Precision Constant Temperature Agitating Water Bath

BK · BA Series

| Operating temperature range	RT+5~80°C		Temperature control accuracy	±0.02°C~±0.07°C		Bath capacity	27L~144L

- 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
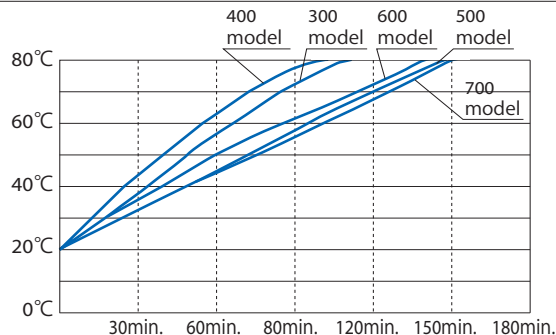
Control Panel

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	~120min.		~110min.		~165min.		~160min.		~200min.	~160min.
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-diagnotic functions (Heater disconnection, SSR short circuit, Abnormal sensor, Over current), Electric leakage breaker, Over heat protector									
Internal dimensions (W x D x H mm)	300×300×300		400×350×300		500×400×350		548×500×400		640×500×450	
External dimensions (W x D x H mm)	490×360×367		590×410×367		690×460×417		738×560×467		830×560×517	
Window dimensions (W x H mm)	240×215		340×215		440×265		340×215		440×265mm	
Bath capacity	~27L		~42L		~70L		~109L		~144L	
Shelf pitch	30mm									
Number of plates	5				6		9		10	
Drain hose	ø15×20mm									
Power source 50/60Hz	AC115V / AC220V						Single phase AC220V			
	12.5 / 6.5A		20A / 10.5A		22A / 11.5A		17.5A		23A	
Weight	~19kg		~25kg		~30kg		~36kg		~46kg	
Included accessories	Shelf plate 1pc., clamp 2pcs., stand 1pc., clamp holder 2pcs., tube connector 1pc., drainage cap 1pc.									

Optional Items

■ Shaking unit

Model	Shaking range	Shaking frequency
BN300	10~30 mm	20~160 rpm

BK400 + BN300

■ Mounting rack

Product code	Dimension (W x D x H)	Suitable models
221195	294 x 272 x 148.5mm	BK/BA300
221196	394 x 322 x 148.5mm	BK/BA400
221197	494 x 372 x 148.5mm	BK/BA500

Mounting rack

■ Viscosity meter support

Product code	Specification	Suitable models
221189	4 pcs. / bracket	BK/BA300
221183	4 pcs. / bracket	BK/BA400
221184	5 pcs. / bracket	BK/BA500

Able to hold Cannon-Fenske and Ubbelohde viscometer, easy to measure kinematic viscosity.
Base: Stainless steel 304
Holder: Brass nickel plated
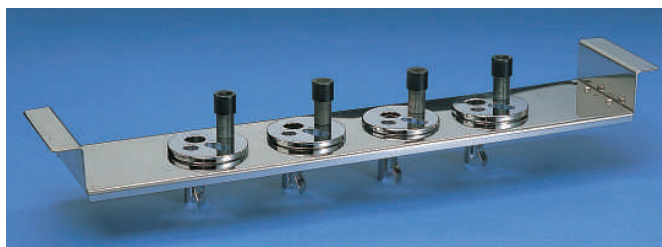
Viscosity meter support

■ Water pump

Model	Specification
PT-16	Operating temperature range RT~80°C Lift about 2m, water supply about 9L/min. Dimension: 17mm

Pump water in closed container, which includes distillation column, refractometer and other instruments inside, to continuously circulate and keep warm or warm up liquid.

Water pump

■ Cooling coil

Product code	Specification	Suitable models
221182	Copper pipe nickel plating I.D. 8mm x Length1.8m E.D. 12mm	BK/BA300, 400, 500

Use inside a tank. Cooling water pipe not included.

Cooling coil

■ Top cover of water tank (stainless steel)

Product code	Suitable models
221192	BK/BA300
221193	BK/BA400
221194	BK/BA500
221383	BK/BA610
221384	BK/BA710

Top cover for BK/BA300,400,500

Top cover for BK/BA610,710

■ Stand with caster

Product code	Suitable models
221385	BK/BA610
221386	BK/BA710