

Product Name :
Multipurpose Air Duct and Heat Transfer Trainer

Product Code :
NLAB-MECHANICALAB240044



Description :

Multipurpose Air Duct and Heat Transfer Trainer

Technical Specification :

Air duct for the investigation of the heat transfer in airflows

Use of different heat exchangers in the air duct

Insulated air duct with flow straightener

Radial fan with adjustable flow rate

Pitot tube with inclined tube manometer to measure velocity distribution and pressure loss

Pressure sensor, combined temperature and humidity sensor

Switch cabinet with digital displays

Technical Data

Air duct cross-section: 150x300mm

Fan

power: 900W

max. flow rate: 1680m³/h

max. pressure difference 1000Pa

nominal speed: 2840min⁻¹

Pitot tube: travel 300mm

Inclined tube manometer: 0...100Pa

Sensor Measuring Ranges

temperature: 2x 0...50°C

humidity: 2x 100% rel. humidity

pressure: 2x 0...10mbar

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