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Product Name :

Radiation Kit

Product Code :

SLE/H/10



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Description :

Radiation Kit (Product Code: SLE/H/10) is a complete set-up for examining how light and dark surfaces absorb heat from a lamp. It pairs a 6-oz black metal can with a 6-oz shiny metal can, adds two insulating lids and two thermometers, and includes a clamp lamp with reflector as the radiant source, plus instructions. Because nothing else has to be sourced, it is a straightforward radiation experiment kit in India for schools that want the lesson ready out of the box. It is madeby **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Purpose	Examining heat absorption of light versus dark surfaces
Cans	6-oz black metal can and 6-oz shiny metal can
Lids	2 insulating lids
Thermometers	2, range –20 to 50° C
Radiant source	110-V AC clamp lamp with reflector
Documentation	Instructions included

Typical Use

Fill both cans with the same volume of cool water, fit the insulating lids and push a thermometer through each so the bulb sits in the water. Clamp the lamp so its reflector points midway between the cans at equal distance, switch it on and read both thermometers at fixed intervals. The black can’s temperature climbs noticeably faster than the shiny can’s, giving a clear data set on absorption that students can graph and compare.

After the lamp is switched off, keep recording to see which can cools faster, which extends the lesson from absorption to emission. The thermometers read from –20 to 50° C, so start with water well below the top of that range and do not let the lamp run so long that readings go past 50° C. Let the lamp cool before unclamping it. The kit suits middle and secondary school practicals and makes a tidy addition to any science lab kit for heat and energy.

Manufacturer

Jain Scientific Equipments Private Limited assembles this kit under the ScienceLab brand at its Ambala, Haryana operation, which serves schools, colleges and distributors in India and international markets. Company details are available on the ScienceLab profile.

Related Laboratory Equipment

Apparatus that fits the same radiation unit:

- Radiation Can Set — a black and bright tin pair for cooling-curve work with your own thermometers
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