

Water Bath (High Precision Constant Temp., Programmable)

Thermo-Elite® BH401/501

Operating temp. range RT +15~100°C (BH401) RT +15~200°C (BH501)

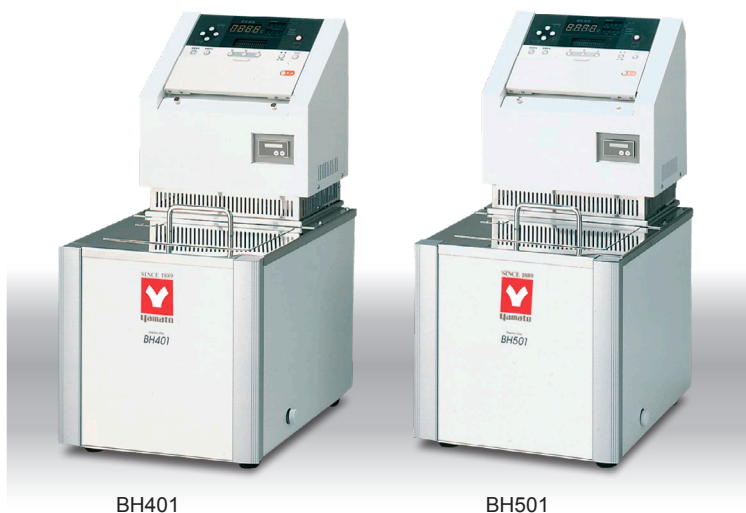
Temp. adjustment accuracy ±0.01°C

Bath capacity 13L (Approx. 10L of liquid)

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)



BH401

BH501

■ Specifications

| Product code | 222057 | 222058 |
|--------------------------------|--|--|
| Model | BH401 | BH501 |
| Circulation system | Water jet pump circulation (External closed circulation) | |
| Operating temp. range*1 | RT+15 to 100°C | RT+15 to 200°C |
| Temp. adjustment accuracy*1 | ±0.01°C (at water: RT+15°C to 80°C), ±0.1 (at silicon oil: KF96/50cst 70°C~200°C) | |
| Temp. indication unit*1 | 0.1°C | |
| Circulation ability (50/60Hz) | Max. flow | 14/15L/min. (Circulation pressure loss when below 10kPa) |
| | Max. lift | 2.8/3.4m (water flow approx. 0.5L/min) |
| Heater | 1kW | 1.2kW |
| Ambient temperature range | 5~30°C | |
| Temperature control | PID control by microprocessor | |
| Temperature setting / display | Digital setting / LED display, Guidance display by fluorescent display tube | |
| Sensor | Double sensor: Pt 100Ω A-class (for temperature control)+ K-thermocouple (for overheat prevention) | |
| Timer | 1min.~99hrs.59min., 100~9999hrs Timer / Time switchable function | |
| Operation function | Fixed temp. operation, Fixed temp. auto-stop operation, Fixed temp. auto-start operation, Programmed operation (up to 99 steps, repetition, slope operation etc.), Programmed auto-start operation, Pause operation function | |
| Safety device | Earth leakage circuit breaker, Key lock function, Power failure compensation function, Automatic overheat prevention function, Independent overheat prevention device, Float switch | |
| Other functions | RS485 communication function, Temperature output terminal, alarm output terminal, calibration offset function | |
| Dimensions | W239×D299×H200mm | |
| Internal capacity | 13L (Approx. 10L of liquid) | |
| Effective water bath dimension | W227×D150×H200mm (front corner R34) | |
| External dimension*2 | W310×D396×H607mm (Water bath height: 307mm, Including the height of rubber legs) | |
| Power source (50/60Hz) | AC220V 5A Single phase with step-down transformer | AC220V 6A Single phase with step-down transformer |
| Weight | Approx. 20kg | |
| Accessories | Hose nipple (1/2×ø14mm) 2pcs. | |

*1 Conditions: Temp. 20°C (no load), Power source 50Hz

*2 Do not include protrusions.

The length of the power cord is about 2m outside the unit.



The control panel can be detached from the main unit for remote control.
If the remote control communication cable exceeds 5m, an optional power supply for remote control is required.

Control Panel

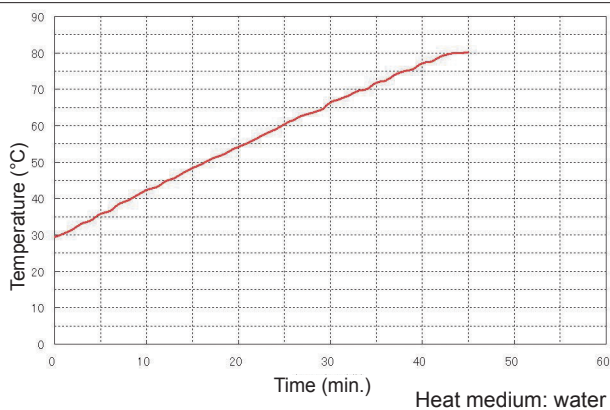


Program controller CR5 model

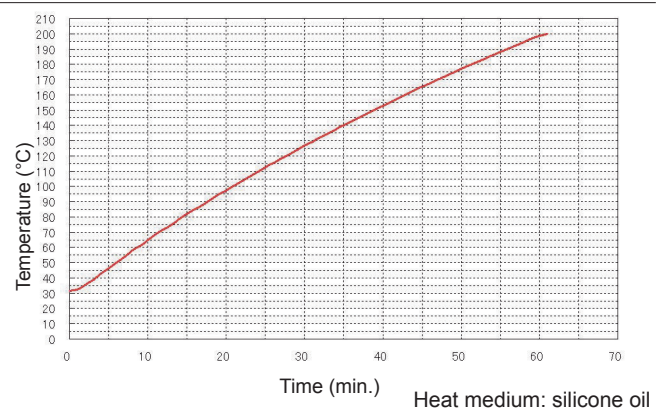
Rear View (Circulation port)



BH401 Heating Performance



BH501 Heating Performance



Optional items

| No. | Description | Specifications | Product code |
|-----|--|---|--------------|
| ① | Silicone hose for circulation | I.D. ø12mm, Length 2m, 1pc. | 280094 |
| ② | External communication adapter | RS485 - RS232C conversion | 281388 |
| ③ | External Pt sensor | Pt 100Ω, A level with protection tube, 3m | 281350 |
| ④ | Communication cable for remote control | 4 core cable, 5m | 281397 |
| ⑤ | Remote control panel stand | | 281398 |
| ⑥ | Remote control power supply | AC100V - DC5V | 281399 |



⑤ Remote control panel stand



⑥ Remote control power supply



Sintech Scientific (S.E.A.) Pte Ltd

No. 194 Pandan Loop #04-11

Pantech Business Hub

Singapore 128383

Tel : 65-67790007

Fax : 63520877, 63520885

Email : sales@sintechscientific.com

Website : www.sintechscientific.com