

# ATC 300A

## Automatic Oxygen Bomb Calorimeter



Automated  
Operation



Precise Temperature  
Control



Rapid  
Testing



Intelligent Dual  
Control



ATC 300A is a highly automated combustion calorimeter instrument that complies with standards such as ASTM 4809, ASTM D240, and GB/T 384. It offers fast testing times and a wide testing range, allowing for rapid and accurate measurement of the calorific values of various combustible materials. The high-precision temperature control system ensures the accuracy and repeatability of test results, while the user-friendly interface makes it easy to operate. ATC 300A finds wide applications in industries such as power generation, coal, metallurgy, construction, and petrochemicals. It provides reliable testing data and technical support to these fields, offering robust support for industry development.

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## Product Features

- The oxygen bomb features functions such as automatic lifting, automatic oxygen filling, automatic venting, and automatic recognition, making the instrument easy to operate.
- The internal and external barrels automatically handle water inlet and drainage without the need for manual intervention, ensuring accurate and reliable test results.
- The unique semiconductor refrigeration water circulation system rapidly achieves water temperature balance, reducing environmental interference.
- The software operates stably, displaying real-time data curves for a more intuitive testing process.
- Advanced serial port technology supports multi-control for multiple units, ensuring that experiments do not interfere with each other.
- Automatically generate and save charts and process data, supporting historical data retrieval.

## Technical Specifications

Operating Environment	15°C to 30°C; Maximum Relative Humidity 80%, No Condensation
Ignition Method	Cotton Thread or Ignition Wire
Temperature Resolution	0.0001°C
Test Time	Conventional Method <15min, Rapid Method <10min
Test Mode	Isoperibol
Calorific Value Testing Range	≤34000J
Calorific Precision	≤0.10%
Calorific Fluctuation	≤0.20%
Maximum Oxygen Bomb Pressure	240bar
Bomb Material	Stainless steel, Hastelloy(corrosion-resistant)
Data Storage Capacity	≥10,000 entries
Dimensions	700mm × 550mm × 600mm
Weight	80kg

## Test Standards

GB/T 384-1981	GB/T 14402-2007	GB/T 213-2008
GB/T 30727-2014	ASTM 4809-18	ASTM D240-14
ASTM D5865-2012	ASTM E711-87	ASTM D5468

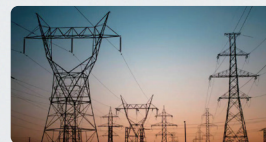
## Application Fields



Coal



Metallurgy



Electricity



Construction



Petrochemicals

