

Precision Low Constant Temperature Water Bath, "Thermo-Elite"

## BH201/301

**These models have already been discontinued and replaced by the successive model "BH302".**



Model	
201	301
Operating temp. range	
-20deg.C to +80deg.C	-25deg.C to +80deg.C
Temp. Distribution Accuracy	
±0.01 (at 20deg.C)	
Bath Capacity	
Approx. 13L	Approx. 30L

- The Wider Temp. Range. Suitable for Constant Temperature Test
- Powerful Circulation Pump can perform the better external circulation for Analytical Equipment, etc.
- Various Support Functions
- External Circulated Water Temp. can be controlled precisely by fixing External Sensor.
- Control Panel is Removable with Communication Cable for the Remote Control. (Communication Cable is Optional.)

## ■ Specifications

Model	BH201	BH301
<b>Performance</b>		
Circulation Type	Water Jet Pump Cooling Circulation/Closed System	
Operating Temp. Range	-20 to +80deg.C	-25 to +80deg.C
Temp. Adjustment Accuracy	±0.01deg.C (at 20deg.C)	
Temp. Indication Unit	0.1deg.C	
Cooling Capacity	Approx. 325W (280kcl) at Liquid Temp. 20deg.C	Approx. 600W (516kcl) at Liquid Temp. 20deg.C
<b>Component</b>		
Refrigerator/Coolant	250W, Closed Air Cooling Type Rotary, R134A	250W, Closed Air Cooling Type Rotary, R404A
Pump Max Flow Rate	14/16L/min (50/60Hz)	
Pump Max. Lift	2.8/3.4m (50/60Hz)	
Heater	1kW	
Surrounding Operation Temp. Range	5 to 30deg.C	
<b>Controller</b>		
Temp. Control System	PID Control by Micro Computer	
Temp. Setting/Display	Digital, LED Display, Fluorescent Display Tube Type Guide Display	
Temp. Sensor	Pt Sensor, Pt100Ω (for Temp. Control) + K-thermocouple (for Overheat Prevention) , Double Sensor	
Timer	1min. to 99hrs.59min., 100hrs. to 999.9hrs., Time Change Setting Function	
Operating Function	Fixed Temp. Operation, Fixed Time Automatic Stop Operation, Quick Automatic Stop Operation, Fixed Time Automatic Start Operation, Programming Operation (Max. 99 steps, Repeating, Gradient Operation), Programming Automatic Start Operation	
<b>Safety</b>		
Safety Countermeasure	Electric Leakage Breaker for Over Current Protection, Refrigerator Over Load Relay, Refrigerator Pressure Detector, Float Switch for Empty Boiling Prevention, Refrigerator Protection-Delay Timer Function, Automatic Overheat Prevention, Independent Overheating Prevention	
Other Function	Drain Cock, Filer for Condenser, RS485 Communication Function, Temp. Output Terminal, Alarm Output Terminal, Time-up Output Terminal, Key Rock Timer Function, Calibration Off Set Function, Breakout Protection Function.	
<b>Standard</b>		
Water Bath Dimension	W389 x D226 x H150mm	W296 x D501 x H200mm
Capacity	13L	30L
Effective Water Bath Dimension	W154 x D190 x H136mm	W238 x D335 x H184mm
External Dimension	W654 x D492 x H620mm (Water Bath Height 316)	W385 x D590 x H1,150mm (Water Bath Height 850)
Power	AC100V50/60Hz13A	AC100V50/60Hz14A
Weight	Approx. 47kg	Approx. 60kg
Accessory	Connection Port for External Circulation Hose (R1/2 φ14), 2pcs.	

■ Program Controller



■ Back Side



Control Panel is Detachable. Have to install Optional Item "Remote Control Power Source" in case Communication Cable Length is more than 5m.

■ Optional items

Remark	Description	Model No.	Product Code
	Circulation Insulation Hose, I.D. 12mm, Length 2m	BH201/301	222088
	External Communication Adapter, RS485-RS232C (conversion)	BH201/301	281388
	External Pt Sensor, Pt 100Ω, A-class, 3m, In Protection Tube	BH201/301	281350
	Communication Cable for Remote Control, Remote Control Power Source Panel Stand for Remote Control Lead 5m	BH201/301	281397
○	Panel Stand for Remote Control	BH201/301	281398
	Power for Remote Control, Out put DC5V	BH201/301	281399

**Note:**

The transportation cost will not be required if the order is together with main unit except the item marked "○".

In case you order the item marked "○" together with the main unit, please ask Yamato to obtain the correct transportation cost.



Panel Stand for Remote Control



Remote Control Power Source