

Product Name :
Advanced Conduction Unit Apparatus

Product Code :
NLAB-ENGINEERINGLB56002



Description :

Advanced Conduction Unit Apparatus

Technical Specification :

Study of linear thermal conduction in metal test bars under vacuum

Bell jar, diaphragm pump and manometer to generate a vacuum

Test bar clamped between a heater and a Peltier element as the cooler

Test bars made of stainless steel, brass, aluminium, copper

2 thermocouples to measure the temperature at both ends of the test bar

Measurement of current and voltage of the heater

Measurement of current and voltage of the peltier element

Digital displays for temperatures, current, voltage

Technical Data

Diaphragm Pump

Power consumption: 90W

Vacuum: max. 10mbar abs.

Suction capacity: 6L/min

Heater

Power: 1.5W

Peltier Element

Power: 8.5W

Temperature difference: 70K

Test Bars

Diameter: 5mm

Length: 128mm

Measured length: 80mm

Material: stainless steel, brass, aluminium, copper

Measuring Ranges

Temperature: 2x 0...200°C

Voltage: 2x 0...10VDC

Current: 1x 0...1A, 1x 0...5A

Manometer: -1...0bar

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