

ELECTRIC HEATING WATER BATH



Electric Heating Water Bath - ToronWB™ EH Series

Multi-Position Electric Heating Water Bath for Reliable, Uniform Temperature Control

ToronWB™ EH Series is a versatile electric heating water bath instrument designed for laboratories that require stable, uniform thermal conditioning across single or multiple sample positions simultaneously. Built around a high-precision temperature sensor and integrated circuit control system, this water bath equipment delivers consistent heating performance from just above ambient temperature up to 100 °C — making it equally suited to biological incubation, chemical digestion, clinical sample preparation, and general laboratory heating tasks.

Available in eight configurations spanning 1 to 8 opening positions (single-row and dual-row layouts), the ToronWB™ EH series scales from compact benchtop use to high-throughput multi-flask heating workflows. Each model features a powder-coated steel housing for durability alongside a corrosion-resistant stainless steel inner chamber that is easy to clean and long-lasting in wet laboratory environments. A built-in self-diagnostic function continuously monitors key electronic components, adding a layer of operational reliability rarely found in entry-level water bath equipment.

APPLICATIONS

Electric Heating Water Bath - ToronWB™ EH Series Applications

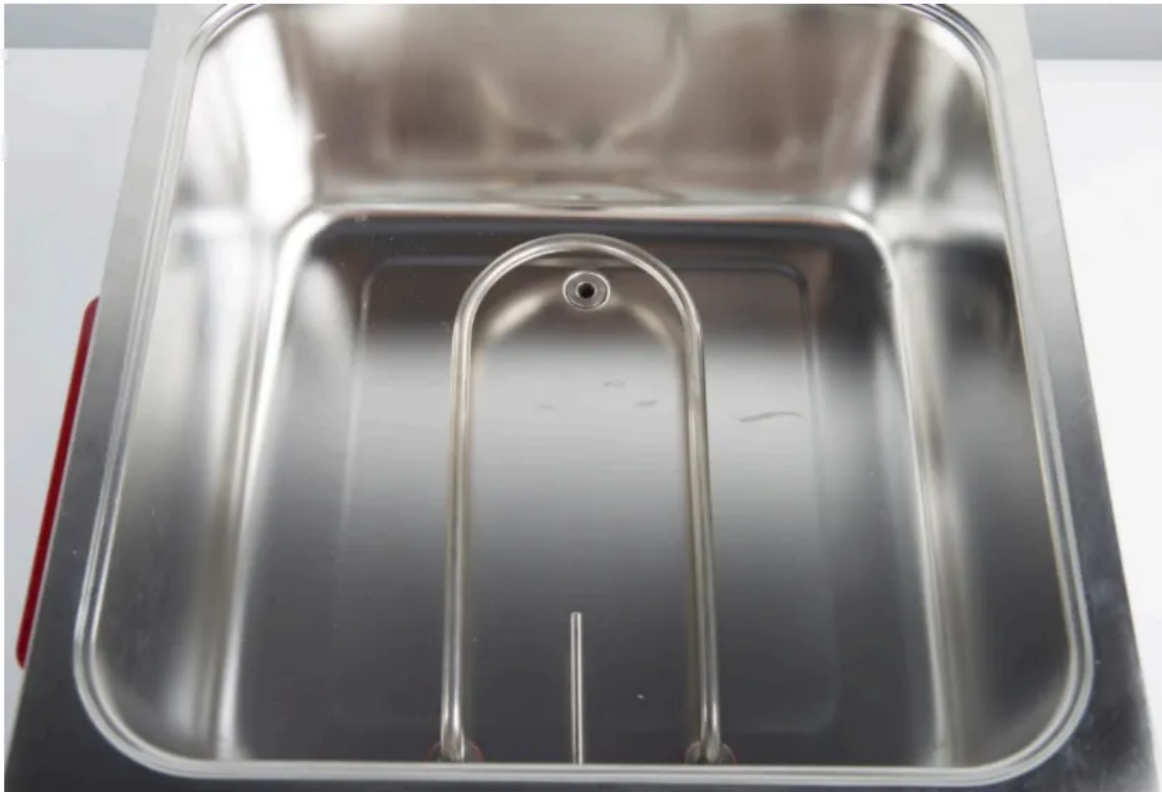
- Biological and microbiological sample incubation at controlled temperatures
- Serology, immunology, and enzyme-linked assay (ELISA) plate warming
- Chemical reaction heating, digestion, and extraction in analytical chemistry
- Pharmaceutical dissolution testing and formulation warming
- Clinical laboratory specimen preparation and plasma thawing
- Food science and nutritional analysis sample conditioning

- Coliform detection and microbiological culture incubation
- General laboratory flask, tube, and vessel heating across multiple samples



FEATURES

Electric Heating Water Bath - ToronWB™ EH Series Key Features



- Powder-coated quality steel housing for durability and corrosion resistance in wet laboratory environments; corrosion-resistant stainless steel inner chamber for long service life and easy cleaning
- High-precision temperature sensor paired with an integrated circuit control system for accurate, stable, and reproducible temperature regulation throughout the full RT+5 to 100 °C operating range
- Built-in self-diagnostic function that continuously monitors key electronic components during operation, providing early fault detection and reducing the risk of unexpected equipment failure

- Eight model configurations available — single-row (1, 2, 4, 6, 8 positions) and dual-row (4, 6, 8 positions) — to accommodate workflows from single-sample heating to high-volume parallel processing
- 120 mm opening diameter across all models provides compatibility with standard laboratory flasks, beakers, and culture vessels
- Simple front-panel digital control interface with 1 °C temperature resolution for straightforward setup and operation

THEORY & METHOD

Theory and Method of Operation

ToronWB™ EH operates on the principle of indirect liquid-medium heating. The stainless steel inner chamber is filled with distilled or deionized water, which serves as the heat transfer medium. An immersion-type electric heating element warms the water uniformly, and the high-precision thermistor or RTD sensor continuously monitors bath temperature, feeding real-time data back to the integrated circuit control system.

The control system uses proportional or on/off regulation logic to modulate heater output, maintaining the set point temperature within ± 1 °C across the full operating range of RT+5 °C to 100 °C. Temperature is set via the front-panel control interface and displayed digitally with 1 °C resolution. The corrosion-resistant stainless steel chamber walls and lid rings minimize heat loss to the environment and promote even temperature distribution across all opening positions — ensuring that each flask, tube, or vessel in the water bath receives consistent thermal conditioning regardless of its position.

The built-in self-diagnostic routine monitors the operational state of critical electronic components at startup and during operation, alerting the user to potential faults before they can compromise experimental results. This makes the ToronWB™ EH water bath equipment a dependable choice for time-sensitive laboratory protocols where unplanned downtime is costly.

TECHNICAL SPECIFICATIONS

Electric Heating Water Bath - ToronWB™ EH Series Technical Specifications

Single-Row Models (ToronWB™ EH Series)

Parameter	ToronWB™ EH11	ToronWB™ EH12	ToronWB™ EH14	ToronWB™ EH16	ToronWB™ EH18
Opening Positions	1	2	4	6	8
Temp. Range	RT+5 - 100 °C	RT+5 - 100 °C	RT+5 - 100 °C	RT+5 - 100 °C	RT+5 - 100 °C
Temp. Resolution	1 °C	1 °C	1 °C	1 °C	1 °C
Temp. Fluctuation	±1 °C	±1 °C	±1 °C	±1 °C	±1 °C
Power	300 W	600 W	1,000 W	1,500 W	1,800 W
Voltage	220 V, 50 Hz (110V is also available)				
Internal Dims. (W×D×H)	160×160×130 mm	305×160×130 mm	600×170×120 mm	900×170×120 mm	1200×170×120 mm
Housing Dims. (W×D×H)	200×200×210 mm	345×200×210 mm	635×205×225 mm	935×205×225 mm	1230×205×225 mm
Opening Diameter	120 mm	120 mm	120 mm	120 mm	120 mm
Net / Gross Weight	2.9 / 3.4 kg	4.5 / 5.1 kg	7.9 / 9 kg	11.2 / 12.6 kg	14.3 / 22.4 kg
Package Size	370×260×220 mm	470×260×220 mm	790×260×220 mm	1100×260×220 mm	1430×260×220 mm

Dual-Row Models (ToronWB™ EH2 Series)

Parameter	ToronWB™ EH24	ToronWB™ EH26	ToronWB™ EH28
Opening Positions	4 (2×2)	6 (2×3)	8 (2×4)

Parameter	ToronWB™ EH24	ToronWB™ EH26	ToronWB™ EH28
Temp. Range	RT+5 - 100 °C	RT+5 - 100 °C	RT+5 - 100 °C
Temp. Resolution	1 °C	1 °C	1 °C
Temp. Fluctuation	±1 °C	±1 °C	±1 °C
Power	800 W	1,200 W	1,500 W
Voltage	220 V, 50 Hz (110V is also available)		
Internal Dims. (W×D×H)	305×305×130 mm	470×305×130 mm	600×290×120 mm
Housing Dims. (W×D×H)	345×345×210 mm	510×345×210 mm	635×320×225 mm
Opening Diameter	120 mm	120 mm	120 mm
Net / Gross Weight	6.2 / 7.3 kg	7.8 / 9 kg	10.6 / 12 kg
Package Size	480×390×230 mm	650×390×230 mm	780×390×230 mm

Toron Scientific | Water Bath Instrument Product Series | Specifications subject to change without notice



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