E2k Isothermal Bomb Calorimeter

Technical Specifications

Operating Temperature
0-60 Degrees C

Temperature Resolution
0.000001 Degrees C

Repeatability
0.1% RSD

Resolution
0.001 (MJ/Kg)

Results per hour
10 per vessel using the CAL2k-2 Cooler

Power
90 - 260 VAC

Features

- Intelligent operation support
- Very fast operation due to improved software
- Easy to maintain, self test for technicians and operators
- Compact size
- Operation can be configured to suit every laboratory
- Rapid and accurate determinations
- Capable of doing 10 CV samples per hour using a CAL2k-2 Cooler
- Isothermal design using a waterless patented vessel (no bucket, spillage or measuring)
- Large memory for storing +1000 determinations
- Manual or automatic mass entry through keyboard or balance interface
- Easy to read LCD display in one standard (English) language and one alternative language
- Fully automatic calibration in BTU, CAL, MJ/Kg
- Uses the CAL2k-4 intelligent vessel with fault diagnostics and microprocessors
- Interfaces to standard PS2 computer keyboard
- Acoustical warning for operator convenience
- Extra 8 digig group identification can be used as a sample id
- Print results directly without PC on stadard 80 column serial printer with RS232 port
- Alternative language switch at rear of unit
- Real-time clock with one week back up
- Precise and reproducible determination of gross calorific values according to ISO 1928, DIN 51900 and BS1016:105

Software Features

- User controlled access for setting vital parameters once
- Automatic result retrieval for selected and formatted data
- Filing printing and other operator functions, including data export to common formats
- Real time graphical vessel temperature display
- Grouped sample determinations and analysis
- Alternative language management
- English Windows Operating software version only
- Real time clock setting
- Vessel data viewing
- High speed communication for fast data retrieval

Complete e2K System

Complete system consists of the following:

E2K	Calorimeter
E2K-KT	Calorimeter Installation Kit
CAL2k-2	Cooler
CAL2k-2-KT	Cooler Installation Kit
CAL2k-3	Filling Station
CAL2k-3-KT	Filling Station Installation Kit
CAL2k-4	Vessel
CAL2k-4-KT	Vessel Installation Kit

The E2K is also available in the following systems:

Minimum System:
1 x E2K Calorimeter
1 x E2K Calorimeter Installation Kit
1 x CAL2k-3 Filling Station
1 x CAL2k-3 Filling Station Installation Kit
1 x CAL2k-4 Vessel
1 x CAL2k-4 Vessel Installation Kit

The above option does not include the CAL2k-2 Cooler, reducing the number of samples per day.

Elite System:
1 x E2K Calorimeter
1 x E2K Calorimeter Installation Kit
1 x CAL2k-2 Cooler
1 x CAL2k-2 Cooler Installation Kit
1 x CAL2K-3 Filling Station
1 x CAL2k-3 Filling Station Installation Kit
2 x CAL2k-4 Vessel
2 x CLA2k-4 Vessel Installation Kits

The above option includes the CAL2k-2 Cooler and includes 2 Vessels, increasing the number of samples per day.