



Exhaust Gas Calorimeter Order Code : 32725 is used to determine the amount of heat carried away by exhaust gases. It is basically a counter flow type heat exchanger having set of number of forged copper tubes in center. Flue gas is passing through this tube & water is flowing over the tubes inside shell. Heat is transferred from exhaust gas to the water. By knowing the flow rate of cooling water, temperatures of gas and water at entry and exit, heat carried away by exhaust gas can be calculated. Thermocouples are used for temperature measurement of gas & water while a turbine type flow meter measures cooling water flow rate.

Specifications

- 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
- Connection between measuring amplifier and using data cable
- Cold water connection and drain required
- Calorimeter: - insulated, stainless steel
- Finned pipe heat exchanger: - heat exchange area on exhaust gas side: 1.169m^2 - heat exchange area on water side: 0.164m^2
- Measuring ranges: - exhaust gas temperature: $2\text{ x } 0\text{...}600^\circ\text{C}$ - water temperature: $2\text{ x } 0\text{...}200^\circ\text{C}$ - flow rate: $0\text{...}600\text{L/h}$
- l x w x h : 570 x 570 x 1300 mm (basic unit)

Note: Specifications are subject to change.

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