

### Features:

- Designed for pressure measurement of Liquids & Gases using different manometers.
- A useful understanding of the principles of Fluid at rest.

Tesca Fluid Statistics & Manometry Apparatus provides an introduction to the behavior of liquids under hydrostatic conditions (fluid at rest) and the application of these principles to pressure measurement using manometers. The trainer is 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. These include the use of fluids in manometers to measure pressure and pressure differences in gases and liquids.

The trainer includes a Liquid reservoir connected to manometers. The supplied manometers include a U tube manometer, single limb manometer & inclined tube manometer.

Detailed Operation & Maintenance Manual is provided along with the trainer.

### Technical Specifications:

- Liquid Reservoir: 100 mm Diameter, 600 mm Height
- 'U' Tube Manometer
- Vertical parallel tubes – 2 Nos.
- Vertical tube with a varying cross-section
- Vertical tube with pivot allowing operation at three different inclinations

### Experiment Possibilities:

- Demonstrating the behavior of liquids at rest (Hydrostatics)
- Showing that the free surface of a liquid is horizontal and independent of a cross-section.
- Measuring small changes in a liquid level using a micro-manometer.
- Measuring changes in a liquid level using a Vernier hook and point gauge
- Using a single piezometer/manometer tube to measure head
- Using manometer tubes to measure differential pressure
- Using an inclined manometer to measure small pressure differences
- Using a 'U' tube manometer to measure pressure differences in a gas (air over liquid)
- Using an inverted pressurized 'U' tube manometer to measure pressure differences in a liquid
- Using liquids with different densities to change the sensitivity of a 'U' tube manometer

Note: Specifications are subject to change.

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