

Product Name :
Fluid Properties and Hydrostatics Bench

Product Code :
ENGLABINGCAG300014



Description :

Fluid Properties and Hydrostatics Bench

Technical Specification :

Familiarization with different methods of measuring pressure
Familiarization with various items of pressure measuring equipment
Determination of surface tension
Demonstration of capillary effects
Demonstration Pascal's law
Determination of the center of pressure
Measurement of the static and dynamic pressure component in a fluid
Experiments on the Boyle-Marriott law
Determination of the buoyancy of various bodies
Investigations on the density of liquids

Submersible pump: 0.22kW
Volumetric flow rate: 95Ltr/min
Head: 12.5m
Aneroid barometer, range: 973 – 1047 mbar.
Thermometer with a range between -10 and 50oC.
Pycnometer of 50 ml.
Parallel plates capillary module.
Hg U-tube manometer 270..0..270mbar

U-Tube manometer 0.500mmWC

3 Hydrometers of resolution 0.002oSG:

Hydrometer 0.8oSG – 1oSG Hydrometer 1oSG – 1.2oSG Hydrometer 1.2oSG – 1.4oSG

Two hydrometer jars of 450 x 50 mm.

Capillary tubes module with tubes of different size: 5 mm, 4 mm, 3 mm, 2.2 mm, 1.7 mm and 1.2 mm.

Two falling sphere viscometer tubes of 300 x 40 mm, with marks at 0, 25, 175, 200 and 220.

Set of stainless steel balls of different sizes: 3.175 mm, 2.381 mm and 1.588 mm

Variable scale lever balance to be used with the Archimedes module, up to 310 gr.

Archimedes module: displacement vessel, bucket and cylinder.

Graduated cylinder made of glass (250 ml.)

2 Beakers made of glass (600 ml.)

Digital chronometer



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