Boyle’s and Gay-Lussac’s Laws Projection Apparatus

A transparent, graduated syringe is attached to a pressure gauge so that one can show the relationship between pressure and volume at constant temperature for air.

Alternatively, the pressure gauge may be connected to a hollow metal ball that can be cooled with ice water to show the relationship between pressure and temperature at constant volume. By extrapolating a line plot of pressure versus temperature to zero pressure, one may deduce absolute zero.

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