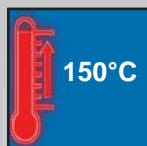


# Dry bath

one block, up to 150°C, various blocks available

**CONTROLTECNICA**



## HB-48 up to 150°C

### Ideal for:

- enzyme reactions, inactivation of sera, incubation and other laboratory procedures
- multifunctional dry block heater

### Features:

- user's self-compensation function to offset between real temperature and indicated temperature ( $\pm 10.0^\circ\text{C}$ )
- ergonomic design and modular block
- molded heater (300W) for temperature accuracy
- internal PPS bath ensures best insulation, block made of anodized aluminium
- precise temperature control
- digital timer function – delay time and operation control
- block extraction tongs "BLE101" & block cover are included
- storage function for the set values of temperature and timer
- various kinds of blocks are offered (optional)
- backlight LCD display
- CE certified and unique serial number for tracing

### Safety mechanism:

- locking mode
- overheat and over-current protection
- sensor error detection

### Controller:

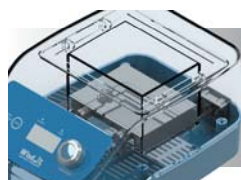
- digital fuzzy controller with **Jog-Dial** and **main touch button**



HB-48 Set with block and tong

<b>Model</b>	<b>HB-48</b>	
<b>Block</b>	interchangeable block (90 x 120 x 60 mm) for various tubes	
<b>Standard block</b>	-	48 holes for 1.5/2 ml centrifuge tubes
<b>Temperature range and accuracy</b>	ambient to $+5^\circ\text{C}$ to $150^\circ\text{C}$ , $\pm 0.1$ at $37^\circ\text{C}$ , $\pm 0.2^\circ\text{C}$ at $90^\circ\text{C}$ , $\pm 0.4^\circ\text{C}$ at $135^\circ\text{C}$	
<b>Heat-up speed &amp; sensor</b>	approx. $5^\circ\text{C}/\text{min}$ , PT100	
<b>Timer with alarm</b>	99hr 59min, alarm (error status and timer end)	
<b>Dimension</b>	unit: 210 x 309 x 144 mm, block: 90 x 120 x 60 mm	
<b>Packing size</b>	400 x 270 x 200 mm, 4 kg	
<b>Power supply</b>	1 Phase AC 120V, 60 Hz or AC 230V, 50/60Hz	
<b>Power consumption</b>	300 W	
<b>Order number 230V</b>	<b>Unit: DH.WHB00348</b>	<b>Set: DH.WHB00349</b>
<b>Order number 120V</b>	<b>Unit: DH.WHB00448</b>	<b>Set: DH.WHB00449</b>

Set includes: Unit HB-48  
Block BLC548 for 48x 1.5/2 ml tubes  
Tong BLE101



High quality molded heater ensures reliable and consistent temperature

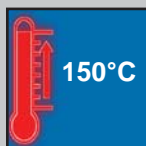


Maximum heat insulation and highest chemical resistance by PPS materials

Accessories: Dry bath blocks and tong on page 35

# Dry bath

two blocks, individual controller for each block, up to 150°C, various blocks available



## HB-96D 2 blocks up to 150°C

### Ideal for:

- enzyme reactions, inactivation of sera, incubation and other laboratory procedures
- multifunctional dry block heater

### Features:

- user's self-compensation function to offset between real temperature and indicated temperature ( $\pm 10.0^{\circ}\text{C}$ )
- unit made of stainless steel and powder-coated steel, block made of anodized aluminium
- digital timer function
- block extraction tongs "BLE101" & block cover are included
- storage function for the set values of temperature and timer
- alarm function: error status and timer end
- various kinds of blocks are offered (optional)
- dual block and 2 molded heater (300W)
- backlight LCD display
- CE certified and unique serial number for tracing

### Safety mechanism:

- locking mode
- overheat and over-current protection
- sensor error detection

### Controller:

- dual digital fuzzy controller with *Jog-Shuttle-switch*



HB-96D Set with blocks and tong

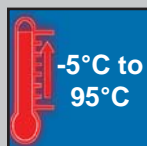
<b>Model</b>	<b>HB-96D</b>	
<b>Block</b>	interchangeable block (90 x 120 x 60 mm) for various tubes	
<b>Standard block</b>	-	2x 48 holes for 1.5/2 ml centrifuge tubes
<b>Temperature range and Accuracy</b>	ambient to +5°C to 150°C, $\pm 0.1$ at 37°C, $\pm 0.2^{\circ}\text{C}$ at 90°C, $\pm 0.4^{\circ}\text{C}$ at 135°C	
<b>Heat up speed &amp; sensor</b>	approx. 5°C/min PT 100	
<b>Timer with alarm</b>	99hr 59min, alarm (error status and timer end)	
<b>Dimension</b>	unit: 285 x 250 x 155 mm, 2 x block: 90 x 120 x 60 mm	
<b>Packing size</b>	400 x 270 x 200 mm, 6 kg	
<b>Power supply</b>	1 Phase AC 120V, 60 Hz or AC 230V, 50/60Hz	
<b>Power consumption</b>	600 W	
<b>Order number 230V</b>	<b>Unit: DH.WHB00198</b>	<b>Set: DH.WHB00199</b>
<b>Order number 120V</b>	<b>Unit: DH.WHB02198</b>	<b>Set: DH.WHB02199</b>

Set includes: Unit HB-96D  
Block 2x BLC548 for 48x 1.5/2 ml tubes  
Tong BLE101

Accessories: Dry bath blocks and tong on page 35

# Dry bath

one block, -5°C up to 95°C, various blocks available



## HB-R48 -5°C up to 95°C

### Ideal for:

- enzyme reactions, inactivation of sera, incubation and other laboratory procedures

### Features:

- user's self-compensation function to offset between real temperature and indicated temperature ( $\pm 10.0^\circ\text{C}$ )
- 2 peltier cooling modules
- unit made of stainless steel and powder-coated steel, block made of anodized aluminium
- block extraction tongs "BLE101" and block cover are included
- molded heater (300W), PT100 sensor
- storage function for the set values of temperature and timer
- backlight LCD display
- CE certified and unique serial number for tracing

### Safety mechanism:

- locking mode
- overheat and over-current protection
- sensor error detection

### Controller:

- digital PID and fuzzy controller with *Jog-Shuttle-switch*



HB-R48 Set with block and tong

Model	HB-R48	
Block	interchangeable block (90 x 120 x 60 mm) for various tubes	
Standard block	-	48 holes for 1.5/2 ml centrifuge tubes
Temperature range and accuracy	ambient to -5°C to 95°C, $\pm 0.1$ at 37°C, $\pm 0.2^\circ\text{C}$ at 90°C	
Cool-down speed	2.3°C/min. between 95°C to 25°C, 0.5°C/min between 25°C to -5°C	
Heat-up speed	approx. 5°C/min	
Timer with alarm	99hr 59min, alarm (error status and timer end)	
Dimension	unit: 185 x 230 x 220 mm, block: 90 x 120 x 60 mm	
Packing size	350 x 220 x 310 mm, 9 kg	
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60Hz	
Power consumption	450 W	
Order number 230V	Unit: DH.WHB00248	Set: DH.WHB00249
Order number 120V	Unit: DH.WHB02248	Set: DH.WHB02249

Set includes: Unit HB-R48  
Block BLC548 for 48x 1.5/2 ml tubes  
Tong BLE101

Accessories: Dry bath blocks and tong on page 35

### Blocks for dry baths

- anodized aluminium
- 90 x 120 x h60 mm



For	0.2 ml PCR tubes	0.5 ml PCR tubes	1.5/2 ml tubes	Ø12 mm tubes	Ø13 mm tubes
Holes	96 holes Ø: 6 mm depth: 15.5 mm conical bottom	63 holes Ø: 7.7 mm depth: 29.5 mm conical bottom	48 holes Ø: 11 mm depth: 36 mm conical bottom	48 holes Ø: 12 mm depth: 35 mm round bottom	30 holes Ø: 13 mm depth: 47 mm round bottom
Article	BLC596	BLC570	BLC548	BLT248	BLT335
Order number	DH.WHB510596	DH.WHB510570	DH.WHB511548	DH.WHB521248	DH.WHB521335



For	Ø15 mm tubes	Ø16.5 mm tubes	Ø18 mm tubes	15 ml conical tubes	50 ml conical tubes
Holes	30 holes Ø: 15 mm depth: 47 mm round bottom	24 holes Ø: 16.5 mm depth: 47 mm round bottom	24 holes Ø: 18 mm depth: 47 mm round bottom	15 holes Ø: 16 mm depth: 47 mm conical bottom	8 holes Ø: 28.7 mm depth: 47 mm conical bottom
Article	BLT535	BLT628	BLT828	BLC515	BLC008
Order number	DH.WHB521535	DH.WHB521628	DH.WHB521828	DH.WHB531515	DH.WHB535008

### Tong, for adding and removing blocks

Article	Order number
BLE101	DH.WHB500101

