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C 6000 global standards Package 1/10

/// Data Sheet

The C 6000 global standards oxygen bomb calorimeter combines modern technology, variability and automation (adiabatic, isoperibol; dynamic modes) 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 ºC, 25 ºC, 30 ºC) in each measuring mode: adiabatic, isoperibol or dynamic. Due to the spherically shaped decomposition vessel head, the wall thickness was able to be reduced, allowing for faster heat transfer which results in a shorter time measurement. Due to the variety of different interfaces (PC, Ethernet, SD-card, balance, printer) this unit is easily adaptable depending on the customer's specific application needs. Further adaption to data management and LIMS is possible with our calorimeter software C 6040 Calwin (Accessory).

- Automatic ignition
- Automatic water filling and draining
- Automatic oxygen filling, venting and flushing
- RFID technology for automatic decomposition vessel identification
- New design of the decomposition vessel allows for easier and faster sample preparation
- Can be operated with a chiller
- Easy and convenient touch screen operation
- Control chart view and correction calculation of globally used standards
- Ethernet interface for data management via FTP server or connection of a network printer
- Removable SD-card allows for easier data measurement management, in addition to software updates

The C 6000 global standards Package 1/10 consists of:
- C 6000 global standards
- C 6010 Decomposition vessel, standard
- RC 2 basic Cooling water supply

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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 6010	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
Dimensions (W x H x D) [mm]	500 x 425 x 450

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Weight [kg]	29
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