

Reciprocal shaking heating baths

BS series features more accurate shaking rapidity thanks to noiseless and anti-vibration *Brushless DC motor*. The constant temperature performance keeps samples incubated, ideal for DNA, and tissue or cell culture applications.

Operating features

- +5°C above room temperature to 100°C
- Microprocess PID control/ built-in Calibration
- Digital timer: 1 min to 99 hr 59 min, delayed ON/ OFF
- Independent over-temperature limiter
- Digital LED display (0.1°C/ 1 rpm resolution) with splash-proof keypads

Constructional features

- Shaker mechanism has its own control key, so the unit can be used as constant temperature baths!
- Gently start shaking to minimize shock on the test samples
- Multi-LED display for adjustment of actual value, setpoint temperatures and shaking frequency
- Baffle plate screens circulating pump, heater and sensor to minimize shaking bath fluids and protect sample and operators from direct contact
- Shaking carriage is removable and can be assembled outside the bath; no direct contact with the bath fluid
- Included bath cover prevents liquid losses, the gable type roof ensures no-dripping into the test samples directly
- Included SUS 304 spring wire rack consists double column for various setting of glassware



BS-31 included gable cover and spring wire rack

Included Accessories

- Stainless steel gable type cover
- Spring wire racks

Optional Accessories

- Universal platform, Dedicated platform, Flask clamps
- Test tube racks

See page 55

Specifications & Ordering Informations

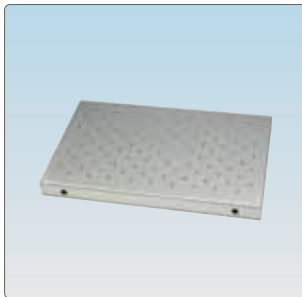


Model		BS-06	BS-11	BS-21	BS-31
Bath volume (L/cu ft)		17.0 / 0.6	25.0 / 0.9	37.0 / 1.3	55.0 / 1.9
Working Temperature Range (°C/°F)		Amb. +5 to 100 / Amb. +9 to 212			
Temperature Stability ¹⁾ (± °C/°F)		0.2 / 0.36			
Shaking system	Motion, frequency (RPM)	Reciprocating, 20 to 180			
	Recip stroke length (mm / inch)	25, 30, 35 / 1.0, 1.2, 1.4 Available – Standard 30 / 1.2			
Dimensions	Bath opening/depth (W×L, D) (mm / inch)	109×243, 235 / 4.3×9.6, 9.3	229×243, 235 / 9.0×9.6, 9.3	389×243, 235 / 15.3×9.6, 9.3	670×350, 235 / 21.2×11.5, 9.3
	Overall (W×L×H) (mm / inch)	430×440×355 / 16.9×17.3×14.0	550×440×355 / 21.7×17.3×14.0	710×440×355 / 28.0×17.3×14.3	860×490×355 / 33.9×19.3×14.0
	Net weight (kg / lbs)	26.0 / 57.0	30.0 / 66.0	35.0 / 77.0	42.0 / 93.0
	Electrical Requirements (230V, 60Hz)	3.7A	4.6A	8.9A	8.9A
Cat. No.	AAH44061K	AAH44111K	AAH44211K	AAH44311K	
Electrical Requirements (230V, 50Hz)	3.7A	4.6A	8.9A	8.9A	
Cat. No.	AAH44062K	AAH44112K	AAH44212K	AAH44312K	
Electrical Requirements (120V, 60Hz)	7.1A	8.8A			
Cat. No.	AAH44063U	AAH44133U			

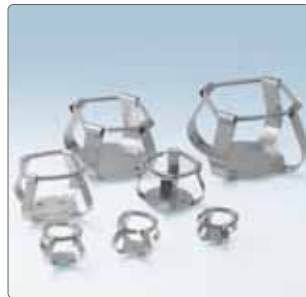
* BS-21,31 are provided ONLY for 230 voltage.

1) Technical data (according to DIN 12876)

for Shaking Heating Baths



Universal platforms



Flask clamps



Dedicated platforms



Test tube racks

Universal platforms & Flask clamps

The universal platforms provide flexibility for mixing different size test tubes and glassware on a single platform. Available variety size of clamps for Erlenmeyer flasks. (only for BS series)

		BS-06	BS-11	BS-21	BS-31
Universal platform Cat. No.		AAA44521	AAA44522	AAA44523	AAA44524
Max. mountable flask clamps*					
Cat. No.	Erlenmeyer flask size				
AAA23550	for 50mL	9	12	20	32
AAA23551	for 100mL	3	9	15	24
AAA23552	for 250mL	2	4	8	12
AAA23556	for 300mL	2	4	8	12
AAA23553	for 500mL	2	4	6	12
AAA23554	for 1L	1	2	4	6
AAA23555	for 2L ◇	-	1	2	3
AAA23557	for 2.8L ◇	-	1	1	2

◇ 2 and 2.8L flasks must be used with opening the bath cover by height problem.
* Flask clamps for Universal platform are each sold separately.

Dedicated platforms

If using a single flask size only, the dedicated platforms provide maximum capacity, and come with clamps installed. Provided standard clamp sizes are 250mL and 500mL, but possibly provide the other size of clamps also. (only for BS series)

Cat. No.	Description
AAA44531	An universal platform for BS-06 with 250mL flask clamps 2ea on
AAA44532	An universal platform for BS-06 with 500mL flask clamps 2ea on
AAA44541	An universal platform for BS-11 with 250mL flask clamps 4ea on
AAA44542	An universal platform for BS-11 with 500mL flask clamps 4ea on
AAA44551	An universal platform for BS-21 with 250mL flask clamps 8ea on
AAA44552	An universal platform for BS-21 with 500mL flask clamps 6ea on
AAA44561	An universal platform for BS-31 with 250mL flask clamps 12ea on
AAA44562	An universal platform for BS-31 with 500mL flask clamps 12ea on

* A dedicated platform is sold with setting each max. mountable amount of flask clamps on.

Test tube racks

Highly durable stainless steel racks with adjustable angle and tube height support. Do not need any other base plates to use it, simply release and mount racks directly.

Cat. No.	Description	Insert capacity of racks*			
		BS-06	BS-11	BS-21	BS-31
AAA44581	for 86 test tubes	1EA	2EA	3EA	4EA
AAA44582	for 86 test tubes				
AAA44583	for 58 test tubes				
AAA44585	for 32 test tubes				
AAA44586	for 19 test tubes				

* No declination

※ In addition to providing standard accessories, we will manufacture customized accessories to meet your specific requirements. Contact us for details.