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C 6000 global standards Package 2/12

/// Data Sheet

The C 6000 global standards 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, 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 Calvin (Accessory).



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Measuring modes:

- adiabatic
- isoperibol
- dynamic

Features:

- Automatic ignition and ignition 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 global standards Package 2/12 consists of:

- C 6000 global standards
- C 6012 decomposition vessel, halogen resistant

Technical Data

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| 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 ASTM D240 | yes |
| Analysis according to ASTM D4809 | yes |
| Analysis according to ASTM D5865 | yes |
| Analysis according to ISO 1928 | yes |
| Analysis according to GB T213 | yes |
| Works according to DIN 51900 | yes |
| Works according to DIN EN ISO 1716 | yes |
| Works according to DIN EN ISO 9831 | yes |
| Works according to DIN EN ISO 18125 | yes |
| Works according to DIN EN 15170 | yes |



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| Works according to DIN EN 15400 | yes |
| Works according to DIN CEN TS 14918 | yes |
| Works according to DIN CEN/TS 16023 | yes |
| Works according to DIN SPEC 19524 | yes |
| Works according to ASTM D240 | yes |
| Works according to ASTM D4809 | yes |
| Works according to ASTM D5468 | yes |
| Works according to ASTM D5865 | yes |
| Works according to ISO 1928 | yes |
| Works according to GB T213 | yes |
| Works according to GOST Certified | yes |
| 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 |

