

OSBORNE REYNOLDS' DEMONSTRATION Mod. HB11/EV

DESCRIPTION

The equipment reproduces the Osborne Reynolds' experiment concerning the nature of laminar and turbulent flow. The water coming from the hydraulics bench enters in a tank and is discharged from the bottom through a pipe passing through some glass marbles in order to reduce the water turbulence. The flow rate through the pipe can be adjusted thanks to a valve placed at the outlet and it can be measured using the volumetric tank of the hydraulics bench. Thus the speed of water can be determined and Reynolds' number can be calculated. The equipment uses a dye injection system for an easier observation of flow conditions inside the transparent pipe.

TRAINING PROGRAM:

- Reproducing the experiments carried out by Osborne Reynolds concerning fluid flow condition
- Observing the laminar, transitional, turbulent flow and determining the velocity profile

TECHNICAL CHARACTERISTICS:

- Head tank: 3,5 l
- Diameter of the test pipe: 10 mm
- Length of the test pipe: 700 mm
- Dye reservoir capacity: 250 ml

Dimensions: 300 × 300 × 1.100 (h) mm
Weight: 20 kg



REQUIRED

HYDRAULIC BENCH MOD. HB/EV OR HB-E/EV
- NOT INCLUDED -
or water supply (@2 bar) and drain



SUPPLIED WITH

THEORETICAL-EXPERIMENTAL
HANDBOOK



OPTIONAL

SPREADSHEET SOFTWARE
For fluid mechanics equipment
Mod. SW-HB11/EV

