

## Boiling Heat Transfer Unit (EDC-HT-007)

### EXPERIMENTAL DATA:

- Temperature and pressure effect on evaporation process.
- Demonstration of free convection boiling, film boiling and heat transfer.



### DESCRIPTION:

The apparatus contains a transparent cylinder with refrigerant in it. An adjustable heating power heater using LCD increases the temperature of refrigerant, due to that boiling start and refrigerant increase pressure in cylinder. Transparent cylinder also contains a coil with water circulation for cooling of refrigerant.

Optional Software is available for Data Acquisition and Control Function.

### SPECIFICATIONS:

- Boiling and Evaporation process in transparent tank.
- Evaporation using heater.
- Condensation process using tube coil.
- LCD display for temperature, flow and pressure.

### DIMENSIONS AND WEIGHT:

- L x W x H (mm): 1000 X 550 X 700 approx.
- Weight: 60 kg approx.

### SCOPE OF DELIVERY:

- 1 x EDC-HT-007.
- 1 x Instructional Manual.

### TECHNICAL DATA:

- Heater Adjustable:
  - Max. 0W to 300W.
- Temperature sensor:
  - Up-to 150° C.
- Flow Sensor:
  - 0 to 5 LPM.
- Condenser cooled tube:
  - Material: Copper.
- Transparent Tank:
  - PMMA Material.
  - 3 Ltr.
- Refrigerant:
  - 1.2kg.
- 230V AC 50 Hz.

