



OSBORNE-REYNOLD'S DEMONSTRATION APPARATUS



DL DKL142

This system is designed to study and reproduce Osborne Reynolds experiment through the observation of different types of flows: laminar, turbulent and transitional. With this system it is possible for students to determine the Reynolds number for each flow.

The equipment includes a system for a constant water supply directed to the central calibrated glass tube where students can observe the different types of flow.

From the tank placed at the top of the equipment, it is possible to inject in the central tube a dye that will allow the visualization of the different types of flow; the dye deposit and the glass tube are equipped with valves that can regulate respectively the dye dosage and the flow.

PERFORMABLE EXPERIMENTS

Study and determination of Reynolds number for:

- Laminar flow regime.
- Transition flow regime.
- Turbulent flow regime.

TECHNICAL DATA

Inner diameters:

- Calibrated glass tube:
 - Inner diameter= 12mm
 - Length= 750mm

Dye:

- Acrylic ink

Equipment dimension:

- 450mm x660mm x 1,350mm

Requirements:

Water intake and outflow.