

WIND TUNNEL



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Instrument**

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INSTRUMENTS

AERODYNAMIC LAB INSTRUMENTS

Subsonic Wind Tunnel

Supersonic Wind Tunnel

Transonic Wind Tunnel

Hypersonic Wind Tunnel

Closed Wind Tunnel

Small Wind Tunnel

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AERODYNAMIC LAB EQUIPMENT

- **Subsonic Wind Tunnel (M < 8)**



- Subsonic wind tunnel is designed after taking all the requirements of customers by utilizing the top grade basic material and latest techniques. Apart from this, we check this wind tunnel on various parameters to make certain their quality. Our customers can take this wind tunnel at pocket friendly rates.
- **Specifications:**

Cross Sectional Area in mm	150 x 150	300 x 300	450 x 450	600 x 600
Test Section In meter	0.5m	1m	1m	1m
Overall Length in meter	3m	4.5m	7.5m	10m
Air Velocity	30-50 m/s	30-50 m/s	30-50 m/s	30-50 m/s
Power required	5-10 HP	7.5-15 HP	10-20 HP	15-25 HP

- **Supersonic Wind Tunnel(1.2 < M <5.0)**



- Supersonic wind tunnel is designed after taking all the requirements of customers by utilizing the top grade basic material and latest techniques. Apart from this, we check this wind tunnel on various parameters to make certain their quality. Our customers can take this wind tunnel at pocket friendly rates.
- **Specifications:**

Cross Sectional Area in mm	150 x 150	300 x 300	450 x 450	600 x 600
Test Section In meter	0.5m	1m	1m	1m
Overall Length in meter	2.8 m	6.5 m	8.5 m	10 m
Air Velocity	40 m/s	40 m/s	40 m/s	40 m/s
Power required	5 HP	15 HP	25 HP	30 HP

- **Transonic Wind Tunnel(8 < M < 1.2)**



- Transonic wind tunnel is designed after taking all the requirements of customers by utilizing the top grade basic material and latest techniques. Apart from this, we check this wind tunnel on various parameters to make certain their quality. Our customers can take this wind tunnel at pocket friendly rates.
- **Specifications:**

Cross Sectional Area in mm	150 x 150	300 x 300	450 x 450	600 x 600
Test Section In meter	0.5m	1m	1m	1m
Overall Length in meter	2.8 m	6.5m	8.5 m	10 m
Air Velocity	40 m/s	40 m/s	40 m/s	40 m/s
Power required	5 HP	15 HP	25 HP	30 HP

- **Hypersonic Wind Tunnel(M >5.0)**



- Hypersonic wind tunnel is designed after taking all the requirements of customers by utilizing the top grade basic material and latest techniques. Apart from this, we check this wind tunnel on various parameters to make certain their quality. Our customers can take this wind tunnel at pocket friendly rates.
- **Specifications:**

Cross Sectional Area in mm	150 x 150	300 x 300	450 x 450	600 x 600
Test Section In meter	0.5m	1m	1m	1m
Overall Length in meter	5 m	7.5 m	9.5 m	12 m
Air Velocity	50 m/s	50 m/s	50 m/s	50 m/s
Power required	5 HP	20 HP	25 HP	30 HP

- **CLOSED WIND TUNNEL**



- **Specifications**

Wind Tunnel: 143.6 L x 49.3 W x 67.7 cm H (56.5 x 19.4 x 26.6")

Test Section: 41.8 L x 22.5 W x 8.9 cm H (16.4 x 8.9 x 3.5")

Number of Sensor Ports: 6

Flow Range: 0 to 7 m/s (0 to 1200 ft/min)

Flow Uniformity: $\pm 1\%$

Flow Accuracy: $\pm 2\%$

Temperature Range: Up to 85°C (185°F)

Temperature Accuracy: $\pm 1^\circ\text{C}$

Weight: 70.7 kg (156 lb)

Main AC Voltage: 220 Vac

Main AC Fuse: 20 Amps

Minimum Support Table Size: 115 L x 50 cm W (45.2 x 19.7")

- **SMALL WIND TUNNEL**



- **Featured**
 - * Wind tunnel with fog generator₁
 - * Various models included₁
 - * Illuminated experimental section with sight window₁
 - * Low-turbulence flow
- **Specification**
 - visualisation of streamlines flowing around and through different models
 - open wind tunnel with radial fan and a fog generator
 - operation with non-toxic and water-soluble fog fluid
 - illuminated experimental section with sight window and black background
 - low-turbulence flow through stabilisation chamber with flow straightener
 - distributor with nozzles for injecting the fog
 - four different models, angle of attack at aerofoil and guide vane adjustable
 - scale for displaying the angle of attack
- **Technical Data**
- **Experimental section**
 - transparent area: 252x252mm
 - cross section: 252x42mm
 - aerofoil pivotable by 360°
- **Models**
 - cylinder: Ø60x24,5mm
 - aerofoil: 15X24,5x100mm
 - guide vane: 20x24,5x100mm
 - orifice plate: 2x 25x24,5x10mm
- **Radial fan**
 - max. air flow: 480m³/h
 - max. pressure level: 300Pa
- **Fog generator**
 - power consumption: 700W

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