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Product Name :

Modular Air Flow Bench

Product Code :

SLE/EA/01



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Description :

Modular Air Flow Bench (Product Code: SLE/EA/01) is a small-scale wind tunnel base unit used to supply controlled air to interchangeable experiment modules for teaching the principles of air flow in fluid mechanics and aerodynamics laboratories. Lecturers and technicians value it as the common base for eight different experiment modules, with quick-release pressure couplings that make changing from one experiment to the next simple and quick. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of engineering lab equipment inIndia, at its own factory in Ambala.

Key Details

Parameter	Detail
Type	Small-scale wind tunnel with electric fan and adjustable air flow control
Experiment modules served	Base unit for eight different modules demonstrating key air-flow principles and phenomena
Frame	Sturdy steel framework carrying the fan
Air path	Fan supplies air through a flow-control valve to a specially designed plenum chamber and an aerodynamically shaped contraction
Module mounting	Each module fits either the plenum chamber or the contraction
Exhaust	Air leaves the module through the bench top and emerges at an exhaust at the rear
Pressure connections	Quick-release couplings
Smoke experiments	Flexible ducting can be fitted to the exhaust to direct waste smoke safely away
Storage	Shelves and storage space for modules not in use
Format	Compact bench, easy to move and store
Product code	SLE/EA/01
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Air Flow Bench Used For?

The bench provides one steady, adjustable air source so that a department can run a whole series of air-flow practicals without buying a separate fan and ducting for each. A module is fitted to the plenum chamber or the contraction, its pressure points are connected through the quick-release couplings, and the flow-control valve sets the air supply for the test. Topics such as jet behaviour, flow through and around shaped bodies and pressure measurement can then be covered one module after another in the same session.

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