

CONSTANT TEMPERATURE HEATED DRY BATHS

HDB Series



- ✓ Uniform Heating for Test Tubes, Cuvettes, and Other Sample Containers
- ✓ Interchangeable Insert Blocks
- ✓ Models for 2 or 3 Insert Blocks
- ✓ Solid State Temperature Control

OMEGA® HDB Series heated dry baths provide a safe, dry, constant temperature source in laboratory applications involving incubation, boiling, inactivation, wet ashing, and enzyme analysis, as well as in a variety of clinical and industrial applications.

Interchangeable aluminum insert blocks accept tubes or containers ranging from 6 to 26 mm in diameter. A close fit of the tubes in the block ensures high heat transfer, and the heater's design, thermistor temperature sensor, and solid state circuitry provide exceptionally good temperature stability and uniformity. Temperature stability is $\pm 0.1^{\circ}\text{C}$, and uniformity between blocks is $\pm 0.2^{\circ}\text{C}$ (both at 40°C).

On the HDB-2 and HDB-3, temperatures are adjusted with a dial calibrated in $^{\circ}\text{C}$. On the HDB-3D, the dial and digital display are used to set the temperature. The digital indicator continuously displays the temperature.

A block extraction tool, and threaded fitting built into the block, allow easy removal. The user can also insert glass thermometers into the block for accurate temperature measurement.

SPECIFICATIONS

Temperature Range:

HDB-2: 1.25 to 105°C (75 to 219°F)

HDB-3: 1.25 to 200°C (75 to 392°F)

HDB-3D: 1.25 to 200°C (75 to 392°F)

Temperature Stability (at 40°C):

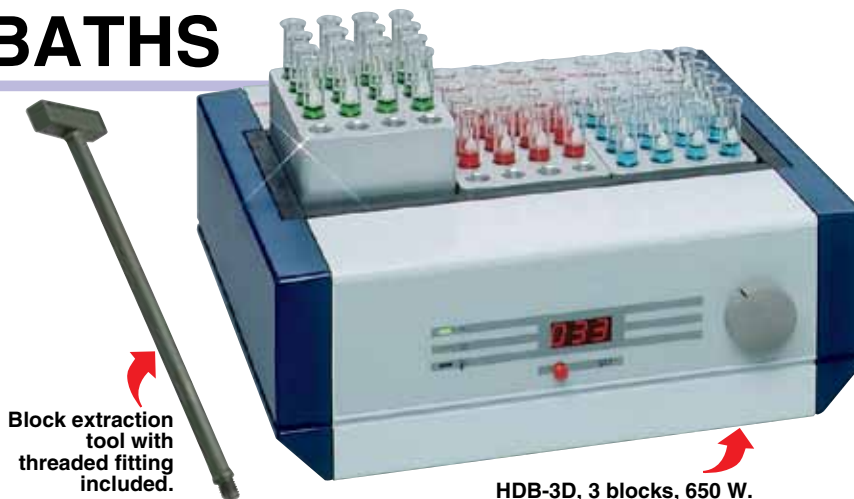
HDB-2, HDB-3, HDB-3D, $\pm 0.1^{\circ}\text{C}$

Maximum Temperature Variation Between Blocks (at 40°C):

0.2°C

Temperature Setting and Resolution:

HDB-2, HDB-3, Rotary Dial, 2°C increments; HDB-3D, 3 digit display, 1°C resolution



Block extraction tool with threaded fitting included.

HDB-3D, 3 blocks, 650 W.

Control Accuracy: HDB-2, HDB-3, $\pm 2^{\circ}\text{C}$; HDB-3D, $\pm 1^{\circ}\text{C}$

Outside Dimensions (L x W x H): HDB-2, 260 x 202 x 105 mm, (10.2 x 7.9 x 4.1"); HDB-3, HDB-3D, 279 x 260 x 105 mm, (10.9 x 10.2 x 4.1")

Shipping Weight: HDB-2, 4.1 kg (9.0 lb); HDB-3, HDB-3D, 5.0 kg (11 lb)

Power: HDB-2, 450 W, 120V*, 50/60 Hz; HDB-3, HDB-3D, 650 W, 120V†, 50/60 Hz

† 240V models also available, add "-240V" suffix to model number.

To Order

Model No.	Description
HDB-2	2 blocks, 25 to 105°C , 450 W, 120V
HDB-3	3 blocks, 25 to 200°C , 650 W, 120V
HDB-3D	3 blocks, 25 to 200°C , 650 W, 120V, temperature and setpoint display

Aluminum Insert Blocks

Model No.	Tube Size	Number of Holes	Dimensions (mm)
6013501	Plain block	None	95 x 76 x 51
6013502	6 mm	30	95 x 76 x 51
6013503	10 mm	20	95 x 76 x 51
6013504	12 mm	20	95 x 76 x 51
6013505	13 mm	20	95 x 76 x 51
6013506	15 mm	12	95 x 76 x 51
6013507	16 mm	12	95 x 76 x 51
6013508	19 mm	8	95 x 76 x 51
6013509	25 mm	6	95 x 76 x 51
6013510	10 mm cuvettes, 2 channels	—	95 x 76 x 51
6013512*	Plain block thermometer	Hole only	95 x 225 x 51
6014460	Plain block thermometer	Hole only	95 x 76 x 51
6014462	24 mm	6	95 x 76 x 51
6014463	26 mm	6	95 x 76 x 51
6014464	1.5 mL eppendorf	20	95 x 76 x 51
6014465	0.5 mL eppendorf	30	95 x 76 x 51
6014466	Plastic half plain blocks**	—	95 x 37 x 50

Comes with block extraction tool, power cord and plug, and operator's manual. Aluminum insert blocks are ordered separately (see table above).

Note: 240V models are also available. To order, add "-240V" suffix to model number.

* For HDB-3, HDB-3D only. ** If less than the maximum number of blocks is used, it is recommended that the plastic half blocks fill the space on either side of the aluminum block(s) to maintain temperature stability.

Ordering Examples: HDB-2, heated dry bath with 2 model 6013503 20-hole insert blocks. HDB-3, heated dry bath with 3 model 6013503 20-hole insert blocks.