

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)
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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%