



## Heating Blocks



### Cole-Parmer Benchtop Chilling/Heating/Mixing Blocks

Chill, freeze, heat, or mix biological samples at your work station

- Store five programs in memory for precisely timed and repeatable routines
- Choose blocks for centrifuge tubes, assay plates, PCR tubes and plates, and more
- Two-block unit offers two different or same temperatures

Features include a two-line LCD that reads actual and set point temperatures, 30-day countdown timer with alarm and auto/off, built-in data logger, and RS-232 I/O port for bidirectional communication with an IBM®-compatible computer. Energy-efficient Peltier design chills or heats biological samples from -10 to 100°C with ±1°C digital control.

**A Standard Chilling/Heating Block** is ideal for applications such as storing enzymes or DNA libraries, maintaining 14°C for ligation reactions, and incubating or deactivating enzyme reactions.

**B Orbital Mixing Chilling/Heating Block** combines shaking, heating, and cooling all in one instrument with a built-in orbital mixer with speeds settable from 200 to 1000 rpm.

**C Programmable Orbital Mixing Chilling/Heating Block** is fully programmable with built-in orbital mixer. This model can store five programs in memory of as many as 10 steps per program where each step can be a temperature, time, and mixing speed. Each program can be repeated from 1 to 99 times automatically.

**D Two-Position Chilling/Heating Block** is non-programmable. It features two individually controlled blocks that can be set to the same temperature or two different temperatures.

**What's included:** chiller/heater module, power cord, and a 12 VDC power supply. Order cover and aluminum blocks separately.



44175-06

Aluminum blocks are available for different sample tubes



44175-00



Key	Catalog number	Description	Power	Price
A	<a href="#">LZ-44175-00</a>	Standard Orbital	100 to 230 VAC	
B	<a href="#">LZ-44175-02</a>	Standard Orbital	100 to 230 VAC	
C	<a href="#">LZ-44175-04</a>	Programmable Two-position	100 to 230 VAC	
D	<a href="#">LZ-44175-06</a>	Programmable Two-position	100 VAC	

[LZ-44175-50](#) Cover, plastic; for aluminum blocks below

**Interchangeable Aluminum Blocks** are ideal for chilling or heating your samples. Measure 4 3/8" L x 2 7/8" W (11.1 x 7.3 cm).

Catalog number	Type	Capacity	Price
<a href="#">LZ-44175-15</a>	Micro centrifuge tubes	40 x 0.5 mL	
<a href="#">LZ-44175-20</a>		30 x 1.5 mL	
<a href="#">LZ-44175-35</a>		40 x 0.5 mL and 15 x 1.5 mL	
<a href="#">LZ-44175-30</a>	PCR plates/strips Flat bottom Test tubes Test tubes	96 x 0.2 mL	
<a href="#">LZ-44175-36</a>		96/384-well assay plates	
<a href="#">LZ-44175-37</a>		12 x 15/16-mm ID	
<a href="#">LZ-44175-38</a>		20 x 12/13-mm ID	

## Dry Block Heaters

Safely heat samples with precision and accuracy

- Small compact size saves valuable bench space
- Interchangeable heating blocks accommodate various vial sizes

**Dry Block Heaters.** Ideal for all your sample heating requirements in the lab, these heaters are designed with an automatic PID controller that is a single-loop, auto-tuning configuration providing precision accuracy (±0.1% of span). The digital control (°F/°C selectable) is easy to set and temperatures are displayed on the four-digit LCD. Required heating blocks (sold separately below) are interchangeable based on your sample tube or vial size. Units maintain temperature from slightly above ambient to 125°C ±1°C.

**Heating Blocks** (required for use with block heaters) are constructed of anodized aluminum and designed for optimal heat transfer to tube or vial sample contents. Select heating block based on your tube or vial size.

**What's included:** 6-ft (1.8 m), three-wire power cord with plug.



36495-00



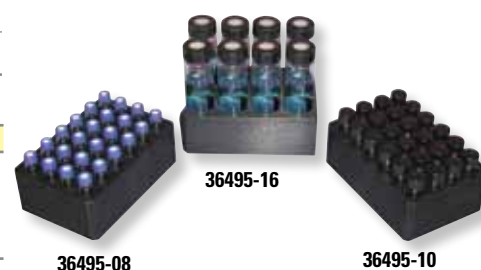
36495-02 and -06 only

### Dry Block Heaters

Catalog number	No. of blocks	Uniformity	Maximum temperature	Dimensions (W x H x D)	Power		Price
					VAC	Watts	
<a href="#">TW-36495-00</a> <a href="#">TW-36495-02</a>	One	±1°F/°C	257°F (125°C)	5 3/4" x 4 1/2" x 6 3/4" (14.6 x 11.4 x 17.1 cm)	120 240	150 150	
<a href="#">TW-36495-04</a> <a href="#">TW-36495-06</a>	Three	±1°F/°C	257°F (125°C)	5 1/2" x 4 1/2" x 13" (14.0 x 11.4 x 33.0 cm)	120 240	200 200	

### Heating Blocks

Catalog number	Tube size accepted	Number of openings	Opening diameter	Price
<a href="#">TW-36495-08</a>	12 or 13 mm	24	1 1/2" (13.5 mm)	
<a href="#">TW-36495-10</a>	15 mm	24	3/8" (15.5 mm)	
<a href="#">TW-36495-12</a>	15 or 16 mm	20	1 1/8" (17.5 mm)	
<a href="#">TW-36495-14</a>	20 mm	12	1 3/16" (20.6 mm)	
<a href="#">TW-36495-16</a>	27 mm	8	1 3/2" (27.8 mm)	



36495-08

36495-16

36495-10

### StableTemp Dry Block Heaters

#### Precision temperature stability ensures reproducibility of results

- Interchangeable modular heating blocks provide flexibility for heating different-sized tubes—order blocks separately online

Designed for incubation and activation of cultures, enzyme reactions, immunoassays, melting/boiling points, and a wide variety of other laboratory procedures. Each heater accepts separate interchangeable modular heating blocks, which accommodate various sample enclosures such as microtubes, centrifuge tubes, vials, microplates, and PCR strips or tubes. Create a versatile system unique to your application; order either an analog or digital heater and the required heating block module (sold separately online).

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

**Analog Dry Block Heaters** are economical, high-wattage, constant temperature heaters that are ideal for a wide variety of general chemistry applications. They are controlled by two separate temperature adjustment knobs, with 1 to 10 dial markings for low and high temperature ranges. Low-range knob adjusts from ambient to 212°F (100°C) and high-range knob adjusts from 167 to 302°F (75 to 150°C).

**Digital Dry Block Heaters** offer exceptional temperature uniformity and feature a proportional integrative derivative (PID) controller. PID control allows you to select a particular temperature with ease, enables rapid heat-up for samples, and provides excellent stability to maintain results. Features include timer, audible alarm, built-in temperature calibration mode, and independent LED displays that show actual and set point temperatures. Models 36600-69 and -70 have a heated lid designed to reduce condensation and prevent cross-contamination.

**External Temperature Probe Kit** (for digital units only) enables the unit to read block or sample temperature and display that temperature on the control panel. The kit includes a stainless steel RTD probe, an 18" (45.7 cm) L stainless steel support rod, probe extension clamp, and hook connector. The RTD probe is designed to fit into the thermometer well located within each modular block.

**What's included:** detachable, 92" (234 cm) L, 3-wire cord with plug (230 VAC units are supplied with European plug).

#### REQUIRED SYSTEM Components

- Heater . . . . . 728
- Heating blocks . . . . . 729

**NEW**



**A**  
36600-12



**B**  
36600-01 shown with probe kit 36600-68



-catalog

**B**  
36600-03



**A**  
36600-14

#### 1 Dry Block Heaters



Catalog number	Number of blocks accepted	Uniformity	Maximum temperature	Dimensions (W x H x D)	Power			Price
					VAC	Watts	Amps	
<b>A Analog dry block heaters</b>								
TW-36600-12	1	±0.1° within the block at 98°F (37°C)	Low range: ambient to 212°F (ambient +5°C to 100°C) High range: 167 to 302°F (75 to 150°C)	12½" x 8" x 3½"	120	110	0.9	
TW-36600-13				(31.5 x 20.3 x 8.9 cm)	230	110	0.5	
TW-36600-14	2	±0.1° within the block at 98°F (37°C), ±0.1° across similar blocks at 98°F (37°C)		15½" x 8" x 3½"	120	210	1.7	
TW-36600-15				(39.1 x 20.3 x 8.9 cm)	230	210	0.9	
TW-36600-16	3	±0.1° within the block at 98°F (37°C), ±0.15° across similar blocks at 98°F (37°C)		18½" x 8" x 3½"	120	210	1.7	
TW-36600-17				(46.7 x 20.3 x 8.9 cm)	230	210	0.9	
TW-36600-18	4	±0.1° within the block at 98°F (37°C), ±0.2° across similar blocks at 98°F (37°C)		17" x 8" x 3½"	120	310	2.6	
TW-36600-19				(42.9 x 20.3 x 8.9 cm)	230	310	1.3	
TW-36600-20	6	±0.1° within the block at 98°F (37°C), ±0.3° across similar blocks at 98°F (37°C)		21" x 8" x 3½"	120	410	3.4	
TW-36600-21				(53.1 x 20.3 x 8.9 cm)	230	410	1.7	
<b>B Digital dry block heaters</b>								
TW-36600-01	1	±0.1° within the block at 98°F (37°C)	Ambient to 248°F (ambient to 120°C)	12½" x 8" x 3½"	120	110	0.9	
TW-36600-02				(31.5 x 20.3 x 8.9 cm)	230	110	0.5	
TW-36600-03	2	±0.1° within the block at 98°F (37°C), ±0.1° across similar blocks at 98°F (37°C)		15½" x 8" x 3½"	120	210	1.7	
TW-36600-04				(39.1 x 20.3 x 8.9 cm)	230	210	0.9	
TW-36600-06	3	±0.1° within the block at 98°F (37°C), ±0.15° across similar blocks at 98°F (37°C)		18½" x 8" x 3½"	120	210	1.7	
TW-36600-07				(46.7 x 20.3 x 8.9 cm)	230	210	0.9	
TW-36600-08	4	±0.1° within the block at 98°F (37°C), ±0.2° across similar blocks at 98°F (37°C)		17" x 8" x 3½"	120	310	2.6	
TW-36600-09				(42.9 x 20.3 x 8.9 cm)	230	310	1.3	
TW-36600-10	6	±0.1° within the block at 98°F (37°C), ±0.3° across similar blocks at 98°F (37°C)		21" x 8" x 3½"	120	410	3.4	
TW-36600-11				(53.1 x 20.3 x 8.9 cm)	230	410	1.7	
<b>C Digital dry block heaters with heated lid</b>								
TW-36600-69	2	±0.1° within the block at 98°F (37°C), ±0.1° across similar blocks at 98°F (37°C)	Ambient to 248°F (ambient to 120°C)	15½" x 8" x 7"	120	400	3.0	
TW-36600-70					(39.1 x 20.3 x 17.8 cm)	230	400	

TW-36600-68 Optional external temperature probe kit

## StableTemp Modular Blocks for Dry Block Heaters

Ten styles of custom block modules provide maximum flexibility

Modular blocks are 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.

**Single block dimensions (L x W x H):**  
3¼" x 3" x 2" (9.5 x 7.6 x 5.1 cm).

**Double block dimensions (L x W x H):**  
6" x 3¾" x 2¼" (15.2 x 9.5 x 5.7 cm);  
double block size fits 2/4/6-block heaters.



### 2 Heating Blocks

#### A Microcentrifuge Tube Blocks (single block size)

Cat. no.	Accommodates	No. of wells	Well dia.	Well depth	Price
TW-36600-22	0.5 mL tube	30	7.9 mm	27.6 mm	
TW-36600-23	1.5 mL tube	20	11.1 mm	39.1 mm	
TW-36600-24	1.5 mL Eppendorf® tube	20	11.5 mm	36.9 mm	
TW-36600-25	2 mL Eppendorf tube	20	11.5 mm	38.1 mm	
TW-36600-26	2 mL Corning® tube	20	10.9 mm	38.1 mm	

#### B Standard Test Tube Blocks (single block size)

Cat. no.	Accommodates	No. of wells	Well dia.	Well depth	Price
TW-36600-30	6 mm tube	30	8.3 mm	48.4 mm	
TW-36600-31	10 mm tube	24	10.7 mm	48.4 mm	
TW-36600-32	12/13 mm tube	20	13.9 mm	48.4 mm	
TW-36600-33	15/16 mm tube	12	17.5 mm	48.4 mm	
TW-36600-34	17/18 mm tube	12	19.1 mm	48.4 mm	
TW-36600-35	20 mm tube	8	21 mm	48.4 mm	
TW-36600-36	25 mm tube	6	26.2 mm	48.4 mm	
TW-36600-37	35 mm tube	4	35 mm	47.6 mm	

#### C Conical-Bottom Centrifuge Tube Blocks (single block size)

Cat. no.	Accommodates	No. of wells	Well dia.	Well depth	Price
TW-36600-28	15 mL tube	12	17.1 mm	44.5 mm	
TW-36600-29	50 mL tube	5	29 mm	47.6 mm	

#### D Combination Blocks (single block size)

Cat. no.	Accommodates	No. of wells	Well dia.	Well depth	Price
TW-36600-40	Micro-tube combination	0.5 mL	6	7.9 mm	27.6 mm
		1.5 mL	10	11.1 mm	39.1 mm
		2 mL	5	11.5 mm	38.1 mm
TW-36600-39	Centrifuge tube combination	1.5 mL	4	11.1 mm	39.1 mm
		15 mL	3	17.1 mm	44.5 mm
		50 mL	2	29 mm	47.6 mm
TW-36600-38	Test tube combination	6 mm	6	8.3 mm	48.4 mm
		12/13 mm	5	13.9 mm	48.4 mm
		25 mm	3	26.2 mm	48.4 mm

#### E Titer Plate Block (double block size)

Cat. no.	Accommodates	Well depth	Price
TW-36600-27	One titer plate, 96 or 384 well	13.5 mm	

#### F Blocks for PCR Plate, Tubes, Strips

Catalog number	Accommodates	Block size	No. of wells	Well dia.	Well depth	Price
TW-36600-51	One 96-well PCR plate	Double	96	6.4 mm	15.5 mm	
TW-36600-52	Ten 8-tube strips	Single	80	6.4 mm	15.5 mm	
TW-36600-53	Individual tubes	Single	64	6.4 mm	20.2 mm	

#### G Vial Blocks (single block size)

Cat. no.	Accommodates	No. of wells	Well dia.	Well depth	Price
TW-36600-41	12 mm vial	20	12.7 mm	30 mm	
TW-36600-42	15 mm vial	20	15.8 mm	35 mm	
TW-36600-43	16 mm vial	15	16.4 mm	45 mm	
TW-36600-44	17 mm vial	12	17.8 mm	45 mm	
TW-36600-45	19 mm vial	12	19.7 mm	45 mm	
TW-36600-46	21 mm vial	9	21.7 mm	45 mm	
TW-36600-47	23 mm vial	8	23.8 mm	45 mm	
TW-36600-48	25 mm vial	8	25.8 mm	45 mm	
TW-36600-49	28 mm vial	6	28.8 mm	45 mm	

#### H Cuvette Block (single block size)

Cat. no.	Accommodates	No. of wells	Well depth	Price
TW-36600-54	Twelve 12.5 mm cuvettes	2	25.4 mm	

#### I Solid Blocks for use as a low-temperature hot plate or for custom drilling

Cat. no.	Block size	Dimensions (L x W x H)	Price
TW-36600-55	Single	3¼" x 3" x 2" (9.5 x 7.6 x 5.1 cm)	
TW-36600-56	Double	6" x 3¾" x 2¼" (15.2 x 9.5 x 5.7 cm)	

#### J Stainless Steel Sand Baths for irregular vessels; requires the use of sand, stainless steel shot, or liquid (single block size)

Cat. no.	For heater type	Dimensions (L x W x H)	Price
TW-36600-57	1 block	3¼" x 3" x 2½" (9.5 x 7.6 x 6.4 cm)	
TW-36600-58	2 block	3¼" x 5¼" x 2½" (9.5 x 14.9 x 6.4 cm)	
TW-36600-59	3 block	3¼" x 8¼" x 2½" (9.5 x 22.4 x 6.4 cm)	
TW-36600-61	4 block	5¼" x 7½" x 2½" (14.7 x 19.1 x 6.4 cm)	
TW-36600-62	6 block	5¼" x 11¼" x 2½" (14.7 x 28.7 x 6.4 cm)	

TW-36600-63 Sand, 1 lb (0.45 kg)

TW-36600-64 Stainless steel shot, 1 lb (0.45 kg)

#### K Low-Temperature Plexiglass Block Covers reduce airflow for added temperature stability

Cat. no.	Description	Dimensions (L x W x H)	Price
TW-36600-65	2 block cover	6½" x 6½" x 1½" (16.5 x 16.5 x 4.1 cm)	
TW-36600-66	4 block cover	8½" x 8½" x 1½" (21.6 x 21.6 x 4.1 cm)	
TW-36600-67	6 block cover	12½" x 8½" x 1½" (31.8 x 21.6 x 4.1 cm)	

### Dry Block Heaters

#### Precise temperature control for repeatable results

- Interchangeable modular heating blocks provide flexibility for heating different-sized tubes

Designed to ensure highly accurate and reproducible results, guaranteeing shorter heating times of samples. Dry heaters are ideal for determining melting and boiling points, enzyme reactions, incubation and activation of cultures, immunoassays, DNA denaturation, culture media tests, coagulation tests, blood-urea-nitrogen determinations and in situ hybridizations.

This digital dry block heaters offer precise temperature control and rapid heat-up, and provide excellent stability to maintain results. The heaters feature a bright LCD and easy to use interface. Other features include the display of the actual temperature, user-adjustable temperature set point, time display with set point, timer, counter, and external temperature probe.

Each heater accepts separate interchangeable modular heating blocks, which accommodate various sample enclosures such as microtubes, centrifuge tubes, vials, microplates, and PCR strips or tubes. Modular blocks are constructed from a solid 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 (order blocks separately below).

**Single block dimensions** (L x W x H): 3¾" x 3" x 2" (9.5 x 7.6 x 5.1 cm).

**Double block dimensions** (L x W x H): 6" x 3¾" x 2¼" (15.2 x 9.5 x 5.7 cm); double block size fits 2/3/4-block heaters.

**What's included:** 3-wire cord with plug and Pt 1000 RTD temperature probe.

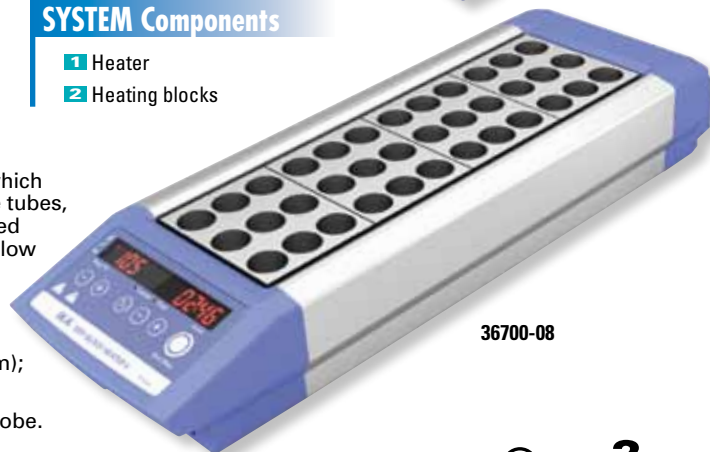
**NEW**



36700-01

#### REQUIRED SYSTEM Components

- Heater
- Heating blocks



36700-08



#### 1 Dry Block Heaters

Catalog number	Number of blocks accepted	Uniformity	Maximum temperature	Dimensions (W x H x D)	Power			Price
					VAC	Watts	Amps	
<a href="#">TW-36700-01</a>	1	±0.4°F (0.2°C) within the block at 60°>F (37°C)	Ambient to 248°F (120°C)	6" x 3" x 9"	115	150	0.9	
<a href="#">TW-36700-02</a>				(15.1 x 7.3 x 22.8 cm)	230	150	0.5	
<a href="#">TW-36700-03</a>	2			6" x 3" x 12"	115	250	1.7	
<a href="#">TW-36700-04</a>				(15.1 x 7.3 x 30.4 cm)	230	250	0.9	
<a href="#">TW-36700-06</a>	3			6" x 3" x 15"	116	300	1.7	
<a href="#">TW-36700-07</a>				(15.1 x 7.3 x 38 cm)	230	300	0.9	
<a href="#">TW-36700-08</a>	4			6" x 3" x 18"	115	375	2.6	
<a href="#">TW-36700-09</a>				(15.1 x 7.3 x 45.6 cm)	230	375	1.3	

#### 2 Heating Blocks

Catalog number	Accommodates	No. of wells	Well dia	Well depth	Price
<b>Microcentrifuge tube blocks</b> (single block size)					
<a href="#">TW-36700-11</a>	0.5 mL tube	30	7.9 mm	27.6 mm	
<a href="#">TW-36700-13</a>	1.5 mL tube	20	11.5 mm	39.1 mm	
<a href="#">TW-36700-12</a>	1.5 mL Eppendorf® tube	20	11.1 mm	36.9 mm	
<a href="#">TW-36700-14</a>	2 mL Eppendorf tube	20	11.5 mm	38.1 mm	
<a href="#">TW-36700-16</a>	2 mL Corning® tube	20	10.9 mm	38.1 mm	
<b>Titer plate block</b> (double block size)					
<a href="#">TW-36700-51</a>	One titer plate, 96 or 384 well	—	—	13.5 mm	
<b>Conical-bottom centrifuge tube blocks</b> (single block size)					
<a href="#">TW-36700-17</a>	15 mL tube	12	17.1 mm	44.5 mm	
<a href="#">TW-36700-18</a>	50 mL tube	5	29 mm	47.6 mm	
<b>Standard test tube blocks</b> (single block size)					
<a href="#">TW-36700-23</a>	6 mm tube	30	8.3 mm	48.4 mm	
<a href="#">TW-36700-24</a>	10 mm tube	24	10.7 mm	48.4 mm	
<a href="#">TW-36700-26</a>	12/13 mm tube	16	13.9 mm	48.4 mm	
<a href="#">TW-36700-27</a>	12/13 mm tube	20	13.9 mm	48.4 mm	
<a href="#">TW-36700-28</a>	15/16 mm tube	12	17.5 mm	48.4 mm	
<a href="#">TW-36700-33</a>	17/18 mm tube	12	19.1 mm	48.4 mm	
<a href="#">TW-36700-29</a>	20 mm tube	8	21 mm	48.4 mm	
<a href="#">TW-36700-31</a>	25 mm tube	6	26.2 mm	48.4 mm	
<a href="#">TW-36700-32</a>	35 mm tube	4	35 mm	47.6 mm	
<b>Combination blocks</b> (single block size)					
<a href="#">TW-36700-19</a>	Test tube combination	6 mm	6	8.3 mm	48.4 mm
		12/13 mm	5	13.9 mm	48.4 mm
<a href="#">TW-36700-21</a>	Centrifuge tube combination	25 mm	3	26.2 mm	48.4 mm
		1.5 mL	4	11.1 mm	39.1 mm
		15 mL	3	17.1 mm	44.5 mm
<a href="#">TW-36700-22</a>	Micro-tube combination	50 mL	2	29 mm	47.6 mm
		0.5 mL	6	7.9 mm	27.6 mm
		1.5 mL	10	11.1 mm	39.1 mm
		2 mL	5	11.5 mm	38.1 mm



36700-34



36700-48



36700-49

Catalog number	Accommodates	No. of wells	Well dia	Well depth	Price
<b>Vial blocks</b> (single block size)					
<a href="#">TW-36700-34</a>	12 mm vial	20	12.7 mm	30 mm	
<a href="#">TW-36700-36</a>	15 mm vial	20	15.8 mm	35 mm	
<a href="#">TW-36700-44</a>	16 mm vial	15	16.4 mm	45 mm	
<a href="#">TW-36700-37</a>	17 mm vial	12	17.8 mm	45 mm	
<a href="#">TW-36700-38</a>	19 mm vial	12	19.7 mm	45 mm	
<a href="#">TW-36700-39</a>	21 mm vial	9	21.7 mm	45 mm	
<a href="#">TW-36700-41</a>	23 mm vial	8	23.8 mm	45 mm	
<a href="#">TW-36700-42</a>	25 mm vial	8	25.8 mm	45 mm	
<a href="#">TW-36700-43</a>	28 mm vial	6	28.8 mm	45 mm	
<b>Blocks for PCR plate, tube, strips</b>					
<a href="#">TW-36700-48</a>	2 mL tubes, 96-well PCR plate	Block size, double	96	6.4 mm	15.5 mm
<a href="#">TW-36700-46</a>	2 mL tubes, 10 x 8 tube strips	Block size, single	80	6.4 mm	15.5 mm
<a href="#">TW-36700-47</a>	2 mL tubes, individual tubes	Block size, single	64	6.4 mm	20.2 mm
<b>Cuvette block</b> (single block size)					
<a href="#">TW-36700-49</a>	Twelve 12.5 mm cuvettes	2	—	25.4 mm	

## Modular Dry Block Heaters

### Precision temperature stability ensures reproducibility of results

- Custom block modules provide flexibility for heating different size tubes

Heat your samples uniformly with digital or analog dry block heaters. These heaters have dynamic temperature stability and are designed to accommodate a variety of heating block modules—create a system unique to your application. For a complete system order either a digital or analog heater and heating block modules (sold separately below). Block heaters include block extractors.

**1 Digital Dry Block Heaters** feature a proportional integrative derivative (PID) controller. PID control allows you to select a particular temperature with ease, enables rapid heat-up for samples, and provides excellent stability to maintain results. Temperatures can be set in 0.1°C increments.

**1 Analog Dry Block Heaters** are ideal for a wide variety of clinical and general chemistry applications—such as warming filled tubes. Heaters are constructed of steel and feature a chemical-resistant coating. The three-position switch enables you to select high, low, or off. The low-range temperature setting is between ambient and 140°F (60°C) and the high-range setting to 266°F (130°C).

**What's included:** 6-ft (1.8-m), three-wire power cord; 115 VAC models include a plug.

### REQUIRED SYSTEM Components

- 1 Heater
- 2 Heating blocks



Digital block heater base 36290-00 (vials sold separately)



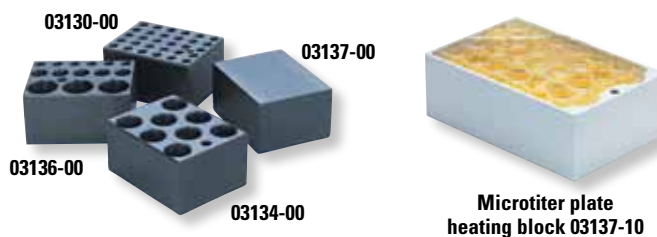
Analog block heater 36402-14 (vials sold separately)

Catalog number	Number of blocks	Uniformity	Maximum temperature	Dimensions (W x H x D)	Power		Price
					VAC	Watts	
<b>Digital dry block heaters</b>							
TW-36290-00	One	±0.5°F (±0.3°C)	266°F (130°C)	8 <sup>9</sup> / <sub>16</sub> " x 3 <sup>3</sup> / <sub>16</sub> " x 7 <sup>1</sup> / <sub>2</sub> "	120	100	
TW-36290-02				(21.7 x 8.1 x 19.1 cm)	220	100	
TW-36402-00	Two	±0.5°F (±0.3°C)		8 <sup>3</sup> / <sub>4</sub> " x 3 <sup>1</sup> / <sub>2</sub> " x 11 <sup>1</sup> / <sub>4</sub> "	120	150	
TW-36402-02				(22.2 x 8.9 x 28.6 cm)	220	150	
TW-36290-20	Three	±0.5°F (±0.3°C)		8 <sup>9</sup> / <sub>16</sub> " x 3 <sup>3</sup> / <sub>16</sub> " x 13 <sup>1</sup> / <sub>2</sub> "	200	200	
TW-36290-22				(21.7 x 8.1 x 34.3 cm)	220	200	
TW-36402-04	Four	±0.5°F (±0.3°C)	10 <sup>3</sup> / <sub>4</sub> " x 3 <sup>1</sup> / <sub>2</sub> " x 14 <sup>1</sup> / <sub>4</sub> "	120	300		
TW-36402-06			(27.3 x 8.9 x 36.2 cm)	220	300		
<b>Analog dry block heaters</b>							
TW-36402-08	One	±0.5°F (±0.3°C)	266°F (130°C)	6 <sup>1</sup> / <sub>4</sub> " x 3 <sup>1</sup> / <sub>2</sub> " x 7 <sup>1</sup> / <sub>2</sub> "	120	100	
TW-36402-09				(15.9 x 8.9 x 19.1 cm)	220	100	
TW-36402-10	Two	±0.5°F (±0.3°C)		8 <sup>1</sup> / <sub>2</sub> " x 3 <sup>1</sup> / <sub>2</sub> " x 8 <sup>1</sup> / <sub>2</sub> "	120	150	
TW-36402-11				(21.6 x 8.9 x 21.6 cm)	220	150	
TW-36402-12	Three	±0.5°F (±0.3°C)		11 <sup>1</sup> / <sub>4</sub> " x 3 <sup>1</sup> / <sub>2</sub> " x 9"	120	200	
TW-36402-13				(28.6 x 8.9 x 22.9 cm)	220	200	
TW-36402-14	Four	±0.5°F (±0.3°C)	8 <sup>3</sup> / <sub>4</sub> " x 3 <sup>1</sup> / <sub>2</sub> " x 12 <sup>1</sup> / <sub>2</sub> "	120	300		
TW-36402-15			(21.0 x 8.9 x 31.8 cm)	220	300		
TW-36402-16	Six	±0.5°F (±0.3°C)	11 <sup>1</sup> / <sub>4</sub> " x 3 <sup>1</sup> / <sub>2</sub> " x 13"	120	400		
TW-36402-17			(28.6 x 8.9 x 33.0 cm)	220	400		

### 2 Heating Blocks (required for use with block heaters)

Use these heating blocks with all block heater bases above. Blocks measure 2<sup>15</sup>/<sub>16</sub>"W x 2"H x 3<sup>3</sup>/<sub>4</sub>"D (7.5 x 5.1 x 9.5 cm). Solid anodized aluminum construction ensures maximum heat transfer between the heater base and tube contents. All blocks have 1<sup>7</sup>/<sub>8</sub>" (4.7 cm) deep wells (except model 03130-08 with 1.1" (2.8 cm) deep wells and model 03137-00 with no wells). Blocks can accommodate a 1/4" (0.6 cm) dia thermometer.

Catalog number	Tube size accepted	Number of openings	Opening diameter	Price
TW-03130-00	6 mm	30	5 <sup>5</sup> / <sub>16</sub> " (7.9 mm)	
TW-03130-08	8 mm	30	2 <sup>1</sup> / <sub>64</sub> " (8.3 mm)	
TW-03130-10	10 mm	20	29 <sup>9</sup> / <sub>64</sub> " (11.5 mm)	
TW-03131-00	10 mm	24	13 <sup>3</sup> / <sub>32</sub> " (10.3 mm)	
TW-03132-00	12 or 13 mm	22	17 <sup>7</sup> / <sub>32</sub> " (13.5 mm)	
TW-03133-00	15 or 16 mm	12	11 <sup>1</sup> / <sub>16</sub> " (17.5 mm)	
TW-03133-18	17 or 18 mm	12	3 <sup>3</sup> / <sub>4</sub> " (19.0 mm)	
TW-03134-00	20 mm	8	13 <sup>1</sup> / <sub>16</sub> " (20.6 mm)	
TW-03135-00	25 mm	6	1" (25.4 mm)	
TW-03136-00	25 mm,	3	1" (25.4 mm)	
(combination block)	12 or 13 mm,	5	17 <sup>3</sup> / <sub>32</sub> " (13.5 mm)	
	and 6 mm	6	5 <sup>5</sup> / <sub>16</sub> " (7.9 mm)	
TW-03137-00	Solid (no holes); use as hot plate			



### 2 Microtiter Plate Heating Blocks

Use with the block heaters described on this page for tissue culture and clinical applications. Blocks accommodate any 6- to 96-well plate (round or flat bottom).

Aluminum construction provides excellent heat transfer; model 03137-08 provides direct contact between the block heater and the bottom of microtiter plates for greater temperature uniformity. Color changes can easily be viewed against the white anodized surfaces. Finger indentations allow easy removal. Overall dimensions are 3<sup>3</sup>/<sub>4</sub>"W x 1<sup>3</sup>/<sub>4</sub>"H x 5<sup>7</sup>/<sub>8</sub>"D (9.5 x 4.4 x 14.9 cm).

**Note:** The microtiter plate heating blocks take up the same amount of space as two heating blocks sold at left.

- TW-03137-08 Direct-contact microtiter plate heating block
- TW-03137-10 Microtiter plate heating block

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