



IKA

analytical equipment
designed for scientists



EN | C 200 Calorimeter

Calorimeter C 200

Compact low cost semi automated calorimeter to determine calorific values of liquid and solid samples. Suitable for educational purposes (e.g. technical schools, universities) and for commercial, industrial laboratories with a low number of samples.

The system can be adapted to individual laboratory tasks by adding further accessories.

The C 200 includes the following components:

- > Basic device (measuring cell) C 200 incl. power pack and ignition adaptor
- > Decomposition vessel C 5010
- > Oxygen station C 248
- > Further consumables for installation and calibration included

Technical data

Range of measurement	40.000 J
Reproducibility based on analysis of 1 g benzoic acid NBS 39i	0,1 % RSD
Operating oxygen pressure	30 bar
Starting temperatures	25 °C
Input power max.	120 W
Rated voltage	24 V DC, 5A
Fuse	1 x 2.5 AT
Dimensions (W x D x H)	400 x 400 x 400 mm
Weight	21 kg
Protection class	III
Interfaces	1 x serial (RS 232) 1 x parallel (Centronics)
Ambient temperature	20 – 25 °C (constant)
Ambient humidity	80 %
Protection class according to DIN EN 605	IP 20

Measuring modes

isoperibol	up to 17 min
dynamic	up to 8 min
manual (isoperibol)	up to 17 min
time-controlled	up to 14 min

**KEY FEATURES C 200 CALORIMETER**

- > Space saving, low cost combustion calorimeter to determine calorific values of liquid and solid samples
- > Four different test procedures isoperibol, dynamic, manual and time-controlled allow ideal adaptation to various tasks
- > Calorific value measurement in accordance with DIN 51900, ISO 1928, ASTM D240, ASTM D4809, ASTM D5865, ASTM D1989, ASTM D5468, ASTM E711, GOST 147, GOST 21261
- > Manual oxygen handling and water preparation, automatic ignition and calculation of calorific value (fully automated water filling and draining in a closed loop can be achieved with the accessories RC 2 basic and C 200.RC hose set)
- > Suitable for use with Calwin C 6040 calorimeter software: monitoring and visualisation of measuring procedure (data export and further processing is possible in Excel)

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