

Product Name :
Wind Tunnel for engineering schools

Product Code :
FCA001



Description :

Wind Tunnel, technical teaching equipment for engineering

“WIND TUNNEL” has been developed to perform various experiments of aerodynamics and fluid flow. This is an open circuit Wind Tunnel that provides a region of controlled air flow into which models can be fitted at downstream of working section. The Tunnel consists of a bell mouth shaped entry to guide the air smoothly into a settling chamber and stabilizes the air flow. This is followed by a working section for a test section where various models can be tested. The test section with an acrylic sheet will be provided for visual observation. The working section is followed by a diffuser section which reduces the dynamic pressure at the exit. A fan coupled with a motor is used to produce the desired wind velocity.

Experimentation:

- To plot speed curve for wind tunnel.
- To study pressure distribution around (A) aerofoil (B) Cylinder (C) Sphere.
- To measure lift and drag on an aerofoil model.
- To study the development of boundary layer along a plate in Tunnel.

Utilities Required :

- Electricity Supply : 3Phase, 440V AC, 3 KW
- Floor Area 10 x 3.5 m

Technical Details :

- Variable Speed Model : 3HP Crompton make motor with Speed Controller
- Fixed Speed Model : 3HP Crompton make motor
- Type : Open Type Wind Tunnel.
- Test Section : 250 x 250 x 1000 mm.
- Blower : Compatible Capacity
- Air Velocity : Maximum 30 m/s (in Test Section).
- Digital Force Indicator : For Lift and Drag force
- Multiple Manometer : 0-40° inclination with vertical axis.
- U Tube Manometer : Length 500 mm.
- Inclined manometer : 300 mm
- Pitot Static Tube : For Velocity Measurement

Technical Specification :

Wind Tunnel

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