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Product Name :

Apparatus Convection In Liquid

Product Code :

SLE/PHY/08



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Description :

Apparatus Convection In Liquid (Product Code: SLE/PHY/08) is a rectangular loop of glass tubing used to show convection currents circulating in water in school and college physics and science classes. The 350 × 210 mm rectangle is made from 22 mm glass tubing, so a few potassium permanganate crystals trace the moving water clearly when one lower corner is gently heated. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Form	Rectangle of glass tubing
Size	350 × 210 mm
Tubing	22 mm glass tubing
Operation	Convection currents generated by gently heating one of the lower corners
Indicator	A small amount of potassium permanganate (VII) crystals dropped into the tube
Mounting in use	Mounted vertically in a retort stand
Product code	SLE/PHY/08
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Convection Tube Used For?

Fill the rectangle with water, clamp it upright in a retort stand and drop a few potassium permanganate crystals into the tube. When a small flame warms one lower corner, the heated water expands, becomes less dense and rises up that side, while cooler water sinks down the opposite side to replace it, and the purple colour shows the whole loop circulating. The demonstration links directly to sea breezes, hot-water systems and the way a pan of water heats from the bottom.

Use only a gentle flame on one corner, never the whole base, so that a single clear current forms. Warm the glass gradually to avoid thermal shock, use just a few crystals so the colour stays traceable, and let the water cool before emptying and rinsing the tube. It gives any heat energy science kit a vivid, reusable convection demonstration for middle and secondary classes.

OEM Manufacturer

The Apparatus Convection In Liquid is produced by **Jain Scientific Equipments Private Limited** , better known by its trading name ScienceLab, which acts as the OEM (original equipment manu licens colleg ht to the m