

# STUDY OF LAMINAR AND TURBULENT REGIMES



*Non contractual photo*

**SERVICE : POWER SUPPLY 220 V, 50 HZ  
SINGLE PHASE - POWER CONSUMPTION:  
80 W  
DIMENSIONS : 1200 X 600 X 2200 MM**

## REFERENCE : MP85

This bench makes it possible to determine the characteristic quantities of the laminar and turbulent regimes.  
The unit consists of a tube of 3 mm in diameter in which water is circulated either through a pump or with a tray loaded.

- Measurement of pressure loss and velocity in the tube and determination of the Reynolds number
- Determination of the critical Reynolds number
- Calculation of the friction equations according to the Darcy and Blasius equations

### Technical specifications :

- A feed pump
- A tray loaded above the worktop
- Horizontal tube 500 mm long and 3 mm inside diameter
- A flow control valve
- A U-shaped manometer placed on a panel with a counter-pressure hand pump
- A feed tank with side drain and drain valve
- A pump on / off control box and its protection
- The set is mounted on stainless steel frame and aluminum nuts

### OPTIONS :

An electronic differential pressure sensor.