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Product Name :

Flow Visualisation

Product Code :

SLE/EA/07



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Description :

Flow Visualisation is a smoke-tunnel set that makes air-flow patterns visible for aerodynamics and fluid mechanics teaching. It combines a smoke generator, a three-piece tunnel duct with its working section, a CO2 gas bottle with bracket, a pipe and exhaust duct, and 2.5 litres of smoke oil. The set weighs 37 kg net and runs on 100–120 VAC or 220–240 VAC.

Flow Visualisation set contents and ratings

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
Weight	37 kg net; packed about 0.32 m³ and 42 kg
Operating conditions	+5 °C to +40 °C; relative humidity 80% below 31 °C, falling linearly to 50% at 40 °C
Storage temperature	–25 °C to +55 °C
Product code	SLE/EA/07
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Smoke studies with the tunnel set

Speed from line spacing. Pass smoke through the working section around a streamlined shape. Where the smoke lines crowd together the air moves faster, and where they spread out it slows down. Students who have measured pressures on the Bernoulli's Theorem Demonstration module can now see the same speed changes in air.

Making a jet visible. Lead smoke into the Effect And Jet Flow module mounted on the Modular Air Flow Bench. The class then sees the jet bend onto the wall and flip between walls, and the bench's flexible ducting carries the spent smoke away.

Setti the pipe befo d store

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