



# Oxygen Bomb Calorimeter

# Oxygen Bomb Calorimeter

## Oxygen Bomb Calorimeter LBC-C20

Labodam LBC-C20 is manufactured with desktop computer and test software. The instrument is designed and made as per the International Standards ASTM D5865-13 "Test Methods for Heat of Coal", ASTM D240-17 "Test Methods for Calorific Value of Petroleum Products" and ASTM D4809-13 "Oxygen Bomb Calorimeter".

### Features

- Desktop computer to control whole test
- Record and save test data automatically
- Equipped with test software
- User-friendly and operation convenience

### Applications

It is widely used to determine heat value of coal, oils, tar, and paraffin, etc. It is the desired instrument for power plants, smelting, cement, and petrochemical, scientific research institutes, and colleges and universities.

### Specifications

Model No.	LBC- C20
Heat capacity	14000~15000J/K
Temperature measurement range	10~35°C
Temperature resolution	0.001°C
Repeatability error	≤0.2% (Grade C)
Endured pressure in oxygen bomb	20MPa
Operation environment temperature	15~28°C
Temperature fluctuation	Not more than 1°C during a test
Ambient temperature	Less than 85%
Power supply	AC 220V±5%, 50 Hz

# Oxygen Bomb Calorimeter

## Oxygen Bomb Calorimeter LBC-C21

Labodam LBC-C21 is designed with high precision sensor and microprocessor to get reliable and accurate results. It is designed and made as per the International Standards ASTM D5865-13 “Test Methods for Heat of Coal”, ASTM D240-17 “Test Methods for Calorific Value of Petroleum Products” and ASTM D4809-13 “Oxygen Bomb Calorimeter”.

### Features

- High precision sensor
- Accurate and reliable
- Microprocessor for control and led for display
- Stirring motor has nonoise
- Easy transportation

### Applications

It is mainly used in petroleum, chemical, automobile and development industries. It is suitable for determining heat value of petroleum products (Gasoline, jet fuels, diesel oil and fuel oils), which do not contain water, coal, paraffin and other combustible substance.

### Specifications

Model No.	LBC-C21
Temperature controlling range	10°C~35°C
Temperature resolution	0.001°C
Temperature saved	31 pieces
Endured pressure of oxygen bomb	20MPa Test pressure in oxygen bomb: 3MPa
Mean value of heat capacity	15kJ/K
Measurement accuracy for heat value	≤0.2%
Ambient temperature	20°C±5°C
Relative humidity	≤85%
Dimension	400×400×600mm
Weight	18 kg

# Oxygen Bomb Calorimeter

## Oxygen Bomb Calorimeter LBC-C22

Labodam LBC-C22 is manufactured with high precision temperature sensor and a high performance A/D converter. The instrument is designed and made as per the International Standards ASTM D5865-13 "Test Methods for Heat of Coal", ASTM D240-17 "Test Methods for Calorific Value of Petroleum Products" and ASTM D4809-13 "Oxygen Bomb Calorimeter".

### Features

- High precision temperature sensor
- A high performance A/D converter
- Automatic and easy operate

### Applications

It is the desired instrument for power plants, smelting, cement, and petrochemical, scientific research institutes. It is widely used to determine heat value of coal, oils, tar, and paraffin, etc.

### Specifications

Model No.	LBC-C22
Temperature measurement range	10~35°C
Temperature resolution	0.001°C
Repeatability error	≤0.2% (Grade C)
Endured pressure in oxygen bomb	20MPa
Operation environment temperature	15~28°C
Temperature fluctuation	Not more than 1°C during a test
Ambient humidity	Less than 85%
Heat capacity	14000~15000J/K
Power supply	AC 220V±5%, 50Hz



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