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**Product Name :**

Modular Air Flow Bench

**Product Code :**

SLE/EA/01



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## Description :

Modular Air Flow Bench is a small-scale wind tunnel base unit that suppliescontrolled air to interchangeable experiment modules. An electric fan on a steelframe feeds air through a flow-control valve into a plenum chamber and a shapedcontraction, where each module fits. One bench serves eight different modules, andquick-release pressure couplings make changeovers fast.

## Modular Air Flow Bench design

| Parameter | Detail |
|---|---|
| Type | Small-scale wind tunnel with electric fan and adjustable airflow control |
| Experiment modules served | Base unit for eight different air-flow modules |
| Frame | Steel framework carrying the fan |
| Air path | Fan, flow-control valve, plenum chamber and aerodynamically shaped contraction |
| Module mounting | Each module fits either the plenum chamber or the contraction |
| Exhaust | Air leaves the module through the bench top to an exhaust at the rear |
| Pressure connections | Quick-release couplings |
| Smoke experiments | Flexible ducting can be fitted to the exhaust to lead waste smoke away |
| Storage | Shelves for modules not in use; compact bench, easy to move and store |
| Product code | SLE/EA/01 |
| Minimum order | 10 units |
| Dispatch | Usually within 7 to 10 working days |
| Manufacturer | ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India |

## Running air-flow practicals on the bench

Jet studies. Fit a jet experiment such as the Effect And Jet Flow module, once its fit with the bench has been confirmed. Open the flow-control valve gradually and record how the jet behaves at each setting. Air is invisible, so add smoke when the class needs to see the jet.

Pressure readings. Connect the module's tappings through the quick-release couplings to a U tube manometer. After each valve change, wait until the liquid levels stop so runs

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