



Key Features

- The DAQ-Based Marcet Boiler Test Setup is designed for the study of the relationship between pressure and temperature of saturated steam in a closed vessel.
- It enables students to observe steam generation, measure pressure and temperature variations, and analyze thermodynamic behavior using integrated data acquisition.
- Understand the saturation curve of water.
- Investigate the relationship between pressure and temperature.
- Study phase change and boiling processes.
- Practice safety procedures with thermal systems.
- Stainless steel boiler with viewing window.
- Integrated DAQ for real-time pressure and temperature monitoring.
- Digital displays for temperature (Kelvin & Celsius) and pressure (Pascal & bar).
- Safety devices including pressure relief valve and temperature limiter.
- Bench-mounted apparatus for easy laboratory use.
- Computer with DAQ software for real-time data acquisition and analysis
- DAQ Interface for PC/Data Logging
- Computer system pre-installed with LabVIEW-based DAQ software for monitoring pressure and temperature in real time
- Digital Temperature Display ($^{\circ}\text{C}/\text{K}$)
- Digital Pressure Display (Pa/bar)
- Safety Cut-Out & Relief Mechanisms

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



Export Sales: +91-9829132777
 India Sales: +91-9588842361



IT-2013, Ramchandrapura Industrial Area,
 Sitapura Extension, Jaipur-302022, India.



info@tesca.in
 www.tescaglobal.com



Technical Specification

| Parameter | Specification |
|------------------------------|--|
| Boiler Material | Stainless Steel |
| Boiler Capacity | 2 -3 Liters |
| Heater Power | 2 kW |
| Pressure Gauge | Bourdon Tube: -1 to 24 bar |
| Safety Valve | 20 bar |
| Temperature Limiter | 200°C |
| Temperature Range | 0 to 200°C |
| Pressure Range | 0 to 20 bar |
| Viewing Window | Yes, to observe boiling and water level |
| Data Acquisition (DAQ) | Real-time temperature & pressure measurement |
| Table Size | 800 mm (L) × 450 mm (W) × 700 mm (H) |
| Weight | Approx. 30-40 kg |
| Warranty | 3 Years |
| Maintenance and Calibrations | 2 times in 2 years |

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