

Product Name :
Centrifugal Blower Test Rig

Product Code :
DM212



Description :

Centrifugal Blower Test Rig

Technical Specification :

The present set-up is designed to study the forced draft centrifugal blower characteristics. The set-up consists of a variable speed DC motor, coupled to a blower housing and fan. The fan is also called as impeller. The motor rotates the impeller inside the housing, and due to centrifugal force, exerted by the vanes of the impeller, partial pressure is developed at the inlet and outlet of the housing. A speed control unit facilitates user, to have experimentations on different speeds, to enhance the study. RPM of the impellers are measured and indicated on a digital RPM indicator in control panel. The air flows through a pipe where instrumentation has been done to measure the pressure head, velocity and flow. A pitot tube with differential pressure manometer is provided to observe and find out the static and dynamic head of air, flowing through the pipe line. A control valve is also provided to regulate the flow of air. The set-up also provided with three impellers of different curved vanes to understand the effect of vanes arrangement on performance and efficiency of the blower.

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