

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 73–75).

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°C .

Overshoot Protection: If the unit exceeds the set temperature by 10°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°C (64 to 91°F), 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 73-75).

| Size | Temperature Range | Temperature Stability @ 37°C | Uniformity Within the Block @ 37°C | Uniformity Across Similar Blocks @ 37°C | Heat-Up Time to 100°C |
|---------|---|--|--|---|-------------------------------------|
| 1 block | Ambient $+5^\circ\text{C}$ to 120°C | 120 volt units: $\pm 0.1^\circ\text{C}$ | 120 volt units: $\pm 0.1^\circ\text{C}$ | 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

- 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 73-75).



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 (64 to 91°F), 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 73-75).

| 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 | 120 volt units: ± 0.1°C | 120 volt units: ± 1.0°C | N/A | 45 minutes |
| 2 block | | | 120 volt units: ± 1.5°C | ± 0.1°C | 50 minutes |
| 4 block | | | 120 volt units: ± 2.0°C | ± 0.2°C | 70 minutes |
| 6 block | | | ± 0.3°C | 75 minutes | |

Accessories

Modular Blocks & Accessories

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.

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

Single block dimensions (L × W × H): 3.75 × 3 × 2" (9.5 × 7.6 × 5.1 cm)

Double block dimensions (L × W × H): 6 × 3.75 × 2.25" (15.2 × 9.5 × 5.7 cm)

Microcentrifuge Tube Blocks

Single block

| Brand/Sample Type | No. of Wells | Well Dia. | Well Depth | Item Number |
|------------------------|--------------|-----------|------------|-------------|
| 0.5 mL Tube | 30 | 7.9 mm | 27.6 mm | 30400157 |
| 1.5 mL Tube | 20 | 11.1 mm | 39.1 mm | 30400159 |
| 1.5 mL Eppendorf™ Tube | 20 | 11.5 mm | 36.9 mm | 30400162 |
| 2 mL Eppendorf™ Tube | 20 | 11.5 mm | 38.1 mm | 30400191 |
| 2 mL Corning™ Tube | 20 | 10.9 mm | 38.1 mm | 30400192 |

Titer Plate Block

Double block

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

| Sample Type | Well Depth | Item Number |
|-------------|------------|-------------|
| Titer Plate | 13.5 mm | 30400164 |

Conical-Bottom Centrifuge Tube Blocks

| Single/Sample Type | No. of Wells | Well Dia. | Well Depth | Item Number |
|--------------------|--------------|-----------|------------|-------------|
| 15 mL Tube | 12 | 17.1 mm | 44.5 mm | 30400172 |
| 50 mL Tube | 5 | 29.0 mm | 47.6 mm | 30400168 |

Standard Test Tube Blocks

| Single/Sample Type | No. of Wells | Well Dia. | Well Depth | Item Number |
|--------------------|--------------|-----------|------------|-------------|
| 6 mm Tube | 30 | 8.3 mm | 48.4 mm | 30400158 |
| 10 mm Tube | 24 | 10.7 mm | 48.4 mm | 30400151 |
| 12/13 mm Tube | 20 | 13.9 mm | 48.4 mm | 30400152 |
| 12/13 mm Tube | 16 | 13.9 mm | 48.4 mm | 30400165 |
| 15/16 mm Tube | 12 | 17.5 mm | 48.4 mm | 30400153 |
| 17/18 mm Tube | 12 | 19.1 mm | 48.4 mm | 30400195 |
| 20 mm Tube | 8 | 21.0 mm | 48.4 mm | 30400154 |
| 25 mm Tube | 6 | 26.2 mm | 48.4 mm | 30400155 |
| 35 mm Tube | 4 | 35.0 mm | 47.6 mm | 30400167 |



* Block color subject to change

Accessories

Modular Blocks* & Accessories

Combination Blocks

Single block

These blocks have been designed for variable sized samples.

| Sample Type | | No. of Wells | Well Dia. | Well Depth | Item Number |
|-----------------------------|----------|--------------|-----------|------------|-------------|
| Test Tube Combination | 6 mm | 6 | 8.3 mm | 48.4 mm | 30400156 |
| | 12/13 mm | 5 | 13.8 mm | 48.4 mm | |
| | 25 mm | 3 | 26.2 mm | 48.4 mm | |
| Centrifuge Tube Combination | 1.5 mL | 4 | 11.1 mm | 39.1 mm | 30400193 |
| | 15 mL | 3 | 17.1 mm | 44.5 mm | |
| | 50 mL | 2 | 29.0 mm | 47.6 mm | |
| Micro-Tube Combination | 0.5 mL | 6 | 7.9 mm | 27.6 mm | 30400194 |
| | 1.5 mL | 10 | 11.1 mm | 39.1 mm | |
| | 2 mL | 5 | 11.5 mm | 38.1 mm | |

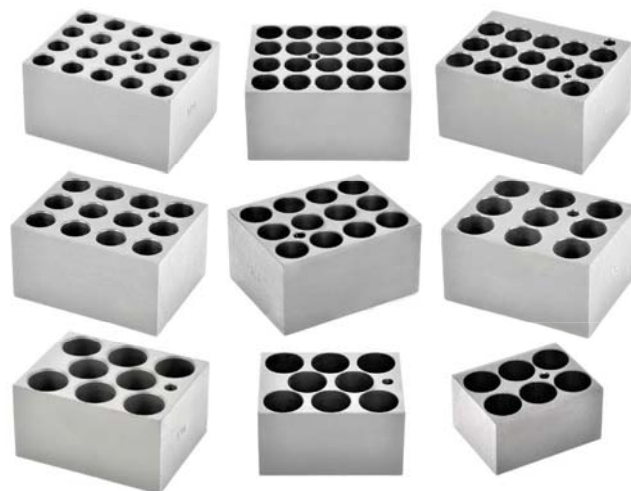


Vial Blocks

Single block

Designed for sample/serum and scintillation vials.

| Sample Type | No. of Wells | Well Dia. | Well Depth | Item Number |
|-------------|--------------|-----------|------------|-------------|
| 12 mm Vial | 20 | 12.7 mm | 30 mm | 30400182 |
| 15 mm Vial | 20 | 15.8 mm | 35 mm | 30400183 |
| 16 mm Vial | 15 | 16.4 mm | 45 mm | 30400190 |
| 17 mm Vial | 12 | 17.8 mm | 45 mm | 30400184 |
| 19 mm Vial | 12 | 19.7 mm | 45 mm | 30400185 |
| 21 mm Vial | 9 | 21.7 mm | 45 mm | 30400186 |
| 23 mm Vial | 8 | 23.8 mm | 45 mm | 30400187 |
| 25 mm Vial | 8 | 25.8 mm | 45 mm | 30400188 |
| 28 mm Vial | 6 | 28.8 mm | 45 mm | 30400189 |



PCR—Plate, Tube, Strip Blocks

Single and double block

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

| Sample Type | Block Size | No. of Wells | Well Dia. | Well Depth | Item Number |
|--------------------|------------|--------------|-----------|------------|-------------|
| 96-well PCR Plate | Double | 96 | 6.4 mm | 15.5 mm | 30400171 |
| 10 × 8 Tube Strips | Single | 80 | 6.4 mm | 15.5 mm | 30400169 |
| Individual Tubes | Single | 64 | 6.4 mm | 20.2 mm | 30400170 |



Cuvette Block

Single block

Two parallel slots fit 6 cuvettes in each slot, side-by-side.

| Sample Type | No. of Wells | Well Depth | Item Number |
|-----------------------|--------------|------------|-------------|
| (12) 12.5 mm Cuvettes | 2 | 25.4 mm | 30400161 |



* Block color subject to change

Accessories

Modular Blocks* & Accessories

Solid Blocks

Single and double block

For use as a low-temperature hotplate, slide drying, or for custom drilling to make a custom block.

| Block Size | Dimensions (L × W × H) | Item Number |
|------------|--|-------------|
| Single | 3.75 × 3 × 2" (9.5 × 7.6 × 5.1 cm) | 30400160 |
| Double | 6 × 3.75 × 2.25" (15.2 × 9.5 × 5.7 cm) | 30400166 |



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 fluids.

| For Unit | Dimensions (L × W × H) | Item Number |
|--------------------------|--|-------------|
| 1 Block Dry Block Heater | 3.8 × 3.0 × 2.5" (9.5 × 7.6 × 6.4 cm) | 30400173 |
| 2 Block Dry Block Heater | 3.8 × 5.9 × 2.5" (9.5 × 14.9 × 6.4 cm) | 30400174 |
| 4 Block Dry Block Heater | 5.8 × 7.5 × 2.5" (14.7 × 19.1 × 6.4 cm) | 30400175 |
| 6 Block Dry Block Heater | 5.8 × 11.3 × 2.5" (14.7 × 28.7 × 6.4 cm) | 30400176 |

| Accessories | Item Number |
|--------------------------------------|-------------|
| Sand, 1 lb (0.45 kg) | 30400177 |
| Stainless Steel Shot, 1 lb (0.45 kg) | 30400178 |



Low Temperature Covers

Plexiglass cover reduces air flow for additional temperature stability in low-temperature applications. Two sides are open 0.25" (6.4 mm).

| Block Size | Dimensions (L × W × H) | Item Number |
|---------------|--|-------------|
| 2 Block Cover | 6.5 × 6.5 × 1.6" (16.5 × 16.5 × 4.1 cm) | 30400179 |
| 4 Block Cover | 8.5 × 8.5 × 1.6" (21.6 × 21.6 × 4.1 cm) | 30400180 |
| 6 Block Cover | 12.5 × 8.5 × 1.6" (31.8 × 21.6 × 4.1 cm) | 30400181 |



* Block color subject to change