

# Economical Water Bath (Constant Temp.)

## BM100/200/401/500/510

Setting system

Analog

BM100/200

Digital

BM401/500/510

Operating temp. range

Room temp. +5~95°C  
BM100/200/401

Room temp. +5~90°C  
BM500/510

Bath capacity

4L

BM100/500/510

7L

BM200/401

Easy to use, compact design water bath



4L  
BM100

7L  
BM200

7L  
BM401

4L  
BM500

### BM100/200

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

### BM401

- 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	BM200	BM401	BM500	BM510
Operating temp. range*1		Room temp. +5~95°C			Room temp. +5~90°C	
Temp. adjustment accuracy*2		±2°C (at 60°C)		±0.3°C (at 60°C)	±1.5°C (at agitation)	
Temp. control		ON/OFF control		PID control by microprocessor		
Temp. setting / display		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	Fixed temperature, quick auto stop, auto stop, auto start	
Additional functions		--		Calibration off-set, power failure recovery, keypad lock	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 (240V)
Sensor		Liquid expansion type		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	Approx. 4L	Approx. 7L		Approx. 4L	
	Dimensions	I.D.200×D120mm	I.D.250×D150mm		Max. I.D.240×bottom dia165×D122mm	
External dimensions		W240×D300×H150mm	W310×D360×H230mm		W340×D349×H231mm	
Weight		Approx. 3.5kg	Approx. 6kg	Approx. 7kg	Approx. 5.5kg	
Power source (50/60 Hz)		AC115V/220V paddle switch	AC115V/220V Single phase with step-down transformer	AC115V/220V Single phase with step-down transformer	AC100V~120V 12.5~10.5A	AC200~240V 6.5~5.5A
Accessories		Bar thermometer (10~110°C) with immersion line		Drain board	--	

\*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%(No load).