

Economy Constant Temperature Water Bath

BM Series

Setting system	Analog (BM100/110)	Digital (BM302A/312A/401/500/510)	Operating temp. range	RT +5~95°C (BM100/110/401)	RT+10~90°C (BM302A/312A)	RT+5~90°C (BM500/510)	Bath capacity	4L (BM100/110/500/510)	5L (BM302A/312A)	7L (BM401)
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Easy to use, compact design water bath



4L
BM100/110



5L
BM302/312



7L
BM401



4L
BM500/510

BM100/110

- Analog set up system
- Thermometer is included to verify actual temperature
- Protected water tank prevents burns caused by contact

BM302A/312A

- Digital temperature setting by ▲/▼ keys
- Flat-shaped bath with no heater or sensor inside for ease in cleaning

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 clean-ing 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	BM302-A	BM312-A	BM401	BM500	BM510
Operating temp. range *1	Room temp. +5~95°C		Room temp. +10~90°C		Room temp. +5~95°C	Room temp. +5~90°C	
Temp. adjustment accuracy*2	±2°C (at 60°C)		±1°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)		White LED digital display, key entry, min. digit of 1°C		Digital setting by ▲/▼ keys, LED display	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 function	--		Overshoot alert, Auto-resume (selectable), calibration offset		Calibration offset, power failure recovery, keypad lock	Keypad lock, maintenance function (RE signal transmission and reception), calibration offset, power failure recovery	
Heater	SUS316 pipe heater 500W		1000W aluminum sheathed heater		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	Bath protection cover (ABS heat-resistant resin)	
	Overcurrent protection (fuse: 7A), thermal fuse		Automatic overheating prevention, independent overheating prevention (fixed temp.), temperature upper limit error, Overcurrent protection fuse		Self-diagnostic functions (Automatic overheating prevention, Sensor trouble, Triac short circuit, heater disconnection, main relay failure), circuit protector, thermal fuse	Self-diagnostic functions (Automatic overheating 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	~5L		~7L	~4L	
	Dimensions	I.D.200 x D120mm				Max. I.D.240 x bottom dia165 x D122mm	
External dimensions*3	W240 x D300 x H150mm		φ262 (max. D286) x H240 mm		W310 x D360 x H230mm	W340 x D349 x H231mm	
Weight	~3.5kg		~4.5kg		~7kg	~5.5kg	
Power source (50/60 Hz)	AC115V 4.5A paddle switch	AC220V 2.3A paddle switch	100-115V, 10-12A	200-230V, 5-6A	AC115V 11A	AC100V~120V 12.5~10.5A	AC200~240V 6.5~5.5A
Accessories	Bar thermometer (10~110°C) with immersion line		Power cable (1), Spare fuse for main power (large)(1), Spare fuse for service outlet 2A for BM302A (small)(1),		Thermal fuse	--	

*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%

*3 Dimensions excludes protrusions