Email : sales@scilabexport.com
Phone: +91-7082934803

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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