



Water Baths

Heated, Digital

Water Baths Heated, Digital

Our Digital Water Baths deliver a consistent temperature environment with heated water.

This range is ideal for biotechnology, chemistry, medical, environmental, and general laboratory applications.

Performance

These water baths maintain precise temperature control from ambient +5°C to 99°C, with an accuracy of $\pm 0.2^{\circ}\text{C}$ and thermal uniformity within $\pm 0.8^{\circ}\text{C}$. A corrosion-resistant stainless steel 304 sheath immersion heater heats the water directly, enabling rapid temperature adjustments. To maintain even thermal distribution, the perforated heater cover facilitates uniform water circulation throughout the bath.

Construction

Engineered for durability, the water baths feature an epoxy powder-coated metallic casing and a seamless, electro-polished stainless steel 304 bath. Each unit includes a corrosion-resistant stainless steel 304 flat lid and a perforated bottom plate. The 22L model is equipped with a built-in drain for easy fluid removal.

Controller Features

Equipped with an advanced digital microprocessor PID temperature controller, these water baths offer precise control with a resolution of 0.1°C . They feature a backlit graphic LCD display providing a clear, user-friendly operation, while a UV-coated polycarbonate touch panel ensures durability. Additional features include a turn-on timer, turn-off delay timer, memory for frequently used settings, 3-zone PID control, and advanced calibration options.

Convenience

Designed for ease of use, the seamless stainless steel 304 baths are simple to clean and include perforated bottom plates for efficient operation. The flat lids minimise heat loss and evaporation, ensuring consistent performance. Memory functions for temperature and timer settings enhance usability, while power and timer restoration features safeguard your workflow during outages.

Safety

The baths feature several safety features such as maximum temperature limit settings, dual over-temperature cutoffs by the controller and an independent thermostat, and high/low temperature cutoffs with audio-visual alarms. Additional protections include a PT sensor short or disconnection alarm and an over-current cutoff fuse.



11L Water Bath + Lid



22L Water Bath + Lid

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Product Features

- **Precise Temperature Control:** Maintains accuracy within $\pm 0.2^{\circ}\text{C}$ and ensures thermal uniformity within $\pm 0.8^{\circ}\text{C}$ for reliable results.
- **Wide Temperature Range:** Operates from ambient $+5^{\circ}\text{C}$ to 99°C , suitable for various laboratory applications.
- **Rapid Heating:** Corrosion-resistant stainless steel 304 sheath immersion heater quickly reaches the desired temperature.
- **Durable Construction:** Epoxy powder-coated metallic casing, seamless electro-polished stainless steel 304 bath, and a stainless-steel flat lid to minimise heat loss and evaporation.
- **Efficient Water Circulation:** Perforated heater cover promotes uniform water distribution for consistent heating.
- **Advanced Controller:** Digital microprocessor PID control with 0.1°C resolution, backlit graphic LCD display, UV-coated polycarbonate touch panel, and encoder-type jog dial for simple operation.
- **Convenience Features:** Timer functions with up to 99 hours and 59 minutes, memory for frequently used settings, and a drain valve in the 22L model for quick fluid removal.
- **Safety Features:** Dual over-temperature cutoffs, high/low temperature alarms, maximum temperature limit settings, PT sensor short or disconnection alarm, and over-current cutoff fuse for secure operation.

Product Specifications

SKU	663-310	663-312
Type	Unstirred Water Bath	Unstirred Water Bath
Volume	11 Litres	22 Litres
Material (Body)	Epoxy Powder Coated Steel	Epoxy Powder Coated Steel
Material (Bath)	Seamless Stainless Steel 304 (AISI304)	Seamless Stainless Steel 304 (AISI304)
Material (Heating Element)	Stainless Steel 304 (AISI304)	Stainless Steel 304 (AISI304)
Inner Dimensions	300 W x 240 D x 150mm H	500 W x 300 D x 150mm H
Usable Dimensions	300 W x 240 D x 110mm H	500 W x 300 D x 110mm H

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Control Panel

Processor	Digital Microprocessor PID Temperature Controller	
Display	Back Light Graphic LCD Display	
Panel	UV Coated Polycarbonate Solid Touch Panel	
Button	Capacitive Touch LED Lighting Touch Button	
Interface	Push & Rotary Encoder Type Jog Dial	
Control Logic	3 Zone PID Control	
Calibration	<ul style="list-style-type: none"> • 1 Point Temperature OFFSET • 3 Point Temperature Calibration 	
Resolution	0.1°C	0.1°C
Turn-Off Timer	99 Hours 59 Minutes Max.	99 Hours 59 Minutes Max.
Turn-On Delay Timer	99 Hours 59 Minutes Max.	99 Hours 59 Minutes Max.
Sensor	Class A PT-1000 Ω Sensor	Class A PT-1000 Ω Sensor
Power Restoration	Power and timer restoration function in case of power outage.	

Performance Information

Heating System	Immersed Heating Element	
Temperature Range	Ambient +5°C to +99°C	
Temperature Accuracy	± 0.2°C at 37.0°C	
Temperature Uniformity	± 0.8°C at 37.0°C	
Operating Temperature	5°C to 40°C	
Operating Relative Humidity	< 80%	
Environment	For indoor use only.	

Safety Information

Temperature Limit	Yes, there is maximum temperature limit and a cut-off audio visual alarm.	
Temperature Cut-Offs	<ul style="list-style-type: none"> • Dual over temperature cut-off by the controller and the thermostat • High temperature cut-off audio visual alarm. • Low temperature cut-off audio visual alarm. 	
PT Sensor	Yes, there is a PT sensor short or open audio-visual alarm.	
Over Current Cut-Off	Yes, there is an over current cut-off.	

Electrical Information

Rated Voltage	230 ± 10% VAC	230 ± 10% VAC
Power Frequency	50 Hz ~ 60 Hz	50 Hz ~ 60 Hz
Heater Output	1.0 kW	1.5 kW
Nominal Power	1.0 kW 4.6 amp	1.5 kW 6.8 amp
Phase	1 Phase	1 Phase

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General Information

Serial Number	Yes	Yes
External Dimensions	340 W x 285 D x 270mm H	545 W x 345 D x 270mm H
Net Weight	7 kg	10 kg
Packaged Dimensions	450 W x 350 D x 320mm H	600 W x 400 D x 320mm H
Gross Weight	8 kg	11 kg
Standards Conformity	CE	CE

Supplied Accessories

SKU	663-311
Description	Stainless Steel Gabled Lid for 11L Bath
SKU	663-313
Description	Stainless Steel Gabled Lid for 22L Bath

Labelling Symbols

Symbol	Definition	Symbol	Definition
	The catalogue number for identification and reordering.		The user needs to consult the instructions for use (IFU) before use.
	It needs protection from light sources.		It needs to be protected from moisture.
	The serial number of a specific unit for traceability.		It has a CE Mark of Conformity.

Storage & Handling Information

It is recommended to store the water baths in a cool, dry place, away from direct sunlight. Exposure to direct sunlight can potentially compromise the integrity and quality of stored items.

Ordering Information

SKU	Description
663-310	Water Bath, Heated, Digital, 11L
663-312	Water Bath, Heated, Digital, 22L



Lid for 11L Bath



Lid for 22L Bath

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