Precision Constant Temperature 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
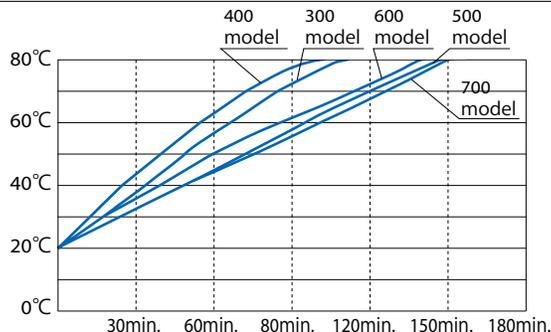
Control Panel

BK series control panel

BA series control panel

Specifications

Model	BK300-115V BK300-220V	BA300-115V BA300-220V	BK400-115V BK400-220V	BA400-115V BA400-220V	BK500-115V BK500-220V	BA500-115V BA500-220V	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 12.5A AC220V 6.5A		AC115V 20A AC220V 10.5A		AC115V 22A AC220V 11.5A		AC220V 17.5A Single phase		AC220V 23A Single phase	
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
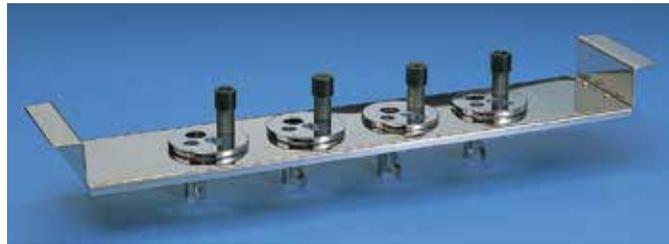
Viscosity meter support

■ 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	BK/BA300, 400, 500
	I.D. 8mm x Length1.8m	
	E.D. 12mm	

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