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Product Name :

Flow Visualisation Wind Tunnel

Product Code :

SLE/EA/03



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Description :

Flow Visualisation Wind Tunnel (Product Code: SLE/EA/03) is a vertical, suction-type smoke wind tunnel used to show how air flows around differently shaped models during demonstrations and student investigations in aerodynamics and fluid mechanics laboratories. Its distinguishing feature is a smoke comb below the lit, transparent working section, fed by a generator that vaporises food-grade oil, with air flowing vertically upwards. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Tunnel type	Vertical, suction type; air flow vertically upwards
Fan	Variable speed, mounted on top of the tunnel
Controls	Control unit on the frame for fan speed
Smoke source	Smoke generator vaporising food-grade oil; smoke is non-toxic
Smoke comb	Mounted below the working section; can be moved from side to side
Working section	Transparent, removable front wall; optional models attach to the back of the working section
Lighting	Lamps illuminate the working section from both sides
Flow conditioning	Filter helps provide uniform air flow
Frame	Metal frame fitted with castors for mobility
Product code	SLE/EA/03
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Flow Visualisation Wind Tunnel Used For?

Smoke released from the comb forms thin, parallel filaments that rise through the working section and bend around whatever model is fixed there. A class can watch the streamlines stay attached to a streamlined shape, break away behind a flat plate or cylinder, and roll up into a wake. Moving the comb from side to side lets students trace the flow over the top, middle or edge of a model, and changing fan speed shows how the pattern alters as velocity rises.

The removable front wall makes swapping models quick between demonstrations, and the lamps on both sides make the smoke easy to see, even for a group standing back from the tunnel. Dim the room lights for the clearest view, keep the smoke generator topped up with the correct oil, and wheel the tunnel to a store area on its castors after use.

What to Specify When Ordering

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