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Product Name :

Solar Thermal Energy Ready-To-Go

Product Code :

SLE/PHY/225



Science Lab

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Description :

Solar Thermal Energy Ready-To-Go (Product Code: SLE/PHY/225) is a complete, case-packed experiment system used to teach the different technologies of solar thermal energy conversion in school and college physics classes. Teachers use it to compare solar collectors run with or without a pump, concentrated solar power (CSP) and direct generation of electricity with a Peltier element. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, as a solar energy science kit that needs no additional equipment.

Specifications

Parameter	Detail
Product line	Ready-to-go (fully equipped, location-independent use)
Technologies covered	Solar collector systems operated with or without pumps; CSP (Concentrated Solar Power); Peltier element for direct transformation into electrical energy
Thermodynamics basics	Absorption of heat radiation; convective flow of heat
Light source	Illuminant 120W, 12°, with lamp housing
Measuring items	2 x digital multimeter, 1 x laboratory thermometer, 1 x temperature measuring sensor
Storage	Aluminium case "Thermal Energy RtG" with insert
Product code	SLE/PHY/225
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

List of components in the set:

- 1 x Solar-Base unit Large
- 1 x Solar collector
- 1 x Parabolic reflector
- 1 x Absorber tube
- 1 x Lens module and 1 x Absorber module for lens
- 1 x Hose-set and 1 x Pump module
- 1 x Power Module
- 1 x Motor module without gear and 1 x Propeller
- 1 x Lamp housing and 1 x Illuminant 120W, 12°
- 1 x Absorber B/W
- 1 x Peltier module
- 1 x Heat exchanger water and 1 x Heat exchanger paraffin
- 2 x Digital multimeter
- 1 x Laboratory thermometer and 1 x Temperature measuring sensor
- 1 x Cooling pad
- 2 x Sorting rubber d=65, mark P
- 1 x Beaker 250 ml
- 1 x Solar-CD
- 2 x Test lead black 50 cm and 2 x Test lead red 50 cm
- 1 x Aluminium case "Thermal Energy RtG" and 1 x Insert "Thermal Energy Ready-to-go"

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