

Product Name :
Centrifugal Fan Demonstration Unit

Product Code :
ALABS-A43-037

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Description :

Centrifugal Fan Demonstration Unit

- A small-scale centrifugal 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) and air temperature.
- Transparent cover plate on fan volute for visibility.
- Supplied with two different, easily interchangeable impellers.
- Capable of being linked to a PC (not supplied) via a USB interface console (an essential accessory), which does not require internal access to the computer. Also allows interfacing to other software packages.
- Supplied with software providing full instructions for setting up, operating, calibrating and performing the teaching exercises. Facilities for logging, processing and displaying data graphically.

- Offers a complete teaching package of coursework and laboratory investigation, complete with a student questions and answers session.

Capabilities:

- Measurement of constant-speed machine performance in terms of static total pressures, rotor speed and motor shaft power, as a function of inlet flow
- Measurement of fan efficiency and estimation of impeller power efficiency
- Measurement of performance at constant speeds
- Introduction to similarity laws for scale-up
- Comparison of student calculations with computer results

Technical Specification:

Max Flow Rate: 70 l/s typical

Max Head: 0.7KPa

Max fan speed 3000rpm

Motor Power rating 550W



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