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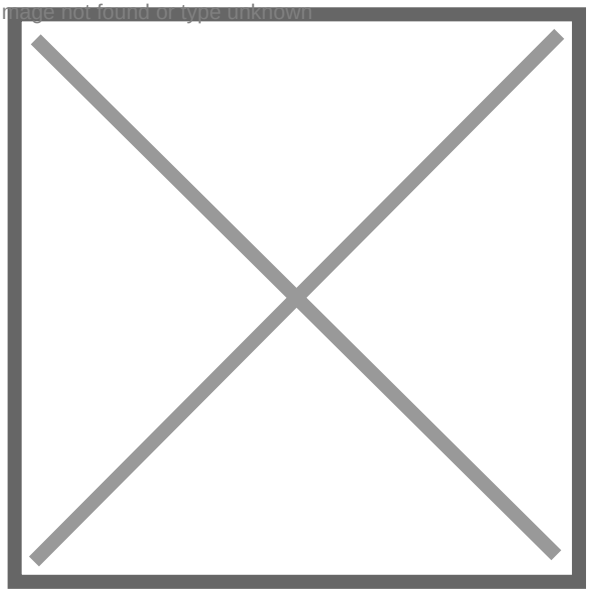
Product Name :

Crookes Radiometer

Product Code :

SCI-319/013

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Description :

Crookes Radiometer (Product Code: SCI-319/013) is a partly evacuated glass bulb containing a light-driven rotor, used to demonstrate how radiant energy can be turned into motion in schooland college physics classes. Its four mica vanes, each matt black on one side and white on theother, spin when sunlight or a bright incandescent lamp falls on the 80 mm bulb. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Bulb	Partly exhausted glass bulb, 80 mm diameter
Rotor	Delicately balanced, carrying a set of four mica vanes
Vane size	5 mm square
Vane finish	One side matt black, the other side white
Light needed	Sunlight or a sufficiently bright incandescent light source
Behaviour	Vanes rotate with the white faces in front; very rapid rotation in direct sunlight
Overall height	125 mm
Product code	SCI-319/013
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is a Crookes Radiometer Used For?

The Crookes radiometer is a classic demonstration model for the physics lab, used when teaching thermal radiation, absorption by dark and light surfaces, and the kinetic theory of gases. The blackened face of each vane absorbs more energy and warms slightly, and air molecules rebounding from the warmer side give it a little extra push, so the rotor turns with its white faces in front.

Show students how the speed changes as the lamp moves closer or further away, or when a sheet of card shades the bulb. The direction of spin is itself a lesson: pure light pressure would push the reflective white faces hardest, so the observed rotation points to a thermal effect of the remaining gas. Handle the bulb gently and keep it upright, because the rotor is delicately balanced.

OEM Manufacturer

ScienceLab is the trading name of Jain Scientific Equipments Private Limited (CIN U29309HR2020PTC087597), the OEM (original equipment manufacturer) of this Crookes Radiometer. It is produced at the company's licensed factory at 449, HSIIDC Industrial Area Saha
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