

# Economy Constant Temperature Oil Bath

## BO Series

Operating temp. range	Room temp. +10~180°C (BO400/410)	Room temp. +5~199°C (BO500)	Room temp. +5~180°C (BO601)	Bath capacity	4L (BO400/410)	5.2L (BO500)	7L (BO601)
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Easy to use, digital setting, compact design oil bath



BO400/410

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



BO500 + MB800 (Magnetic Stirrer)

- Stainless steel oil bath
- Bath protection sheet to prevent operator from burning
- Must be used with MB800 magnetic stirrer



BO601

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

### Specifications

Model	BO400	BO410	BO500-115V*3 BO500-220V*3	BO601-115V BO601-220V
Operating temp. range*1	Room temp. +10~180°C		Room temp. +5~199°C	Room temp. +5~180°C
Temp. control accuracy*2	±2°C (at agitation)		±0.5°C	±2°C (at 100°C)
Temp. control system	PID control by microprocessor		Proportional control	PID control by microprocessor
Temp. setting / display method	Digital setting by ▲/▼ keys		Digital / Glass thermometer	Digital setting by ▲/▼ keys
Operation function	Fixed temperature, quick auto-stop, auto stop, auto start		--	Fixed temperature, quick auto-stop, auto stop, auto start
Additional function	Keypad lock, RE signal transmission and reception, power failure recovery, calibration off-set		--	Keypad lock, power failure recovery, calibration off-set
Heater	1.44kW (120V)	1.44kW (240V)	Pipe heater 700W	SUS316 pipeheater 1kW
Sensor	K thermocouple		Pt100Ω	K thermocouple
Safety device	Bath protection cover (ABS heat-resistant resin) Self-diagnostic function (automatic overheat prevention, temperature sensor error, triac short circuit, heater disconnection, main relay failure), circuit protector, thermal fuse, micro switch to detect heating without oil		Bath protection sheet	Bath protection cover Self-diagnostic function (automatic overheat prevention, temperature sensor error, triac short circuit, heater disconnection, main relay failure), circuit protector, thermal fuse
Interlocking control function	RE601/801 signal transmission and reception (constant operation, heat retention operation, stop), Error report to RE601/801		--	--
Water tank	Capacity	~4L	~5.2L	~7L
	Dimensions	Max. I.D.240 x bottom Dia165 x D122mm		I.D.250 x D150mm
External dimensions	W340 x D349 x H231mm		W250 x D290 x H130mm	W310 x D360 x H230mm
Weight	~5.5kg		~1.4kg	~8kg
Power source (50/60 Hz)	AC100~120V 12.5~10.5A	AC200~240V 6.5~5.5A	AC115V 7A AC220V 4A	AC115V 11A AC220V 7A

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

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

\*3. When combined with magnetic stirrer MB800, power source is from MB800 main unit outlet.

Model	MB800-115V / MB800-220V (in combination with BO500)
Stirring plate	Material: Aluminum, dimension: W250xD220mm
Stirring capacity	100ml~10L
Rotation speed	70~1200rpm
Motor	AC motor, Electronic control
Overheat prevention	70~200°C
Sensor	Thermistor
Safety device	Current leakage breaker, Oil bath power shutdown overheat prevention device
Power source (50/60Hz)	AC115V 10A / AC220V 5A (MB800+BO500 combined with oil bath)
External dimensions	W250xD270xH150mm
Weight	~4.2kg
Accessories	Stirrer 40mm 1pc.

### BO500A-115V BO500A-220V

Set of BO500 Oil Bath  
and MB800 Stirrer

