

High Precision Microcomputer Automatic Oxygen Bomb

Calorimeter

Scope of application:

The automatic calorimeter is suitable for measuring the power, coal, metallurgy, petrochemical, quality inspection, environmental protection cement, papermaking, geological exploration, scientific research institutes and other industrial sectors. Measuring the calorific value of coal, coke, petroleum, cement, brick and other solid or liquid combustibles, in line with the national standard GB/T213-2008 "calculation method of coal calorific value".



Product advantages:

- 1. The environment adaptability is strong and the test results are accurate and stable.
- 2. The experimental data full curve tracking function, can easily view the temperature and time in the curve.
- 3. With instructions for operation, failure, etc., the experiment ends with automatic voice report results.
- 4. The window display uses a 7.0-inch color LCD touch screen, the display content is intuitive and easy to understand.

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- 5. Simple and convenient, the control core uses ARM9 microprocessor, fast, real-time.
- 6. Reliability fault self-tuning function, the device has a variety of protection functions.
- 7. Using internal and external tube photoelectric isolation, strong anti-interference ability.
- 8. Internal loading has standards, instructions and common troubleshooting methods.

Working principle:

Using advanced single-chip system, the operation is fully automated. All the labor needs to do is to weigh, load and oxygenate. The instrument automatically completes the quantitative water injection, automatic mixing, ignition, output printing results, drainage, etc.

In the calorimetric system of the calorimeter, in addition to the heat absorbed by the water, the oxygen bomb, the inner cylinder, the thermometer and the agitator absorb heat, and the respective heat absorption conditions are different. Various factors are complicated, and it is impossible to rely on simple Mathematical calculations can only use the reference of known calorific value, such as benzoic acid, to actually calibrate the heat absorbed by the calorimeter system for every 1 °C increase, that is, to calibrate the calorimeter's heat capacity.

Features:

Ultra-large capacity water tank for large batch continuous 24 hour experiment

- 1. The user only needs to install the oxygen bomb when the user operates, and the remaining electronic balance is used to read the sample weight, oxygen, oxygen bomb, oxygen bomb, quantitative inner cylinder water, ignition, completion test, oxygen bomb deflation, experiment Results statistics and other processes can be fully automated.
- 2. Automatically adjust the temperature difference between the inner and outer cylinders to ensure that the inner cylinder is about 1K higher than the outer cylinder temperature at the end point, which fully meets the requirements of the national standard 8.2.4, and the test results are stable for a long time.
- 3. It can carry out experiments for more than 72 hours, which solves the technical problem that the calorimeter without cooling device needs to suspend the experiment due to the increase of the outer cylinder water temperature (overshoot).
- 4. Imported mechanical parts, automatic oxygenation, automatic deflation, automatic lifting oxygen bombs and other sports.
- 5. The compressor cooling and special heating device are adopted to realize the automatic control of the water temperature of the outer cylinder, and the temperature control accuracy meets the requirements of the national standard 7.1.4 (±0.1K).

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Technical Parameters:

| Heat capacity | about 10500J/K |
|---------------------------------|------------------|
| External water tank capacity | about 40L |
| Inner water tank capacity | about 2.1L |
| Temperature range | 0-40 ° C |
| Temperature resolution | 0.0001K |
| Precision | ≦ 0.1% |
| Power | ≤ 100W |
| Dimensions(cm) | 70*73*63 |
| Machine weight | 75KG |
| Power supply voltage | AC220V 50Hz |
| Single calorie measurement time | about 15 minutes |







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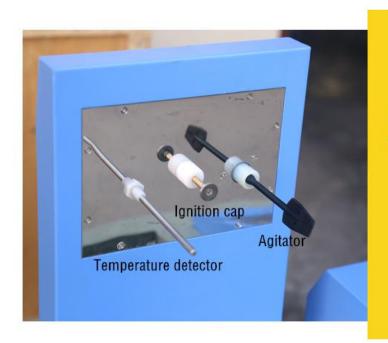
PRODUCT DETAILS



Single chip system

Advanced single-chip system, easy to operate, continuous measurement for a long time





02

Imported motor stirring

Stainless steel vacuum inner cylinder, mixing system adopts imported German motor, high precision

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03

High degree of automation

Automatically control the water volume of the inner cylinder, automatically control the temperature difference between the inner and outer cylinders of the instrument, and automatically complete the whole process of the experiment.





04

Test result printing

Rich in data processing functions, users can easily query historical test data, current data, parallel sample data and other test results.



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FOB price

\$1680/set

Note

- 1. The price is FOB Shanghai, Price and keep valid for 15 days.
- 2.Delivery is within 10 days upon confirmation of purchasing order and advance payment.
- 3.Payment term shall be 100%advance by T/T and balance before shipping