

# Блочные охладители-нагреватели СВ-200D, настольные блоки охлаждения, нагрева и смешивания, сухие блочные нагреватели ВН-250, ВН-200

## Технические характеристики

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# Cole-Parmer® Cooling Block - CB-200D

- Maximum temperature range 0°C to 40°C\*
- Count up and count down timer
- Temperature displayed in °C or °F
- Buzzer indicates reaching the set temperature and the end of the elapsed time
- Holds 2 aluminium insert blocks



## Technical Specification

| Specification                                    | CB-200D              |
|--------------------------------------------------|----------------------|
| Temperature range                                | 0°C to 40°C *        |
| Temperature accuracy                             | ±1°C                 |
| Temperature units                                | °C or °F             |
| Maximum variation between identical blocks at °C | ±0.2°C               |
| Temperature display resolution                   | 0.1°C                |
| Cooling technology                               | Peltier              |
| Cool down time to 4°C                            | 30 minutes           |
| Temperature display                              | Orange LED, 5 digits |
| Power supply                                     | 100 to 230V, 50/60Hz |
| Dimensions L x W x H (mm)                        | 190 x 240 x 225      |
| Shipping Weight**                                | 3.0kg                |

\*\* Unit supplied without block inserts which must be ordered separately

## Ordering Information

| Description                                                     | Ordering Number | Series No. | Model No. | Legacy Sku. |
|-----------------------------------------------------------------|-----------------|------------|-----------|-------------|
| Cole-Parmer® Cooling Block, 0 to 40°C, requires 2 block Inserts | 36620-17        | CB-200     | CB-200D   | FBLOCKICE   |

## Cole-Parmer® Cooling Block - CB-200D

The Cole-Parmer® Cooling Block is ideal for chilling samples at sub-ambient temperatures. Holding two standard aluminium blocks from the block range the Cooling Block offers fast cool down times to ensure the unit is quickly available for use. The integrated timer allows up to 9 days to be programmed, which is more than enough for laboratory applications and the timer will not start until a stable temperature has been reached. The unit features our unique temperature control zone that ensures that all contents of the unit are kept at an even temperature, whether cold or warm. This range is the latest in lab cooling technology.

*\* Please note the primary design of the Cooling Block is to maintain biological samples safely between 4 and 37°C. The Cooling Block will achieve any temperature between 4 and 37°C within 30 minutes in an ambient temperature of 20°C. It will also reach 0°C or 40°C, but this may take several hours. Reaching 0°C can be speeded up by pre-cooling the aluminium blocks before use.*



## Cole-Parmer® Digital Heating Block® Heaters - BH-250 Series

- Digital models enable highly accurate temperature precision
- Fast heat-up rate: 25°C to 100°C in 7-9 minutes, depending on the model chosen
- Advanced temperature control. Temperature stability at 37°C  $\pm$  0.1°C
- Temperature range from from ambient +5°C to 100°C or 200°C, depending on the model chosen
- Choice of models with 2, 3 or 4 interchangeable blocks
- Versatile range of interchangeable heating blocks to fit all popular sample tubes and plates



BH-250D-2 Digital Block Heater



BH-250D-4 Digital Block Heater



BH-250D-2 Digital Block Heater



BH-250D-2TC Digital Block Heater



BH-250D-3 Digital Block Heater



BH-250D-4 Digital Block Heater



BH-250D-2-HT Digital Block Heater



BH-250D-3-HT Digital Block Heater

# Cole-Parmer® Digital Heating Block Heaters - BH-250 Series

## Electrical Safety

The Heating Block range has been designed to comply with all RF interference and electrical safety regulations and are CE marked.

## Warranty

Cole-Parmer® Heating Block have earned a strong reputation for reliability. All instruments are manufactured in the UK and supplied with a 3 year warranty. The anodised aluminium Heating Block inserts are supplied with a 1 year warranty.

## Applications

Applications include incubation, boiling, inactivation, wet washing, sample concentration, enzyme digestions, enzyme activity studies, nucleic acid hybridisations and many other clinical and industrial purposes. Larger three and four-block models are available for high throughput applications such as Chemical Oxygen Demand. The innovative Cole-Parmer® range also includes a twin control unit, accommodating two blocks with independent digital temperature controls. Each block can be set to different temperatures - ideal for multiple users or for applications where samples have to be transferred between two temperatures very quickly.

## Countdown Timer

Each digital unit features a countdown timer, which can be adjusted to time your experiment from anywhere between 1 minute and 100 hours, in 1 minute increments. To set the timer, press and hold the timer button and press the up or down buttons. Each press of the up or down buttons will increase or decrease the set time by 1 minute. If the buttons are held down, the time change will accelerate to 200 min per second. Release the timer button to activate the timer. An audible beep will indicate the timer is active. When the count-down has completed, an audible beep will be heard and the display will alternate between END and current temperature. Press the set/reset button to cancel the beeper. The unit will cool to ambient once the count-down time has completed. To cancel the timer, press and hold the set/reset button until STOP appears and an audible beep is heard.

## Technical Specification

| Specification                               | BH-250D-2             | BH-250D-2TC           | BH-250D-3             | BH-250D-4             | BH-250D-2-HT               | BH-250D-3-HT - BH-250D-3-HT-RS |
|---------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------|--------------------------------|
| <b>Blocks</b>                               | 2                     | 2                     | 3                     | 4                     | 2                          | 3                              |
| <b>Display</b>                              | 5 character LED       | 5 character LED       | 5 character LED       | 5 character LED       | 5 character LED            | 5 character LED                |
| <b>Working range</b>                        | Ambient +5°C to 100°C | Ambient +5°C to 100°C | Ambient +5°C to 100°C | Ambient +5°C to 100°C | From Ambient +5°C to 200°C | From Ambient +5°C to 200°C     |
| <b>Minimum set temperature</b>              | 0°C                   | 0°C                   | 0°C                   | 0°C                   | 0°C                        | 0°C                            |
| <b>Resolution</b>                           | 0.1°C                 | 0.1°C                 | 0.1°C                 | 0.1°C                 | 0.1°C                      | 0.1°C                          |
| <b>Accuracy (37°C)</b>                      | < ±1°C                | < ±1°C                | < ±1°C                | < ±1°C                | < ±1°C                     | < ±1°C                         |
| <b>Accuracy (100°C)</b>                     | < ±1°C                | < ±1°C                | < ±1°C                | < ±1°C                | < ±1°C                     | < ±1°C                         |
| <b>Stability (37°C)</b>                     | < ±1°C                | < ±1°C                | < ±1°C                | < ±1°C                | < ±1°C                     | < ±1°C                         |
| <b>Stability (100°C)</b>                    | < ±0.15°C             | < ±0.15°C             | < ±0.15°C             | < ±0.15°C             | < ±0.15°C                  | < ±0.15°C                      |
| <b>Max variation within block (37°C)</b>    | < 0.2°C               | < 0.2°C               | < 0.2°C               | < 0.2°C               | < 0.2°C                    | < 0.2°C                        |
| <b>Max variation within block (100°C)</b>   | < 0.25°C              | < 0.25°C              | < 0.25°C              | < 0.25°C              | < 0.25°C                   | < 0.25°C                       |
| <b>Max variation between blocks (37°C)</b>  | < 0.5°C               | < 0.5°C               | < 0.5°C               | < 0.5°C               | < 0.5°C                    | < 0.5°C                        |
| <b>Max variation between blocks (100°C)</b> | < 1.0°C               | < 1.0°C               | < 1.0°C               | < 1.0°C               | < 1.0°C                    | < 1.0°C                        |
| <b>Heat up time 25-100°C (min)</b>          | 8                     | 7                     | 7                     | 7                     | 8                          | 9                              |
| <b>Heat up time 25-200°C (min)</b>          | na                    | na                    | na                    | na                    | 23                         | 19                             |
| <b>Audible alarm</b>                        | Yes                   | Yes                   | Yes                   | Yes                   | Yes                        | Yes                            |
| <b>Minimum timer</b>                        | 1min                  | 1min                  | 1min                  | 1min                  | 1min                       | 1min                           |
| <b>Maximum timer</b>                        | 99hr 59min            | 99hr 59min            | 99hr 59min            | 99hr 59min            | 99hr 59min                 | 99hr 59min                     |
| <b>Safety cutout device</b>                 | Thermal fuse          | Thermal fuse          | Thermal fuse          | Thermal fuse          | Thermal fuse               | Thermal fuse                   |
| <b>Dimensions (WDH)</b>                     | 356 x 260 x 105mm     | 356 x 260 x 105mm     | 356 x 260 x 105mm     | 356 x 260 x 105mm     | 356 x 260 x 105mm          | 356 x 260 x 105mm              |
| <b>Electrical supply</b>                    | 230V or 115V 50-60Hz  | 230V or 115V 50-60Hz  | 230V or 115V 50-60Hz  | 230V or 115V 50-60Hz  | 230V or 115V 50-60Hz       | 230V or 115V 50-60Hz           |
| <b>Power (W)</b>                            | 300                   | 450                   | 450                   | 600                   | 300                        | 450                            |
| <b>Shipping weight (Kg)</b>                 | 5                     | 6                     | 6                     | 7                     | 5                          | 6                              |
| <b>Warranty (Years)</b>                     | 3                     | 3                     | 3                     | 3                     | 3                          | 3                              |

### Over-temperature cut-out

In the event of a fault occurring allowing the Heating Block to overheat, a thermal fuse will cut in and remove power from the heater when the temperature reaches approximately 192°C in BH250-2, BH250-3 models and 240°C in BH250D models - eliminating any risk.

### Accurate temperature control

Highly accurate digital temperature control is made quick and easy with a bright 5-digit orange LED display. Each unit has a set point resolution of 0.1°C with temperature range from ambient + 5°C up to 100°C or 200°C depending on the model chosen. The Cole-Parmer® Heating Block facilitate a fast heat-up rate from 25°C to 100°C in 7-9 minutes, depending on the model chosen and all models are able to achieve a temperature stability at 37°C ± 0.1°C.

### New panel venting

Each Cole-Parmer® digital Heating Block has venting to the side panels. Whilst helping to create a fresh modern look, the vents are designed to dissipate heat from the outer surfaces of the Dri-Block®, allowing users to safely handle and relocate their Heating Block even after extended use at 100°C or 200°C.

### Ordering Information

| Description                                                                                | Ordering Number | Series No. | Model No.           | Legacy Sku.    |
|--------------------------------------------------------------------------------------------|-----------------|------------|---------------------|----------------|
| Cole-Parmer® Digital Block Heater. Ambient + 5°C to 100°C, 2 blocks (230V)                 | 36620-00        | BH-250     | BH-250D-2           | DB100/2        |
| Cole-Parmer® Digital Block Heater. Ambient + 5°C to 100°C, 2 blocks (115V)                 | 36620-01        | BH-250     | BH-250D-2-115       | DB100/2/115    |
| Cole-Parmer® Digital Block Heater. Ambient + 5°C to 100°C, 2 blocks twin control (230V)    | 36620-02        | BH-250     | BH-250DC-2          | DB100/2TC      |
| Cole-Parmer® Digital Block Heater. Ambient + 5°C to 100°C, 2 blocks twin control (115V)    | 36620-03        | BH-250     | BH-250DC-2-115      | DB100/2TC/115  |
| Cole-Parmer® Digital Block Heater. Ambient + 5°C to 100°C, 3 blocks (230V)                 | 36620-04        | BH-250     | BH-250DC-3          | DB100/3        |
| Cole-Parmer® Digital Block Heater. Ambient + 5°C to 100°C, 3 blocks (115V)                 | 36620-05        | BH-250     | BH-250DC-3-115      | DB100/3/115    |
| Cole-Parmer® Digital Block Heater. Ambient + 5°C to 100°C, 4 blocks (230V)                 | 36620-06        | BH-250     | BH-250DC-4          | DB100/4        |
| Cole-Parmer® Digital Block Heater. Ambient + 5°C to 100°C, 4 blocks (115V)                 | 36620-07        | BH-250     | BH-250DC-4-115      | DB100/4/115    |
| Cole-Parmer® Digital Block Heater. Ambient + 5°C to 200°C, 2 blocks (230V)                 | 36620-08        | BH-250     | BH-250D-2-HT        | DB200/2        |
| Cole-Parmer® Digital Block Heater. Ambient + 5°C to 200°C, 2 blocks (115V)                 | 36620-09        | BH-250     | BH-250D-2-HT-115    | DB200/2/115    |
| Cole-Parmer® Digital Block Heater. Ambient + 5°C to 200°C, 3 blocks (230V)                 | 36620-10        | BH-250     | BH-250D-3-HT        | DB200/3        |
| Cole-Parmer® Digital Block Heater. Ambient + 5°C to 200°C, 3 blocks (115V)                 | 36620-11        | BH-250     | BH-250D-3-HT-115    | DB200/3/115    |
| Cole-Parmer® Digital Heating Block. Ambient + 25°C to 200°C, 3 blocks, RS232 output (230V) | 36620-16        | BH-250     | BH-250D-3-HT-RS     | DB200/3/RS     |
| Cole-Parmer® Digital Heating Block. Ambient + 25°C to 200°C, 3 blocks, RS232 output (115V) | 99965-78        | BH-250     | BH-250D-3-HT-RS-115 | DB200/3/RS/115 |



BH-250D-3-HT Digital Heating Block

# Cole-Parmer®

## Cole-Parmer® Block Heater, 2 Block, Analogue BH-200

- Analogue control
- Economical price
- 130°C maximum temperature
- Hot warning light to warn that the blocks are too hot to touch
- Uniform and stable temperatures



# Cole-Parmer® Block Heater, 2 Block, Analogue BH-200

Designed for the precise heating of test-tubes, microcentrifuge tubes, cuvettes and microtitre plates. With simple analogue setting of temperature for ease of use. “Hot” warning light will flash whenever the block temperature is above 50°C.



## Technical Specification

| Specification                    | BH-200                |
|----------------------------------|-----------------------|
| Temperature range                | Ambient +8°C to 130°C |
| Temperature stability at 37°C    | ±0.1°C                |
| Uniformity within block at 37°C  | ±0.1°C                |
| Uniformity within block at 130°C | ±1°C                  |
| Dimensions, mm (w x d x h)       | 235 x 280 x 115       |
| Net weight, kg (without blocks)  | 2.1                   |
| Heater power                     | 300W                  |
| Electrical supply                | 230V, 50Hz            |
| IP Rating                        | 31                    |

## Ordering Information

| Description                            | Ordering Number | Series No. | Model No.    | Legacy Sku.    |
|----------------------------------------|-----------------|------------|--------------|----------------|
| Block heater, 2 block, analogue, 130°C | 36610-01        | BH-200     | BH-200-2     | SBH130         |
| Block heater analogue Dual 130C 120V   | 36610-00        | BH-200     | BH-200-2-120 | SBH130/120V/60 |

# Cole-Parmer® Benchtop Chilling/Heating/Mixing Blocks



Chill, freeze, heat, or mix biological samples at your work station

- Store 5 programs in memory for precisely timed and repeatable routines
- Choose blocks for centrifuge tubes, assay plates, PCR tubes & plates, and more
- Two-block unit offers two different or same temperatures

Replace your ice buckets or inconvenient freezer blocks with this compact, economical benchtop chilling/heating block. Features include a two-line LCD that reads actual and set point temperatures, 30-day countdown timer with alarm and auto/off, built-in data logger, and RS-232 I/O port for bidirectional communication with an IBM® compatible computer. Energy-efficient Peltier design chills or heats biological samples from -10 to 100°C with  $\pm 1^\circ\text{C}$  digital control.

| Compare item                                                                                                   | Power (VAC) | Description                                           |
|----------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------|
|  EW-44175-00<br><br>COMPARE | 100 to 230  | Standard Benchtop Chilling/Heating Block, 100-230 VAC |

| Compareitem                                                                                                                    | Power (VAC) | Description                                                     |
|--------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------|
| <div><p>EW-44175-02</p><p>COMPARE</p></div>   | 100 to 230  | Orbital Chilling/Heating Block, 100 to 230 VAC                  |
| <div><p>EW-44175-04</p><p>COMPARE</p></div>   | 100 to 230  | Programmable Orbital Mixing/Chilling/Heating Block, 100 to 230V |
| <div><p>EW-44175-06</p><p>COMPARE</p></div> | 100 to 230  | Two-Position Chilling/Heating Block, 100 VAC                    |

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