Programmable Precision Constant Temperature Water Bath

BH Series

Operating temp. range RT+15~100°C (BH401) RT+15~200°C (BH501) Temp. adjustment accuracy ±0.01°C Bath capacity ~13L(liquid 10L)

Benchtop precision constant temperature bath equipped with high performance controller for higher precision and wider temperature range.



Operation and functions

- Precision controller enables temperature adjustment accuracy of ±0.01°C (at 20°C)
- BH501 can be used as precision water or oil bath
- Maximum of 99 steps of programming operation, fixed temperature operation, Quick auto stop, Auto stop and Auto start functions
- RS485 communication function, Temperature output terminal (1~5V), Alarm output terminal, calibration offset function and key lock function
- Better external circulation with powerful circulation pump
- Circulation pump flow changeable up to 10 patterns
- Circulated water temperature (closed type) can be controlled precisely by external sensor
- Control panel can be removed for remote control by using communication cable (sold separately)

Safety features

 Self diagnostic functions, Earth leakage circuit breaker, Empty boiling prevention switch, Automatic overheating prevention, Independent overheating prevention

Specifications

Model		BH401-115V BH401-220V	BH501-115V BH501-220V	
Circulation system		Water jet pump circulation (closed system circulation)		
Operating temperature range		RT+15~100°C	RT+15~200°C	
Temperature adjustment accuracy		±0.01°C (water: RT+15°C~80°C), ± 0.1 (silicon oil: KF96/50cst 70°C~200°C)		
Temperature indication unit		0.1°C		
Circulation Pump		Water jet pump circulation		
(50/60Hz)	Pump max. flow	14/15L/min. (Circulation pressure loss when below 10kPa)		
	Pump max. lift	2.8/3.4m (water flow about 0.5L/min)		
Heater		1kW	1.2kW	
Ambient temperature range		5~30°C		
Temperature control / system		PID control by microprocessor		
Temperature setting / display method		Digital setting / display		
Sensor		W sensor: Pt 100Ω A-class (for temperature control)+ K-thermocouple (for overheat prevention) double sensor		
Timer		1min.~99hrs.59min., 100~9999hrs Timer/Time switchable function		
Operation function		Fixed temp. operation, Quick auto stop, Auto stop / start at setting time, Program operation (max. 99 steps, repeating, gradient operation), Program auto start operation		
Safety device		Earth leakage circuit breaker, Key lock function, Breakout protection function, Automatic overheating prevention, Independent overheating prevention, Float switch		
Other functions		RS485 communication function, Temperature output terminal, Alarm output terminal, Calibration offset function		
Dimensions		W239 x D299 x H200mm		
Internal capacity		13L (liquid 10L)		
Effective water bath dimension		W227 x D150 x H200mm (front corner R34)		
External dimension		W310 x D396 x H607mm (water bath height)		
Power source		AC115V 10A AC220V 5A	AC115V 11.5A AC220V 6A	
Weight		~20kg		
Accessories		Hose nipple (1/2 x ø14mm) 2pcs.		

^{*1.} Performance value test condition: room temperature 20°C, no load, power source 50Hz

*2. Protrusions not included



Detachable control panel.

Remote control power source (optional item) needed in case remote control communication cable is longer than 5m

Control Panel

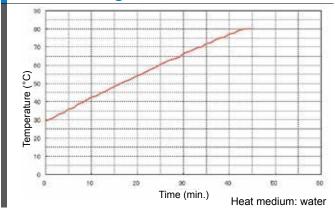


Program controller CR5 model

Rear View (Circulation port)



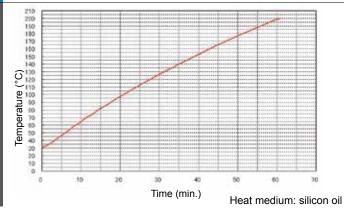
BH401 Heating Performance



Optional items

Product code	Description	Specifications
280094	Silicon hose for circulation	I.D. ø12mm, Length 2m, 1pc.
281388	External communication adapter	RS485 - RS232C conversion
281350	External Pt sensor	Pt 100Ω, A level with protection tube, 3m
281397	Communication cable for remote control	4 holes, 5m
281398	Remote control panel stand	
281399	Remote control power	AC100V – DC5V (For 115V/220V compatibility verification)

BH501 Heating Performance





Remote control panel stand



Remote control power