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**Product Name :**  
Bench Top Wind Tunnel

**Product Code :**  
LBNY-0005-1370008



#### **Description :**

A bench-mounting metal frame holds all parts of the wind tunnel in one compact unit. Air enters the tunnel through an aerodynamically designed effuser and honeycomb flow straightener that accelerates the air linearly. The Bench-Top Wind Tunnel offers a complete system ready for aerodynamic experimentation. It uses an electronic force sensor to measure the lift or drag forces on models fitted to the Working Section. It has a clear digital display giving a direct reading of the measured force value, for real-time data collection. It then enters the working section and passes through a grille before moving through a diffuser and then to a variable-speed fan. The grille protects the fan from damage by loose objects. A range of models and all necessary instrumentation are included to provide accurate results, suitable for undergraduate study and research projects. Pitot tubes attach to the working section and connect to a liquid manometer so students can analyse pressure at different positions and calculate air speed. It supplies a two-component balance with the Wind Tunnel. A controller with an electronic drive allows the user to vary the fan speed accurately from zero to full speed. The electronic drive keeps the chosen speed constant. The air leaves the fan, passes up through a silencer unit and then back out to atmosphere.

#### **Features:**

- Selection of models included for studies of drag and pressure profiles
- Transparent Working Section for a full view of the test area
- Electronic controller for variable air velocity
- Compact, open-circuit suction design
- Saves time and money compared to full-scale wind-tunnels or airborne laboratories
- Two-component balance with digital display for lift and drag measurement.

#### **Technical Specification :**

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Maximum Air Velocity: 35 m.s-1

Working Section: 125 mm x 125 mm .

Nett Dimensions (assembled): 1850 mm long x 560 mm wide x1040 mm high and 80 kg.



**Laboratory Instrument India**