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Product Name :

Convection of Gas Apparatus

Product Code :

SLE/H/08



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Description :

Convection of Gas Apparatus (Product Code: SLE/H/08) is used to study convection currents in air. It consists of a metal box measuring 9" W × 4" D × 4" H with a removable glass front and 2 chimneys, supplied with touch paper and instructions. Smoke from the touch paper traces the moving air so students can actually watch warm air rise and cool air sink to replace it. A dependable piece of junior science lab equipment, it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Purpose	Studying convection currents in air
Body	Metal box, 9" W × 4" D × 4" H
Front	Removable glass front
Chimneys	2
Supplied with	Touch paper and instructions

Typical Use

Slide out the glass front, stand a small lit candle (not listed among the contents) beneath one chimney and refit the glass. Light a piece of touch paper, blow it out so it smoulders, and hold it just above the second chimney. The smoke is drawn down that chimney, travels across the box and rises out through the chimney above the flame, drawing a visible loop of circulating air. The glass front lets the whole class follow the smoke path inside the box.

The demonstration explains everyday effects such as sea breezes, room ventilation, chimney draught and why heaters are placed low and air-conditioners high. Ask students to predict what will happen if the candle is moved under the other chimney, then test it. Carry out the activity in a well-ventilated room with a heat-resistant mat under the box, and let the metal cool before handling. It suits middle-school science lessons as well as introductory physics, and belongs in any educational laboratory equipment set in India covering the three modes of heat transfer.

Manufacturer

This apparatus is built by Jain Scientific Equipments Private Limited, which trades as ScienceLab from Ambala, Haryana. The company is a registered MSME (Udyam UDYAM-HR-01-0003714), and its export orders move under Importer-Exporter Code AAECJ8618A issued by DGFT, serving buyers in India and international markets. Learn more on the company profile.

Related Laboratory Equipment

Pair this with apparatus for the other modes of heat transfer:

- Apparatus Convection In Liquid — shows the same principle in water.
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