



## MARCET BOILER H112M



Year 1  
study

### Description

The Marcet Boiler H112M option is a self contained unit that allows students to investigate the pressure-temperature relationship for water and steam. The unit incorporates an electrical heater that is controlled by the H112 Service unit together with an integral high pressure cut out for safe operation. The unit is also fitted with a certified pressure relief valve. Saturation temperature of the steam/water is measured and displayed using the H112 Heat Transfer service unit. The saturation pressure inside the vessel is displayed using a high accuracy dial pressure gauge. Thermocouples and an integral connection point for a pressure transducer allow use of the accessory with the optional Heat Transfer Service Unit Computer linked Upgrade.

### Related Laws/Applications

- Mechanical Engineering
- Nuclear Engineering
- Chemical Engineering
- Control and Instrumentation
- Plant and Process Engineering
- Building Services
- Engineering Physics
- Refrigeration
- Marine Engineering

### Learning capabilities

- Investigation Of The Pressure-Temperature Relationship For Water/Steam.
- Investigation Of The Clausius- Clapeyron Equation Using The Pressure\_Temperature Relationship For Steam
- Investigation Of Steam Quality By Throttling
- Measurement of the pressure and temperature of saturated steam between ambient temperature and 10 bar absolute pressure.
- Comparison of the test results with steam tables

**Technical Specification**

- Certified Steam Safety Valve: Vent at 1000kN/m<sup>2</sup>

**Essential Ancillaries**

- H112

**What's in the Box?**

- 1 x H112M
- 1 x Funnel
- Hose clips
- Reinforced hose
- 2m Plastic hose
- Instruction manual
- Packing List
- Test Sheet

**Weights & Dimensions**

- Weight: 20 kg
- Length: 500mm
- Width: 450mm
- Height: 450mm

**Essential Services**

- H112

**Ordering information**

To order this product, please call PA Hilton quoting the following code:  
H112M

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COUNTRY OF ORIGIN - UK WARRANTY PERIOD - 5 YEARS