

## Marcet Boiler Apparatus (EDC-HT-19)

### EXPERIMENTAL DATA:

- Temperature VS pressure measurement.
- Recording the vapour pressure curve of water.
- Performance of the relationship between pressure and temperature in a closed system.



### DESCRIPTION:

When a fluid is heated in a closed tank, the pressure rises as the temperature rises. Theoretically, the pressure growth is possible up to the critical point at which the densities of the fluid and gaseous phases are equal. Fluid and vapour are then no longer different from each other. This knowledge is applied in practice in process technology for freeze drying or pressure cooking.

Optional Software is available for Data Acquisition and Control Function.

### SPECIFICATIONS:

- Measuring a vapour pressure curve for saturated vapour.
- Pressure boiler with insulating jacket.
- Temperature limiter and electronic safety protect against overpressure in the system.
- Digital pressure and temperature sensors.
- LCD display.

### DIMENSIONS AND WEIGHT:

- L x W x H (mm): 600 X 350 X 600 approx.
- Weight: 22 kg approx.

### SCOPE OF DELIVERY:

- 1 x EDC-HT-19.
- 1 x Instructional Manual.

### TECHNICAL DATA:

- Heater: 2kW.
- Boiler, stainless steel: 2.5L.
- Temperature limit 150°C.
- Pressure safety: 10 Bar.
- 230V AC 50 Hz.

