

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°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°C above ambient ... $+150^{\circ}\text{C}$ |
| Heating block Setting resolution | 1°C |
| Heating block Stability | $\pm 0.1^{\circ}\text{C}$ |
| Temperature calibration coefficient range | $0.936 \dots 1.063 (\pm 0.063)$ |
| --- | --- |
| Cooling block Temperature setting range | $-3^{\circ}\text{C} \dots +20^{\circ}\text{C}$ |
| Cooling block Temperature control range | 23°C below ambient ... 5°C below ambient |
| Cooling block Setting resolution | 0.1°C |
| Cooling block Stability | $\pm 0.1^{\circ}\text{C}$ |
| ---- | ---- |
| 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-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