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Product Name :

Flow Visualisation

Product Code :

SLE/EA/07



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Description :

Flow Visualisation (Product Code: SLE/EA/07) is a smoke-tunnel set used to make air-flow patterns visible for teaching aerodynamics and fluid mechanics in engineering laboratories and demonstration rooms. The listed set brings together a smoke generator, a three-piece smoke tunnel duct including the working section, a CO2 gas bottle with bracket, pipe and exhaust duct and 2.5 litres of smoke oil, at 37 kg total net weight, and it runs on either 100–120 VAC or 220–240 VAC. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Electrical supply	100–120 VAC, 50–60 Hz or 220–240 VAC, 50–60 Hz
Smoke generator	410 x 180 x 370 mm; 14 kg
CO2 gas bottle and bracket	7.5 kg
Smoke tunnel duct	Three pieces including working section; 10.5 kg
Pipe and exhaust duct	2.5 kg
Smoke oil	2.5 litre
Total net weight	37 kg
Packed (approx.)	0.32 m³; 42 kg
Storage temperature	–25 °C to +55 °C
Operating temperature	+5 °C to +40 °C
Operating relative humidity	80% at temperatures below 31 °C, decreasing linearly to 50% at 40 °C
Product code	SLE/EA/07
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Flow Visualisation Smoke Tunnel Used For?

The smoke generator produces a fine visible smoke that is carried into the tunnel duct and through the working section, where it traces the path of the air around a model or through a passage. Students can see streamlines bunch together where flow speeds up, spread where it slows, and break into eddies behind blunt shapes — ideas that are hard to grasp from equations alone. Spent smoke is led away through the pipe and exhaust duct.

Because the duct comes in three pieces and the whole set weighs 37 kg net, it can be stored compactly and assembled on a bench when needed, and the choice of 100–120 V or 220–240 V suppl y limits ion point.