



THE LAB EQUIPMENT

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**Product Name :**

Boyle's Law

**Product Code :**

SLE/EA/28



## Description :

- The bench-mounting equipment includes a back plate that holds two clear-walled cylinders containing oil.
- This piston compresses or decompresses a trapped column of air in 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.
- They also help to demonstrate the change in air temperature during demonstrations.
- A thermocouple and digital display measure the temperature of the trapped air to make sure that students maintain a constant air temperature during tests.
- Students use hand-operated pumps to increase or decrease the pressure in the left-hand cylinder which moves a 'liquid piston' of oil in the righthand cylinder.
- The equipment uses normal, clean, dry air, as it behaves as an ideal gas over the range of pressures used in this equipment.

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