

Automatic Bomb Calorimeter ALH- 1160



AUTOMATIC BOMB CALORIMETER ALH- 1160

SALIENT FEATURES

- Automatic measurement & mathematical calculation
- USB interface for sending data to PC .
- Full test report print out by inbuilt thermal printer.
- Weight of sample , water equivalent & sensitivity can be set through keypad on single page.
- Automatic detection of temperature rise & fall.

TECHNICAL SPECIFICATIONS

- Display - 128 x 64 Graphical LCD
- Keypad - 20 keys
- Temperature Resolution - 0.001°C
- CV Measuring Range - 0 to 10,000 Kg / cal.
- Internal Memory - 1000 logs with date and time
- Interface - USB interface to PC
- Printer - Inbuilt thermal printer
- Time Clock - Real time clock with battery backup
- Power supply - 230V ± 10 % / 50Hz

STANDARD ACCESSORIES

- Bomb Calorimeter (Microprocessor Unit)
- Temp Probe
- Bomb SS - Sample (Unit)
- SS Crucible – Sample Holder
- Nichrome Wire (Ignition) – 25 Mtr
- Thread – 100 Mtr
- Bomb SS Drum (Large)
- Drum Lead
- Bucket Stainless Steel With Coating
- Pressure Regulator (In Side Kit Regulator Use Only Low Pressure)
- Pallet Press Manual
- Stirrer Belt “ O “ Ring Big Size
- “ O “ Ring Of Valve Body Small Size
- “ O “ Ring Of Oxygen Bomb Lead Medium Size
- L Hook Bomb Lifting
- Range For Oxygen Valve Fitting
- Gas Safety Valve With Outlet Gas Gauge
- Oxygen Filling Charging Hose Pipe
- NRV Valve
- NRV Valve Fitting Key
- Gas Release Valve Or Pin
- Wire Both Side Banana Plug
- Benzoic Acid { Standard Value 6300 Cal/Gm }
- Stirrer Motor
- Power Cable

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SPECIFICATION

Althea Bomb calorimeters are widely used for determining gross calorific values of liquid and solid samples. AUTOMATICALLY. User doesn't need to make any manual calculations, all calculations are done automatically displayed, printed and transferred to PC.

All the processes is done by highly intelligent microprocessor program. We use special imported calibrators for proper calibration of the system.

The controllers are specially designed & manufactured to achieve best possible measuring accuracy desired by the user.

BOMB CALORIMETER OUTFIT

Althea Technology provides a simple and inexpensive method for determination of heat of combustion of organic matter and the calorific value & sulphur content of solid & liquid fuel. The outfit supplied is complete for analysis as per method recommended by British Standard Institute BS 1016. All part of outfit have finished and tested according to the specification laid down by institute of petroleum and British standard institute.

TESTING OF BOMB

Each Bomb is tested before it leaves the factory. In accordance with the requirement of the institute of petroleum (I.P. 12/63 T. Appendix 1) and a works certificate is issued with each Bomb. This certificate gives the result of hydraulic testing under pressure of 300 atmospheres (4400 psi) maintain for a period of ten minutes without any sign of leakage. The maximum deformation must not exceed the specified limits.

CALORIMETRIC VESSEL

The vessel is made up of copper and is chromium plated or SS. It includes a Bomb support that ensures proper positioning of Bomb in the vessel.

WATER JACKET

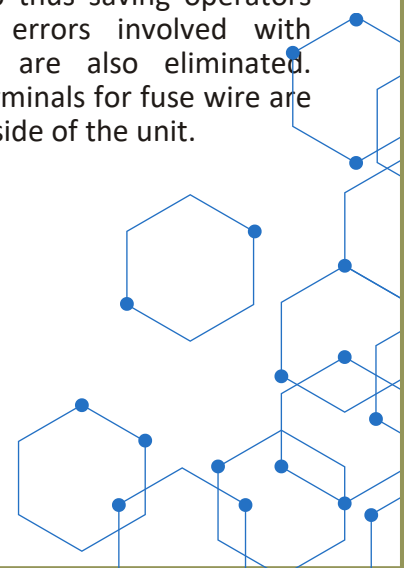
The outer container of Jacket is made up of Stainless Steel. The top is closed by the back-light cover called combined lid. A terminal block is fitted to the top of the container so that Connection can be made from the Electronic firing unit and provisions for water pouring and water outlet are also given at the top and bottom respectively.

OFFSET STIRRER

The stirring mechanism supplied gives sufficient turbulence for effective stirring whilst no heat is imparted to the calorimeter water. It consists of an impeller stirrer driven at a constant speed of approximately 800 rpm. The offset arrangement whereby the motor drives the impeller via a belt precludes any possibility of heat transference between motor and calorimeter Vessel Contents.

ELECTRONIC FIRING UNIT WITH DIGITAL BECKMANN THERMOMETER & PRINTER

The unit incorporates a digital Beckmann thermometer for the precise measurement of the rise in temp and electronic circuitry that provides the electrical means for firing the samples, This unit also has printer that prints the temp. reading after every 30 secs. (approx.) As the rise in temp reading are being recorder by the printer continuously so the operator is totally free to do any other job thus saving operators time and the human errors involved with recording the readings are also eliminated. Sockets for stirrer and terminals for fuse wire are also provided at the backside of the unit.



ALTHEA TECHNOLOGY GST PROVISIONAL ID : - 27BECPG5125H1ZS

Address : Office No. 142, First floor, Lodha Boulevard, Nr Lodha Paradise, Majiwada, Thane (West)-400601 Mumbai, INDIA

Mobile : +91- 9930833683 / 8928808788

Email : sales@altheatechnology.in/ info@altheatechnology.in/ milan@altheatechnology.in service@altheatechnology.in

Web : www.altheatechnology.com