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Product Name :
Boyles Law Apparatus

Product Code :
LBNY-0005-14000043



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Description :

The bench-mounting equipment includes a back plate that holds two clear-walled cylinders containing oil (supplied). This piston compresses or decompresses a trapped column of air in the test cylinder. Students use hand-operated pumps (supplied) to increase or decrease the pressure in the left-hand cylinder (the Reservoir) which moves a liquid piston of oil in the right-hand cylinder (the test cylinder).

A digital indicator measures the change in height of the trapped air column. A mechanical pressure gauge measures the pressure of the trapped air. When multiplied by the cross-sectional area of the column, this gives the change in volume.

The equipment uses normal, clean, dry air, as it behaves as an ideal gas over the range of pressures used in this equipment.

Experiments:

Proving Boyles Law by experiment.

Demonstrations of gas temperature change during compression and decompression.

Technical Specification :

Operating Conditions:

Operating environment: Laboratory

Operating relative humidity range: 80% at temperatures Storage temperature range: 25C to +55C (when packed for transport)

Operating temperature range: +5C to +40C.



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