

**Product Name :**  
Subsonic Wind Tunnel**Product Code :**  
ALABS-A43-072**Description :****Subsonic Wind Tunnel**

Self-contained wind tunnel for the study of subsonic aerodynamics, complete with two- component balance system and air speed indicator

• Special features:

- Contraction and Diffuser: precision glass fibre mouldings
- Test Section: clear acrylic, which retracts to permit access to the models.
- Adjustment of models can be made with the tunnel in operation.
- Fan: Variable speed motor driven unit downstream of the working section permitting stepless control of airspeed between 0 and 26ms<sup>-1</sup>
- Balance: Lift and drag Lift
- 7.0N, Drag
- 2.5N, Sensitivity  $\pm 0.01N$
- Air speed: Indicated on inclined manometer directly calibrated in m/s

- Support structure: A strong steel frame including working surface and fitted with castors for easy movement
- Suitable for undergraduate and simple research work.
- Working section: 304mm wide x 304mm high x 457mm long (octagonal cross- section)
- Contraction area ratio: 3:1
- Motor rating: 1.5kW
- A user instruction manual is supplied
- Optional models and instrumentation allow:
  - Investigation of the development of the boundary layer on a flat plate by measurement of total head distribution
  - Flow visualisation studies around an aerofoil
  - Measurement of pressure distribution around an aerofoil at various angles of attack or around a cylinder
  - Measurement of lift and drag on an aerofoil with leading edge slot and trailing edge flap
  - Velocity and pressure distribution measurements using a pitot static tube and yaw probe
  - Measurement of drag for models of different shapes but common equatorial diameter
  - Demonstration of flutter of an aerofoil
  - Calibration of the wind tunnel velocity indicator using a pitot static tube
  - Investigation of the wake behind a cylinder or aerofoil using a wake survey rake



## Equipments Exporters

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