

GENERAL EXPLANATION

The purpose of this experiment is to perform intensive laminar (layered) flow, transition zone flow and turbulent flow observation and related calculations.

EXPERIMENTS

1. Laminar flow visualization experiment
2. Transition region visualization experiment
3. Turbulent flow visualization experiment
4. Experiment to determine the number of critical reynolds

DIMENSIONS

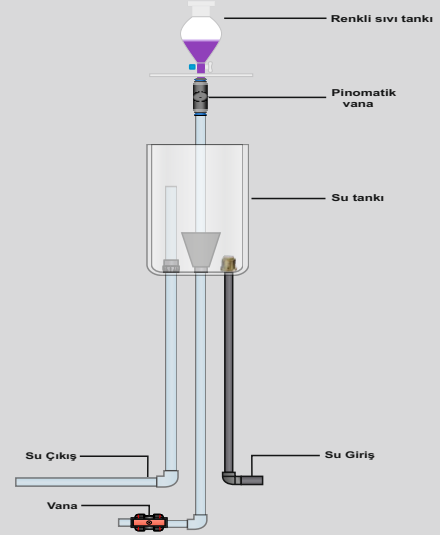
A x B x H : 750 x 520 x 1500 mm

PACKAGE INCLUDED

Device, device cover, 1 printed experiment report, circuit diagram and product catalog

TECHNICAL SPECIFICATION

This training set works in a vertical position. The feed tank has a bell mouth entry which allows the water to constantly apply pressure to the head and allows flow monitoring. This line is regulated by the control valve at the end of the discharge line. The amount of water in the pipes is measured. Thus, knowing the velocity of the water allows the calculation of the Reynolds number.



TECHNICAL DETAILS

- Plexiglas cylinder and pipe
- Bell mouth entry for colored liquid addition
- Sliding control valve
- Test pipe diameter: 20 mm
- Test tube length: 700 mm
- Paint reservoir capacity: 0.5 liters
- Laminar and turbulent flow