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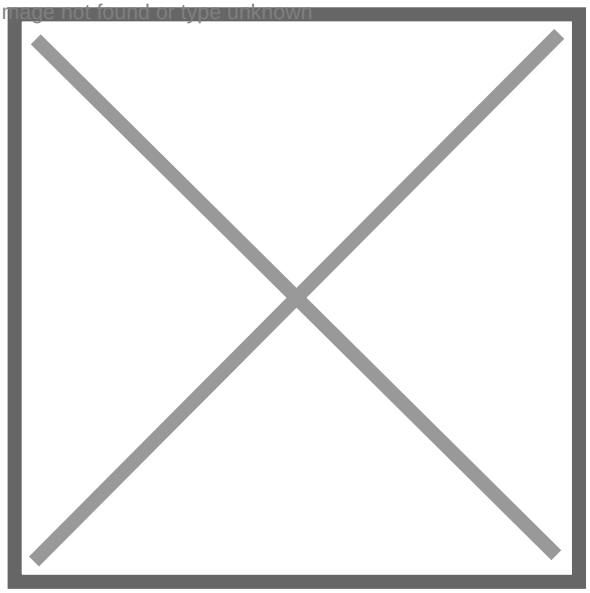
Product Name :

Solar Furnace

Product Code :

SCI-174/024

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Description :

Solar Furnace (Product Code: SCI-174/024) is a parabolic-mirror demonstration apparatus used to show the high temperatures that concentrated sunlight can produce, as an alternative method of heating, in school and college science labs. A 305 mm diameter aluminised mirror focuses sunlight onto a matt black copper receiver that can rapidly boil water in clear sunlight. The apparatus is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Mirror	Rear-aluminised parabolic mirror
Mirror diameter	305 mm
Focal length	185 mm
Receiver	Matt black copper receiver vessel, carried on an arm at the focal point
Performance	In clear sunlight, rapidly boils water or melts many fusible substances placed in the receiver
Supplied as	Self-assembly form, with stand and full assembly/operating notes
Product code	SCI-174/024
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is a Solar Furnace Used For?

A solar furnace makes the power of concentrated sunlight visible. The parabolic mirror collects light over its whole face and reflects it to a single focal point, where the matt black copper receiver absorbs it and passes the heat to whatever is inside. Students can time how long a measured amount of water takes to boil, or watch low-melting substances turn liquid, and compare the result with ordinary heating methods.

Set the furnace up outdoors on a clear day and turn the mirror so it faces the sun squarely, adjusting it as the sun moves. The focal region becomes very hot: never look into the mirror or the reflected beam, keep hands and paper away from the focus, and handle the receiver with tongs or heat-resistant gloves. It pairs naturally with a solar energy science kit when teaching both the heating and electrical uses of sunlight.

Supplier

Jain Scientific Equipments Private Limited, known to buyers as ScienceLab, supplies this solar furnace from Ambala, Haryana, India, in self-assembly form with its stand and notes. Schools, colleges, dealers and importers in India and international markets can raise questions about assembly, extra units for a second lab or replacement parts with us when they enquire. Visit our profile.

Rela

Teac

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