

Programmable Low Temperature Circulating Water Bath  
**BH302**



Low temperature water bath with high performance and wide operating temp. range.

Model
BH302
Operating temp. range
-20deg.C to +80deg.C
Temp. Distribution Accuracy
±0.02 deg.C)
Bath Capacity
30L

- Temp. adjustment accuracy achieve to  $\pm 0.02$ deg.C
- Powerful circulation pump makes external circulation of analytical instrument is possible
- Various Support Functions
- Remote control is available
- Control Panel is Removable with Communication Cable for the Remote Control. (Communication Cable is Optional.)

## ■ Specifications

Model	BH302
<b>Performance</b>	
Circulation Type	Water Jet Pump Circulation / Closed System Circulation
Operating Temp. Range	-20deg.C to 80deg.C
Temp. Adjustment Accuracy	±0.02deg.C JTM K05 (at 20 deg.C) ±0.05deg.C JIS ( at 20 deg.C)
Temp. Indication Unit	0.1deg.C
Cooling capacity	Approx. 360W (310 kcal/h) at 20deg.C
<b>Structure</b>	
Refrigerator/Coolant	300W/ R404A
Pump Max. Flow (50/60Hz)	14/15L/min.
Pump Max. Lift (50/60Hz)	2.8/3.4m
Heater	900W
Surrounding Operation Temp. Range	5 to 30deg.C
<b>Controller</b>	
Temp. Control System	PID Control by Micro Computer
Temp. Setting/Display	Digital Setting, LED Display, Fluorescent Display Tube Type Guide Display
Temp. Sensor	Pt Sensor, Pt100Ω A-class (for Temp. Control)+ K-thermocouple (for Overheat Prevention) Double Sensor
Timer	1min. to 99hrs. 59min., 100 to 999.9hrs.Timer/Time Changeable Function
Operation Function	Fixed Temp. Operation, Automatic Stop/Start Operation at Setting Time, Program Operation (Max. 99 steps, Repeating, Gradient Operation), Programming Automatic Start Operation
<b>Safety</b>	
Safety Countermeasures	Electric Leakage Breaker for Over Current Protection, Key lock Function, Breakout Protection Function, Automatic Overheat Prevention, Independent Overheating Prevention
Other Function	Drain Cock, RS485 Communication Function, Temp. Output Terminal, Alarm Output Terminal, Calibration Off Set Function.
<b>Standard</b>	
Water Bath Dimension	W296x D501 x H200mm
Water Bath Capacity	30L (liquid volume approx. 20L)
Effective Water Bath Dimension	W224 x C338 x H200mm
External Dimension	W386 x D590 x H1135mm (Water Bath Height 830mm)
Power Source	AC100V, 50/60Hz, 14A (15A)
Weight	Approx. 68kg
Accessories	External circulation hose (PS1/2- Φ14) 2 pcs , Drain hose 1 pc

## ■ Program Controller



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

■ Back Side



■ Optional items

Remark	Description	Model No.	Product Code
	I.D. 12mm, length 2m Circulation Insulation hose	BH302	222088
	External communications adapter	BH302	281388
	External Pt Sensor, Pt100Ω A-class with Protection Tube 3m	BH302	281350
	Communication Cable for Remote Control, 4-pole, 5m	BH302	281397
○	Panel Stand for Remote Control	BH302	281398
	Battery for remote operation (DC5V)	BH302	281399
	Caster stop holder ( 4 pcs )	BH302	281440

**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