

Appendix - I

Technical Specification

Item : Wind Tunnel

Application: To study the flow stream lines, Flow separation, Drag -Lift estimations and heating and cooling characteristics over a body under the flow field.

1	Test Section	200×200 mm ² , Acrylic or plexyglass
2.	Test section Window	4 in number , Length = 400 mm each
2	Flow velocity	0-35 m/s (variable speed controller motor)
3	Blower flow rate	9000 m ³ /hr
4	Blower side Crossection	320×320 mm ²
5	Contraction ratio	6
6	Turbulence intensity and flow uniformity	0.5-2% (acceptable range)
7	Flow straightener and honeycomb	Before test section in the body
7	Heated air in test section (Replicable)	75°C , test section with 0.1 - 1° accuracy range
8	Diffuser	After test section
9	Pressure and velocity measurement	Digital pitot tube and manometer
10	Required models for study	Cylindrical, spherical and Aerofoil models.
19	Warranty	1 yr.(+2 yrs. (optional) to be included separately)

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