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Product Name :

Kinetic Theory Model

Product Code :

SLE/PHY/196



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Description :

Kinetic Theory Model (Product Code: SLE/PHY/196) is a large demonstration model used to show how the constant random motion of particles explains the behaviour of gases in school physics and chemistry classrooms. Run from a 6V AC supply, it keeps the included polystyrene balls in motion so a whole class can watch the “molecules” collide and spread out. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Type	Large demonstration model
Power	6V AC
Particles	Polystyrene balls, included
Topic	Kinetic theory of matter and gas behaviour
Product code	SLE/PHY/196
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Kinetic Theory Model Used For?

The model turns an invisible idea into something students can watch. The polystyrene balls stand in for gas molecules, and their movement shows why a gas spreads to fill its container, why it pushes on the walls through countless collisions, and why diffusion happens without any stirring. The discussion can then move on to how faster particle motion corresponds to a higher temperature and a higher pressure.

As a demonstration model for the physics lab, it works best at the front of the room before students take readings with pressure gauges and thermometers. Power it from a low-voltage laboratory unit with a 6V AC output, never directly from the mains, and switch off before handling the balls. Polystyrene is very light and can cling through static, so keep the balls together in a closed bag between lessons.

What to Specify When Ordering

- The number of models required for your classrooms or science department
- Whether you already have a low-voltage supply with a 6V AC output, or want one quoted
- Any extra polystyrene balls you would like to keep in reserve (ask us)

OEM Manufacturer

ScienceLab is the trading name of Jain Scientific Equipments Private Limited, the OEM (original equipment manufacturer) of this kinetic theory model. It is made at the company’s own licensed factor
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