

# 5E-C5808

## Automatic Calorimeter

### Models Available

5E-C5808 Automatic Calorimeter(Ignition Wire)

5E-C5808J Automatic Calorimeter(Laser Ignition Technology)

### Optional Configuration

Lens paper

Pellet press

Halogen Resistant Oxygen Vessel

### Standard Configuration

Main analyzer

Standard CV bomb -2 Units

Crucibles

Benzoic Acid

O-ring kit

Tool kit

## Patented Laser Ignition Design

## Define the New Generation of Calorimeter

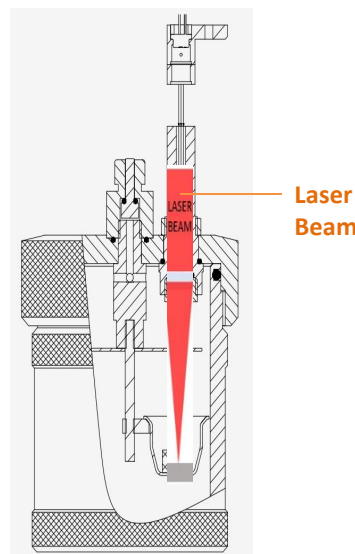


### Application

5E-C5808/5E-C5808J is CKIC new generation calorimeter which is used to determine the calorific value of solid and liquid combustibles including oil, coal, coke, foodstuffs and biomass products. The calorific value is a crucial characteristic for each substance, also the key point to calculate the price of coal, so it will directly affect the economic benefits of the customers. This technique is widely applied in power plants, coal mines, metallurgy, chemical industry, commercial inspection, scientific research, etc.

## Features

1. Patented laser ignition technology (available in C5808J model) allowing easier and faster sample preparation, no ignition wire or cotton thread is needed
2. 8min fast analysis for one sample
3. Automatic oxygen vessel lifting
4. Automatic oxygen charging and venting
5. Intelligent temperature control of the jacket and the water tank, the water constant temperature stability of the jacket reaches to 0.02°C
6. Easy and convenient touch screen operation
7. Small space occupied with compact design
8. Intelligent diagnosis and safety protection function



## Specification

|                             |  |                            |
|-----------------------------|--|----------------------------|
| <b>Model</b>                | <b>5E-C5808 /5E-C5808J Automatic Calorimeter</b>   |                            |
| Conforms to Method          | AS 1038.5, ASTM D5865, ASTM D4809, ASTM E711, BIS 1350, BS EN 15400, GB/T 213,GB/T 30727, ISO 1928, ISO 9831 |                            |
| Precision (1g Benzoic Acid) | 0.05% RSD *  |                            |
| Measuring range             | Up to 50000J   |                            |
| Heat Capacity Stability     | ≤0.2% within one year  |                            |
| Temp.Resolution             | 0.0001°C   |                            |
| Control Ability             | 2 Units/ 1 PC available  |                            |
| Analysis Time per Sample    | 8mins  |                            |
| Test Per Hour               | Single control<br>Up to 7  | Double control<br>Up to 15 |
| Jacket Type                 | Isoperibol and Adiabatic   |                            |
| Ignition Method             | Patented Laser Technology - available in 5E-C5808J Model only  |                            |
| Bomb Identification         | Yes  |                            |
| Balance Connection          | Available  |                            |
| Network Connection          | Available  |                            |
| Bucket Filling              | Automatic  |                            |
| Oxygen Filling              | Automatic  |                            |
| Bomb Vessel Lifting         | Automatic  |                            |
| Structure                   | Benchtop   |                            |
| Power Supply                | Single phase, AC220V ± 10%, 50/60Hz, ≤500w   |                            |
| Net Weight                  | 50kg   |                            |
| Dimensions(L×W×H)           | 480mm×500mm×420mm  |                            |

\*Test Condition: 1. Ambient temp.20°C±1°C, humidity75%±5% 2.No strong interference source nearby 3.Clean water circuit with distilled water