

# *Dry Block Heaters*



*Dry Block Heaters*  
*2 Block Dry Block Heaters with Lid*

# Dry Block Heaters



Multi-purpose Dry Block Heaters are ideal for applications that require temperature stability. The close tube-to-block contact enables maximum heat retention, resulting in efficient heating. High-wattage, constant-temp. analog models are an economical option, while digital models offer exceptional temp. uniformity & stability for applications that require repeatable results. Units hold optional interchangeable modular blocks with over 40 options.

- Delivering Exceptional Temperature Stability and Uniformity
- Accurate and Fast Sample Heating with PID Microprocessor Temperature Control (Digital Models)
- Digital Models can be Calibrated to an External Temperature Device

## Dry Block Heaters

- Exceptional temperature uniformity and stability
- Optional external temperature probe
- Holds interchangeable modular blocks

Designed for applications that require repeatable results and superior temperature stability. These multi-purpose units are ideal for incubation and activation of cultures, enzyme reactions, immunoassays, melting/boiling points, and a wide variety of other laboratory procedures. Integral support rod holder with locking knob accepts optional External Temperature Probe Kit. Optional External Temperature Probe Kit monitors actual block or sample temperature. Each of the five models accepts separate interchangeable modular blocks, accommodating various tube sizes from 0.2 mL micro-tubes to 50 mL centrifuge tubes. Each block has a thermometer well for measuring block temperature. Efficient heating due to close tube-and-block contact for maximum heat retention. Heaters require OHAUS modular heating blocks for operation. Modular blocks are sold separately (see pages 75–77).

### Operating Features:

**Microprocessor Control:** PID temperature control, with optional external RTD probe, offers a temperature stability as low as  $\pm 0.1^\circ\text{C}$  with a temperature uniformity as low as  $\pm 0.1^\circ\text{C}$ . Samples are heated to temperature quickly and accurately. Temperature is adjusted in  $\pm 0.1^\circ\text{C}$  increments.

**LED Display:** Touch pad controls with easy-to-read, independent LED displays for temperature, and time. Provides repeatable and accurate results every time and is easily visible across lab benches. Shows set-point and actual temperature. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

**Temperature Calibration Mode:** Allows user to calibrate unit to an external temperature device.

### Safety Features:

**Caution Hot Indicator:** Hot warning symbol light is illuminated when the temperature is above  $40^\circ\text{C}$ .

**Overshoot Protection:** If the unit exceeds the set temperature by  $10^\circ\text{C}$  the unit will automatically stop heating.

**Audible Alarm:** In timed mode, alarm will sound when time reaches zero and when unit reaches set-point temperature.

**CAUTION!** To avoid possible electrical hazard, do not fill well or block opening with water or other fluids. Unit is designed as a dry bath/incubator.

### Operating Conditions:

Units can be run in conditions from 18 to  $33^\circ\text{C}$ , 20% to 80% relative humidity, non-condensing.



### Applications:

Denaturing proteins, DNA applications, ELISA and other immunoassay studies.

### Ordering Information:

Units include a detachable, 3-wire cord and plug. Modular blocks are sold separately (see pages 75-77).

Size	Temperature Range	Temperature Stability @ $37^\circ\text{C}$	Uniformity Within the Block @ $37^\circ\text{C}$	Uniformity Across Similar Blocks @ $37^\circ\text{C}$	Heat-Up Time to $100^\circ\text{C}$
1 block	Ambient $+5^\circ\text{C}$ to $120^\circ\text{C}$	230 volt units: $\pm 0.2^\circ\text{C}$	230 volt units: $\pm 0.2^\circ\text{C}$	N/A	45 minutes
2 block				$\pm 0.1^\circ\text{C}$	50 minutes
4 block				$\pm 0.2^\circ\text{C}$	60 minutes
6 block				$\pm 0.3^\circ\text{C}$	65 minutes

# Dry Block Heaters

## Dry Block Heaters

### Advanced Dry Block Heaters

Block Capacity	Dimensions (L × W × H)	Model	Item Number
1	31.5 × 20.3 × 8.9 cm	HB1DG	30392061
2	39.1 × 20.3 × 8.9 cm	HB2DG	30392082
4	42.9 × 20.3 × 8.9 cm	HB4DG	30392089
6	53.1 × 20.3 × 8.9 cm	HB6DG	30392096

### External Temperature Probe Kit

Enables the unit to read actual block or sample temperature and display that temperature on the control panel. The optional External Temperature Probe Kit includes a stainless steel RTD PT100 probe, 45.7 cm stainless steel support rod, thermometer/temperature probe extension clamp and hook connector. The PT100 RTD probe is designed to fit perfectly in to the thermometer well of each modular block.



Description	Item Number
Optional External Temperature Probe Kit	30400246



## Dry Block Heaters

- Multi-purpose use
- Holds interchangeable modular blocks
- Analog controls

High wattage, constant-temperature Dry Block Heaters are economical, versatile and compact. These multi-purpose units are ideal for incubation and activation of cultures, enzyme reactions, immunoassays, melting/boiling points and a wide variety of other laboratory procedures. Each of the five models accept separate interchangeable modular blocks, accommodating various sample enclosures such as micro-tubes, centrifuge tubes, vials, microplates, and PCR strips or tubes. Each block has a thermometer well for measuring block temperature. Anodized aluminum modular blocks provide superior temperature stability and heat transfer. Heaters require OHAUS modular heating blocks for operation. Modular blocks are sold separately (see pages 75-77).



### Operating Features:

High wattage, constant-temperature Dry Block Heaters are economical, versatile and compact.

**Microprocessor Control:** PID temperature controller maintains precise temperature control. Samples are heated to temperature quickly and accurately.

**Adjustment Knobs:** Dual temperature control knobs with dial markings from 1 to 10 for low temperature and high temperature adjustments. Low range knob adjusts from ambient to 100°C and high range knob adjusts from 75°C to 150°C.

**CAUTION!** To avoid possible electrical hazard, do not fill well or block opening with water or other fluids. Unit is designed as a dry bath/incubator.

### Operating Conditions:

Units can be run in conditions from 18 to 33°C, 20% to 80% relative humidity, non-condensing.

### Applications:

Coagulation and RH Studies.

### Ordering Information:

Units include a detachable, 3-wire cord and plug. Modular blocks are sold separately (see pages 75-77).

Size	Temperature Range	Uniformity Within the Block @ 37°C	Temperature Stability @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C
1 block	Low Range: Ambient +5°C to 100°C  High Range: 75°C to 150°C	230 volt units: ± 0.2°C	230 volt units: ± 1.5°C	N/A	45 minutes
2 block			230 volt units: ± 2.0°C	± 0.1°C	50 minutes
4 block			230 volt units: ± 2.5°C	± 0.2°C	70 minutes
6 block			± 0.3°C	75 minutes	

## Dry Block Heaters

### Dry Block Heaters

#### Standard Dry Block Heaters

Block Capacity	Dimensions (L × W × H)	Model	Item Number
1	31.5 × 20.3 × 8.9 cm	HB1AL	30392047
2	39.1 × 20.3 × 8.9 cm	HB2AL	30392054
4	42.9 × 20.3 × 8.9 cm	HB4AL	30392068
6	53.1 × 20.3 × 8.9 cm	HB6AL	30392075