

Product Name :
Compressible Flow Unit

Product Code :
ENGLABINGCAG300007



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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