

Bomb Calorimeter

BCal 3004 Series



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Specification :

Time	15~25min
Water Requirement	Distilled water
Heat Capacity Precision	<0.15% RSD
Jacket Type	Isoperibol
Heat Capacity Stability	<0.20% within three months
Network/Balance Connection	Available (by interface RS232)
Temperature Resolution	0.0001k
Power Requirement	220V (-15% ~ 10%), 50/60Hz
Max Power	0.5kW

►► Highlights :

1. Stable Water Temperature

- Vertical type, jacket water ≥ 40 kg to ensure the stability to jacket water temperature.

2. High automation

- Automatic oxygen filler equipped, oxygen filling by one press.
- Automatic sample ignition.
- Automatic temperature rise measurement and result calculation.

3. High temperature resolution

- Temperature resolution 0.0001k by using PT1000 Platinum resistance probe.
- 4. Durable bombs need hydrostatic pressure test only once a year.
- 5. With PCI interface, several calorimeters can be controlled by a single PC.
- 6. Easy-to-use Windows-based software easy data handling.

Power Supply Stability:

- Unique design of inverter, purifies and stabilizes the power supply
- Consequently, calorimeter will not be affected by the fluctuation of power voltage (from 160V to 240V) and frequency.



▶▶ **High Accuracy And Precise Test Results:**

Constant bucket water volume and temperature:

Highly polished constant volumetric tank with temperature controlling device enables a high level of uniformity on both water volume and temperature for each test. It has successfully avoided the interference of inconsistent water volume.

Independent bucket and jacket water system:

Bucket water will be drained to water tank directly after finishing the test, so the inlet and outlet of bucket water will not affect the jacket water.

High temperature resolution:

Temperature resolution 0.0001k by using PT 1000 Platinum resistance probe.

Stable and reliable water quality:

Equipped with high quality water purification device, the water quality of each test is guaranteed (Unique water cooling system)

▶▶ High Efficiency & Automation:

Test in turn without waiting:

- With bomb identifier, up to four bombs can be recognized
- After completion of one test, another test can commence immediately by replacing another bomb.

High Automation:

- Automation oxygen filter equipped, oxygen filling by one press.
- Automatic controlling of water volume, filling heating, emptying and jacket water circulation.
- Automatic sample ignition
- Automatic temperature rise measurement and result calculation.



▶▶ Easy to operate, handle and maintain:

- Easy to use Windows-based software
- Easy data handling, real time data can be transmitted by internal network.
- With CAN bus interface, several calorimeters can be controlled by a single PC
- Connected with balance and network by standard interface RS232
- Durable bombs need hydrostatic pressure test only once a year.

▶▶ **HPLC Servicing, Validation, Trainings and Preventive Maintenance :**

- 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.
- AMC’s/CMC : We offer user training both in-House and at customer sites on PLC principles, operations, troubleshooting.
- Validations : We have protocols for carrying out periodic Validations as per GLP/ GMP/U SFDA norms.
- Instruments : We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.



▶▶ **About Analytical Technologies**

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

▶▶ **Our Products & Technologies**

						
UV/VIS Spectro 2080+ Double Beam	Infra FTIR	Optima Gas Chromatograph 3007	Optima Gas Chromatograph 2979 Plus	Flash Chromatograph	Atomic Absorption Spectrophotometer	Liquid Partical Counter
						
Optical Emission Spectrophotometer	DSC/TGA	Semi Auto Bio Chemistry Analyzer	HEMA 2062 Hematology Analyzer	Micro Plate Reader/Washer	URINOVA 2800 Urine Analyzer	Total Organic Carbon 3800
						
Fully Automated CLIA	NOVA-2100 Chemistry Analyzer	PCR/Gradient PCR/ RTPCR	TOC Analyzer	Laser Particle Size Analyzer	Ion Chromatograph	Water purification system

▶▶ Regulatory compliances



▶▶ Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



Analytical Foundation

1. Research & Innovation Scientist's awards / QC Professional Award: Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org

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.

▶▶ Reach us @



HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W. www.ais-india.com
www.analyticalgroup.net
www.hplctechnologies.com
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