laminar, and turbulent flow regimes, and the transition between them. An adjustable height constant head inlet tank supplies water to the annulus so that the water flows along the annulus through a baffle into a reverse flow stilling chamber, thus providing a uniform flow with very little turbulence into the bell mouth entry of the experimental tube.

Experimental Capability:

Determination of the lower and upper Critical Velocities and Reynolds Number.
Demonstration of laminar or streamline flow, turbulent flow and the transition between these two regimes by observation of injected dye line.

Technical Specification :

Dimensions And Weights:

Length: 50cm
Width: 100cm
Height: 50cm
Nett weight: 12kg.



Laboratory Instrument India