

BCA 500 HIGH PRESSURE OXYGEN CALORIMETER

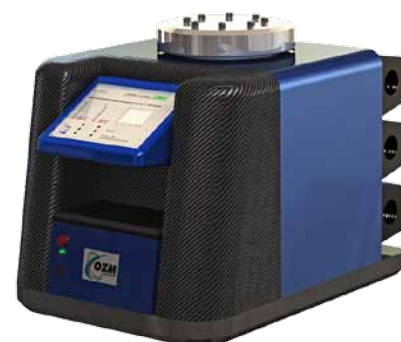
Product Datasheet

TECHNICAL PARAMETERS

Sensitivity & Accuracy:	0.00025 K
Range:	3 – 30 kJ
Max. operating pressure:	High pressure bomb 1200 Bar
	Pressure bomb 30 Bar

STANDARD INSTRUMENT PARTS

BCA-CAL	Calorimeter unit with calorimetric vessel and compensated jacket <ul style="list-style-type: none"> - integrated calorimetric vessel with precise compensated jacket - ENVI shell for creating of stable environment (eliminates influence of room temp. difference) - ignition power source with constant current - includes BCA-WMS - includes BCA-TMP - includes BCA-PLC
BCA-PLC	Controller with MMI interface <ul style="list-style-type: none"> - 4" LCD screen - intuitive operation environment - integrated keyboard for data entry and independent operation - USB, LAN interface
BCA-TMP	Temperature measuring system <ul style="list-style-type: none"> - system for measuring of calorimetric water and compensated jacket - resolution 0.0001 K - design for high reproducibility and precision over years of operation
BCA-WMS	Water management system <ul style="list-style-type: none"> - fully automatic conditioning of process water - double water reservoir for continuous measuring (conditioning during operation) - 2 series of chilling units for cooling of process water - heating unit for warm up - automatic pump in, pump out and refill sequences integrated into process software - set of pumps and precise water level sensors for automatic operation
BCA-OX1	Oxygen burning stainless steel pressure vessel OX-1 <ul style="list-style-type: none"> - inner volume 200 ml - oxygen pressure 40 bar - bayonet lock for fast end easy manipulation - valve for filling with oxygen - designed for most of applications except explosives testing and substances creating corrosive residues
BCA-FOX	Gas station for vessel OX-1 <ul style="list-style-type: none"> - stand-alone dock for filling of the bomb with oxygen - independent filling and pressure releasing ports - safety blocking for bayonet lock control - pressure reducing valve for oxygen (250 to 30 bar)
KB-1-100	Calibration standard for vessel OX-1 (1 g pellets of benzoic acid- 100 pcs)
NIFE-250	Ignition wires (set of 250 pcs)
BCA-MNT	Operation and maintenance KIT <ul style="list-style-type: none"> - set of standard parts for operation and maintenance - set of o-rings, quartz crucibles and other parts and spare parts
BCA-TLB	Operation and maintenance toolbox <ul style="list-style-type: none"> - set of standard tools for operation and maintenance
BCA-KT1	Set for maintenance of vessels OX-1



CONSUMABLES

DCA-OCR	Set of 5 quartz crucibles
DCA-SCR	Set of 5 stainless steel crucibles

OPTIONAL ACCESSORIES

BCA-PCK	Kit for remote operation <ul style="list-style-type: none"> - remote operation, data acquisition and reporting - PC (15.3" notebook) with LAN connection - additional interface for PLC unit, connecting cable - software BurnIT for operation
BCA-OX2	Oxygen burning pressure vessel for corrosive materials OX-2 <ul style="list-style-type: none"> - inner volume 200 ml - oxygen pressure 40 bar - bayonet lock for fast end easy manipulation - valve for filling with oxygen - designed for most of applications except explosives testing
BCA-KT2	Set for maintenance of vessels OX-02
BCA-DC1	Decomposition high pressure vessel DC-1 <ul style="list-style-type: none"> - max. pressure 160 Mpa - inner volume 25 ml - vacuum or inert gas filling - typical use for propellants and pyrotechnic mixtures
BCA-KT3	Set for maintenance of vessels DC-1
KTL-250	Kanthal ignition wires for DC-1 (set of 250 pcs)
BCA-DCF	Gas station for vessel DC-1 <ul style="list-style-type: none"> - stand-alone dock for evacuation or filling of the bomb DC-1 - independent filling and pressure releasing ports
BCA-EX1	High pressure vessel EX-1 for testing of detonators or explosive samples <ul style="list-style-type: none"> - max. pressure 30 Mpa of static pressure - max. for 1 g of HE sample - inner volume 250 ml - vacuum or inert gas filling - typical use for detonators and primary explosives
BCA-KT4	Set for maintenance of vessels EX-1