

## DL 2150 system

### DL 2150–TD

### Kit of components for the study of **thermodynamics**

#### Composed of:

- Temperature probe (2 off )
- Gas pressure sensor
- 20ml syringe
- Graduated cylinder, 100 ml
- Erlenmeyer, 100 ml
- Glass, 400 ml
- Glass, 250 ml
- Test tube
- Glass stirring rod
- Calorimeter cover – glasses
- Tapered valve connectors (3 off )
- Two-way valve
- Luer-lock connectors connected to either end of a piece of plastic tubing (2 off )
- Transpiration tubing clamps (2 off )
- Asbestos mat
- Mop cloth for insulation
- Gas hot plate
- Articles of iron, aluminum, brass
- Sodium thiosulfate (10g - half a tube)



#### List of experiments:

1. Boyle-Mariotte law
2. Charles's law
3. Heat balance
4. Newton's law of cooling
5. Heat capacity of the calorimeter
6. Compound fluid temperature
7. Specific heat capacity of solids
8. Determination of solids temperature by calorimeter
9. Determination of the heat of vaporization of water
10. Melting and crystallization

