

**Product Name :**  
Exhaust Gas Calorimeter**Product Code :**  
THEM0005**Description :**

Exhaust Gas Calorimeter

**Technical Specification :**

The Exhaust gas calorimeter water heat exchange to be used with multi-cylinder engine.

Small vertical finned tubes enclosed in insulated stainless steel chamber.

Determination of the thermal exhaust gas losses is essential when calculating an energy balance for internal combustion engines.

It involves a largely complete and loss-free heat exchange between the exhaust gas and a cooling medium.

Exhaust gas from engine can be connected to the calorimeter and flow around the finned tubes while cooling water flows inside the tubes.

Chamber can be disassembled for cleaning the finned tubes.

Instruments gear for display of water flow rate, temperatures of exhaust and water. Requires water supply

Calorimetric measurement is an established method of doing this.

**FEATURES:**

Counter flow heat exchanger for calorimetric analysis of exhaust gases from internal combustion engines

Determination of the amount of heat contained in the exhaust gas from test engines

Calorimeter consisting of finned pipe heat exchanger and insulated tank

Instrumentation: 4 temperature sensors, flow meter

Measuring amplifier with digital displays

Connection between engine and calorimeter using exhaust gas hose

Cold water connection and drain required.

**SPECIFICATION:**

Calorimeter

---

Insulated, stainless steel  
Finned pipe heat exchanger  
Heat exchange area on exhaust gas side: 0,944m<sup>2</sup>  
Heat exchange area on water side: 0,141m<sup>2</sup>  
Measuring ranges  
Temperature:  
2x 0...600°C (exhaust gas)  
2x 0...200°C (cooling water)  
Flow rate: 0...160L/h  
230V, 50Hz, 1 phase

 **LAB ENGINEERING**

**Elab Engineering Equipments Manufacturers**