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Product Name :
Turbulent Jet

Product Code :
LBNY-0005-16200023



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Description :

The apparatus is shown mounted on the working surface of the basic Air Flow Bench and connected to the blown experiment duct of the fan by a re-enforced plastic hose. The equipment consists of a plenum chamber with outlet tube and a calibrated stand to mount the pitot tube which can then be traversed along the axis of the air flow at various heights. The pitot tube is connected to the larger of the two sloping manometers which is leveled and zeroed before starting the experiments. Although used with the basic Air Flow Bench the apparatus can be operated as a standalone unit if supplied with an air flow of approximately 500 litres/second at a pressure of 600 Pascals.

Introduction:

The student can then study air jet velocity in order to determine both velocity and momentum profiles of the air jet at various distances from the emission point. Turbulent Jet Studies apparatus is designed to demonstrate the general behaviour of a jet of air emitted from a circular pipe into free surroundings.

Technical Specification :

Turbulent Jet

Laboratory Instrument India

