

# OBC - 3106B

## Oxygen Bomb Calorimeter



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**Analytical Technologies Limited**

An ISO 9001 Certified Company

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Oxygen bomb calorimeter can be used to measure the calorific value of solid or liquid samples, measuring samples in a closed container (oxygen bomb), oxygen-filled environment, the heat generated by combustion, the measurement results called the combustion value, calorific value, BTU and so on.

Calorific value results have the value of determining other values to determine the quality of the sample as a basis for calculating the price (eg, coal), as well as physiology (eg, energy distribution in ecology, energy metabolism in animal nutrition studies, etc.), physical And the chemical conclusion.

### Features

1. Adopting semiconductor refrigeration to decide the refrigerating capacity according to the calorific value, the instrument can automatically adjust water temperature and keep water in a relative constant temperature range, realize the continuously and long time test requirement, and make sure the test result is correct.
2. Using USB port, convenient to connect. One computer can control many sets of Oxygen Bomb Calorimeter.
3. With a electronic measuring cup itself, no need to weigh the water by manual, it can measure the water volume automatically, the repetitive error  $< 0.4g$
4. Automatically detecting the resistance of ignition filament, automatically checking the installing condition of ignition filament before test.
5. Standard pipeline design, vastly shortening the pipeline, and more reasonable pipeline design to ensure more precision of test results.
6. Adopting professional discharge water ports, more convenient and fast when the instrument drains away water or change the water.
7. The electronic balance with communication function to share the data by the internet.

## ►► TECHNICAL SPECIFICATIONS

|                                   |                           |
|-----------------------------------|---------------------------|
| Heat capacity                     | 5MJ/kg~40MJ/kg            |
| Measuring range                   | (5~40)°C                  |
| Resolution                        | 0.0001°C                  |
| Measurement accuracy              | ± 60J/g (Benzoic acid)    |
| Total power consumption           | ≤0.2kW                    |
| RSD(Relative standard deviation)  | ≤0.1%                     |
| Test time period                  | About 8mins               |
| Pressure endurance of oxygen bomb | 20 MPa                    |
| Relative standard deviation       | ≤0.1%                     |
| Test interval                     | ≤13min                    |
| Pressure endurance of bomb        | 20 MPa                    |
| Temperature measurement range     | (15~35)°C                 |
| Relative humidity                 | ≤85%                      |
| Power                             | AC 220V±5%, 50 Hz         |
| Dimension                         | 650mm×450mm×450mm (L×W×H) |
| Weight                            | 55kg                      |

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**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

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**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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