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**Product Name :**

Radiation Can Set

**Product Code :**

SLE/H/04



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## Description :

**Radiation Can Set** (Product Code: SLE/H/04) is a pair of cans that are identical in every way except colour — one black, the other bright tin — for studying absorption, emission and Newton's law of cooling. Because shape and size match, any difference in how fast the water inside warms or cools is due to the surface alone. It works as a simple Newton law of cooling apparatus for college physics and as school physics lab equipment in India, and is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

### Specifications

| Parameter | Detail |
|---|---|
| Contents | Two cans, identical except for colour |
| Finishes | One black can, one bright tin can |
| Thermometer access | Hole at the top of each can for inserting a thermometer |
| Studies | Absorption, emission and Newton's law of cooling |
| Needed, not included | Thermometer |

### Typical Use

For an emission (cooling) experiment, fill both cans with equally hot water, insert a thermometer through the hole at the top of each and record the temperatures at regular intervals. The black can loses heat faster, and plotting temperature against time gives cooling curves that students can compare against Newton's law of cooling. For absorption, start both cans with cold water and place them the same distance from a lamp or in direct sunlight; the black can warms up more quickly than the bright tin one.

Running both experiments with the same pair of cans shows learners that a good absorber is also a good emitter — a result that links to solar water heaters, cooking pots and the colour of clothing in hot climates. Use equal volumes of water, keep both cans on the same insulating surface and away from draughts, and time readings with a stop clock. The set is an economical radiation experiment kit for India's schools that already stock thermometers.

### Manufacturer

Jain Scientific Equipments Private Limited, registered under CIN U29309HR2020PTC087597, trades as ScienceLab from Ambala, Haryana. Its physics apparatus is produced at the licensed factory at 449, HSIIDC Industrial Area, Saha, Ambala, operating under Factory Licence AMB-ONLINE-CHD-J-414, and supplied to institutions in India and international markets. Read the company profile for more detail.

### Related Laboratory Equipment

Complete the radiation and cooling practical with:

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