

# Oil Bath for Synthetic Experiments



## BOG100/110/200/210 BOS100/110/200/210

Operating temp. range

Room temp. +5~240°C  
BOG Series

Room temp. +5~250°C  
BOS Series



### Operation and functions

- Safe and secure bath operation as controller can be safely operated from a distance
- Choice between glass oil bath for high visibility (BOG) or solid stainless oil bath for good temperature stability (BOS)
- Indent at the bottom of the bath allows integration of stirrer's hot plate. Also prevents bath from sliding or slipping off. Compatible with MFD800/MFH800 magnetic stirrers.
- Safety functions include independent overheat prevention device and heater guard
- Useless oil use and oil overflow are reduced as recommended amount of oil to use is indicated in the bath
- Highly accurate and rapid temperature control in the flask is possible with the use of the temperature sensor (optional) inserted into the flask and the in-tank sensor together
- Option for a triple system

### Specifications

Model		BOG100/110	BOG200/210	BOS100/110	BOS200/210	
Performance	Temperature setting range	0~260°C				
	Temperature control range	Room temp. +5~240°C		Room temp. +5~250°C		
	Temperature control accuracy	± 0.3°C (at 200°C, when stirring)				
Controller	Temperature control system	PID control				
	Temp. setting/display method	Digital setting using ▲ ▼ keys (display in units of 1°C)				
	Operation function	Fixed temperature operation				
	Additional functions	Calibration offset function, auto resume, LED brightness setting				
	Heater circuit control	Triac zero cross method				
	Temperature sensor	Pt100Ω				
Configuration	Exterior	Chromium-free electrogalvanized steel plate baked finish				
	Bath	Hard transparent glass		Stainless steel		
	Heater material	Stainless steel tube heater				
	Heater capacity	310W	425W	310W	425W	
Safety devices	Controller	Self-diagnostic functions ( temperature sensor error detection, automatic overheat prevention)				
	Fuse	6.3 A, short-circuit protection, overcurrent protection				
	Others	Independent overheat prevention device				
Standards	Internal dimension (mm)	φ140×100	φ170×140	φ140×100	φ170×140	
	External dimension (mm)	φ150×205×140	φ 180×235×180	φ 155×210×140	φ 185×240×180	
	Bath capacity	Recommended (no load)	~0.8L	~1.7L	~0.8L	~1.7L
		Maximum (no load)	~1.0L	~2.2L	~1.0L	~2.2L
	Controller (W×D×H) mm	150×90×45mm				
	Power supply 50/60 Hz	115V 3.5A 220V 2.0A	115V 4.5A 220V 2.5A	115V 3.5A 220V 2.0A	115V 4.5A 220V 2.5A	
	Weight	Bath and heater	~1.8 kg	~2.3 kg	~2.5 kg	~2.9 kg
Single controller		~0.5 kg				
Total weight		~2.3 kg	~2.8 kg	~3.0 kg	3.4 kg	
Accessories	Heater guard (1 set), arbor (outer diameter φ12 x 90 mm: 1 pc.), PTFE stirrer (~ φ8 x 50 mm: 1 pc.), connector cap (1 pc.), tag attached cable ties (3)					



Remote use of controller



Controller



BOS200 triple system