

Product Name :
Fluid Properties And Hydrostatic Bench

Product Code :
EEFUD62M0005



Description :

Fluid Properties And Hydrostatic Bench

Technical Specification :

Fluid Properties And Hydrostatic Bench Experimentation: Universal hydrometer and hydrometer jars Falling sphere viscometers free surface tubes Bourdon gauge U-tube manometer Hydrostatic pressure apparatus Capillary tube apparatus Utilities Required : Electricity 1.5 kW 220 V AC, Single Phase Water Supply (Initial fill). Floor Drain Floor Area 1.75 x 1.75 m Description: The Properties of Fluids and Hydrostatics Bench are designed to demonstrate the properties of fluids and their behavior under hydrostatic conditions (fluid at rest). This allows students to develop an understanding and knowledge of a wide range of fundamental principles and techniques, before studying fluids in motion. A variety of measuring devices is incorporated, either fastened to the back of the bench or freestanding. Water is stored in a stainless steel tank situated at the base of the unit. The water can be transferred by centrifugal pump, either to an elevated open storage tank connected to a number of glass tubes for free surface studies. Accessories: 2 hydrometer jars (clipped to stand) 1 universal hydrometer (in protective housing) 2 falling-sphere viscometer tubes (clipped to stand) 1 plastic storage box containing steel spheres 1 spirit-filled glass thermometer (in protective housing) 1 direct-reading aneroid barometer (fixed to stand) 1 parallel-plate capillary apparatus 1 capillary tube apparatus with six tubes of varying size 1 Archimedes apparatus comprising displacement vessel, machined bucket & matching cylinder 1 50ml density bottle (Pycnometer) 1 250ml plastic measuring cylinder 1 600ml glass beaker 1 Dual-scale lever balance, adapted for use with the Archimedes apparatus Technical Details : Universal Hydrometer

: Range 0.70 to 2.00 sub-divided in 0.01 intervals Falling Sphere Viscometer

: 40mm tube diameter Hydrostatic Pressure Apparatus

: Comprises counter-balanced precision quadrant. Pivoted on knife edges at its centre of arc.
Thermometer

: Range -1000C to +5000C Tanks will be made of Stainless Steel.

An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.



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