

e-ThermoBucket WTB

The industry's smallest electrical cooled water bath for heating and cooling. Even water at 4°C can be used. Also used as a block water bath and a miracle beads bath.

•"Deep block" --> P.117 •Shaking unit for WTB "WTB-ShakerUnit" --> P.123



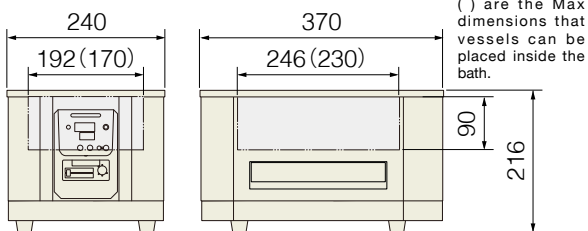
Features

- Used also as a constant temp. water bath and a block water bath
- Energy saving with Peltier and CFC Free
- Antifreeze is unnecessary even at 4°C
- Also used as a shaking water bath combined with the WTB-ShakerUnit

Applications

- Incubation and preservation of samples and reagents, Enzyme reaction
- Low temperature DNA ligation
- Temp. control for Serum inactivation and pH adjustment object

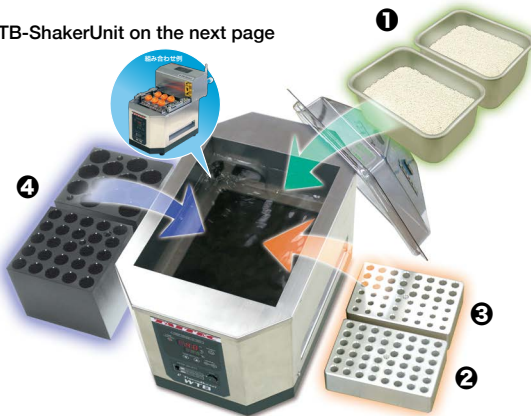
Dimensions (Common in all models)



Model	WTB
Temperature range	+ 4°C to + 70°C (*1, 2, 3)
Temp. control accuracy	±0.1 to 0.2°C
Capacity	70% water level for Water 3 L (Max. 2 L when WTB-ShakerUnit combined)
Temp. Display	Digital
Cooling/Heating method	Cooling/Heating with Peltier element
Other function	Stirrer bar (used with a constant temp. water bath)
Safe devices/protections	Fuse, Overheat/Overcurrent/Overvoltage protection, Sample protection (High/Low temp.), Non-volatile memory error, Sensor error, Automatic tuning error, Alarm setting error
Dimensions (WxDxH)/Weight	240 x 370 x 216 mm (Lid is not included), Approx. 9 kg
Power supply	AC100V / 4A (Need a step-down transformer)
Applicable bath/blocks	Miracle beads bath, Hetero block, Dual side block, Deep block *2 pcs can be put in each.

(*1)The specifications may not be met the ambient temp. above 30°C or below 5°C. (*2)Miracle beads cannot be stably used over 50°C. The specifications may not be met below 20°C. (*3)Since the lid of the WTB-ShakerUnit unit cannot be used when this unit is combined with the WTB-ShakerUnit, Max. temp. will be 60°C and Min. temp. will be 20°C below Room temperature.

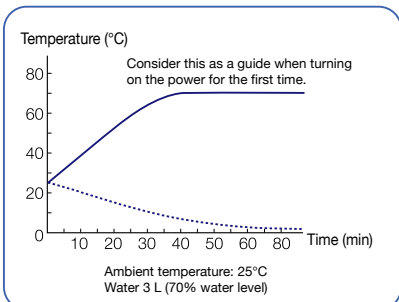
WTB-ShakerUnit on the next page



USER'S VOICE

This is useful because various blocks can be put inside, and it can be used as a water bath.

Examples of Temperature transition time



Optional parts: Miracle beads bath

Model	Capacity	Accessory beads	Bucket inner dimensions
①Miracle beads bath BMB-17 <small>*Standard accessories in EIB/ECB</small>	Any that can be placed inside the bath.	Diameter approx. 2 mm 1.7 kg	Opening 101 x 158 mm Bottom 94 x 143 mm Depth 74 mm

Optional parts: Aluminum block

Model	Vessels/Capacity	Dimensions/Remarks
②Dual side block BAL-8188	0.5 mL Microtube x 48 pcs or 1.5 mL Microtube x 40 pcs	98 x 150 x 39H mm
③Hetero block BAL-8148 <small>*Standard accessories in EHB/ETB</small>	0.5 mL Microtube x 24 pcs or 1.5 mL Microtube x 24 pcs	98 x 150 x 39H mm
④Deep block	Available for various vessels. See page 117 for details	

NEW

Constant temperature incubator/shaker
OD Monitor

For cell culture related products

Shaker

Mixer
Rotator
Stirrer

Bead beater
homogenizer
Ultrasonic
homogenizer

Aluminum
block Bath
Mini-size Bath

Water bath
Shaking Water bath
Immersion cooler

Hybridization
Incubator
Constant temperature
Chambers

Centrifugal
Concentrators
Cold Trap

Freeze dryers

Substrate
Electrophoresis apparatus
Blotting device for
hybridization

Constant-temperature
water circulating
system [chiller]

Appendix

WTB-ShakerUnit

Attach this unit to the e-Bucket series WTB to realize a Mini-size shaking water bath that can control from low temp. to high temp. with "Water". Can easily drain with an equipped pump. With the Mini-size water bath WTB, it can chill" equipped pump.

•Mini-size Bath "e-ThermoBucketWTB" --> P.122

Features

- Combined with the Mini-size water bath WTB, it can chill
- Reciprocal shaking with 25 mm width, similar to "Bio Shaker"
- For experiments at temperatures below room temperature, even in small volumes

Applications

- Low-temp. culture of Protein expression E. coli
- Conditioned culture after Transformation of E. coli
- Enzyme reaction and Incubation of dissolved culture medium

CFC Free, From low temp to high temp. with "Water" realized



e-ThermoBucketWTB

Combination

+

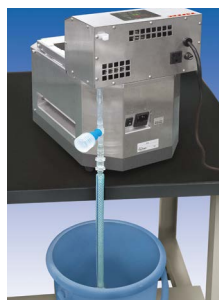
"Shaking" and
"Easily drain"



WTB-ShakerUnit

Energy saving and CFC free by electronic cooling with Peltier element. The conventional one requires antifreeze to prevent freezing of the heat exchange part when used at 7°C, whereas the WTB controls from 4°C (*20°C below Room temp.) with "Water".

Equipped with a Drainage pump



It is not equipped with a drain due to its construction. Use the Drainage pump of the WTB-ShakerUnit to drastically avoid the effort of troublesome drainage.

USER'S VOICE

Press it several times to start the drainage.
This is the principle of siphon!
It enables you to drain easier.



Exterior is Clean Stainless Steel

The exterior of the WTB and WTB-ShakerUnit are made of stainless steel. The inside bath of the WTB is Teflon treated that makes it easy to maintain cleanliness.

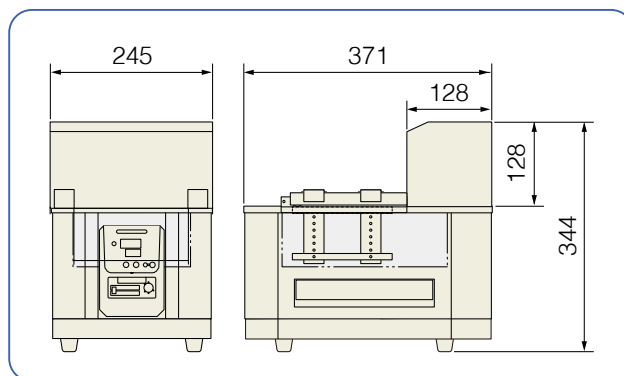


Combined with the e-ThermoBucket WTB

Model	WTB-ShakerUnit
Applicable to	WTB
Shaking motion/speed	Reciprocal shaking, 20 to 200 r/min
Shaking width	25 mm
Capacity	50 mL Disposable centrifuge tubes × 8 pcs (approx. 30° tilted) 250 mL Erlenmeyer flask/Medium bottle × 1 pc
Platform size (W×D×H)	170 × 150 × 80 mm
Maximum Load	Approx. 1 kg (Platform 0.5 kg is included)
Speed display	Digital
Other function	Speed memory × 1pc, Drainage pump, Service outlet (Max. 10 A)×1 pc
Safe devices/ protections	Fuse, Overcurrent/Overvoltage protection, Motor Overload protection, Speed limit error
Dimensions (W×D×H)	Main unit: 245 × 128 × 128 mm (Protrusions are not included) Combined: 245 × 371 × 344 mm
Weight	Approx. 4.2 kg (Combined: Approx. 13.2 kg)
Power supply	AC100V / 1A / Max.5A (Need a step-down transformer)
Standard accessories	Spring net shaking platform × 1 pc

(*)Increases according to the amount of service outlet use. Applied for only when using WTB as a water bath. The limitation of specs in WTB will occur when combined with this unit so be sure to refer and confirm the below specs and notes in WTB.

Dimensions (Combined with WTB)



NEW

Constant-temperature incubator/shaker OD Monitor

For cell culture related products

Shaker

Mixer Rotator Stirrer

Bead beater homogenizer Ultrasonic homogenizer

Aluminum block Bath Mini-size Bath

Water bath Shaking Water bath Immersion cooler

Hybridization Incubator Constant-temperature Chambers

Centrifugal Concentrators Cold Trap

Freeze dryers

Substrate Electrophoresis apparatus Blotting device for hybridization

Constant-temperature water circulating system [Chilled]

Appendix