

Product Name :
Centrifugal Blower Test Rig for engineering schools

Product Code :
ACTR003



Description :

Centrifugal Blower Test Rig for engineering schools

Technical Specification :

Centrifugal Blower Test Rig, technical teaching equipment for engineering

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.

FOR (Variable Speed)

Power

input to the DC Motor is varied by means of a Thyristor controlled DC Drive to vary the RPM of motor. A RPM Indicator with Proximity sensor indicates the RPM of Blower.

FOR (Fixed Speed)

AC motor is provided with MCB for overload protection.

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:

FOR (Variable Speed) : DC motor with Thyristor controlled DC

- Drive for variable speed
- FOR (Fixed Speed) : AC motor, 1 HP Crompton make
- 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
- Energy measurement : Electronic Energy meter, L&T make.

- RPM measurement : Digital RPM Indicator with Proximity sensor.
- MCB : For overload protection.
- Instruction Manual Apparatus : An ENGLISH instruction manual will be provided along with the Apparatus

Naugra Export

Website: www.naugraexport.com, **Email:** sales@naugraexport.com

Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India, **Phone:** +91-0171-2643080, 2601773