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Product Name :
Bomb Calorimeter

Product Code :
SCHOOL-FLE910005



Description :

Bomb Calorimeter

Technical Specification :

Bomb body is machined from corrosion resistant stainless steel alloy

Each bomb is tested at a pressure of 300 atm for 10 minutes

Offset stirrer precludes heat from motor to Calorimeter Vessel

No temperature correction

Detection of maximum rise of temperature

Windows based software

Temperature resolution: ± 0.0010 C

Memory Storage: 100 data

Battery backup for stirrer and Microprocessor unit (UPS)

RS 232C interface to connect with computer

Soft touch keypad

Auto firing (With software only)

LCD display with backlit 16 x 2 characters

Easy to handle and operate

The following tasks are Automated with the Microprocessor Bomb Calorimeter with Software:

Automatic feeding of Calorific values of ignition wire and cotton thread

Automatic firing in the bomb

Automatic detection of maximum rise of temperature

Automatic calculation of Heat Capacity of Bomb Calorimeter (Equivalent Value)

Automatic calculation of Calorific Value of samples

Automatic saving of Heat Capacity of Bomb Calorimeter and Calorific Values in summary format

Automatic delivery of result data in report format

The Digital Differential Temperature/Firing Unit with Electronic Timer Features:

Temperature Indication: 3.5 Digit digital display

Differential Temperature range: 0 – 100 C

Reading Resolution of temperature: 0.001° C

Firing Voltage for Bomb: 12 VAC

LED Indication for filament continuity

LED Indication for Bomb Combustion

Bomb Calorimeter is supplied with the following items

Combustion Bomb: Cotton Reel

Calorimeter Vessel: Stand for Bomb Lid

Combined Lid: Hook for lifting Bomb

Stirrer Crucible – 2 nos.

Connecting Leads: Gelatine Capsules – 50 nos.

Connecting tube for Oxygen Cylinder: Gas Release Valve

Adjustable Spanner: O – Rings for Bomb and Stirrer

Nichrome Ignition Wire (20 M. 36 SWG): Valve for Bomb

Valve Key: Pellet Press

Benzoic Acid – 10 Tablets: Instruction Manual

Insulated Calorimeter Jacket: Battery Backup (UPS)

Leads to connect Microprocessor unit to PC: Computer with Printer (Optional)

Platinum Wire (Optional): Semi Auto Gas Filling Device (Optional)

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