





The C 200 h auto package allows operating the C 200 with a completely automated water cycle. This results in ease of handling and saves valuable time especially for laboratories with a low number of analyses. The water circulates in a closed loop and is kept at a constant temperature by using a recirculating chiller. This leads to shorter preparation time for each experiment and even better reproducible results.

The scope of delivery includes: C 200 calorimeter measuring cell C 5012 halogen resistant, catalytic activated decomposition vessel

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C 200.2 conversion kit for C 5012 C 248 oxygen filling station RC 2 basic circulating chiller C 200.RC hose set Consumables for calibration and installation

The semi-automated and conforming-to-standards combustion calorimeter determines the gross calorific value of liquid and solid samples. So far it has mainly been used for teaching and training purposes at technical schools and universities. Due to the automated water handling it is now also suitable for industrial laboratories with low number of analyses.

The catalytic activated, halogen resistant decomposition vessel C 5012 is specifically designed for the combustion of samples that contain halogens and sulfur (> 3 %). The material of the decomposition vessel (Hastelloy) prevents corrosion caused by samples with high chlorine content. The catalytic activated inner-surface leads to higher recovery rates in case analysis of halogens and/or sulfur is required after the combustion.

Four different operation modes enable the user to control the measuring times according to individual requirements: Isoperibol: approx: 17 min. Dynamic: approx. 8 min Manual: approx. 17 min (depends on the operator) Time controlled: 14 min

Measurements are possible according to e.g. DIN 51900, ISO 1928, ASTM D240, ASTM D4809, ASTM D5865, ASTM D1989, ASTM D5468, ASTM E711.

The software C 6040 CalWin controls the unit and monitors the measurement of the samples. Additionally, collected data can be exported to e.g. Excel, Word, SQL and LIMS for further analysis. It is possible to operate several calorimeters with one PC. A PC is not part of the scope of delivery and needs to be provided by the operator. CalWin is sold separately.



Technical Data

Measuring mode dynamic 25°C yes Massuring time dynamic approx. [min] 8 Measuring time isoperibol approx. [min] 17 Reproducibility dynamic (1g benzoic acid NBS39) [%RSD] 0.1 Reproducibility dynamic (1g benzoic acid NBS39) [%RSD] 0.1 Coling medium permissible operating pressure [bar] 0.1 Cooling medium 1ap water Type of cooling flow Coling medium permissible operating pressure [bar] 2 Cooling medium flow Rc. 1ow rate at 1°C [In] 60 Oxygen operating pressure max. [bar] 60 Interface PC Rc32a2 Works according to DIN 51900 yes Works according to DIN 51901 yes Works according to DIN EN 150 18125 yes Works according to DIN EN 15418 yes Works according to DIN EN 15418 yes Works according to DIN EN 15400 yes Works according to DIN EN 15418 yes Works according to DIN EN 15418 yes Works according to DIN EN 154918 yes Works according to ASTM D468	Measuring range max. [J]	40000
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RS 232 interface yes Voltage [V] 100 - 240 Frequency [Hz] 50/60		80
Voltage [V] 100 - 240 Frequency [Hz] 50/60	Protection class according to DIN EN 60529	IP 20
Frequency [Hz] 50/60	RS 232 interface	yes
	Voltage [V]	100 - 240
Power input [W] 120	Frequency [Hz]	50/60
	Power input [W]	120