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
> Decompostion 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

C 200.RC	**RC 2 basic**	**C 4**	**C 723**
Set of hoses	Recirculating chiller	Quartz dish	Benzoic acid
Ident. No.	Ident. No.	Ident. No.	Ident. No.
0020010835	0004171000	0001695500	0003717400

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)