



ISOPERIBOL BOMB CALORIMETER

EN ISO 1716



THE ULTIMATE IN FIRE TESTING



The Concept Isoperibol Bomb Calorimeter

The Concept Isoperibol Bomb Calorimeter utilises the latest developments of the traditional removable bomb and bucket calorimeter with a water circulation jacket for unrivalled accuracy and repeatability. This is integrated into a compact ergonomically-designed case with the latest touch-screen, embedded computer and networking technology.

Standards

EN ISO 1716

- Test method EN ISO 1716, Fire Technical Testing of Building Products – Determination of Calorific Potential
- UKCA and CE compliant

Part Number: 307030





Features and Benefits

- 1108 Combustion bomb calorimeter and bucket
- Thermal water jacket with continuous forced flow circulating water system including:
 - Immersion heater operated by the calorimeter controller
 - Built-in heat exchanger operated by the calorimeter controller
 - Temperature resolution of 0.0001°C
 - Precision classification of 0.1%
- The A391DD removable bucket has been designed to hold the bomb, stirrer and thermistor with a minimum volume of water and to provide an effective circulating system which will bring the calorimeter to rapid thermal equilibrium both before and after firing
- Concoa oxygen regulator specifically designed for use with this instrument
- The calorimeter incorporates a semi-automatic oxygen fill feature which speeds up and simplifies the bomb filling/charging operation
- Oxygen is connected to a microprocessor controlled solenoid installed in the calorimeter. To fill the bomb, the operator simply slips the filling hose connector onto the bomb inlet valve and pushes the touch screen to start the filling sequence
- 6-8 Tests per hour possible
- Operation time per test is 6 minutes
- Precision classification: 0.1% class
- One bottle of benzoic acid for calibration (100 pellets) included with instrument
- One pack of six combustion crucibles and fuse wires for up to 500 firings included with instrument





Options

- 1108, additional combustion bombs
- 1108CL, additional oxygen combustion bomb for chlorine service
- Additional calorimeter bucket
- 1759, printer with interface cable
- 6510EF, water handling system with measuring pipette and thermoelectric water cooler
- One pack of six combustion crucibles and fuse wires for up to 500 firings
- Various pellet presses for efficient sample preparation





Technical Data

Electrical	110V to 230V AC 50Hz / 115V AC 60Hz, 5 Amps Single Phase
Ambient Temperature	Operating 10°C to 35°C
Product Dimensions	430mm (H) x 570mm (W) x 400mm (D)
Shipping Details	Box 1: 330mm (H) x 520mm (W) x 370mm (D) Box 2: 570mm (H) x 780mm (W) x 540mm (D)
Service/Maintenance	Concept recommend that equipment be serviced every two years in order to ensure reliable service
Calibration	Benzoic pellets included for instrument self-calibration

Services Required

Gas Requirements	The calorimeter requires a source of 99.5% oxygen and de-ionized water for operation. If a closed loop system is chosen, the water handling system must be installed to the left of the calorimeter
Electrical Supply	The power input connection lead should be fitted with a suitable mains plug, specific to the country of installation. This should also provide an effective earth connection.

Documentation



Operation manual in English

Concept Equipment Certificate of Conformity in English

Due to Concept Equipment's policy of continuous product development, technical information is subject to change.

CONCEPT EQUIPMENT LIMITED

57–59 The Vinery, Arundel Road, Poling, West Sussex, BN18 9PY

Tel: +44 (0)1903 784336 Email: hello@concept-e.co.uk Web: www.concept-e.co.uk