

## F09 Universal Law of Ideal Gas



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### *Experiments:*

1. Boyle's Law
2. Charles' Law
3. Combined Gas Law (Gay-Lussac's)
4. Real-time Carnot cycle

**Specifications:**

1. Heat engine model x1
  - 1.1 Piston dia  $32.5\text{mm} \pm 0.1\text{mm}$  made graphite
  - 1.2 Air cylinder by clearness glass tube 100ml with scale and protective tube
  - 1.3 Piston & platform mass  $35.0\text{g} \pm 0.8\text{g}$
  - 1.4 Max press 340kpa
  - 1.5 Alum. Base with two Alum. inlet and plastic step breakers
2. Alum. Gas bottle x1
3. Plastic Bucket 3L x2
4. U type Iron table and Stainless steel 60cm x1
5. Weight 100g x2
6. Balance Weight 35g x1
7. Cross type holder x1
8. Silicon tube 50cm x1
9. Silicon tube 7cm x1
10. Silicon tube connect plastic tube 15cm x1

Option:

1. Datalogger x1
2. Pressure sensor x1
3. Temperature sensor x1
4. Rotation sensor x1