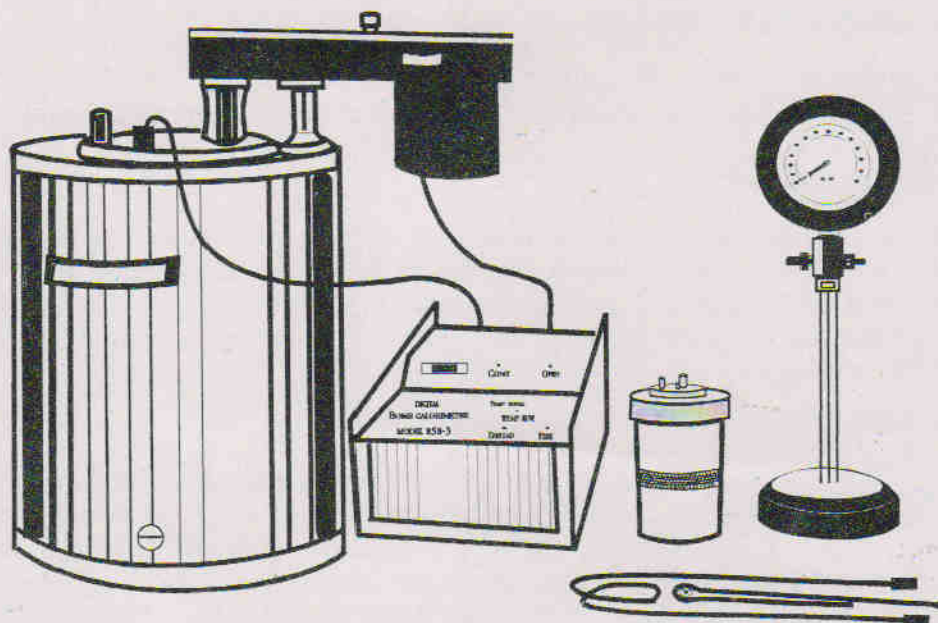




DIGITAL BOMB CALORIMETER

Cat. no. RSB - 3 with safety device & certified Bomb
RSB-5 WITH PUFF INSULATION

FOR DETERMINATION OF CALORIFIC
VALUE OF LIQUIDS & SOLIDS



Designed in accordance with the specifications
of the Institute of Petroleum and the British Standard Institution.
(AS PER IS:1350-1966)

Manufactured by:
RAJDHANI SCIENTIFIC INSTRUMENTS CO. (REGD.)
NEW DELHI (INDIA)



BOMB CALORIMETER OUTFIT

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 the method recommended by British Standard Institution BS 1016. All parts of the outfit have been finished and tested according to the specifications 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 results of hydraulic testing under a pressure of 300 atmospheres (4400 p.s.i) maintained for a period of ten minutes without any sign of leakage. The maximum deformation must not exceed the specified limits.

CALORIMETER VESSEL

The vessel is made up of copper and is Chromium plated or S.S. 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 bakelite 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 r.p.m. 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

The unit incorporates a digital beckmann thermometer for the precise measurement of the rise in temperature and electronic circuitry that provides the electrical means for firing the samples. Sockets for stirrer, sensor and terminals for electric leads are also provided at the backside of the unit.

CRUCIBLE

Various types of crucible are available but the standard supplied with the outfit being a stainless steel crucible of 8 ml capacity which fits in the standard support ring provided with the outfit.

DIGITAL BOMB CALORIMETER WITH PRINTER

FOR DETERMINATION OF CALORIFIC
VALUE OF LIQUIDS & SOLIDS



MODEL: CAT NO. RSB-6 WITH SAFETY DEVICE
AND WATER JACKET WITH PUFF INSULATION

Designed in accordance with
the specifications of the Institute of Petroleum and
the British Standard Institution.



Manufactured by :

RAJDHANI SCIENTIFIC INSTRUMENTS CO. (Regd.)
NEW DELHI (INDIA)



BOMB CALORIMETER OUTFIT

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 the method recommended by British Standard Institution BS 1016. All parts of the outfit have been finished and tested according to the specifications 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 requirements 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 results of hydraulic testing under a pressure of 300 atmosphere (4400 p.s.i.) maintained for a period of ten minutes without sign of leakage. The maximum deformation must not exceed the specified limits. Combustion Bomb certified by National Test House/Regional Testing Centre/ any other Reputed institute can be supplied on extra charges.

CALORIMETER VESSEL

The vessel is made up of copper and is Chromium plated or S.S. 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 copper and is chromium plated both inside and outside or S.S. The top is closed by a Bakelite cover. A terminal block is fitted on the top of the container so that Connections can be made from the firing control.

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 driven by a stirrer at a constant speed. The offset arrangement whereby the motor drives the impeller via belt precludes any possibility of heat tranference between motor and calorimeter Vessel contents.

ELECTRONIC FIRING UNIT WITH DIGITAL BACKMANN THERMOMETER & PRINTER

The unit incorporates a Digital Backmann Thermometer for the precise measurement of the Rise in temp. and an electronic circuitry that provides an electrical means for firing the samples. This unit also has a printer that prints the temp. readings after every 30 Sec (approx). As the rise in temp. readings are being recorded 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. Socket for stirrer & terminals for fuse wire are also provided at the back side of the unit.

CRUCIBLE

Various types of crucible are available but the standard supplied with the outfit being a stainless steel crucible of 8 ml. capacity which fits in the standard support ring provided with the outfit.



Rajdhani Scientific Instruments Co. (Regd.)

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Ref. No.....

Dated.....

RAJDHANI DIGITAL BOMB CALORIMETER WITH PRINTER & AUTO GAS FILLING UNIT MODEL RSB – 6A



FEATURES:

1. BOMB CERTIFIED BY R.T.C. (GOVT. LAB) FOR HYDRAULIC PRESSURE
2. DIGITAL BECKMANN THERMOMETER WITH IN-BUILT PRINTER
3. AUTO GAS FILLING UNIT
4. OUTER JACKET WITH PUFF INSULATION
5. LOW VOLTAGE OFFSET STIRRER
6. FLEXIBLE TUBES FOR GAS FILLING
7. BENZOIC ACID OF KNOWN CALORIFIC VALUE