



designed for scientists



C 3000 isoperibol Package 1/10

/// Lembar data

The IKA C 3000 isoperibol calorimeter is the technologically advanced successor of the IKA C 2000 model, with great new features such as faster sample runs, a spherically shaped decomposition vessel for faster heat transfer and a convenient touch screen for easy operation. Both oxygen filling and water handling are fully automated.

Its measurements and calculations of net calorific value are according to ISO 1928, ASTM D4809, ASTM D5865, ASTM 240 and GB T213. Areas of application include the power and cement industry where accurate analyses are vital.

Key features:

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Persoalan untuk perubahan teknis





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- Easy handling via touch screen operation or standard USB mouse
- Two choices of starting temperatures (22°C, 30°C)
- Automated ignition, water filling and draining and oxygen filling
- Several interfaces: Ethernet, RS 232, USB, SD card slot
- Six temperature sensors to monitor all temperatures allowing best analysis
- Spherically shaped decomposition vessel for better pressure stability and faster heat transfer
- Easy sample preparation due to new crucible holder technology
- Can be operated with a chiller (e.g. RC 2 basic)

It includes:

- C 3000 measuring cell
- C 6010 decomposition vessel, standard
- RC 2 basic recirculation chiller
- Wear parts and consumables for up to 500 tests

Data teknis

Rentang pengukuran maksimal [J]	40000
Cara pengukuran dinamis 22°C	Ya
Mode pengukuran isoperibol 22°C	Ya
Mode pengukuran dinamik 30°C	Ya
Mode pengukuran isoperibol 30°C	Ya
Measurements/h dynamic	6
Measurements/h isoperibol	4
Reproduktifitas dinamis (1g asam benzoat NBS39i) [%RSD]	0.15
Reproduktifitas isoperibol (1g asam benzoat NBS39i) [%RSD]	0.05
Layar sentuh	Ya
Temperatur operasi [°C]	22 - 30
Resolusi pengukuran temperatur [K]	0.0001
Temperatur media pendingin [°C]	12 - 27
Tekanan operasi yang diizinkan pada media pendingin [bar]	1.5
Media pendingin	air keran
Tipe pendingin	aliran
Chiller	RC 2 dasar
Laju alir [l/h]	60 - 70
Laju alir yang direkomendasikan pada suhu 18°C [l/h]	60
Maksimal tekanan operasi Oksigen [bar]	40
Interface scale	RS232
Sambungan Printer	USB
Sambungan PC	RS232
Sambungan ext keyboard	Ya
Pengisian Oksigen	Ya
Bejana dekomposisi C 6010	Ya
Bejana dekomposisi C 6012	Ya
Analisa sesuai dengan ASTM D240	Ya
Analisa sesuai dengan ASTM D4809	Ya
Analisa sesuai dengan ASTM D5865	Ya
Analisa sesuai dengan ISO 1928	Ya
Analisa sesuai dengan GB T213	Ya
Dimensi (W x H x D) [mm]	500 x 425 x 450
Berat [kg]	29
Temperatur lingkungan yang diizinkan [°C]	20 - 30
Kelembapan relatif yang diizinkan [%]	80
Kelas proteksi sesuai dengan DIN EN 60529	IP 20
Sambungan RS 232	Ya
Sambungan USB	Ya
Daya/ voltage [V]	100 - 120
Frekuensi [Hz]	50/60
Input daya [W]	1700