

## Advanced Dry Block Heater with Heated Lid

- Exceptional uniformity, stability, and regulation of temperature
- Heated lid reduces condensation on sample lids
- Optional external temperature probe

Talboys Advanced Dry Block Heaters with Heated Lid are designed for applications that require repeatable results and superior temperature stability. These multi-purpose units are ideal for isothermal incubation, enzyme reactions, immunoassays, nucleic acid denaturation 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. Block heater accepts one microplate block or two separate interchangeable modular blocks, accommodating various tube sizes from 0.2mL micro-tubes to test tubes or vials up to 85mm in height. Each block has a thermometer well for measuring block temperature. Efficient heating due to close tube-and-block contact with a low density design for exceptional temperature uniformity. The heated lid helps to regulate the temperature and reduce the amount of condensation on sample lids. Heaters require Talboys 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.

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

**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.

**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.



949502HL

### Operating Conditions:

Units can be run in environments from 18 to  $33^{\circ}\text{C}$  ( $64$  to  $91^{\circ}\text{F}$ ), 20% to 80% relative humidity, non-condensing.

### Applications:

Isothermal incubation, enzyme reactions, immunoassays and nucleic acid denaturation and a wide variety of other laboratory procedures.

### Ordering Information:

Units include a 92" (234cm) detachable, 3-wire cord and plug (230 volt units are supplied with Euro type plug). For optional temperature probe kits see page 71. Modular blocks sold separately (see pages 75–77). **5 year limited warranty on parts and labor.**

**Optional NIST Traceable Calibration Certificate** provided by Troemner's ISO/IEC 17025 accredited laboratory. Multiple data points within the temperature range and time function are reported on the certificate with the associated uncertainties.

**Distributed by:**  
**Safety Emporium**  
**PO Box 1003**  
**Blackwood, NJ 08012**

**Ph: (866) 326-5412 (toll-free)**  
**Fax: (856) 553-6154**  
**esales@safetyemporium.com**  
**www.safetyemporium.com**

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 $100^{\circ}\text{C}$
2 block	Ambient $+5^{\circ}\text{C}$ to $100^{\circ}\text{C}$	120 volt units: $\pm 0.1^{\circ}\text{C}$ 230 volt units: $\pm 0.2^{\circ}\text{C}$	120 volt units: $\pm 0.1^{\circ}\text{C}$ 230 volt units: $\pm 0.2^{\circ}\text{C}$	$\pm 0.1^{\circ}\text{C}$ $\pm 0.2^{\circ}\text{C}$	50 minutes

Advanced Dry Block Heaters					
Block Capacity	Dimensions (L x W x H)	Electrical (50/60 Hz)		Ship Weight	Part Number
2	15.4 x 8 x 7" (39.1 x 20.3 x 17.8cm)	120V   3.0 amps   400 watts		7lbs (3.2kg)	949502HL
2	15.4 x 8 x 7" (39.1 x 20.3 x 17.8cm)	230V   1.65 amps   400 watts		7lbs (3.2kg)	949503HL

Advanced Dry Block Heaters with NIST Traceable Certificate					
Block Capacity	Dimensions (L x W x H)	Electrical (50/60 Hz)		Ship Weight	Part Number
2	15.4 x 8 x 7" (39.1 x 20.3 x 17.8cm)	120V   3.0 amps   400 watts		7lbs (3.2kg)	949702HL
2	15.4 x 8 x 7" (39.1 x 20.3 x 17.8cm)	230V   1.65 amps   400 watts		7lbs (3.2kg)	949703HL