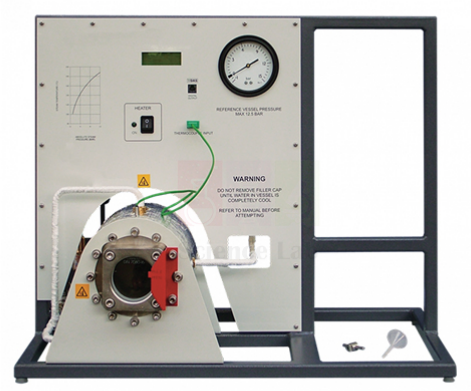
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Product Name :

Saturated Steam The Marcet Boiler

Product Code :

SLE/EA/21



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Description :

Saturated Steam The Marcet Boiler (Product Code: SLE/EA/21) is a Marcet boiler apparatus used to show how the pressure of saturated steam rises with its temperature in thermodynamics laboratories. An insulated, electrically heated pressure vessel with a special-purpose glass window lets students watch water boil while a transducer, thermocouple and Bourdon gauge track the changing conditions. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of engineering educational equipments in India, at its own factory in Ambala.

Key Details

Parameter	Detail
Construction	Rigid frame holding an insulated pressure vessel (boiler) and an instrumentation and control unit
Boiler	Electrically heated; holds water
Viewing window	Special-purpose glass window to see the internal construction, the boiling process and the water level
Pressure relief	Pressure relief valve limits the maximum boiler pressure
Heater protection	Thermostat limits the maximum heater temperature
Measurement	Transducer and thermocouple for boiler pressure and temperature
Digital display	Shows values in both SI and traditional units
Mechanical gauge	Bourdon type pressure gauge that works independently of the electrical supply
Steam venting	High temperature pipe directs any vented steam away from the working area to a suitable drain
Expansion	Extra space on the frame for the optional interface
Design	Safety and low maintenance features for educational use
Product code	SLE/EA/21
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Marcet Boiler Used For?

Students heat the water and record pairs of pressure and temperature readings as both rise, then compare their curve with published steam tables. The exercise makes the idea of saturated conditions concrete and leads naturally to the Clausius-Clapeyron relation. Watching the boiling through the glass window helps learners connect the numbers with what is happening inside the vessel.

Before switching on, check the water level through the window, and never obstruct the high temp tical for co