



BOMB CALORIMETER C200/230



1
study

Features

- Reaction vessel manufactured from Stainless steel
- Vessel capacity of 300ml
- Supplied complete with electronic digital thermometer, pellet press, ignition wire, pressure gauge & pressure regulator

Description

The C200 is a conventional bomb calorimeter, with a stirred and highly insulated water vessel. The reaction vessel is machined from corrosion resistant Stainless steel and has a volume of approximately 300ml. The calorimeter allows measurement of heat of combustion of solid and liquid fuels and determination of their calorific value. The calorimeter is provided with high pressure valves and ignition electrodes together with a firing unit. Additional essential components supplied; include an electronic digital thermometer (with a resolution of 2 decimal places), pellet press (for powdered fuel), ignition wire, pressure gauge, safety bursting disc and a bottle pressure regulator for safer oxygen charging and a highly accurate set of digital scales.

Related Laws/Applications

- Combustion
- Thermodynamics
- Energy Conservation
- Mechanical Engineering
- Fuel Technology
- Fuel Research

Learning capabilities

- Measurement of Calorific value of liquid fuel
- Measurement of Calorific value of solid fuel
- Comparison with a standard fuel

Technical Specification

- Stainless steel vessel with a capacity of 300ml
- Electronic digital thermometer to 2 decimal places
- Pellet press
- Ignition wire
- Pressure gauge
- Safety bursting disc
- Bottle pressure regulator
- Digital scales

Essential Ancillaries

- Commercial Oxygen in a suitable vessel capable of pressurising the reaction vessel up to 25 Bar gauge.

What's in the Box?

- Stainless steel vessel with a capacity of 300ml
- Water Jacket & Lid
- Offset Stirrer
- Electronic digital thermometer to 2 decimal places
- Pellet press
- Ignition wire
- Pressure gauge
- Safety bursting disc
- Bottle pressure regulator
- Digital scales

Weights & Dimensions

- Weight: 25Kg
- Length: 900mm
- Width: 900mm
- Height: 500mm

Essential Services

- Oxygen: Commercial oxygen in a suitable vessel capable of pressurising the reaction vessel up to 25 bar gauge
- Electrical: 230/240 volts, single phase, 50Hz (with earth/ground)

Ordering information

To order this product, please call PA Hilton quoting the following code:
C200/230 - Bomb Calorimeter

All brand and/or product names are trademarks of their respective owners. Specifications and external appearance are subject to change without notice. The colour of the actual product may vary from the colour shown in the brochure.

Copyright © 2018 P.A. Hilton Limited. All rights reserved. This technical leaflet, its contents and/or layout may not be modified and/or adapted, copied in part or in whole and/or incorporated into other works without the prior written permission of P. A. Hilton Limited. Hi-Tech Education is a registered trade mark of P. A. Hilton Limited.

COUNTRY OF ORIGIN - UK WARRANTY PERIOD - 5 YEARS