

Product Name :

Laval Nozzle Pressure Apparatus

Product Code :

SLE/EA/06



Description :

- Demonstrates the thermodynamic and fluid mechanics of the adiabatic expansion of air through subsonic and supersonic nozzles.
- Includes interchangeable convergent, convergent - divergent Laval nozzles and convergent parallel nozzle. Compressed air passes through the pressure regulator and an isolating valve.
- The airflow then settles as it passes along a horizontal pipe, through an orifice and out to atmosphere.
- The temperature and pressure displays accurately measure temperatures and pressures at key points around the apparatus, including the pressures around the orifice which students use to determine overall mass flow.
- For ease of visibility and for good engineering practice, the analogue gauge also shows pressure in the chest.
- A stainless-steel probe on a manually adjustable, vertical traverse measures the pressure distribution along the axis of the nozzle.
- A digital indicator measures the probe position in the nozzle.

Its floor-standing frame holds:

- A pressure chest with a removable lid and nozzle traverse mechanism.
- A useful worktop.
- An instrument frame with digital pressure and temperature displays.
- A pressure regulator to maintain the inlet/upstream pressure, with an analogue reference pressure gauge.
- Three interchangeable, profiled and polished brass nozzles with mimics that fit on the traverse mechanism.

Dimensions and weight:

- Length 2900 mm x depth 600 mm x height 1730 mm and 123 kg

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