

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



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 start	
Additional function	--				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 9A	AC220V 4.5A	AC100V~120V 10.5~12.5A	AC200~240V 5.5~6.5A
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%.