| Product name: | Product code: |
| --- | --- |
| Axial Fan Demonstration Unit | Fluid00068 |

## Description

Axial Fan Demonstration Unit

## Technical specification

Technical Specification of **Axial Fan Demonstration Unit**

- Max Flow Rate: 38 l/s typical
- Max Head: 0.06 KPa
- Max fan speed 2700rpm
- Motor Power rating 5W

**Axial Fan Demonstration Unit** Axial Fan Demonstration Unit

**Axial Fan Demonstration Unit**

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- A small scale axial flow demonstration unit, comprising of an inlet duct, the fan, air 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 (not supplied) via a dedicated interface console (an essential accessory).
- Supplied with software providing full instructions for setting up, operating, calibrating and performing the teaching exercises. Facilities for logging, processing and displaying data graphically.
- Full theoretical back-up together with a student questions and answers session.

Description of **Axial Fan Demonstration Unit**

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 air flow rate to be varied. A calibrated orifice plate is used on the discharge to measure the air flow rate. Electronic sensors measure the pressure head developed across the fan, the pressure across the orifice plate (and hence 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.