



DIGITAL BOMB CALORIMETER

FOR DETERMINATION OF CALORIFIC VALUE OF LIQUIDS & SOLIDS



CAT NO RSB 5 - WithOut Printer
CAT NO RSB 6 - With Printer

**Both RSB₆ & RSB₅ Models Comes Complete with
Accessories for analysis**

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

Test Certificates i.e. Digital Beckmann Thermometer & Hydraulic
Pressure Test of S.S.Bomb are provided with the Instrument.



BOMB CALORIMETER OUTFIT

Rico Digital Bomb Calorimeter provides a simple and inexpensive method for determination of heats of combustion of organic matter and the calorific value & sulphur contents 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 (LP. 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. 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, while 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 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 temp. and an electronic circuitry that provides an electrical means for firing the samples. 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 supporting ring provided with the outfit.

We also manufacture :

* Infra Red Moisture Balance, Polarimeters * Abbe Refractometer * Pocket Refractometer B & S Type 0.05% & 40-85% * Oil & Sugar Refractometer * Carbon & Sulphur Determination Apparatus * Ultra Violet Cabinets * Freeze-Dryers, * Paint Testing Equipments i.e., Digital Stormer Viscometer, Digital Gloss Meter, Impact testers, Scratch testers etc. * Oil testing instruments * Abbe Refractometer Improved Model RSR-2 etc.

