



Email : sales@laboratoryinstrumentindia.com

Product Name :
Axial And Centrifugal Fan Demonstration Apparatus

Product Code :
LBNY-0005-1610009



Description :

The Centrifugal Fan Demonstration Unit has been developed for the study of the characteristics of a centrifugal fan. The unit is equipped with 2 different types of impellers; (forward and backward blades), which can be easily interchanged. The direction of the rotation can be changed using the 3-position command control. Vertical and inclined gauges allow a correct reading of the pressure. The inverter allows the speed to be varied, while observing the electrical power through the power meter. A Pitot tube allows the measurement of the air velocity at any point of the tube, and the measurements can be obtained from the digital display which is provided.

Technical Specification :

Experimental Capabilities:

1. Investigating and plotting the following curve characteristics of a centrifugal fan with straight blades.

Static pressure

Total pressure

flow

flow (DPt- Q)

Performance - Flow (\dot{V} - Q)

Power - flow (P - Q)

2. Investigating and plotting the following curve characteristics of a centrifugal fan with curved blades.

Total pressure - flow (DPt- Q)

Power - flow (P - Q)

Flow (- Q)

Static pressure

Performance

flow

3. Obtaining the velocity profile of the flow in the suction pipe.
4. Measuring flow using the Pitot tube.
5. Studying the effects of varying the centrifugal fan spin speed.
6. Obtaining the differences between the static and dynamic pressure using a Pitot tube.



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