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Product Name :

Exhaust Gas Calorimeter

Product Code :

SLE/MCE/54



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Description :

Exhaust Gas Calorimeter (Product Code: SLE/MCE/54) is a counter-flow heat exchanger used to determine how much heat leaves an internal combustion engine in its exhaust gas, in thermal engineering and automotive laboratories. Connected to a test engine by an exhaust gas hose, it passes the hot gas through a finned pipe heat exchanger in an insulated stainless steel tank and shows four temperatures and the water flow on digital displays. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Purpose	Calorimetric analysis of exhaust gases from internal combustion engines; heat content of exhaust from test engines
Heat exchanger	Counter-flow, finned pipe type
Calorimeter body	Insulated tank, stainless steel
Heat exchange area, exhaust gas side	0.944 m²
Heat exchange area, water side	0.141 m²
Exhaust gas temperature	2 × 0–600 °C
Cooling water temperature	2 × 0–200 °C
Water flow rate	0–160 L/h (flow meter)
Instrumentation	4 temperature sensors, flow meter, measuring amplifier with digital displays
Engine connection	Exhaust gas hose
Power supply	230 V, 50 Hz, single phase
Dimensions	600 × 600 × 1300 mm
Weight	103 kg (approx.)
Product code	SLE/MCE/54
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Exhaust Gas Calorimeter Used For?

In an engine heat-balance experiment, the calorimeter is connected to the exhaust of a running test engine while cooling water flows through the exchanger in the opposite direction. Students record the exhaust temperatures in and out, the water inlet and outlet temperatures and the water flow r