

Thermostats

CH-100, Heating/Cooling dry block

This product is the result of combining two popular Biosan instruments:

1. Heating Dry Block and
2. Cooling Dry block thermostat

The combined construction of aluminum block and Peltier element module cooled with the forced ventilation radiator provides fast changing of the cooling and heating modes.

CH-100 is a very effective instrument of sample preparation during enzyme reactions, hybridization reactions, DNA analysis.

Specifications:

- Microprocessor controlled time and temperature
- Simultaneous indication of set and actual temperature and time
- Temperature regulation range - 10°C ... + 100°C
- Setting resolution 0.1°C
- Temperature precision in the centre of the thermoblock in the range from 0°C to +40°C ±0.5°C
- Temperature deviation at the borders of the thermoblock from the set temperature in the range from 0°C to +40°C ±0.5°C
- Temperature deviation at the borders of the thermoblock from the set temperature in the range from +40°C to +80°C ±2.0°C
- Working room temperature range +15°C ... +27°C
- Independent timer with sound signal 1 min - 96 hours
- Two models available:
 - 1) with CH-1 block for 20 x 0,5 ml microtubes+ 12 x 1,5 ml microtubes
 - 2) with CH-2 block for 20 x 1.5 ml microtubes
- Overall dimensions 240x260x165 mm
- Weight, not more 4.6 kg
- Power supply 220/240 V, 50/60 Hz, 100 W max.

Catalogue number

CH-100 with block CH-1	BS-010410-BAA
CH-100 with block CH-2	BS-010410-CAA

CH-100



A special block for 20 x 2.0 ml tubes is available on request.

Graph for the set temperature achievement CH-100



- Set temperature
- Actual temperature

Dry block thermostat for spectrocells, DB-10C

DB-10C is designed for sample thermostating in cuvettes before optical density measurements.

Together with any photometer for cuvettes DB-10C is a basic set for conducting biochemical indicators diagnostics methods (enzyme reaction intensity and metabolite concentration).

Specifications:

- Temperature regulation range +25° ... +42°C
- Temperature stability 0.1 °C
- Independent timer 1 min - 96 hours
- Display LCD
- Block capacity 10 cuvettes (10 mm optical pathway)
- Consumed power, not more 15 W
- Overall dimensions 140x120x70 mm
- Weight, not more 0.9 kg
- Power supply External power supply 12V DC, 1.25A

Catalogue number

DB-10C	BS-010417-AAK
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DB-10C



New!

Bio TDB-100, Dry block thermostat

Bio **TDB-100** is a compact easy-to-use dry-block thermostat designed for long incubation processes at various temperatures. The universal aluminum block can accommodate 3 most popular Eppendorf tube types. Different block types can be produced on request.

Specifications:

- Elegant design
- Temperature regulation range +25°C ... +100°C
heat up time to +100°C approx. 15 min.
- Setting resolution 0.1°C
- Nominal regulation accuracy ± 0.5°C
- Independent timer with sound signal 1 min - 96 h
- Display LCD
- Simultaneous display of set and actual temperature and time
- Block diameter/depth 130/45 mm
- Overall dimensions 210x230x110 mm
- Weight, not more 3.1 kg
- Power supply 220/240 V, 50/60 Hz; 200 W
- Block capacity 24 x 2/1,5 ml,
15 x 0.5 ml
10 x 0.2 ml microtubes

Catalogue number

Bio TDB-100	BS-010412-AAA
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Different block types can be produced on request.

TDB-120, "Dry-block" thermostat

TDB-120 is a traditional Biosan's dryblock thermostat for laboratory analysis.

Thermostat is designed for maintaining constant temperature of samples in tubes inserted in the aluminum block sockets. Unprecedented high precision and uniformity of temperature over the block. It is widely used for PCR-analysis.

Specifications:

- Temperature range +25° ... +120°C
 - Temperature stability 0.1°C
 - Temperature setting digital
 - Display 2 lines, LCD
 - Simultaneous indication of set and actual temperature and time
 - Digital timer 1 min - 96 hours for sample thermostating control
 - Two models are available offering a choice of tube configurations to meet the needs of many standard laboratory procedures:
 - with **A-53** block for 21x 0.5 ml + 32 x 1.5 ml microtubes
 - with **A-103** block for 21x 0.5 ml + 32 x 1.5 ml + 50 x 0.2 ml microtubes
 - Overall dimensions 200x210x100 mm
 - Weight, not more 4.6 kg
 - Power supply 220/240 V, 50/60 Hz, 200 W max.
- Production of **TDB-120** in Bioform design (see photo) is to be started in 2008. Until then current model with metal body is supplied.

Catalogue number

TDB-120 with block A-53	BS-010401-DAA
TDB-120 with block A-103	BS-010401-EAA



Bio TDB-120

Thermostats

BWT-U, Universal water thermostat

Thermostat **BWT-U** provides stable temperature maintaining in the range from +30° to +100°C. The digital display switches between actual and set temperature readings. Thermostat can be equipped with a flowing water cooler for extending the temperature range.

For use in medical, ecological monitoring and food control laboratories as well as in scientific research and microbiology laboratories.

Specifications:

- Constant mixing for even temperature distribution in the working volume and increased heat transfer
 - Temperature range up to +100°C
 - Display LED
 - Stainless steel bath capacity 8 l (20 l on request)
 - Optional lifting platform with adjustable height **LP-1** (8 l bath)
LP-1/20 (20 l bath)
 - Optional flat lid **FL-1** (8 l bath)
FL-1/20 (20 l bath)
- | | | |
|----------------------|--------------------------------|----------------|
| | 8 l | 20 l |
| • Overall dimensions | 280x390x270 mm | 345x550x290 mm |
| • Work volume | 240x180x140 mm | 300x320x140 mm |
| • Weight, not more | 8 kg | 11 kg |
| • Power supply | 220/240 V, 50/60 Hz; 1 kW max. | |

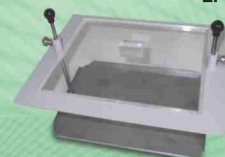
Catalogue number

BWT-U 8 l	BS-010404-AAA	BWT-U 20 l	BS-010404-GAA
BWT-U 8 l with D-1	BS-010404-FAA	BWT-U 20 l with D-1	BS-010404-HAA
LP-1	BS-010404-BK	LP-1/20	BS-010404-EK
FL-1	BS-010404-CK	FL-1/20	BS-010404-DK

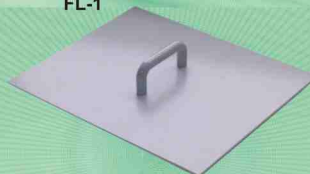
BWT-U



LP-1



FL-1



WB-4MS, Water thermostat-bath

Water thermostat-bath **WB-4MS** are designed for chemical, pharmaceutical, medical and biological laboratory research.

WB-4MS provides increased temperature stabilization (up to 0.1°C) due to built-in magnetic stirrer (regulated speed 300-1000 rpm).

Easy set up, high temperature maintenance precision, compact size and attractive modern design make this water bath widely used.

Specifications:

- Simultaneous display of set and actual temperature, time and RPM
 - Plastic lid with stainless steel interior
 - Temperature range +25° ... +100°C
- Thermostat-bath provides stable thermoregulation when the set temperature is at least 5°C higher than the ambient temperature
- Temperature stability 0.1°C
 - Independent timer with sound signal 1 min - 96 hours
 - 4 l stainless steel bath
 - Temperature setting digital
 - Temperature display 2 lines, LCD
 - Easy operation
 - Overall dimensions 350x175x250 mm
 - Working volume 235x135x110 mm
 - Weight, not more 3.6 kg
 - Power supply 220/240 V, 50/60 Hz; 600 W max.

Catalogue number

WB-4MS	BS-010406-AAA
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WB-4MS



Asymptote EF600, Portable freezing device*

New!

One of the most perspective products in the field of Life sciences is the innovation design of the Asymptote EF600 portable freezing device intended for freezing of stem cells and working in the liquid nitrogen free mode. The equipment has been developed together with Cambridge University. This device lets to hold deep freezing (up to -100°C) of labile biomaterial (stem cells, sperm, embryo, etc.) by the previously developed and approved temperature algorithms. Special attention of the programs is given to the freezing speeds and to the most delicate point of freezing (at -7°C) connected with the phase transition caused by nucleation during which the heat is removed from the system.

Asymptote has become widely known after successful demonstration at the analytical chemistry Pittcon 2007 conference and exhibition in Chicago. The set of special adapters lets to use various capillaries and vials stable at low temperatures.



Asymptote EF600

* Biosan has the rights of distributing these devices in Lithuania, Latvia, Estonia, Russia and CIS countries (on exclusive basis).

Unstirred water baths, Aqua*

Water baths for routine laboratory applications.

Unstirred water baths SUB Aqua (digital control) and JB Aqua (analogue control).

Every group include 7 various models (stainless steel tanks).

- 2-litre water bath – high profile tanks
- 2-litre water bath – low profile tanks
- 5-litre water bath
- 12-litre water bath
- 18-litre water bath
- 26-litre water bath
- 5 / 12 -litre water bath – a combination of a compact 5-litre bath small and a small to mid size 12-litre water baths.
- Ambient $+5^{\circ}\text{C}$ to $+99^{\circ}\text{C}$
- 3-year warranty as standard
- Non-drip polycarbonate lid (limits evaporation and conserves energy)
- User-settable sample protection
- Over-temperature cut-outs protect users and the workplace (if bath is accidentally run without liquid)
- Heater mat optimises temperature uniformity Options and accessories
- Flat lids, polypropylene spheres, shelves and racks for flasks and tubes, base trays for flasks.

Aqua

New!

