

# Water Bath (Precision Constant Temp.)

## BK · BA Series

Operating temp. range RT+5~80°C

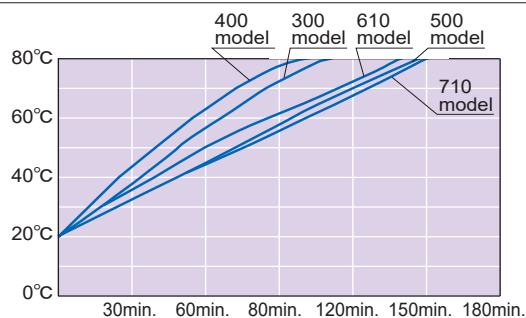
Temperature control accuracy  $\pm 0.02^{\circ}\text{C} \sim \pm 0.07^{\circ}\text{C}$

Bath capacity 27L BK/BA300 42L BK/BA400 70L BK/BA500 109L BK/BA610 144L BK/BA710

- BK series - Fixed temperature operation  
BA series - Program operation.
- In addition to BK series function, BA series adopted controller with program operation function (1 pattern 30 steps or 2 pattern 15 steps).
- Tank capacity: 27L, 42L, 70L, 109L, 144L
- Extremely high degree of temperature adjustment precision achieved by adopting high-precision thermostat and circulation pump.
- Digital display setting and indicated value of temperature and time.
- Equipped with observation window.
- Optional items include cooling coil, top cover, mounting rack, and viscosity meter support.



### Temperature Rising Curve



### Control Panel



BK series control panel



BA series control panel

### Specifications

Model	BK300	BA300	BK400	BA400	BK500	BA500	BK610	BA610	BK710	BA710
Stirring method	Stir by pump									
Operating temp. range	RT+5~80°C									
Temp. control accuracy	±0.02~±0.07°C									
Temp. distribution accuracy	±0.3°C									
Max. temp. reaching time	Approx. 120min.		Approx. 110min.		Approx. 165min.		Approx. 160min.		Approx. 200min.	Approx. 200min.
Interior material	Stainless steel and glass									
Temp. controller	PID control by microprocessor (BK: Fixed temperature operation, BA: Fixed temperature and program operation, 1 pattern 30 steps or 2 pattern 15 steps)									
Sensor	W sensor: Pt resistance thermometer, Pt 100Ω(temp. controller) + K thermocouple (overheat protector)									
Temp. setting / display method	Digital setting / display									
Overheat protector	ON / OFF by microprocessor									
Heater (SUS316)	1.3kW		2.2kW		2.4kW		3.5kW		4.5kW	
Stirring System (Magnet pump)	6W		30W		60W					
Timer	1min.~99hrs. 59min. to 999hrs. 50mins, digital setting, Auto start, auto stop, quick auto stop									
Safety device	Self-diagnostic functions (Heater disconnection, SSR short circuit, Abnormal sensor, over current), Electric leakage breaker, over heat protector									
Internal dimensions (W×D×H mm)	300×300×300		400×350×300		500×400×350		548×500×400		640×500×450	
External dimensions (W×D×H mm)	490×360×367		590×410×367		690×460×417		738×560×467		830×560×517	
Window dimensions (W×H mm)	240×215		340×215		440×265		340×215		440×265mm	
Bath capacity	Approx. 27L		Approx. 42L		Approx. 70L		Approx. 109L		Approx. 144L	
Shelf pitch	30mm									
Number of plates	5pcs.				6pcs.		9pcs.		10pcs.	
Drain hose (Dia. )	ø15×20mm									
Power source 50/60Hz	Single phase AC100V / AC220V						Single phase AC220V			
	14 / 7A		23A / 11A		25A / 12A		18A		23A	
Weight	Approx. 19kg		Approx. 25kg		Approx. 30kg		Approx. 36kg		Approx. 46kg	
Included accessories	Shelf plate 1pc., clamp 2pcs., stand 1pc., clamp holder 2pcs., tube connector 1pc., drainage cap 1pc.									
Optional accessories	Shaking rack / Viscometer holder/Cooling coil (for 300/400/500 series), External circulating pump / Top cover (for all models), Trolley with caster (for 610/710 series)									