

VAPOR PRESSURE OF WATER MARCET BOILER

RT 049

Description:

If energy is added to water, molecule activities will increase and some of the molecules will escape from the surface of the liquid. This process will continue until a state of equilibrium is reached. This state depends on the pressure of the pure material adjacent to water; the less the pressure is, the more easily the molecules leave the liquid surface, needing less energy to come to balance. This unit is consisted of a constant-volume container which is filled with water. The container is then heated so that the constant-volume phase change from water to steam is achieved. During this process, water and steam phases will be continuously adjacent. By using installed measurement instruments, pressure and temprature can be measured at any moment.

Specifications:

- Heating system
- Safety system includes safety valve, thermostat and a pressure switch
- Pressure gauge
- Temperature sensor
- Stainless steel boiler
- Working pressure: 8 bar
- Inlet and outlet valves
- Air valve
- Electrical control panel with switches and displays
- Installation and training video included
- Instructions manual included
- 10-year warranty

Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

Applications:

1. Studying the relationship between pressure and heat in constant volume
2. Obtaining experimental curve of saturation pressure and saturation temperature

Required For Operation:

- 220 v Single Phase Electricity
- Distilled Water
- Desirable Temperature (°C): 10-30
- Relative Humidity: 15% - 80%



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Dimensions (L*W*H) mm:1200×600×1200

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