THERMAL EXPANSION OF SOLID BODIES

RH 398

Description:

The expansion of materials due to temperature change is an important issue when designing structures or mechanical applications. The thermal expansion measurement device is designed to study the linear expansion of solid materials when subjected to temperature changes. By heating a specimen and recording its change in length, users can experimentally determine the coefficient of linear expansion for different materials. This apparatus provides a clear demonstration of this process, helping learners connect theoretical principles of heat transfer and material behavior with practical experimentation. It is widely used in educational laboratories for material science, physics, and engineering studies.

Specifications:

- Linear Thermal Expansion Measurement Device
- Dial Gauge for Measuring Thermal Elongation
- Thermometer
- Beaker
- Stainless Steel Heated Water Tank with Temperature Controller (30°C-90°C)
- Electrical Control Panel with Switches and Displays
- Circulation Pump
- Various Test Tubes with Different Materials
- Installation and training video included
- Instructions manual included
- 10-year warranty

Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

Applications:

1. Investigating the thermal expansion of different materials
2. Familiarizing with the relation between thermal expansion and temperature difference
3. Comparing the thermal expansion of different solids

Required For Operation:

- 220V Single Phase Electricity
- Distilled Water
- Desirable Temperature (°C): 10-30
- Relative Humidity: 15% - 80%

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Dimensions (L*W*H) mm:1200×200×200