

Economy Constant Temperature Water Bath

BM Series

| | | | | | | | | |
|----------------|-------------------------------|--------------------------------|-----------------------|---------------------------------------------------|-----------------------------------|---------------|---------------------------|---------------------------|
| Setting system | Analog (BM100/110/200/210) | Digital (BM401/410/500/510) | Operating temp. range | Room temp. +5~95°C (BM100/110/200/210/401/410) | Room temp. +5~90°C (BM500/510) | Bath capacity | 4L (BM100/110/500/510) | 7L (BM200/210/401/410) |
|----------------|-------------------------------|--------------------------------|-----------------------|---------------------------------------------------|-----------------------------------|---------------|---------------------------|---------------------------|

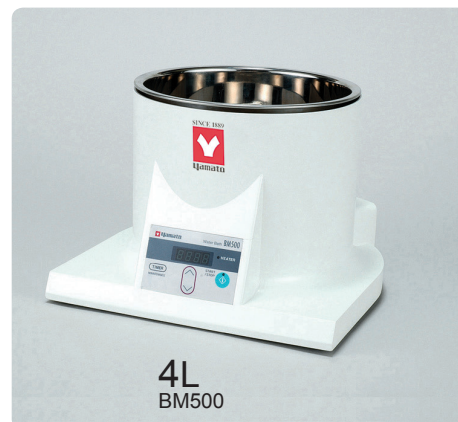
Easy to use, compact design water bath



4L
BM100

7L
BM200

7L
BM401



4L
BM500

BM100/110/200/210

- Analog set up system
- Thermometer is included to verify actual temperature
- Protected water tank prevents burns caused by contact
- Equipped with a drain (BM200/210)

BM401/410

- Digital temperature setting by ▲/▼ keys
- Protected water tank prevents burns caused by contact
- Equipped with a drain

BM500/510

- Digital temperature setting by ▲/▼ keys
- Removable water tank for convenient cleaning and changing of water
- Heater situated outside the water tank
- Exclusive connection for bath operational setting function with RE601/801 rotary evaporator

Specifications

| Model | BM100 | BM110 | BM200 | BM210 | BM401 | BM410 | BM500 | BM510 |
|--------------------------------|-------------------------------------------------|---------------------------|--------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Operating temp. range *1 | Room temp. +5~95°C *1 | | | | | | Room temp. +5~90°C | |
| Temp. adjustment accuracy*2 | ±2°C (at 60°C) | | | | ±1°C (at 60°C) | | ±1.5°C (at agitation) | |
| Temp. control system | ON/OFF control | | | | PID control by microprocessor | | | |
| Temp. setting / display method | Analog setting (Glass thermometer indication) | | | | Digital setting by ▲/▼ keys | | Digital 7 segment LED Digital setting by ▲/▼ keys | |
| Operation function | Operation at fixed point | | | | Fixed temperature, quick auto stop, auto stop, auto start | Operation at fixed point | Fixed temperature, quick auto stop, auto stop, auto start | |
| Additional function | -- | | | | Calibration off-set, power failure recovery, keypad lock | Temp. preset function (preset / select one temp.) | Keypad lock, maintenance function (RE signal transmission and reception), calibration off-set, power failure recovery | |
| Heater | SUS316 pipe heater 500W | | SUS316 pipe heater 1kW | | | | 1kW (100V) 1.44kW (120V) | 1kW (200V) 1.44kW (220V) |
| Sensor | Liquid expansion type | | | | Pt100Ω | | K thermocouple | |
| Safety device | Bath protection cover | | | | | | Bath protection cover (ABS heat-resistant resin) | |
| | Overcurrent protection (fuse: 7A), thermal fuse | | Overcurrent protection (fuse: 15A), thermal fuse | | Self-diagnostic functions (Automatic overheat prevention, Sensor trouble, Triac short circuit, heater disconnection, main relay failure), circuit protector, thermal fuse | | Self-diagnostic functions (Automatic overheat prevention, Sensor trouble, Triac short circuit, heater disconnection, main relay failure), circuit protector, thermal fuse, micro switch to detect heating without water | |
| Water tank | Capacity | ~4L | | ~7L | | ~4L | | |
| | Dimensions | I.D.200 x D120mm | | I.D.250 x D150mm | | Max. I.D.240 x bottom dia165 x D122mm | | |
| External dimensions | W240 x D300 x H150mm | | | W310 x D360 x H230mm | | | W340 x D349 x H231mm | |
| Weight | ~3.5kg | | | ~6kg | | ~7kg | | ~5.5kg |
| Power source (50/60 Hz) | AC115V 4.5A paddle switch | AC220V 2.3A paddle switch | AC115V 9A | AC220V 4.5A | AC115V 11A | AC220V 4.5A | AC100V~120V 12.5~10.5A | AC200~240V 6.5~5.5A |
| Accessories | Bar thermometer (10~110°C) with immersion line | | | | -- | | -- | |

*1. No load operation of bath only. Maximum temperature varies based on different circumstances and operational conditions

*2. Measured under ambient temperature of 23°C±5°C, humidity of 65%RH±20%