

Product Name :
Compressible Flow Bench

Product Code :
NLAB-ENGINEERINGLB19003



Description :

Compressible Flow Bench

Technical Specification :

Compressible Flow Bench Lab Equipments Manufacturer, Suppliers & Exporters Compressible Flow Bench.

[1] Apparatus comprising a four-stage variable speed motor driven air compressor with seven interchangeable test sections with all necessary instrumentation to conduct experiments. [2] Test sections:

- Convergent/divergent duct
- Three ducts of different diameters each with two pressure sensing rings
- Sudden enlargement
- Test sections for a range of orifice plates
- 90 degree bend

[3] Experimental Capabilities:

- Pressure-flow characteristics for a convergent/divergent duct, demonstrating 'choking' effect
- Pressure-flow characteristics for a convergent duct
- Verification of the equation for isentropic flow in a convergent duct
- Determination of γ for air
- Determination of diffuser efficiency
- Pressure recovery after sudden enlargement
- Relation between friction head and velocity in a given pipe
- Variation of friction coefficient with Reynolds' number for pipes of various diameters

- Relation between head loss in a bend and flow velocity
- Pressure-flow characteristics of pipeline orifices
- Variation of orifice coefficient with orifice diameter/pipe diameter ratio
- Variation of orifice coefficient with absolute pressure ratio
- Compressor characteristics at constant speed: pressure flow, power flow, efficiency flow
- Comprehensive performance characteristics for compressor (iso efficiency diagram)
- Energy balance for compressor

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