

C 6000 adjustable to room conditions

Most versatile standard conforming calorimeter worldwide.

3 different measurement modes to choose from: adiabatic (only avail. In global standards version!), isoperibol, dynamic

For each working mode 3 different starting temperatures to choose from.

| Room temperature | Cooling temperature | Working mode IKA C 6000 global standard | Working mode C 6000 isoperibol |
|------------------|---|--|--|
| 22 °C | 12 °C - 20 °C Operation at water connection 17 °C - 20 °C Operation with condenser | Adiabatic 22 °C Isoperibol 22 °C Dynamic 22 °C | - Isoperibol 22 °C Dynamic 22 °C |
| 25 °C | 20 °C - 23 °C | Adiabatic 25 °C Isoperibol 25 °C Dynamic 25 °C | - Isoperibol 25 °C Dynamic 25 °C |
| 30 °C | 23 °C - 27 °C | Adiabatic 30 °C Isoperibol 30 °C Dynamic 30 °C | - Isoperibol 30 °C Dynamic 30 °C |

 **NOTE**

The working mode temperature should always be in the room temperature range (+/- 2 °C) for precise measurements.

C 6000

The jacket in the calorimeter is surrounding the inner vessel completely.

6 temperature sensors built into the unit to monitor all temperatures required for jacket and inner vessel.

| | | | | | | | |
|------------|----------------|------------|----------------|------------------|-----------|--------------------|------------|
| T1: | 23.9808 | T4: | 25.1451 | OutPort1: | 60 | InPort1: | 40 |
| T2: | 19.1049 | T5: | 17.36 | OutPort2: | 2 | Flow [l/h]: | 168 |
| T3: | 18.8656 | T6: | 27.58 | OutPort3: | 2 | | |

| | |
|------------|--------------------------------|
| T1: | Inner vessel temperature |
| T2: | Outer vessel temperature |
| T3: | Heating temperature |
| T5: | Cooling water temperature |
| T6: | Ambient temperature |
| Out Port: | Switching state of the outputs |
| In Port 1: | Switching state of the outputs |
| Flow: | Current water flow |

Also to allow best analysis of water-flow, and controlling parameters for inner- and outer- water cycle, environment and electronics.

C 6000

Self-diagnosis of device during start-up.

Different types of sensors ensure the device is only measuring if all parameters are within the required specifications.

Improves service / error related diagnosis too.

| Initial System Test | | | |
|-----------------------|---|---|---|
| Current working mode: | Isoperibol 22°C | ✓ | |
| Heater temp: | 19.7654 °C | | |
| Current chiller temp: | 19.9876 °C | | |
| Chiller temp limits: | 17.0 °C < x < 20.5 °C | | |
| Current state: | Check run mode | ↻ | |
| Outer flow test: | 00:40 mm:ss | ✓ | |
| Inner flow test: | 00:40 mm:ss | ✓ | |
| ⋮ |  |  |  |

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C 6010 / C 6012

Decomposition vessel is easily removable after each experiment, so the combustion result can be inspected easily, as well required for better pressure safety testing and for convenient cleaning

The decomposition vessel is spherically shaped on the top for better pressure stability and faster heat transfer

The decomposition vessel has a CE-Certificate also clearly engraved into the decomposition vessel itself

The decomposition vessel is equipped with RFID sensors allowing unique/unmistakable identification of each vessel



The sample preparation is easy, and can be done without having to use a separate stand, due to turned around electrodes and crucible holder of the decomposition vessel

Automatic determination of the actual ignition energy for each experiment



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C 6000 x/12 Packages (contains C 6012 vessels)

Decomposition vessel made of Hasteloy, a highly resistant material.

Corrosion protection especially for chlorine

2 Catalysts inside the vessel grant higher recovery on Sulfur and Halogens

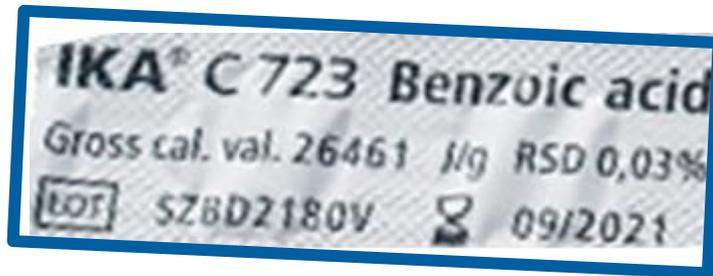


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C 723 / big pack

Benzoic acid included (with Analysis certificate from a DAkkS accredited laboratory with ISO 17025 certificate)



Kuhr Lab



Test Certificate





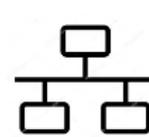
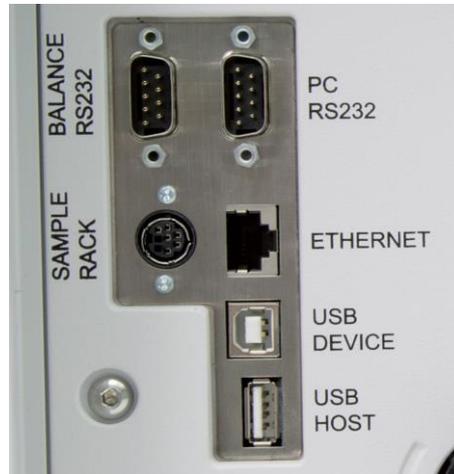
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C 6000 interfaces

RS 232 interface to connect an analytical balance for sample weight transfer

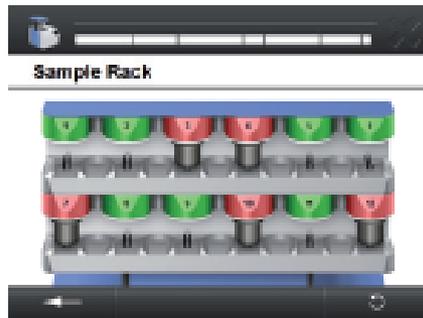


RS 232 interface for PC Calorimeter Software Calvin C 6040 or serial printer i.e. C 1.50



Ethernet printer connection

Sample Rack interface for convenient and error reduced sample handling

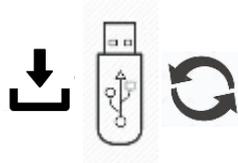
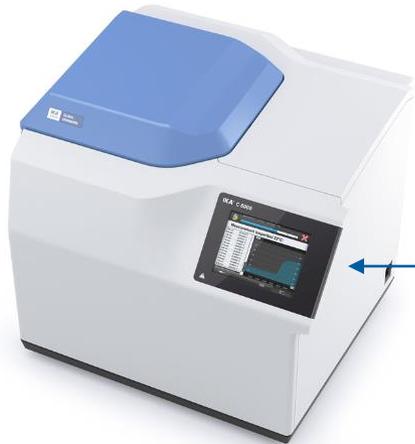


Possibility to connect a standard USB Mouse to a USB port on the back of the unit to control the display by the mouse-pointer

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C 6000 interfaces



Connect a bar code reader, USB-printer or USB Stick for data download and update (FUT) to the USB port on the side of the display

Separate cooling device, not built into the unit, easy to replace and adjustable to different room temperature conditions for best possible operation of the device.

All hoses are preassembled and quickly connected or disconnected.





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C 6000

State of the art handling through capacitive touch screen with intuitive software-design.

Statistics with control-chart view and thermodynamic-correction-calculations according to standards like i.e. ISO, DIN, EN, ASTM, GB

Measurements per hour:

adiabatic: 5
isoperibol: 4
dynamic: 6

