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Product Name :
Radial Heat Conduction Experiment

Product Code :
LBNY-0005-1120005



Description :

The electric heater and thermocouples connect to sockets on the Heat Transfer Experiments Base Unit, which also supplies the cold water feed and drain for the heat sink. Students turn on the cooling water flow and adjust the heater power until the experiment reaches equilibrium. This experiment has a solid brass disc with an electric heater at its centre and a circular cross section cooling tube around its circumference. At equally spaced radii on the disc, seven thermocouples measure the temperature as the heat conducts radially outwards from the heater. Insulation around the disc reduces heat loss by convection and radiation, so that the results should match the theory for simple radial conduction only. It mounts on a base plate with a clear schematic of the experiment layout.

Technical Specification :

Packed dimensions and Weight: 0.03m³, 8k
Nett dimensions and weights: 390 mm x 280 mm x 170 mm high and 5.3 kg.



Laboratory Instrument India