



Automatic Bomb Calorimeter LABC-B11



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Automatic Bomb Calorimeter LABC-B11 comes with semi-automatic oxygen filling and releasing system. Equipped with blades to achieve high stirring efficiency, and faster heat transfer of oxygen bomb to reduce test period. It is confirmed to the international standards ASTM D5865, ISO 1928.

Features

- Supports oxygen bomb tightness examination
- Delivers accurate test results using large quantities water
- Difference of jacket water temperature in each test is less than 0.1K
- Strong data processing capability, statistics report, printing function
- Authentic test data, No software modification
- RS232 interface
- Reliable teste data, no need of software modification

Applications

Used in coal, petroleum, cement, farming, medical research, electronics for measurement of Calorific Value of combustible materials.

Specifications

Model no.	LABC-B11
Calorimeter type	Isoperibol
Oxygen filling	Semi-automatic
Bomb volume	282 ml
Analysis time	15 to 25 min
Bomb washing	Manual
Bomb pressure (maximum)	20 MPa
Bomb identity	No
No. of Tests	2 to 4/ hour
Temperature resolution	0.0001 K
Precision (RSD)	≤ 0.15 %
Heat Capacity Stability	≤ 0.25 % within three months
Gas requirement	≤ 0.25 % within three months
Water requirements	99.5 % Oxygen
Energy measurement range	Distilled water
Bucket filling	0 to 50000 J
Stirring method	Semi-Automatic
Reproducibility	Blade
Temperature Increase	0.15 % (analysis of 1 g of benzoic acid)
Temperature measurement	2°C (average)
Working temperatures	Pt1000 (temperature probe)
Cooling type	≤ 32°C
Network	Automatic by water circulation
Maximum Power	Yes
Power Inverter	No
Power supply	220 V ±, 15 to 10 %, 50/60 Hz
Advance Calculations	No
Dimension	Main body: 600 × 417 × 908 mm
Weight	106 kg

Optional Accessories

Accessories no.	Name	Unit	Qty.
01	Ignition thread (500 pieces) Box	Box	20
02	Standard Benzoic Acid (1 gm * 10 pieces)	Bottle	10
03	Gasket Ring for Oxygen Filling Facility (big, middle, small)	Set	15
04	Heating Crucible	PC	60
05	Oxygen bomb gasket ring (big, middle, small)	Set	15
06	Plastic insulation cover	Set	5
07	Special Oxygen filling pipe	PC	2
08	Electrodes	Set	1