



new

- Recommended for learning and teaching purposes as well as industrial laboratory use
- Space saving, low cost combustion calorimeter to determine calorific values of liquid and solid samples
- Calorific value measurement in accordance with DIN 51900, ISO 1928, ASTM D240, ASTM D4809, ASTM D5865, ASTM D1989, ASTM D5468, ASTM E711
- Four different test procedures isoperibol, dynamic, manual and time-controlled allow ideal adaptation to various tasks
- Clear, self-explanatory and easy to operate display
- Includes external power pack, complies with all global voltages from 100 - 240 V AC, 50/60 Hz; calorimeter is powered with a low operating voltage 24 V DC
- Highly operator maintenance friendly
- Manual operating mode (learn mode): ignition and end of measurement are activated by user; changes are displayed in one minute intervals; all calculations need to be performed manually
- Isoperibol, dynamic and time-controlled modes: automatic ignition and calculation of calorific value; result is displayed
- With Calwin C 5040 software: monitoring and visualisation of measuring procedure (data export and further processing is possible in Excel and / or Word etc.)

The C 200 system includes the following components:

- Basic device (measuring cell) C 200 incl. power pack and ignition adaptor
- Decomposition vessel C 5010
- Oxygen station C 248

SYSTEM PROPERTIES

With the addition of available accessories the system can be adapted to individual laboratory tasks. The system offers the following features:

- Clear and self-explanatory menu
- Range of measurement: max. 40.000 J (equals a temperature increase of approx. 4 K in the inner vessel)

- Four different possible test procedures:

Measuring mode	Measuring time
isoperibol	approx. 17 min
dynamic	approx. 8 min
manual (isoperibol)	approx. 17 min
time-controlled	14 min



ACCESSORIES

C 5010	IKA®-decomposition vessel, standard
C 5010.4	Attachment for combustible crucible
C 5010.5	Crucible holder, big
C 5010.6	Venting button
C 5030	Venting station
C 5040	CalWin®, calorimeter software
C 21	Pelleting press
C 29	Pressure gauge, oxygen
C 200.1	Measuring cup 2.000 ml

TECHNICAL DATA

External power supply unit: • Rated voltage/frequency • Input power max.	100 - 240 V AC / 50/60 Hz 120 W
Calorimeter: • Rated voltage • Input power max.	24V DC 5A 100 W
Fuse	1x 2.5 AT
On-time	continuous operation
Protection class according to DIN EN 60529	IP 21
Protection class	III
Ambient temperature	20°C ... 25°C (constant)
Ambient humidity	80 %
Dimensions (WxDxH)	400 x 400 x 400 mm
Weight	21 kg
Range of measurement	40.000 J
Measuring mode	isoperibol dynamic manual time-controlled
Interfaces	1 x serial (RS 232) 1 x parallel (Centronics)

CONSUMABLES

C 710.4	Cotton thread, cut to length (x500)
C 5010.3	Ignition wire, spare (x5)
C 4	Quartz dish
C 5	Set of VA combustion crucibles (x25)
C 6	Quartz crucible, big
C 710.2	Set of VA combustion crucibles, big (x25)
C 9	Gelatine capsules (x100)
C 10	Acetobutyrate capsules (x100)
C 12	Combustion bags, 40 x 35 mm (x100)
C 12A	Combustion bags, 70 x 40 mm (x100)
C 43	Benzoic acid (NBS 39i, 30 g)
C 43A	Benzoic acid (100 g)
C 723	Benzoic acid, blister package (x50)
C 14	Combustible crucible (x100)
C 15	Paraffin strips (x600)

We recommend the **IKA®** analytical mill A 11 basic for sample homogenizing.