

CENTRIFUGAL BLOWER TEST RIG (EE-1550)

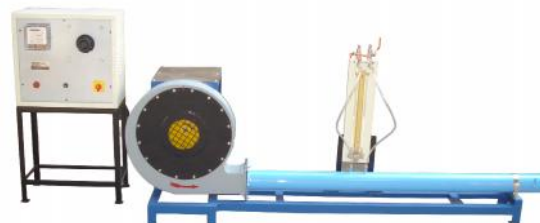
This equipment comprises of a FD Centrifugal Blower coupled to a Motor. Three interchangeable impellers with forward, backward and radial vanes are provided with the test rig. A Pitot Tube is provided in the delivery line of blower for static and dynamic pressure measurement.

EXPERIMENTATION:

- To study the effect of forward curved, back curved and radial curved impeller
- To find out the discharge, head and efficiency of the Centrifugal Blower.
- To plot the graph Efficiency Vs Discharge
- To plot the graph Discharge Vs Head

UTILITIES REQUIRED:

- Electricity 1 KW, 220V AC, Single Phase.
- Floor Area: 2.5 x 0.75 m.



TECHNICAL DETAILS:

Motor (Variable Speed)	:	DC motor with Thyristor controlled DC Drive for variable speed
Blower	:	Centrifugal, Forced Draft Type
Impeller (3 Nos.)	:	Forward Curved, Backward Curved & Radial Curved
Pitot Tube (with manometer)	:	For Static, Dynamic & Differential Pressure measurement
Stop watch	:	Electronic
Control Panel Comprises of	:	Standard make On/Off Switch, Mains Indicator, etc.
Energy measurement	:	Energy meter
RPM measurement	:	Digital RPM Indicator with Proximity sensor.
Instruction Manual	:	An ENGLISH instruction manual will be provided along with the Apparatus