

## SEARLE'S THERMAL CONDUCTIVITY APP



**Product Categories:** [Heat And Thermodynamics](#), [Physics Equipments](#)

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**Product Page:**

<https://www.labappara.com/product/searles-thermal-conductivity-app/>

### Product Description

SEARLE'S THERMAL CONDUCTIVITY APPARATUS - Physics Equipment

**Searle's thermal conductivity apparatus:** it consist of a copper rod 30 x 2. 5 cms dia with its one end surrounded with a steam jacket for heating it from a boiler and the other end is kept cool by a steam of water flowing throughout a spiral tube fitted on that end fitted in a well polished teak wood case w/o thermometer and boiler.

This apparatus is used to find the thermal conductivity of good conductors.

Its importance in the field of thermodynamics that cannot be understated

The apparatus consists of a cylindrical Copper pipe.

One end of the rod is surrounded by a steam jacket, for heating the rod using a boiler, and the other end is kept cool using a spiral tube through which a constant stream of water is made to flow.

The Copper pipe has tubes for inserting thermometers.

The apparatus is fitted in wooden case lined with felt for thermal insulation.

The front portion of the case is hinged which can be opened for demonstration.

Supplied without thermometers and steam boiler.

30 cm x 1.8 cm copper rod.

30 cm x 2.5 cm copper rod.