



THE LAB EQUIPMENT

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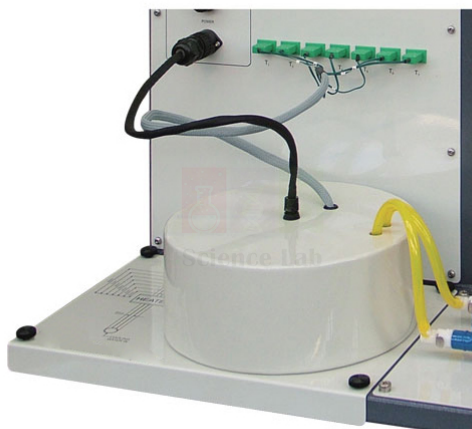
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**Product Name :**

Radial Heat Conduction Experiment

**Product Code :**

SLE/EA/25



## Description :

- This experiment has a solid brass disc with an electric heater (heat source) at its centre and a circular crosssection cooling tube (heat sink) around its circumference.
- It mounts on a base plate with a clear schematic of the experiment layout.
- The electric heater and thermocouples connect to sockets on the Heat Transfer Experiments Base Unit.
- 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.
- 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.

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