

Product Name :
Computer Controlled Air Duct Systems Unit

Product Code :
CHINAELABC3200004



Description :

Computer Controlled Air Duct Systems Unit

Technical Specification :

The Computer Controlled Air Duct Systems Unit examine how the air can be distributed in a building. The student can plan, design and construct different air duct systems with several components such as pipes, bends, branches, reducers, filters, valves, etc. The unit is supplied with a number of interchangeable test sections to give a wider knowledge and understanding to the students.

The unit consists of two main parts that are connected:

One part includes a radial fan, computer controlled.

This fan, mounted on a mobile frame, is connected to the air ducts, takes air from the environment and the air flow is accelerated.

The fan characteristic and the power consumption of the fan can be determined.

The other part includes several assembly stands to attach the air ducts (constructed with the different components: pipes, bends, filters, etc) that are connected to the radial fan.

The unit includes several pipes sections, with pressure measuring points, of different diameters can be installed at any position.

The pressure measuring points allow to measure of the dynamic and static pressures in air duct systems.

The unit allows to study the pressure loss and thus on the air velocity and volumetric flow in the individual components of the ventilation systems under different conditions.

There are several pressure sensors (to connect to the different pressure measuring points) to measure the

dynamic and static pressures, a speed sensor to measure the air velocity and a inclined tube manometer



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