

TALBOYS

Dry Block Heaters



Quality
Selection
Value

Advanced Dry Block Heaters

- **Exceptional temperature uniformity and stability**
- **Optional external temperature probe**
- **Heats from ambient to 120°C**
- **Holds interchangeable modular heating blocks**
- **LED display**

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.

Microprocessor PID control, with optional external probe, offers a temperature stability of $\pm 0.1^\circ\text{C}$ with a temperature uniformity as low as $\pm 0.1^\circ\text{C}$.

Easy-to-use controls with independent LED displays show actual and set-point temperatures. Controls allow users to adjust temperature set-point in $\pm 0.1^\circ\text{C}$ increments.

Timer will display elapsed time or when programmed to user defined limit, will count down to zero and shut off unit.

Audible alarm will sound when time reaches zero.

Optional external temperature probe kit monitors actual block or sample temperature. LED display on front panel will show actual probe temperature and adjust heater output to maintain user defined set-point. All dry block heaters include a built-in support rod holder for mounting the probe kit. Kit includes stainless steel RTD probe, 18" (45.7cm) vertical support rod, thermometer/probe extension clamp and hook connector.

Each of the five models accepts separate interchangeable modular heating blocks, accommodating various tube sizes from 0.2mL microtubes to 50mL centrifuge tubes. Each block has a thermometer well for measuring block temperature. Efficient heater features close tube-and-block contact with a low density design for exceptional temperature uniformity. Modular blocks are sold separately.

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.

ORDERING INFORMATION

Units include a 92" (234cm) detachable, 3-wire cord and plug (230 volt units are supplied with Euro type plug).

949500 with optional
949520



949502



Size	Temperature Range	Stability @ 37°C	Uniformity w/in the Block @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C
1 block	ambient +5°C to 120°C	$\pm 0.1^\circ\text{C}$	$\pm 0.1^\circ\text{C}$	N/A	45 min.
2 block				$\pm 0.1^\circ\text{C}$	50 min.
3 block				$\pm 0.15^\circ\text{C}$	55 min.
4 block				$\pm 0.2^\circ\text{C}$	60 min.
6 block				$\pm 0.3^\circ\text{C}$	65 min.

Block Capacity	Dimensions (L x W x H)	Electrical (50/60 Hz)	Ship Weight	Part Number	Price
1	12.4 x 8 x 3.5" (31.5 x 20.3 x 8.9cm)	120V 0.9 amps 110 watts	5.8lb (2.6kg)	949500	\$551.00
		230V 0.5 amps 110 watts		949501	\$606.00
2	15.4 x 8 x 3.5" (39.1 x 20.3 x 8.9cm)	120V 1.7 amps 210 watts	6.4lb (2.9kg)	949502	\$676.00
		230V 0.9 amps 210 watts		949503	\$745.00
3	18.4 x 8 x 3.5" (46.7 x 20.3 x 8.9cm)	120V 1.7 amps 210 watts	8lb (3.6kg)	949504	\$780.00
		230V 0.9 amps 210 watts		949505	\$860.00
4	16.9 x 8 x 3.5" (42.9 x 20.3 x 8.9cm)	120V 2.6 amps 310 watts	8.5lb (3.9kg)	949506	\$958.00
		230V 1.3 amps 310 watts		949507	\$1055.00
6	20.9 x 8 x 3.5" (53.1 x 20.3 x 8.9cm)	120V 3.4 amps 410 watts	10lb (4.5kg)	949508	\$1041.00
		230V 1.7 amps 410 watts		949509	\$1145.00
Optional External Temperature Probe Kit				949520	\$195.00

Standard Dry Block Heaters

- **Multi-purpose use**
- **Heats from ambient to 150°C**
- **Holds interchangeable modular heating blocks**
- **Analog controls**

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.

Two separate temperature adjustment knobs, providing low temperature and high temperature control. Low range knob adjusts from ambient to 100°C and high range knob adjusts from 75°C to 150°C.

High wattage, constant-temperature dry block heaters are economical, versatile and compact. Each of the five models accepts separate interchangeable modular heating blocks, which accommodate various sample enclosures such as microtubes, centrifuge tubes, vials, microplates, and PCR strips or tubes. Each block has a thermometer well for measuring block temperature. Anodized aluminum modular heating blocks provide superior temperature stability and heat transfer. Modular blocks are sold separately.

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.

ORDERING INFORMATION

Units include a 92" (234cm) detachable, 3-wire cord and plug (230 volt units are supplied with Euro type plug).

949512



949510

Size	Temperature Range	Stability @ 37°C	Uniformity w/in the Block @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C
1 block	<u>Low Range:</u> ambient +5°C to 100°C	±1°C	±0.1°C	N/A	45 min.
2 block		±1.5°C		±0.1°C	50 min.
3 block		±2°C		±0.15°C	60 min.
4 block	<u>High Range:</u> 75°C to 150°C	±2°C		±0.2°C	70 min.
6 block		±2°C		±0.3°C	75 min.

Block Capacity	Dimensions (L x W x H)	Electrical (50/60 Hz)	Ship Weight	Part Number	Price
1	12.4 x 8 x 3.5" (31.5 x 20.3 x 8.9cm)	120V 0.9 amps 110 watts	5.8lb (2.6kg)	949510	\$239.00
		230V 0.5 amps 110 watts		949511	\$263.00
2	15.4 x 8 x 3.5" (39.1 x 20.3 x 8.9cm)	120V 1.7 amps 210 watts	6.4lb (2.9kg)	949512	\$385.00
		230V 0.9 amps 210 watts		949513	\$425.00
3	18.4 x 8 x 3.5" (46.7 x 20.3 x 8.9cm)	120V 1.7 amps 210 watts	8lb (3.6kg)	949514	\$510.00
		230V 0.9 amps 210 watts		949515	\$562.00
4	16.9 x 8 x 3.5" (42.9 x 20.3 x 8.9cm)	120V 2.6 amps 310 watts	8.5lb (3.9kg)	949516	\$645.00
		230V 1.3 amps 310 watts		949517	\$709.00
6	20.9 x 8 x 3.5" (53.1 x 20.3 x 8.9cm)	120V 3.4 amps 410 watts	10lb (4.5kg)	949518	\$885.00
		230V 1.7 amps 410 watts		949519	\$974.00

Modular Heating Blocks and Accessories

Constructed from a solid anodized aluminum block, the close contact of tubes to block walls allow for maximum heat retention. Each block has a thermometer well for measuring block temperature. **CAUTION!** To avoid possible electrical hazard, do not fill well or block with water or other liquids. Units are designed as a dry bath/incubator.

Single block dimensions (L x W x H): 3.75 x 3 x 2" (9.5 x 7.6 x 5.1cm), **Double block dimensions (L x W x H):** 6 x 3.75 x 2.25" (15.2 x 9.5 x 5.7cm)

Microcentrifuge Tubes

Single block.

Brand/Sample Type	Well Dia.	No. of Wells	Well Depth	Part Number	Price
0.5mL tube	7.9mm	30	27.6mm	949108	\$85.00
1.5mL tube	11.1mm	20	39.1mm	949110	\$89.00
Eppendorf™ 1.5mL tube	11.5mm	20	36.9mm	949113	\$89.00
Eppendorf™ 2mL tube	11.5mm	20	38.1mm	949151	\$88.00
Corning™ 2mL tube	10.9mm	20	38.1mm	949152	\$88.00



Titer Plate

Ideal for 96-well or 384-well titer plates. Recessed well for better stability, flat surface good for flat and round bottom plates. Double block. Fits 2/4/6 block heaters.

Sample Type	Well Depth	Part Number	Price
Titer plate	13.5mm	949115	\$185.00



Conical-Bottom Centrifuge Tubes

Single block.

Sample Type	Well Dia.	No. of Wells	Well Depth	Part Number	Price
15mL tube	17.1mm	12	44.5mm	949131	\$85.00
50mL tube	29.0mm	5	47.6mm	949127	\$85.00



Standard Test Tubes

Single block.

Sample Type	Well Dia.	No. of Wells	Well depth	Part Number	Price
6mm tube	8.3mm	30	48.4mm	949109	\$85.00
10mm tube	10.7mm	24	48.4mm	949102	\$85.00
12/13mm tube	13.9mm	20	48.4mm	949103	\$85.00
12/13mm tube	13.9mm	16	48.4mm	949116	\$85.00
15/16mm tube	17.5mm	12	48.4mm	949104	\$85.00
17/18mm tube	19.1mm	12	48.4mm	949155	\$85.00
20mm tube	21.0mm	8	48.4mm	949105	\$85.00
25mm tube	26.2mm	6	48.4mm	949106	\$85.00
35mm tube	35.0mm	4	47.6mm	949126	\$85.00



Combination Blocks

These blocks have been designed for variable sized samples. Single block.

Sample Type	Well Dia.	No. of Wells	Well Depth	Part Number	Price
Test Tube Combination:	6mm	8.3mm	6	949107	\$89.00
	12/13mm	13.9mm	5		
	25mm	26.2mm	3		
Centrifuge Tube Combination:	1.5mL	11.1mm	4	949153	\$88.00
	15mL	17.1mm	3		
	50mL	29.0mm	2		
Microtube Combination:	0.5mL	7.9mm	6	949154	\$88.00
	1.5mL	11.1mm	10		
	2mL	11.5mm	5		



Vials

Designed for sample/serum and scintillation vials. Single block.

Sample Type	Well Dia.	No. of Wells	Well Depth	Part Number	Price
12mm vial	12.7mm	20	30mm	949142	\$92.00
15mm vial	15.8mm	20	35mm	949143	\$92.00
16mm vial	16.4mm	15	45mm	949150	\$92.00
17mm vial	17.8mm	12	45mm	949144	\$92.00
19mm vial	19.7mm	12	45mm	949145	\$92.00
21mm vial	21.7mm	9	45mm	949146	\$92.00
23mm vial	23.8mm	8	45mm	949147	\$92.00
25mm vial	25.8mm	8	45mm	949148	\$92.00
28mm vial	28.8mm	6	45mm	949149	\$92.00



PCR - Plates, Tubes, Strips

Tapered tube wells for 0.2mL tubes. Spaced for easy access and removal. Single and double block.

Sample Type	Block Size	Well Dia.	No. of Wells	Well Depth	Part Number	Price
96-well PCR plate	double	6.4mm	96	15.5mm	949130	\$220.00
10 x 8 tube strips	single	6.4mm	80	15.5mm	949128	\$105.00
Individual tubes	single	6.4mm	64	20.2mm	949129	\$105.00



Cuvette

Two parallel slots fit 6 cuvettes in each slot, side-by-side for excellent stability and heat transfer. Single block.

Sample Type	No. of Wells	Well Depth	Part Number	Price
(12) 12.5mm cuvettes	2	25.4mm	949112	\$105.00



Solid Blocks

For use as a low-temperature hotplate or for custom drilling to make your own custom block. Single or double block.

Block Size	Dimension (L x W x H)	Part Number	Price
Single	3.75 x 3 x 2" (9.5 x 7.6 x 5.1cm)	949111	\$89.00
Double	6 x 3.75 x 2.25" (15.2 x 9.5 x 5.7cm)	949117	\$130.00



Stainless Steel Sand Baths

Ideal for irregular vessels. Stainless steel construction for superior corrosion resistance. Designed to hold sand, stainless steel shot or non-volatile liquids.

For Unit	Dimensions (L x W x H)	Part Number	Price
1 block heater	3.75 x 3 x 2.5" (9.5 x 7.6 x 6.4cm)	949132	\$200.00
2 block heater	3.75 x 5.875 x 2.5" (9.5 x 14.9 x 6.4cm)	949133	\$210.00
3 block heater	3.75 x 8.8 x 2.5" (9.5 x 22.4 x 6.4cm)	949134	\$215.00
4 block heater	5.8 x 7.5 x 2.5" (14.7 x 19.1 x 6.4cm)	949135	\$220.00
6 block heater	5.8 x 11.3 x 2.5" (14.7 x 28.7 x 6.4cm)	949136	\$230.00
Accessory		Part Number	Price
Sand, 1lb (.454kg)		949137	\$59.00
Stainless steel shot, 1lb (.454kg)		949138	\$72.00



Low Temperature Covers

Plexiglass cover reduces air flow for additional temperature stability in low-temperature applications. Two sides are open .25" (6.4mm).

Block Size	Dimensions (L x W x H)	Part Number	Price
2 block cover	6.5 x 6.5 x 1.625" (16.5 x 16.5 x 4.1cm)	949139	\$74.00
4 block cover	8.5 x 8.5 x 1.625" (21.6 x 21.6 x 4.1cm)	949140	\$79.00
6 block cover	12.5 x 8.5 x 1.625" (31.8 x 21.6 x 4.1cm)	949141	\$85.00



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