



DESCRIPTION:

- This equipment comprises of a FD Centrifugal Fan 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 (Variable Speed)
 - Power input to the AC Motor is varied by means of a Variable frequency Drive to vary the RPM of motor.

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:

- Drive : AC motor, 1 HP with AC Drive
- 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
- Standard make On/Off Switch, Mains Indicator, etc.
- Energy measurement : Electronic Energy meter
- RPM measurement : Digital RPM Indicator with Proximity sensor.
- MCB : For overload protection.
- Instruction Manual : An ENGLISH instruction manual will be provided along with the Apparatus.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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