



# CH 3-150, Heating and cooling thermostat, Combitherm-2



## ■ DESCRIPTION

Combitherm-2 CH 3-150 is specially designed to thermostabilise materials at temperatures from  $-3^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$  according to methods of analysis. To obtain useful functionality and decrease foot-print of instruments Combitherm-2 consists of 2 independent cooling and heating plug-in 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  $+150^{\circ}\text{C}$ .

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

Different block types can be provided on request

## ■ SPECIFICATIONS

Heating block Temperature setting range	$+25^{\circ}\text{C} \dots +150^{\circ}\text{C}$
Heating block Temperature control range	$5^{\circ}\text{C}$ above ambient ... $+150^{\circ}\text{C}$
Heating block Setting resolution	$1^{\circ}\text{C}$
Heating block Stability	$\pm 0.1^{\circ}\text{C}$
Temperature calibration coefficient range	0.936...1.063 ( $\pm 0.063$ )
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Cooling block Temperature setting range	$-3^{\circ}\text{C} \dots +20^{\circ}\text{C}$
Cooling block Temperature control range	$23^{\circ}\text{C}$ below ambient ... $5^{\circ}\text{C}$ below ambient
Cooling block Setting resolution	$0.1^{\circ}\text{C}$
Cooling block Stability	$\pm 0.1^{\circ}\text{C}$
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Digital time setting	1 min–99 hrs 59 min (increment 1 min)
Timer sound signal	+
Display	LCD
User adjustable programs (temperature and time)	16 (heating) + 16 (cooling)
Overall dimensions (W×D×H)	295x285x220 mm
Weight	5.6 kg
Input current/power consumption	1.8 A / 430W
Power supply	230 V, 50/60 Hz

## ■ CAT. NUMBER

Without thermoblock	Without thermoblock
BS-010418-AAA	230VAC 50/60Hz Euro plug
BS-010418-A01	230VAC 50Hz UK plug
BS-010418-AAC	120VAC 60Hz US plug
BS-010418-NK	IQ OQ document
BS-010418-OK	PQ document

## ■ ACCESSORIES



**B2-50**  
BS-010418-AK  
block

Ø48 mm x 2 sockets depth 58  
mm



**B10-16**  
BS-010418-BK  
block

Ø16 mm x 10 sockets depth 56  
mm



**B6-25**  
BS-010418-CK  
block

Ø25 mm x 6 sockets depth 40  
mm



**B23-1.5**  
BS-010418-DK  
block

23 sockets for 1.5 ml microtest  
tubes depth 35 mm



**B10-13**  
BS-010418-LK  
block

Ø13 mm x 10 sockets, flat  
bottom, depth 30 mm



**B5-29**  
BS-010418-KK  
block

Ø29 mm x 5 sockets, flat  
bottom, depth 40 mm



**B18-12**  
BS-010418-EK  
block

18 sockets for Ø12x75 mm  
round bottom tubes, depth 58  
mm



**B1-L**  
BS-010418-WK  
block

Mini water or beads bath, 55 x  
100 x 73 mm