



FLUID MECHANICS

HYDROSTATIC BENCH



DL DKL013

This didactic bench is suitable for the study of the main characteristics and properties of static fluids.

It is composed of several accessories for the demonstration and study of the hydrostatic tests.

The system is supplied with a practical manual which explains all the theoretical fundamentals and the mathematic formulas used for the realization of the experiments.

SCOPE OF EXPERIMENTS

- Density measures
- Pascal law demonstration
- Study and demonstration of capillarity principle
- Viscosity determination experiment
- Pressure measures
- Manometer calibration
- Archimedes' principle
- Buoyant stability force
- Pressure, potential and kinetic force
- Pressure on submersed objects
- Meta-central height

Bench dimensions:
1715 x 1900 x 800 mm

Requirements:

Power supply: 230V / 50Hz

***Note:** Mercury is not included.

TECHNICAL DATA

Tank:

- Storage capacity: 50 liters

Densities:

- Volume pycnometer: 50ml

Densimeters:

- From 700 to 800
- From 800 to 900
- From 900 to 1000
- From 1000 to 1100
- From 1100 to 1200
- From 1200 to 1300
- From 1300 to 1400
- From 1400 to 1500
- From 1500 to 1600

Capillarity:

- Glass tubes:
- Inner diameters: 17.3mm , 5 mm , 2.1 mm , 1.4mm

Manometer:

- Barometer
- 600mm water column
- 600mm mercury column*
- 1,000mm mercury column. Absolute pressure*
- Adjustable lean angles: 15, 30, 45° and 90°

Extras:

- Electronic weight scale
- Falling ball viscometer:
 - Ø4 mm
 - Ø5 mm
 - Ø7 mm
 - Ø8 mm