

Thermal Conductivity Of Liquids



Product Categories: [Engineering Equipment](#), [Heat Transfer Lab](#)

Product Page: <https://www.labappara.com/product/thermal-conductivity-liquids/>

Product Description

Thermal Conductivity Of Liquids

The apparatus is designed to determine thermal conductivity of different liquids. The apparatus consists of a heater. The heater heats a thin layer of liquid. A cooling plate removes heat through liquid layer, ensuring unidirectional heat flow. Temperature is measured across the liquid layer and complete assembly is properly insulated. A proper arrangement for changing the liquids is provided. The whole assembly is kept in a chamber.

Other information:

Designed to determine thermal conductivities of different liquids.

Apparatus consists of a heater which helps in heating a thin layer of liquid

A cooling plate is present which removes heat through liquid layer and makes sure that heat is uniformly distributed.

Proper insulation is provided

Technical details:

170 mm (approx) Height: 22 mm (approx)

Dia 100 mm, sandwiched between copper plates

Ceramic Wool:

Made of Aluminum for water circulation

RTD PT100 type (6 Nos.)

Digital Voltmeter: 0300 Volt

Digital Ammeter: 02 Amp

Varian: 0230 V, 2 A

Digital Temperature Indicator: 0199.9° C, with multichannel switch

On/Off switch, Mains Indicator etc.

Valves are provided for drain, charging& overflow line to make system flexible

Fin material:

Heater

Insulation

Cooling chamber

Temperature Sensors

Control panel

Thermal Conductivity for liquid

MS Cabinet to accommodate the slab assembly

Powder coated base plate