

Email :
sales@schooleducationalinstruments.com
Phone: +91-0171-2601773

Product Name :
Compressible Flow Unit

Product Code :
SCHOOL-FUD810007



Description :

Compressible Flow Unit

Technical Specification :

FEATURES:

Investigate flow of compressible fluids

Subsonic and transonic air flow

Variable speed on the radial fan for adjusting the mass flow rate

Pressure losses in subsonic flow in pipe elbows and various pipe sections

Pressure curve at subsonic and transonic nozzle flow

Minimized turbulence by drawing in air and optimum arrangement of the measuring objects

Transparent measuring objects with connectors for pressure measurement provide insight into the internal structure

Measuring nozzle for determining the mass flow rate

Orifice for determining volumetric flow rate by differential pressure measurement

Record fan characteristic curve using a throttle valve

Digital displays for pressures, velocity and speed

SPECIFICATION:

Radial fan:

Max. Speed: 31000min⁻¹

Max. Volumetric flow rate: 226m³/h

Max. Head: 318mbar

Max. Power consumption: 1,8kW

Measuring objects

Pipe section: 1m

Ø 16, 24, 34mm

90° pipe elbow

2 nozzles, inner diameter: 12...34mm

With sudden enlargement

With gradual enlargement (de Laval nozzle)

Orifice with orifice disks: Ø 12, 19, 25, 32mm

Throttle valve: Ø 34mm

Measuring ranges:

Speed: 0...99999min⁻¹

Pressure:

1x 0...25mbar

1x 0...600mbar

1x 0...1000mbar

Velocity: 0...65m/s

230V, 50Hz, 1 phase

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Website: [www.https://www.schooeducationalinstruments.com/](https://www.schooeducationalinstruments.com/), **Email:** sales@schooeducationalinstruments.com

Address: Ambala Cantt, Haryana, India **Phone:** 91-0171-2643080