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Product Name :
Heat Conduction In Gases and Liquids

Product Code :
LBNY-0005-12500046



Description :

The medium for the experiment is fed through a gap. The gap between the two elements was selected so that the transfer of heat due to convection can be ignored. It comprises a cylindrical heat exchanger with a heated inner cylinder made of aluminium and a water-cooled jacket. Due to the low temperatures and the polished surfaces, the radiation portion of the heat transfer is also negligible. This experimental unit enables experiments to be performed on steady-state thermal conduction in liquid and gaseous materials. Temperature sensors measure the temperature difference.

Technical Specification :

Experimental media water, oil, air
Radiation portion of heat transfer negligible due to low temperatures and polished surfaces
Study of the heat conduction of gases and liquids
Experiments in annular gap formed by 2 concentric cylinders
Measuring amplifier with digital displays for temperature difference and heater power and control elements
Adjustable electric heater
Manual valves for flow rate adjustment (cooling water, medium to be investigated).



Laboratory Instrument India

