

Thermal Conductivity of Liquids and Gases (EDC-HT-011)

EXPERIMENTAL DATA:

- Study of the thermal conductivity, k of various liquids.
- Study of the thermal conductivity, k of various gases.



DESCRIPTION:

Thermal conductivity is major and important topic in the study of heat transfer. Conduction occurs in liquid and gases are due to collision and diffusion of the molecules during their random motion. Apparatus contains two coaxial co-centric cylinders for experimentation.

SPECIFICATIONS:

- Study of thermal conductivity.
- Inner Cylinder.
- Outer cylinder.
- Heater.

DIMENSIONS AND WEIGHT:

- L x W x H (mm): 600 X 400 X 400 approx.
- Weight: 35 kg approx.

TECHNICAL DATA:

- Electric Heater.
 - 150W.
- The test module consists of two cylindrical plugs assemble with 0.4 mm gap and a cylindrical water-cooled jacket.
- Inner cylinder plug:
 - Outer diameter: 33.3 mm.
 - Length: 120 mm.
 - Material: Copper.
- Outer cylinder plug:
 - Inner diameter: 34.1 mm.
 - Length: 100 mm.
 - Material: Copper.
- LCD display for temperature.
- 230V AC 50Hz.

SCOPE OF DELIVERY:

- 1 x EDC-HT-011.
- 1 x Instructional Manual.

