

Isothermal Bomb Calorimeter BCM-P



This is additionally provided with a Automatic Gas Filling Adaptor which simplifies the Oxygen filling procedure. The valve opens and allows filling of Bomb with Oxygen because of Oxygen pressure for cylinder. It closes when pressure from Oxygen Cylinder is cut off.

Our latest design of easy to use Gas Filling System greatly reduces of damage to the costly Gas Filling Tubes with our latest design of Stainless Steel braided PTFE Hose. Our tests have indicated that this new Gas Filling System reduces the time taken for Oxygen charging from around 10-13 minutes (using the copper tube) to less than 3 minutes (using the new Gas Filling System) while simultaneously avoiding chances of cross-threading & subsequent damage to the Gas Filling System. Each Advance Calorimeter Bomb is tested thoroughly before it leaves the factory at internal pressure of 300kg/cm² for a period of 10 minutes without any sign of leakage in accordance with requirements of the Institute of Petroleum (I.P. 12/58T, Appendix I), IS:1350 (Part-II) 1970 and works Test certificate issued with each Bomb.

Key Features

Bomb Body and Lid are fabricated from Corrosion Resistant Stainless Steel Alloy.

Extremely Easy to use Push Fit Type Gas Filling System.

Each Combustion Bomb tested at a pressure of 300 kg/cm² for 10 minutes as per IP guidelines.

Calorimeter Jacket and Water Jacket fabricated from Chromium plated copper.

Safety Relief Valve for user safety.

New Soft Control Fine Regulating Valve with built-in pressure gauge.

Latest Design Compact Stirrer to minimize external heating effect.

New High Accuracy Digital Temperature Indicator with built-in printer.

High Mechanical standards and easy controls.

Accurate, Reliable and User Friendly.

Note: Due to process of continuous improvements, specifications are subject to change without prior notice

Accessories

Combustion Bomb (Standard)

Combustion Bomb (Halogen Resistant)

Crucible (Stainless Steel)

Crucible (Quartz)
 Crucible (Platinum)
 Ignition Wire - Standard (100 pc pack)
 Ignition Wire (Platinum)
 Electrode Set
 Schrader Valve
 Sensor
 Strirrer
 Bomb Lid Stand
 Connecting Lead
 Main Gas Filling Valve Assembly.
 Cotton Thread.
 Gasket Ring for combustion Bomb.
 Gasket Ring Set for Adaptor.
 Standard Benzoic Acid Pellets.
 Benzoic Acid Powder
 Standard Coal Sample.
 Fine Regulating Valve with Built in Pressure Gauge
 Pressure Gauges.
 S S Braided Ptfе Tube with Adaptor
 Printer Cartage
 Printer Paper Roll
 Spare Printer
 Digital Temperature Indicator w/o Printer
 Digital Temperature Indicator with Printer
 Fuse
 Printer Stand

Model	BCM-P
Operational Principle	Isothermal
Fundamental Standards	BIS-1350 (Part-2), IP-12/63T
Technical Specifications*Inner Vessel	Electroplated Copper
Outer Jacket	Electroplated Copper & water Filled/Puff Insulation (Optional)
Bomb Design	schrader Valve
Bomb & Bucket	Removable
Oxygen Filling	Manual
Sensor	Single Sensor
Temperature Accuracy	0.01 deg C
R.S.D	0.05%-0.1% with Benzoic Acid
Range	1000-12000 Cal/g
Display	Digital Temperature with Time
Printer Facility (Temp Vs Time)	Available
Stirrer	Compact 12V DC
Bomb Firing	Manual
Calculation	Manual
Testing Time	10 Minutes approx.
Operating Temperature	15-30 deg C
Weight	30 Kg approx.
Power Input & Requirement	<1.0KW, 230V+10V, 50 Hz

