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Data Sheet
Analytical line / Calorimeters



C 7000 basic equipment set 1

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
- 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

Accessories: C 16 Parafilm, C 17 Paraffin, C 7010 Decomposition vessel, standard, C 7012 Decomposition vessel, halogen resistant, C 7002 Cooling system (230V), KV 600 cooling water supply (230 V), C 48 Oxygen station, C 5010.4 Attachment for combustible crucible C14, C 5010.5 Crucible holder, big, C 29 Pressure gauge, oxygen, C 21 Pelleting press, C 7030 Venting station, C 7010.8 Venting handle, C 5040 CalWin, C 5041 CalWin plus, C 5041.10 Connection cable, C 5003.1 Aqua Pro stabilizing agent, C 710.4 Cotton thread, cut to length, C 5010.3 Ignition wire, spare, C 5012.3 Ignition wire, platinum, C 4 Quartz dish, C 5 Set of VA combustion crucibles, C 6 Quartz crucible, big, C 9 Gelatine capsules, C 10 Acetobutyrate capsules, C 12 Combustion bags 40 x 35 mm, C 12 A Combustion bags 70 x 35 mm, C 14 Combustible crucible, C 15 Paraffin strips, C 43 Benzoic

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 min. [°C]	12
Cooling medium temperature max. [°C]	30
Cooling medium permissible operating pressure [bar]	9
Cooling medium	tap water
Type of cooling	flow
Flow rate min. [l/h]	120
Flow rate max. [l/h]	180
Oxygen operating pressure max. [bar]	40
Interface scale	RS232
Interface printer	Centronix
Interface PC	RS232
Oxygen filling	no
Degasification	no
Decomposition detection	yes
Decomposition vessel C 7010	yes
Dimensions (W x H x D) [mm]	800 x 395 x 490
Weight [kg]	43
Permissible ambient temperature [°C]	18 - 30
Permissible relative moisture [%]	80
RS 232 interface	yes
Voltage [V]	220 - 240
Frequency [Hz]	50/60
Power input [W]	260
Ident. No.	**8800900**

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