

## Change of State of Gases (EDC-HT-003)

### EXPERIMENTAL DATA:

- Represent the laws of state changes in gases experimentally.
- Demonstration of Boyle-Mariotte law.
- Demonstration of Gay-Lussac's law.



### DESCRIPTION:

Two transparent tanks are present to observe the Boyle's-Mariotte and Gay-Lussac's law. Gas laws belong to the fundamentals of thermodynamics. The apparatus allows two laws of gases to be studied experimentally: isothermal change of state, identified as the Boyle-Mariotte law, and isochoric change of state identified as Gay-Lussac's Law.

### SPECIFICATIONS:

- Transparent measuring tank for investigation of Boyle's law.
- Transparent measuring tank for investigation of Gay-Lussac's law.
- Built-in hand operated air pump.
- Electrical heater.
- Oil pump.

### DIMENSIONS AND WEIGHT:

- L x W x H (mm): 800 X 500 X 700 approx.
- Weight: 40 kg approx.

### SCOPE OF DELIVERY:

- 1 x EDC-HT-003.
- 1 x Instructional Manual.

### TECHNICAL DATA:

- Pump to deliver oil to tank.
- Two Transparent cylinder:
  - Material PMMA.
  - Height 200mm.
  - Diameter 150mm.
- Pressure Gauges Range:
  - 0 to 4 bar max.
- Hand operated air compressor.
- Pressure gauges for measurement.
- Temperature sensor.
- LCD display and Control
- 230V AC 50Hz.

