



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

Combined cold / heating thermostat with two individually adjustable blocks for microtubes, tubes and containers.

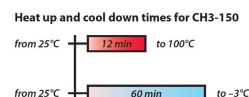
Blocks not included



## Product codes:

Reference: BS-010418-AAA

## Product gallery:



## Product 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**



## Specification

|   |  |
|---|--|
| Heating block Temperature setting range         | +25°C ... +150°C                         |
| Heating block Temperature control range         | 5°C above ambient ... +150°C             |
| Heating block Setting resolution                | 1°C                                      |
| Heating block Stability                         | ±0.1°C                                   |
| Temperature calibration coefficient range       | 0.936...1.063 (± 0.063)                  |
| ---   | ---                                      |
| Cooling block Temperature setting range         | -3°C ... +20°C                           |
| Cooling block Temperature control range         | 23°C below ambient ... 5°C below ambient |
| Cooling block Setting resolution                | 0.1°C                                    |
| Cooling block Stability                         | ±0.1°C                                   |
| ----  | ----                                     |
| Digital time setting                            | 1 min–99 hrs 59 min (increment 1 min)    |
| User adjustable programs (temperature and time) | 16 (heating) + 16 (cooling)              |
| Display   | LCD                                      |
| Overall dimensions (WxDxH)                      | 295?285?220 mm                           |
| Weight  | 5.6 kg                                   |
| Power supply                                    | 230 V, 50/60 Hz                          |
| Input current/power consumption                 | 1.8 A / 430W                             |

## Product features:

TBH - TYP: wärmegeräte mit kühlung  
TBH - BLÖCKE Nr.: 2 unabhängige  
TBH - MIT KÜHLUNG: sie  
TBH - MAXIMALE TEMPERATUR: +150°C / +20°C  
TBH - MINIMALE TEMPERATUR EINGESTELLT: +25°C / -3°C  
TBH - TIEFSTE ERREICHBARE TEMPERATUR: 5 °C / 25°C sotto temp. ambiente  
TBH - LEISTUNG HEIZUNG: 500W  
TBH - GENAUIGKEIT: 0,1°C  
TBH - GEWÄHRLEISTET: 0,1°C  
TBH - DISPLAY: LCD  
TBH - TIMER: da 1m a 99h



TBH - PROGRAMME: 16 für heizung / kühlung

TBH - AUTONOMIE: nd

TBH - ÜBEREINSTIMMUNG: CE

TBH - VERBINDUNG: keine

TBH - BLÖCKE UNABHÄNGIG: sie

TBH - ZUBEHÖR: deckel

TBH - OPTIONALES ZUBEHÖR: blöcke in verschiedenen größen

TBH - STROMVERSORGUNG: 230 V 50/60 Hz

TBH - GARANTIE: 12 monate auf fabrikationsfehler

TBH - GRÖßE: 295?285?220 mm

TBH - GEWICHT: 5.6kg

TBH - BESONDERHEIT: zwei einzelne blöcke, ein heizelement +25 bis +150°C , die andere raffreddante von -3°C bis +20°C

TBH - VERWENDBAR MIT: microtubi 1.5 ml

TBH - VERWENDBAR MIT: röhrenchen Ø16mm

TBH - VERWENDBAR MIT: röhrenchen Ø25mm

TBH - VERWENDBAR MIT: röhrenchen Ø50mm