

Shaking Water Bath Incubator

BT100/200/300

Operating temp. range RT +5~80°C

Temp. distribution accuracy ±0.1°C

Shaking width 10 to 40mm (variable)

Shaking frequency 20 to 160 times/min.

Constant temp. shaking water bath with integrated vibrating design and easy to use, flexible inner tank.

- Changeable vibration range that varies from 10 to 44mm.
- Oscillation frequency ranges from 20 to 160 times per minute allowing for non-incremental speed transition.



19L
BT100

23L
BT200

Specifications

Product code	221132	221133	221134	
Model	BT100	BT200	BT300	
Shaking type	Reciprocate shaking, Stirring by pump			
Operating temp. range	Room temp. +5°C to 80°C (when the top lid is attached)			
Temp. control accuracy	±0.02°C to 0.08°C			
Temp. distribution accuracy	±0.1°C			
Temp. rising time	Approx. 95 min.	Approx. 70 min.	Approx. 120 min.	
Shaking frequency	20 to 160 times/min. with variable knob, digital indicator			
Shaking width	10 to 40mm (variable)			
Interior material	Stainless steel sheet			
Temp. controller	PID control by microprocessor			
Sensor	Double sensor: Platinum temp.-measuring resistor*1 Pt100Ω (Temp. controller) + K Thermocouple (Overheat prevention device)			
Temp setting / display	Digital setting / Digital display			
Overheat protector	ON/OFF control by microprocessor			
Overheat protect setting	Digital setting*2			
Heater	Copper pipe heater (nickel plated) 1.2kW	1.9kW	2.5kW	
Stirrer	Magnet pump (water jet stirring) 6W 10W 10W			
Shaker	Gear motor 25W 40W 40W			
Shaking speed setting / display	Analog setting / Digital display			
Timer	1 min. to 99hrs. 59min. and 100hrs to 999hrs. 50min. Digital display, Quick automatic stop, Automatic start			
Safety device	Self-diagnosis function(Heater defective, Sensor defective, SSR short circuit and Overheat protector) , Over current, short circuit breaker, Heater no-load operation prevention device and overheat protector.			
Settable number of vessels	Test tube	Dia : 16.5mm, Length : 150 to 200mm(JIS) 130 pcs. 169 pcs. 260 pcs.		
	Flask	Round, Erlenmeyer flask 100 / 300 / 500ml 12 / 5 / 3pcs. 16 / 9 / 6pcs. 24 / 10 / 6pcs.		
Internal dimensions (W×D×Hmm)	302×350×250	372×350×250	532×350×250	
External dimensions*3 (W×D×Hmm)	579×414×325	649×414×325	809×414×325	
Tank capacity (full water)	19L	23L	34L	
Power source (50/60Hz)	AC220V Single phase with step-down transformer			
Weight	Approx. 27kg	Approx. 40kg	Approx. 48kg	
Accessories	Shaking rack (Dimensions W×D×Hmm)	1 pc. 290×220×170	1 pc. 290×290×170	2 pcs. 290×220×170
	Spring pitch	20mm (both length and width)		

*1 The temperature may not reach 80°C depending on the outside temperature and sample volume.

*2 The sensor is integrated with the overheat prevention sensor. *3 Do not include protrusions. The length of the power cord is about 2m outside the unit.

Control Panel



Rack for Test Tube

Number of Test Tube

Description	for BT100	for BT200	for BT300
Test tube (Dia:16.5mm)	130 pcs.	160 pcs.	260 pcs.



for BT100



for BT200



for BT300

Top Lid (Optional)

Description	Product Code
Lid for BT100	221380
Lid for BT200	221381
Lid for BT300	221382



for BT100

for BT200

for BT300