

Product Name :
Axial Fan Demonstration Unit

Product Code :
FLDM0001



Description :

Axial Fan Demonstration Unit

Technical Specification :

The Advanced axial fan produces gas flow by virtue of the momentum changes imparted across the rotary blades, parallel to the axis of rotation. Such fans are more suitable for higher flows at lower delivery pressures than their centrifugal counterparts. An axial fan, mounted on a stainless steel plinth. Transparent air inlet and air outlet ducts allow the fan construction to be clearly observed. A manually operated adjustable aperture allows the airflow rate to be varied. A calibrated orifice plate is used on the discharge to measure the airflow rate. Electronic sensors measure the pressure head developed across the fan, the pressure across the orifice plate (and thus the flow rate), the rotational speed of the fan and the air temperature. The fan speed is controlled by modulated DC supply, complete with current sensing to allow the power drawn by the fan to be measured.

FEATURES :

Small-scale axial fan demonstration unit, comprising of an inlet duct, the fan, an outlet duct and an adjustable aperture, all mounted on a stainless steel base
Equipped with electronic measurement sensors for fan head pressure, flow rate (via orifice plate), fan speed and air temperature
Transparent ducts give visibility of the fan in operation
Capable of being linked to a PC via a USB interface console (an essential accessory), which does not require internal access to the computer.
Facilities for logging, processing and displaying data graphically

Offers a complete teaching package of coursework and laboratory investigation.

Also enables interfacing to other software packages

Supplied with software providing full instructions for setting up, operating, calibrating and performing the teaching exercises.

SPECIFICATIONS:

Max flow rate: 38 l/s typical

Max head: 0.06kPa

Max fan speed: 2,700rpm

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Motor power rating: 5W

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