biosan
Medical–Biological
Research & Technologies

CH-100, Heating/Cooling Dry Block

DESCRIPTION

CH-100 is the result of combining two popular Biosan instruments:

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

The combined construction of aluminium 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.

Microprocessor controlled time and temperature. Simultaneous indication of set and actual temperature and time.

SPECIFICATIONS

Temperature setting range	−10°C ... +100°C
Temperature control range	30°C below ambient ...+100°C
Temperature setting resolution	0.1°C
Temperature stability	±0.1°C
Temperature uniformity @ +37°C	±0.1°C
Temperature calibration coefficient range	0.936 – 1.063 (± 0.063)
Digital time setting	1 min – 96 hrs / non–stop (increment 1 min)
Display	LCD, 2×16 signs
Overall dimensions (W×D×H)	240×260×165 mm
Weight	3.2 kg
Input current/power consumption	12 V, 4.4 A / 55 W
External power supply	Input AC 100–240 V 50/60 Hz; Output DC 12 V

BLOCKS (BUILT IN) CAPACITY:

Block **CH-1**	20×0.5 ml + 12×1.5 ml microtubes
Block **CH-2**	20×1.5 ml microtubes
Block **CH-3**	20×2 ml microtubes

ORDERING INFORMATION:

	Cat. number
CH-100 with block **CH-1**	BS-010410-BAI
CH-100 with block **CH-2**	BS-010410-CAI
CH-100 with block **CH-3**	BS-010410-UAI

Ice on block CH-2

Basic Plus
Product Class

HEAT UP AND COOL DOWN TIMES FOR CH-100

from 25°C	3 min	to 37°C
from 25°C	16 min	to 100°C
from 25°C	21 min	to -10°C
from 100°C	28 min	to −10°C

biosan
Medical–Biological
Research & Technologies
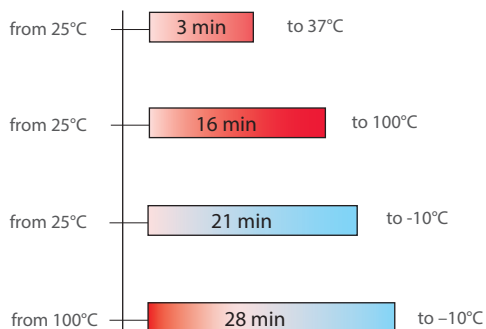
CH3-150, Combitherm-2

Premium
Product Class

Combitherm-2 **CH3-150** is specially designed to thermo-stabilise materials at temperatures from –3℃ to +150℃ according to methods of analysis. To obtain useful function-ality and decrease foot-print of instruments Combitherm-2 thermoblocks combined in a common electronic circuit board as well as inside a common external body. The left part of the front keyboard is responsible for setting parameters for cooling plug-in blocks and the right part — for heating plug-in blocks. Both of them are regulated independently and can realize up to 16 programs including temperature and time in each program. Peltier technology is used for cooling below room temperature; PCB is used for heating till +150℃.

Separation of cooling and heating parts from each other increases durability of the instrument and speed of tempera-ture changing after setting a new program.

DESCRIPTION

SPECIFICATIONS

HEAT UP AND COOL DOWN TIMES FOR CH3-150

from 25℃ — **12 min** — to 100℃

from 25℃ — **60 min** — to –3℃

INTERCHANGEABLE THERMOBLOCKS:

❶	B2-50	Ø48 mm × 2 sockets, depth 58 mm
❷	B10-16	Ø16 mm × 10 sockets, depth 56 mm
❸	B6-25	Ø25 mm × 6 sockets, depth 40 mm
❹	B23-1.5	23 sockets for 1.5 ml microtubes, depth 35 mm
❺	B10-13	Ø13 mm × 10 sockets, flat bottom, depth 30 mm
❻	B5-29	Ø29 mm × 5 sockets, flat bottom, depth 40 mm
❼	B18-12	18 sockets for Ø12 mm round bottom tubes, depth 58 mm

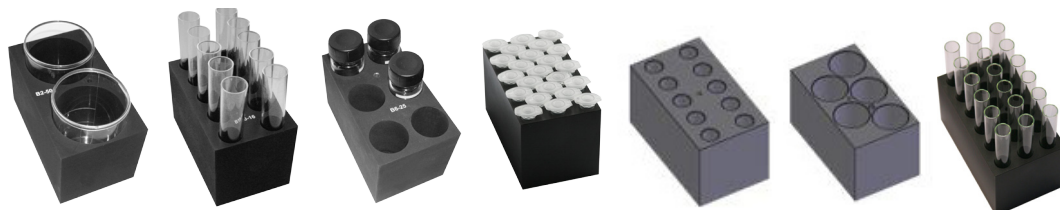Different block types can be provided on request

ORDERING INFORMATION:

	Cat. number
CH 3-150 without blocks	BS-010418-AAA
Optional blocks:	
B2-50	BS-010418-AK
B10-16	BS-010418-BK
B6-25	BS-010418-CK
B23-1.5	BS-010418-DK
B10-13	BS-010418-LK
B5-29	BS-010418-KK
B18-12	BS-010418-EK

Heating Block Specifications:

Temperature setting range	+25℃ ... +150℃
Temperature control range	5℃ above ambient ...+150℃
Setting resolution	1℃
Stability	±0.1℃

Cooling Block Specifications:

Temperature setting range	–3℃ ... +20℃
Temperature control range	23℃ below ambient ... 5℃ below ambient
Setting resolution	0.1℃
Stability	±0.1℃

General Specifications

Digital timer with sound alarm	1 min–99 hrs 59 min (increment 1 min)
User adjustable programs (temperature and time)	16 (heating) +16 (cooling)
Display	LCD
Overall dimensions (W×D×H)	295×285×220 mm
Weight (without block)	5.6 kg
Nominal operating voltage	230 V, 50/60 Hz
Power consumption	430 W (1.8 A)

❶ B2-50   ❷ B10-16   ❸ B6-25   ❹ B23-1.5   ❺ B10-13   ❻ B5-29   ❼ B18-12