



THE LAB EQUIPMENT

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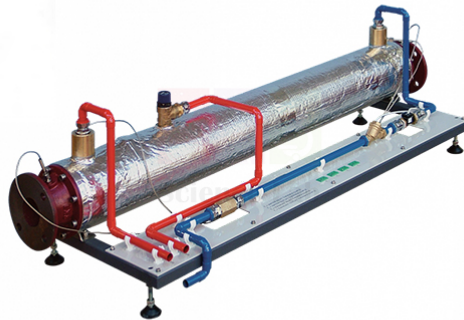
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**Product Name :**

Exhaust Gas Calori meter

**Product Code :**

SLE/EE/03



## Description :

- The main components of the Exhaust Gas Calorimeter are:
- Gas-to-water shell and multi-tube heat exchanger.
- Control valve. Turbine flow meter measures the flow rate.
- The heat exchanger is mounted on a sturdy base plate.
- Exhaust gases from the test engine mounted on the test set flow through the tubes.
- A jacket of constantly flowing cooling water surrounds the tubes, and the heat content of the gases is assessed by measuring the cooling water flow rate and the inlet and outlet temperatures.
- A hand-operated valve, which mounts on the control console of the test set, controls the flow of cooling water through the heat-exchanger jacket.
- For safety, the heat exchanger also includes a pressure-relief valve in case insufficient cooling water is flowing. The instrumentation consists of a digital, four-channel temperature and flow display unit.
- Thermocouples measure the temperature of gas and water at the inlet and outlet.
- This unit mounts on the instrumentation rail of the test set console frame and allows easy and accurate display and monitoring of data.

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