Phone: +91-9896600003
Email : sales@naugralabequipments.com

Product Name :	**Product Code :**
Subsonic Wind Tunnel	NLAB-MECHANICALAB230032

Description :

Subsonic Wind Tunnel

Technical Specification :

The developed module is a small wind tunnel designed for bench top operation. Air is drawn through the working section by a variable speed fan at the discharge end of the tunnel. A honeycomb flow straightener is incorporated at the inlet, and a 9.4:1 contraction ratio ensures well-developed airflow through the working section. The working section is fabricated from clear acrylic to give good visibility of the models, and appropriate model connection points are included in the sidewall and roof of the working section.

A unique feature of the working section is that its entire base is removable to allow

The insertion of large or complex models such as the Bernoulli Apparatus, Boundary Layer Plate or alternative models constructed by the user.

Subsonic Wind Tunnel

FEATURES

Computer controlled air flow

150mm (6” nominal) square working section

Transparent working section for visibility

Wide range of models for both aerodynamics and air flow studies

Choice of water or electronic manometer banks

Quick release connectors on manometer tubes and quick release fastenings for easy model changing

Simple flow visualization technique incorporated

SPECIFICATION

Square test section, nominally 150 x 150mm,length 455 mm

Air velocity in the test section variable from 0 to 34m/s (note: some models can only be used at lower velocity)

Profiled inlet with a 9.4:1 (nominal) contraction ratio

Tube length: 320mm

Inclination: 30°

Measurement range 0-160 mm H2O

16 channels 0-178 mm H2O (differential)

Lift force 3.4N at model

Drag force 3.4N at model

Inclination +/- 45°

Aero foil NACA 0015

Cord length 61.5mm

Thickness 9.2mm

Equatorial diameters:

Large models 50mm

Golf ball and small sphere 43mm

Cylinder diameter 30mm

Tapping spacing 20°

Throat width 100mm

Upstream/downstream width 150mm

Naugralabequipments

Website: www.naugralabequipments.com, **Email:** sales@naugralabequipments.com

Address: 6148/6, Guru Nanak Marg,Ambala Cantt,Haryana,India. **Phone:** +91-9896600003