



C 7000 basic equipment set 1

/// Data Sheet

The C 7000 is the first IKA® calorimeter with a completely dry system for measuring the gross calorific value of solid and liquid samples. The temperature is measured directly in the decomposition system. This results in measurement times in the range of 3 to 7 minutes (depending on the sample). The system can manage up to 8 different decomposition vessels using a code ring scheme.

- High sample frequency
- Precise and reproducible determination of gross calorific values according to ISO 1928
- Reduction of routine work through automatic application flow
- Automatic decomposition vessel identification



designed for scientists

- Interface connections for scale, printer and PC
 - User-friendly software C 5040 CalWin for controlling the calorimeter and administration of measuring data
 - The decomposition vessel can be changed over to use combustible crucibles C 14
- C 7000 basic equipment set 1 consisting of:
- C 7000 Measurement cell
 - C 7010 Decomposition vessel, standard
 - C 7002 Cooling system
 - C 48 Oxygen station





designed for scientists

Technical Data

| | |
|--|-----------------|
| Measuring range max. [J] | 30000 |
| Measuring mode double dry (ISO 1928) | yes |
| Measuring time double dry approx. [min] | 3 |
| Double dry reproducibility (1g benzoic acid NBS39i) [%RSD] | 0.2 |
| Working temperature max. [°C] | 30 |
| Temperature measurement resolution [K] | 0.0001 |
| Cooling medium temperature [°C] | 12 - 30 |
| Cooling medium permissible operating pressure [bar] | 9 |
| Cooling medium | tap water |
| Type of cooling | flow |
| Flow rate [l/h] | 120 - 180 |
| Oxygen operating pressure max. [bar] | 40 |
| Interface scale | RS232 |
| Interface printer | Centronix |
| Interface PC | RS232 |
| Decomposition detection | yes |
| Decomposition vessel C 7010 | yes |
| Dimensions (W x H x D) [mm] | 310 x 395 x 490 |
| Weight [kg] | 50.162 |
| Permissible ambient temperature [°C] | 18 - 30 |
| Permissible relative humidity [%] | 80 |
| RS 232 interface | yes |
| Voltage [V] | 220 - 240 |
| Frequency [Hz] | 50/60 |
| Power input [W] | 260 |

