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C 6000 isoperibol Package 2/12
/// Data Sheet

The C 6000 isoperibol oxygen bomb calorimeter combines modern technology, variability and automation in one instrument. It operates according to all bomb calorimeter standards, such as e.g. the DIN, ISO, ASTM, GOST and GB. The operator can choose between three different starting temperatures 22 °C, 25 °C, 30 °C in each measuring mode. Due to the new design of the decomposition vessel the measurement time could be reduced. Due to the variety of different interfaces for PC, printer (Ethernet, serial and USB), balance and USB Stick this unit is easily adaptable to the customer's specific application needs. Further adaption to data management and LIMS is possible with our calorimeter software C 6040 Calwin (Accessory).

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Measuring modes:
- isoperibol
- dynamic

Features:
- Automatic ignition and ignition energy determination
- Automatic water filling and draining
- Automatic oxygen filling, venting and flushing
- RFID technology for automatic decomposition vessel identification
- New design of the decomposition vessel allowing easier and faster sample preparation
- Easy and convenient capacitive touch screen operation
- Control chart view and correction calculation of globally used standards
- Ethernet interface to connect a network printer
- USB interface allowing easy data management and software updates
- This Package 2/12 includes a halogenresistent decomposition vessel C 6012 with catalytically active surface leading to higher recovery rates on halogens and sulfur

The C 6000 isoperibol Package 2/12 consists of:
- C 6000 isoperibol
- C 6012 decomposition vessel, halogen resistant

Technical Data

Measuring range max. [J]	40000
Measuring mode adiabatic 22°C	yes
Measuring mode dynamic 22°C	yes
Measuring mode isoperibol 22°C	yes
Measuring mode adiabatic 25°C	yes
Measuring mode dynamic 25°C	yes
Measuring mode isoperibol 25°C	yes
Measuring mode adiabatic 30°C	yes
Measuring mode dynamic 30°C	yes
Measuring mode isoperibol 30°C	yes
Measurements/h adiabatic	5
Measurements/h dynamic	6
Measurements/h isoperibol	4
Reproducibility adiabatic (1g benzoic acid NBS39i) [%RSD]	0.05
Reproducibility dynamic (1g benzoic acid NBS39i) [%RSD]	0.15
Reproducibility isoperibol (1g benzoic acid NBS39i) [%RSD]	0.05
Touchscreen	yes
Working temperature [°C]	22 - 30
Temperature measurement resolution [K]	0.0001
Cooling medium temperature [°C]	12 - 27
Cooling medium permissible operating pressure [bar]	1.5
Cooling medium	tap water
Type of cooling	flow
Chiller	RC 2 basic
Flow rate [l/h]	60 - 70
Rec. flow rate at 18°C [l/h]	60
Oxygen operating pressure max. [bar]	40
Interface scale	RS232
Interface printer	USB
Interface PC	RS232
Interface test rack	yes
Interface ext. keyboard	yes
Oxygen filling	yes
Degasification	yes
Decomposition detection	yes
Decomposition vessel C 6012	yes
Decomposition vessel, halogen resistant	yes
Analysis according to DIN 51900	yes
Analysis according to DIN EN ISO 1716	yes
Analysis according to DIN EN ISO 9831	yes
Analysis according to DIN EN 15170	yes
Analysis according to DIN CEN TS 14918	yes
Analysis according to ASTM D240	yes
Analysis according to ASTM D4809	yes
Analysis according to ASTM D5865	yes
Analysis according to ASTM E711	yes
Analysis according to ISO 1928	yes
Analysis according to GB T213	yes

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Dimensions (W x H x D) [mm]	500 x 425 x 450
Weight [kg]	40.14
Permissible ambient temperature [°C]	20 - 30
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 20
RS 232 interface	yes
USB interface	yes
Voltage [V]	220 - 240 / 100 - 120
Frequency [Hz]	50/60
Power input [W]	1700