

# Heating Bath



## General Application

General experiments: Determination of coliform, dissolution of samples, microbial experiments, bacteria experiments, cell cultures, etc.

	Description	Temp. Range (°C/°F)	Max. Temp. Stability (°C/°F)	Volume (L / cu ft)	Model	Page
Heating Bath	<b>General</b> <ul style="list-style-type: none"> <li>Temperature calibration and timer function.</li> <li>Protection against low fluid level and dry running.</li> </ul>	Amb. +7 to 100 / Amb. +12.6 to 212	0.3 / 0.54 at 50°C	3.5, 11.5, 20 / 0.1, 0.4, 0.7	BW3-G	50
	<b>Agitator Dual</b> <ul style="list-style-type: none"> <li>Improved distribution by agitation.</li> <li>2-in-1 model saves space.</li> </ul>	Amb. +5 to 100 / Amb. +9 to 212	0.1 / 0.18 at 50°C	3.5, 11.5, 20 / 0.1, 0.4, 0.7	BW-H	51
	<b>Economy</b> <ul style="list-style-type: none"> <li>Simple-scale temperature control.</li> <li>Automatic power cut-off system against overheating.</li> </ul>	Amb. +7 to 100 / Amb. +12.6 to 212	0.4 / 0.72 at 50°C	3.5, 11.5, 20 / 0.1, 0.4, 0.7	BW-B	52
	<b>Visible</b> <ul style="list-style-type: none"> <li>Intuitive viewing window for convenient internal observation</li> <li>Suitable for viscosity measurement as well.</li> </ul>	Amb. +5 to 150 / Amb. +9 to 302	0.1 / 0.18 at 50°C	25, 40 / 0.9, 1.4	VB-G	54
	<b>Shaking</b> <ul style="list-style-type: none"> <li>Provides reliable reciprocating motion</li> <li>Convenient structure for sample handling</li> </ul>	Amb. +5 to 100 / Amb. +9 to 212	0.1 / 0.18 at 50°C	17, 25, 37, 55 / 0.6, 0.9, 1.3, 1.9	BS	56
Others	<b>Cold Trap</b> <ul style="list-style-type: none"> <li>Trap for water, organic solvents, etc.</li> <li>Possible to use in cooling bath.</li> </ul>	Down to -40 / -40	N/A	4.8 / 0.17	CTB	59

※ The contents of the above and the contents of this catalog may differ depending on the specific model and conditions of use. For the information about the features and specifications that applying to each models, please check the information on the corresponding page of each models.



Satisfaction with the requirements of European regulations and guidelines.



Real-time equipment monitoring and control system using mobile app.



Registered safety patent based on JEIO TECH's proprietary technology.



Eco-friendly product that has passed environmental impact assessment tests.



Possible to set end time or start time of device operation.



PC communication via RS-232 / RS-485 / USB port.



More precise temperature control through 3-point temperature calibration.



More precise temperature control through temperature calibration.



Over temperature protection function.



Alarm if the water is low level.



It memorizes the state of power failure and operates automatically when power is restored.



2 year warranty free A/S.

# Heating Bath



## Constant temperature bath with proven performance and useful functions applying Lab Companion's patented safety system

- > **More stable temperature control**  
Optimized Microprocessor PID control for more accurate temperature control.
- > **Optimized temperature controls**  
Auto-tuning function enabling optimal control even when room temperature or set value is changed frequently.
- > **Temperature calibration function**  
Optimized Microprocessor PID control for more accurate temperature control.
- > **Convenient timer function provided**  
Dual wait on/off timer modes.  
(1 min. to 999 hr. 59 min.)
- > **Top-grade overheating prevention system (Lab Companion's patent)**  
Even if a failure occurs in the device control unit, the safety function is activated so that it is preferentially operated.
- > **Over temperature shutdown function**  
Safety structure with shutdown function using over temperature limiter in case of overheating.
- > **Detection of solution level (BW3, VB)**  
Detecting the level of solution in the bath and stops the device and notifies the user when the fluid level is low.
- > **Convenient solution drainage (BW3, VB, BS)**  
Drain Valve is included as standard, making it easy and convenient to discharge solution in the bath.

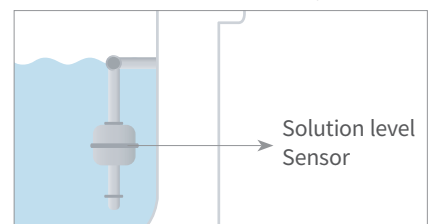
※ Some of the above contents are limited to specific models.



Simultaneously displays set temperature and actual temperature.



Safe use with over temperature protection function.



Warning alarm when water level is low.



Provides optimal choice for diverse experiment needs  
**Model series according to function classification and usage**



**General**



**Agitator**



**Economy**



**Visible**

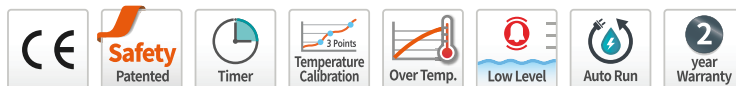


**Shaking**

<b>Main Feature</b>	Representative water bath with advanced features and specifications	Dual model with agitation function and independent control	Economical water bath for easy use	Convenient for internal observation and easy to measure viscosity	Precision water bath with 180rpm shaking function
<b>Technical Feature</b>	Auto-tuning	Auto-tuning	-	Auto-tuning	Auto-tuning
	Calibration	Calibration	-	Calibration	Calibration
	Timer	-	-	Timer	Timer
	-	-	-	Communication	-
	Drain Valve	-	-	Drain Valve	Drain Valve
<b>Safety</b>	Over Temp.	Over Temp.	Over Temp.	Over Temp.	Over Temp.
	Water Level	-	-	Water Level	-
	Controller Lock	Controller Lock	-	Controller Lock	-

# Heating Bath

## General type



## Representative water bath with advanced features and specifications.

### Structural Functional Features

- Drain valve for easy draining of bath solution. (except for BW3-05G model)
- Convenient structure for sample handling with device control part located on the inside.
- Convenient for carrying and moving with handles on the left and right sides.
- The internal bath is integral structure. It is made of stainless steel and has excellent durability.
- Compact design for excellent space utilization.

### Use Convenience Features

- Clear VFD panel for clear information display.
- Microprocessor PID method for precise temperature control.
- Optimized temperature control with temperature auto-tuning.
- 3-point calibration function minimizes temperature difference.
- Wait On/Off timer. (up to 999 hours 59 minutes)
- Save and use 3 frequently used temperatures.
- Automatic restart of operation when power is restored after sudden power failure.

### Outstanding Safety

- Top-rated overheating prevention system. (registration KR 10-0397583)
- Over temperature limit function.
- Safe structure in which the heater, sensor, and pump inside the bath are separated by covering plates.
- Malfunction prevented by controller lock function.
- Self-diagnosis function to check abnormal condition of temperature sensor.



BW3-05G



Larger and brighter clear VFD panels intuitively provide device operation information.

## Specification

Model		BW3-05G	BW3-10G	BW3-20G
Bath volume (L / cu ft)		3.5 / 0.1	11.5 / 0.4	20 / 0.7
Temperature	Working temp. range (°C / °F)	Amb. +7 to 100 / Amb. +12.6 to 212	Amb. +7 to 100 / Amb. +12.6 to 212	Amb. +7 to 100 / Amb. +12.6 to 212
	Temp. stability at 50°C (±°C / °F)	0.4 / 0.72	0.3 / 0.54	0.3 / 0.54
	Heat up time to 70°C (min)	34	36	44
Dimension	Bath opening / depth (W x L, D) (mm / inch)	240 x 136, 150 / 9.4 x 5.4, 5.9	300 x 240, 200 / 11.8 x 9.5, 7.9	498 x 300, 200 / 19.6 x 11.8, 7.9
	Exterior (W x L x H) (mm / inch)	307 x 200 x 264 / 12.1 x 7.9 x 10.4	360 x 300 x 294 / 14.2 x 11.8 x 11.6	564 x 356 x 294 / 22.2 x 14 x 11.6
	Net weight (kg / lbs)	6.5 / 14.3	10 / 22	18.5 / 40.8
Electrical requirements (230V, 50/60Hz, A)		3	4.3	8.7
Cat. No.		AAH41305K	AAH41315K	AAH41325K
Electrical requirements (120V, 60Hz, A)		5.8	8.3	8.3
Cat. No.		AAH41306U	AAH41316U	AAH41326U

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※ Technical data (according to DIN 12876)

※ Bath fluid : Water

Accessories Page 53 Cover, Spring Wire Rack, Half Shelf Adjuster, Test Tube Rack

# Heating Bath Agitator type



## Dual model with agitation function and independent control.

### Structural Functional Features

- Incorporates agitation function by magnetic stirring to mix solution uniformly and improve temperature distribution.
- Dual type is a model series that allows for independent temperature control for each bath and also reduces space and costs of experiments.
- Compact design for excellent space utilization.
- The internal bath is integral structure. It is made of stainless steel and has excellent durability.
- The control part at the bottom front is tilted, making it easier to set up the product and check information.
- Convenient for carrying and moving with handles on the left and right sides.



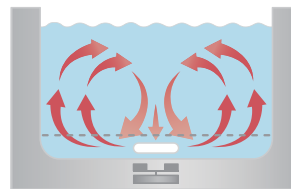
**BW-0510H**

### Use Convenience Features

- Microprocessor PID method for precise temperature control.
- Optimized temperature control with temperature auto-tuning.
- Calibration function minimizes temperature difference.
- Save and use 3 frequently used temperatures.
- Possible to select whether to use the agitation function or not, and scale-type agitation speed control makes it easy to operate.
- Automatic restart of operation when power is restored after sudden power failure.

### Outstanding Safety

- Top-rated overheating prevention system. (registration 10-0397583)
- Over temperature limit function.
- Malfunction prevented by controller lock function.
- Safe structure in which the heater, sensor, and pump inside the bath are separated by covering plates.
- If an error occurs during operation, the details of the error are shown on the display and an alarm is sounded.



Circulation of solution by an agitator



**BW-10H**

with Gable Cover & Test Tube Rack (option)

## Specification

Model		BW-05H	BW-10H	BW-20H	BW-0505H	BW-0510H	BW-1010H	BW-1020H
<b>Type</b>		Single Bath	Single Bath	Single Bath	Dual Bath	Dual Bath	Dual Bath	Dual Bath
<b>Bath volume (L / cu ft)</b>		3.5 / 0.1	11.5 / 0.4	20 / 0.7	35 & 35 / 0.1 & 0.1	35 & 11.5 / 0.1 & 0.4	11.5 & 11.5 / 0.4 & 0.4	11.5 & 20 / 0.4 & 0.7
<b>Temperature</b>	Working temp. range (°C / °F)	Amb. +5 to 100 / Amb. +9 to 212	Amb. +5 to 100 / Amb. +9 to 212	Amb. +5 to 100 / Amb. +9 to 212	Amb. +5 to 100 / Amb. +9 to 212	Amb. +5 to 100 / Amb. +9 to 212	Amb. +5 to 100 / Amb. +9 to 212	Amb. +5 to 100 / Amb. +9 to 212
	Temp. stability at 50°C (±°C / °F)	0.1 / 0.18	0.1 / 0.18	0.1 / 0.18	0.1 / 0.18	0.1 / 0.18	0.1 / 0.18	0.1 / 0.18
	Heat up time to 70°C (min)	25	45	50	25 & 25	25 & 45	45 & 45	45 & 50
<b>Dimension</b>	Bath opening / depth (W x L, D) (mm / inch)	240 x 136, 150 / 9.4 x 5.4, 5.9	300 x 240, 200 / 11.8 x 9.5, 7.9	498 x 300, 200 / 19.6 x 11.8, 7.9	240 x 136, 150 & 240 x 136, 150	240 x 136, 150 & 300 x 240, 200	300 x 240, 200 & 300 x 240, 200	300 x 240, 200 & 498 x 300, 200
	Exterior (W x L x H) (mm / inch)	307 x 216 x 266 / 12.1 x 8.5 x 10.5	364 x 316 x 318 / 14.3 x 14.4 x 12.5	564 x 372 x 318 / 22.2 x 14.6 x 12.5	590 x 216 x 265 / 23.2 x 8.5 x 10.4	544 x 316 x 318 / 21.4 x 12.4 x 12.5	706 x 300 x 318 / 27.8 x 11.8 x 12.5	844 x 372 x 318 / 33.2 x 14.6 x 12.5
	Net weight (kg / lbs)	6.5 / 14.3	9.5 / 21	15.5 / 34.2	12.3 / 27.1	15 / 33.1	17.3 / 38.1	20.7 / 45.6
<b>Electrical requirements (230V, 50/60Hz, A)</b>		3.0	4.3	8.7	3 & 3	3 & 4.3	4.3 & 4.3	4.3 & 8.7
<b>Cat. No.</b>		<b>AAH45115K</b>	<b>AAH45125K</b>	<b>AAH45135K</b>	<b>AAH47115K</b>	<b>AAH47125K</b>	<b>AAH47135K</b>	<b>AAH47145K</b>
<b>Electrical requirements (120V, 60Hz, A)</b>		5.8	8.3	8.3	5.8 & 5.8	5.8 & 8.3	8.3 & 8.3	8.3 & 8.3
<b>Cat. No.</b>		<b>AAH45113U</b>	<b>AAH45123U</b>	<b>AAH45133U</b>	<b>AAH47113U</b>	<b>AAH47123U</b>	<b>AAH47133U</b>	<b>AAH47143U</b>

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※ Technical data (according to DIN 12876)

※ Bath fluid : Water, Using agitator

**Accessories** Page 53 Cover, Spring Wire Rack, Half Shelf Adjuster, Test Tube Rack

# Heating Bath Economy type



## Economical water bath for easy use.

### Structural Functional Features

- The internal bath is integral structure and it is made of stainless steel and has excellent durability.
- Compact design for excellent space utilization.
- The control part at the bottom front is tilted, making it easier to set up the product and check information.
- Convenient to use as the power switch is located on the front.

### Use Convenience Features

- Intuitive and scale-type easy temperature setting make it suitable for simple experiments.
- Mounting accessories of various types and sizes convenience. (option)

### Outstanding Safety

- Safe structure in which the heater, sensor, and pump inside the bath are separated by covering plates.
- Over temperature limit function.



**BW-10B**

with Gable Cover & Test Tube Rack (option)



## Specification

Model		BW-05B	BW-10B	BW-20B
<b>Bath volume (L / cu ft)</b>		3.5 / 0.1	11.5 / 0.4	20 / 0.7
<b>Temperature</b>	Working temp. range (°C / °F)	Amb. +7 to 100 / Amb. +12.6 to 212	Amb. +7 to 100 / Amb. +12.6 to 212	Amb. +7 to 100 / Amb. +12.6 to 212
	Temp. stability at 50°C (±°C / °F)	0.4 / 0.72	0.5 / 0.9	0.5 / 0.9
	Heat up time to 70°C (min)	25	51	68
<b>Dimension</b>	Bath opening / depth (W x L, D) (mm / inch)	240 x 136, 115 / 9.4 x 5.4, 4.5	300 x 240, 165 / 11.8 x 9.5, 6.5	498 x 300, 165 / 19.6 x 11.8, 6.5
	Exterior (W x L x H) (mm / inch)	303 x 242 x 245 / 11.9 x 9.5 x 9.6	357 x 330 x 290 / 14.1 x 13 x 11.4	564 x 392 x 290 / 22.2 x 15.4 x 11.6
	Net weight (kg / lbs)	6.5 / 14.3	10 / 22	18.5 / 40.8
<b>Electrical requirements (230V, 50/60Hz, A)</b>		3	4.3	8.7
<b>Cat. No.</b>		<b>AAH46012K</b>	<b>AAH46022K</b>	<b>AAH46032K</b>
<b>Electrical requirements (120V, 60Hz, A)</b>		5.8	8.3	8.3
<b>Cat. No.</b>		<b>AAH46013U</b>	<b>AAH46023U</b>	<b>AAH46033U</b>

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※ Technical data (according to DIN 12876)

※ Bath fluid : Water

## Accessories Page 53

Cover, Spring Wire Rack, Half Shelf Adjuster, Test Tube Rack

# Accessories



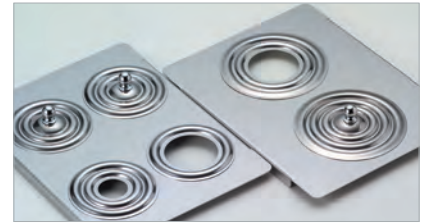
### Gable Type

- Prevents condensed water from falling onto specimen with gable roof shape.
- Transparency making it convenient internal observation.



### Flat Type

- Made from stainless steel with high corrosion resistance even with long-term use.
- Convenient handle.



### Open Ring Type

- Select the ring size according to flask size.
- Multiple rings in one hole allow for adjustment.



### Spring Wire Rack

- It has a lattice-shaped double spring structure, which makes it easy to fix various kinds of experiment containers and the height can also be easily adjusted.
- Excellent corrosion resistance as made from stainless steel.



### Half Shelf Adjuster

- Easy-to-use pedestal structure when using low-height experiment container.
- Convenient height adjustment.
- Convenient for handling with handles on either side.



### Test Tube Rack

- Fix test tubes of various sizes.
- Excellent durability as made from stainless steel.
- Structure allowing tilt adjustment.

Model		BW3-05G	BW3-10G	BW3-20G	BW-05H	BW-10H	BW-20H	BW-05B	BW-10B	BW-20B	
Cover	Gable Type	AAA45531	AAA45532	AAA45533	AAA45531	AAA45532	AAA45533	AAA45531	AAA45532	AAA45533	
	Flat Type	AAA45541	AAA45542	AAA45543	AAA45541	AAA45542	AAA45543	AAA45541	AAA45542	AAA45543	
	Open Ring (mm / inch)	Ø80 / Ø3.1 x 2ea	AAA45521	-	-	AAA45521	-	-	AAA45521	-	-
		Ø80 / Ø3.1 x 4ea	-	AAA45522	-	-	AAA45522	-	-	AAA45522	-
		Ø80 / Ø3.1 x 8ea	-	-	AAA45523	-	-	AAA45523	-	-	AAA45523
		Ø110 / Ø4.3 x 1ea	AAA45524	-	-	AAA45524	-	-	AAA45524	-	-
		Ø110 / Ø4.3 x 2ea	-	AAA45525	-	-	AAA45525	-	-	AAA45525	-
		Ø110 / Ø4.3 x 6ea	-	-	AAA45527	-	-	AAA45527	-	-	AAA45527
		Ø185 / Ø7.3 x 1ea	-	AAA45526	-	-	AAA45526	-	-	AAA45526	-
	Ø185 / Ø7.3 x 2ea	-	-	AAA45528	-	-	AAA45528	-	-	AAA45528	
Rack <sup>1)</sup>	Spring Wire Rack	-	AAA45502	AAA45503	-	AAA45502	AAA45503	-	AAA45502	AAA45503	
	Half Shelf Adjuster	AAA45511	AAA45512	AAA45513	AAA45511	AAA45512	AAA45513	AAA45511	AAA45512	AAA45513	
	Test Tube Rack (mm / inch)	Ø8 / Ø0.3 x 50 tubes	AAA41531	-	-	AAA41531	-	-	AAA41531	-	-
		Ø10 / Ø0.4 x 50 tubes	AAA41532	-	-	AAA41532	-	-	AAA41532	-	-
		Ø12 / Ø0.5 x 33 tubes	AAA41533	-	-	AAA41533	-	-	AAA41533	-	-
		Ø16 / Ø0.6 x 16 tubes	AAA41535	-	-	AAA41535	-	-	AAA41535	-	-
		Ø25 / Ø1.0 x 10 tubes	AAA41539	-	-	AAA41539	-	-	AAA41539	-	-
		Ø8 / Ø0.3 x 176 tubes	-	AAA45551	AAA45551	-	AAA45551	AAA45551	-	AAA45551	AAA45551
		Ø10 / Ø0.4 x 176 tubes	-	AAA45552	AAA45552	-	AAA45552	AAA45552	-	AAA45552	AAA45552
		Ø12 / Ø0.5 x 84 tubes	-	AAA45554	AAA45554	-	AAA45554	AAA45554	-	AAA45554	AAA45554
		Ø16 / Ø0.6 x 68 tubes	-	AAA45556	AAA45556	-	AAA45556	AAA45556	-	AAA45556	AAA45556
		Ø25 / Ø1.0 x 33 tubes	-	AAA45561	AAA45561	-	AAA45561	AAA45561	-	AAA45561	AAA45561
	Max. mounting quantity	1ea	1ea	2ea	1ea	1ea	2ea	1ea	1ea	2ea	

※ The accessories for Dual Bath models in the BW-H series are identical to those for each Bath size in the Single Bath models.

1) These accessories cannot be use with flat cover. Please use gable cover.



# Heating Bath

## Visible type

### Convenient for internal observation and easy to measure viscosity

#### Structural Functional Features

- Excellent temperature variation with internal circulation pump.
- Includes 5-step pump circulation speed adjustment function.
- Includes cooling line connecting with external cooling equipment.
- Bath cover provided as standard for easy viscometer installation.
- Convenient to use thermometer hole in bath cover.
- Drain valve for easy draining of bath solution.
- Convenient structure for sample handling due to the dropped location of the internal bath and device control part.

#### Use Convenience Features

- Temperature adjustment control with 0.01°C resolution.
- Microprocessor PID method for precise temperature control.
- Optimized temperature control with temperature auto-tuning.
- Calibration function minimizes temperature difference.
- Wait On/Off timer. (up to 99 hours 59 minutes)
- Automatic restart of operation when power is restored after sudden power failure.
- Save and use 3 frequently used temperatures.
- Low level limiter.
- Operation and data management with computer connection.
- Monitor via mobile app anytime, anywhere with LC Connected. (mobile monitoring system) (when purchased LC GreenBox)

#### Outstanding Safety

- Top-rated overheating prevention system. (registration KR 10-0397583)
- Over temperature limit function.
- Malfunction prevented by controller lock function.
- Self-diagnosis function to check abnormal condition of temperature sensor.



#### VB-40G

with Bath Cover (standard)

### Specification

Model		VB-25G	VB-40G
<b>Bath volume (L / cu ft)</b>		25 / 0.9	40 / 1.4
<b>Temperature</b>	Working temp. range (°C / °F)	Amb. +5 to 150 / Amb. +9 to 302	Amb. +5 to 150 / Amb. +9 to 302
	Temp. stability at 50°C (±°C / °F)	0.1 / 0.18	0.1 / 0.18
	Heat up time to 70°C (min)	35	55
<b>Dimension</b>	Bath opening / depth (W x L, D) (mm / inch)	145 x 265, 330 / 5.7 x 10.4, 13	295 x 265, 330 / 11.6 x 10.4, 13
	Cover lids / Hole for thermometer (mm)	5ea / Ø51, 1ea / Ø12.6	8ea / Ø51, 1ea / Ø12.6
	Exterior (W x L x H) (mm / inch)	492 x 374 x 536 / 19.4 x 14.7 x 21.1	642 x 374 x 536 / 25.3 x 14.7 x 21.1
	Net weight (kg / lbs)	28 / 61.7	37 / 81.6
<b>Electrical requirements (230V, 50/60Hz, A)</b>		13	13
<b>Cat. No.</b>		<b>AAH43302K</b>	<b>AAH43402K</b>

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### Superior Internal Observation

- The front and back parts of the bath are made of transparent glass and can be easily used for experiments that require internal observation, viscosity measurement, etc.
- The front/rear view windows are made of reinforced glass with double-sided structure on each side and have excellent insulation and tightness.



### Convenient Viscometer Fixation

- Hole and hole cover for viscometer installation can be mounted on stainless steel bath cover.
- Viscometer holder (option) to fix the viscometer to the bath to perform viscosity measurement.



## Accessories

### Viscometer Holder

- Holder that can fix to the hole in the bath cover by fixing the viscometer.
- Convenient structure for detachment and mount of viscometer.

Cat. No.	Max. Mountable Holders	
	VB-25G	VB-40G
AAA43501	5	8



### Bath Circulator

- External circulation required for maintaining low temperature when using transparent constant temperature water bath at temperatures under high temperature.
- Connects to the cooling line of the transparent constant temperature water bath.
- For more information on the Bath Circulator, see [Page 18](#)



### LC GreenBox

- Real-time monitoring and control of device operation via mobile app.
- Up to 4 devices can be connected.



# Heating Bath

## Shaking type

### Precision water bath with 180rpm shaking function

#### ▣ Structural Functional Features

- Simultaneously maintains the sample at a precise temperature while providing a reciprocal shaking environment of up to 180rpm.
- Excellent temperature variation due to shaking motion.
- Drain valve for easy draining of bath solution.
- Upper part is made of stainless steel and is easy to maintain.
- Convenient for carrying and moving with handles on the left and right sides.
- Vibration is minimized during shaking by using BLDC motor.
- Convenient structure for sample handling due to the dropped location of the internal bath and device control part.



BS-31

#### ▣ Use Convenience Features

- Simultaneously displays temperature and shaking speed.
- Temperature control and shaking can be set independently.
- Prevents sample run-off thanks to smooth shaking start.
- Microprocessor PID method for precise temperature control.
- Optimized temperature control with temperature auto-tuning.
- Calibration function minimizes temperature difference.
- Wait On/Off timer. (up to 99 hours 59 minutes)
- Automatic restart of operation when power is restored after sudden power failure.



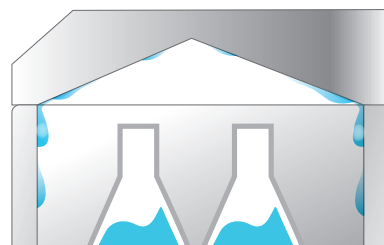
Spring Wire Rack (1ea: standard)

#### ▣ Outstanding Safety

- Top-rated overheating protection system. (registration KR 10-0397583)
- Over temperature limit function.
- Self-diagnosis function to check abnormal condition of temperature sensor.

## Inner Gable Cover

- Standard provided cover minimizes water evaporation.
- Gable roof-shape interior prevents condensed water from falling onto specimen.
- Convenient use at high temperatures with cover handle.



## Spring Wire Rack

- One supplied made of stainless steel.
- Easy to maintain as structure makes for convenient attachment to body.
- It has a lattice-shaped double spring structure, which makes it easy to fix various kinds of experiment containers and the height can also be easily adjusted.



Cat. No.	Model
AAA44571	BS-06
AAA44572	BS-11
AAA44573	BS-21
AAA44574	BS-31

## Specification

Model		BS-06	BS-11	BS-21	BS-31
<b>Bath volume (L / cu ft)</b>		17 / 0.6	25 / 0.9	37 / 1.3	55 / 1.9
<b>Temperature</b>	Working temp. range (°C / °F)	Amb. +5 to 100 / Amb. +9 to 212	Amb. +5 to 100 / Amb. +9 to 212	Amb. +5 to 100 / Amb. +9 to 212	Amb. +5 to 100 / Amb. +9 to 212
	Temp. stability at 50°C (±°C / °F)	0.1 / 0.18	0.1 / 0.18	0.2 / 0.36	0.2 / 0.36
<b>Shaking system</b>	Motion type	Reciprocal	Reciprocal	Reciprocal	Reciprocal
	Frequency (rpm)	20 to 180	20 to 180	20 to 180	20 to 180
	Stroke length (mm / inch)	30 / 1.2 (25, 35 / 1.0, 1.4 available)	30 / 1.2 (25, 35 / 1.0, 1.4 available)	30 / 1.2 (25, 35 / 1.0, 1.4 available)	30 / 1.2 (25, 35 / 1.0, 1.4 available)
<b>Dimension</b>	Bath opening / depth (W x L, D) (mm / inch)	199 x 300, 235 / 7.8 x 11.8, 9.3	319 x 300, 235 / 12.6x11.8, 9.3	479 x 300, 235 / 18.9x11.8, 9.3	629 x 350, 235 / 24.8x13.8, 9.3
	Exterior (W x L x H) (mm / inch)	430 x 440 x 355 / 16.9 x 17.3 x 14	550 x 440 x 355 / 21.7 x 17.3 x 14	710 x 440 x 355 / 28 x 17.3 x 14.3	860 x 490 x 355 / 33.9 x 19.3 x 14
	Net weight (kg / lbs)	26 / 57	30 / 66	35 / 77	42 / 93
<b>Electrical requirements (230V, 50Hz, A)</b>		3.7	4.6	8.9	11.1
<b>Cat. No.</b>	<b>AAH44062K</b>	<b>AAH44112K</b>	<b>AAH44212K</b>	<b>AAH44312K</b>	
<b>Electrical requirements (230V, 60Hz, A)</b>		3.7	4.6	8.9	11.1
<b>Cat. No.</b>	<b>AAH44061K</b>	<b>AAH44111K</b>	<b>AAH44211K</b>	<b>AAH44311K</b>	
<b>Electrical requirements (120V, 60Hz, A)</b>		7.1	8.8	-	-
<b>Cat. No.</b>	<b>AAH44063U</b>	<b>AAH44113U</b>			

※ The lowest temperature that can be controlled depends on changes in room temperature and sample temperature.

Therefore, please contact the distributor of our products before purchasing for technical consultation.

※ Technical data (according to DIN 12876)

※ Bath fluid : Water

## Accessories Page 58

Flask Clamp, Universal Platform, Dedicated Platform, Test Tube Rack

# Accessories

## Flask Clamp

- Clamp being able to hold an erlenmeyer flask.
- Excellent durability as made of stainless steel.
- Equipped with flask clamps of the desired size/quantity on the universal platform and used inside the bath.

Cat. No.	Flask Clamp	Max. Mountable Flask Clamps			
		BS-06	BS-11	BS-21	BS-31
AAA23550	50 ml	9	12	20	32
AAA23551	100 ml	3	9	15	24
AAA23552	250 ml	2	4	8	12
AAA23556	300 ml	2	4	8	12
AAA23553	500 ml	2	4	6	12
AAA23554	1 L	1	2	4	6
AAA23555	2 L <sup>1)</sup>	-	1	2	3
AAA23557	2.8 L <sup>1)</sup>	-	1	1	2

1) 2 L and 2.8 L flasks can be used with the bath cover opened.



## Universal Platform

- Accessories for mounting flask clamp, test tube rack, etc. inside bath.
- Spring wire rack can be used attached and used instead of spring part.

Cat. No.	Model
AAA44521	BS-06
AAA44522	BS-11
AAA44523	BS-21
AAA44524	BS-31



## Dedicated Platform

- Set of 250 ml/500 ml flask clamps mounted on Universal Platform.
- Spring wire rack can be used attached and used instead of spring part.

Cat. No.	Flask Clamps	Model
AAA44531	250 ml x 2ea	BS-06
AAA44532	500 ml x 2ea	
AAA44541	250 ml x 4ea	BS-11
AAA44542	500 ml x 4ea	
AAA44551	250 ml x 8ea	BS-21
AAA44552	500 ml x 6ea	
AAA44561	250 ml x 12ea	BS-31
AAA44562	500 ml x 12ea	



## Test Tube Rack

- Fix test tubes of various sizes.
- Excellent durability as made of stainless steel.
- Structure allows tilt adjustment.
- Spring wire rack can be used attached and used instead of spring part.

Cat. No.	Description (mm / inch)	Max. Quantity of Racks
AAA44581	ø8 / ø0.3 x 86 Tubes	BS-06 : 1ea BS-11 : 2ea BS-21 : 3ea BS-31 : 4ea
AAA44582	ø10 / ø0.4 x 86 Tubes	
AAA44583	ø12 / ø0.5 x 58 Tubes	
AAA44585	ø16 / ø0.6 x 32 Tubes	
AAA44586	ø25 / ø1.0 x 19 Tubes	



# Cold Trap Bath



## Collect organic solvent at as low as -40°C / -40°F

### Structural Functional Features

- Capture moisture, organic solvents, etc. at as low as -40°C / -40°F.
- 2 glass traps provided as standard.
- Glass trap is simple to install and fix, and it's easy to handle collected liquid/solvents.
- Can be used in baths that requires rapid low temperature.
- Compact design makes installation convenient.
- Easy to clean condenser filter to maintain refrigeration efficiency with detachable condenser cover.

### Use Convenience Features

- Digitally displays the internal temperature at the front of the device.
- Provides the ability to dissolve and discharge ice or solid solvents inside.



CTB-10

## Accessories

### Glass Trap

- Ability to capture trapped solvents or moisture.

Cat. No.	Model
00FCA0001110	Glass Trap (1ea)



## Specification

Model		CTB-10
<b>Temperature range (°C / °F)</b>		Down to -40 / -40
<b>Material</b>	Bath external	Stainless steel, 1.2t, Double painted & baked
	Bath up desk	Stainless steel, 1.5t
	Insulation	Polyurethane foam (30mm)
	Refrigerator	1/2 HP, R-404A (LBP)
<b>Dimension</b>	Volume (L / cu ft)	4.8 / 0.17
	Bath (Ø x H, mm / inch)	210 x 204 / 8.3 x 8
	Glass trap (Ø x H, mm / inch)	60 x 262 / 2.4 x 103
	Exterior (W x D x H) (mm / inch)	360 x 465 x 555 / 14.1 x 18.3 x 21.9
	Net weight (kg / lbs)	46 / 101.4
<b>Electrical requirements (230V, 50/60Hz, A)</b>		4.5
<b>Cat. No.</b>		AAH62012K

# Oven & Furnace



Satisfaction with the requirements of European regulations and guidelines.



Intuitive operation with color touch display.



More precise temperature control through temperature calibration.



Warning alarm in case of deviation of temperature control.



PC communication via RS-232 / RS-485 / USB port.



Real-time equipment monitoring and control system using mobile app.



Digital Input / Output for external device interlock control.



Electronic over temperature protection system.



Possible to set end time or start time of device operation.



It memorizes the state of power failure and operates automatically when power is restored.



Registered safety patent based on JEIO TECH's proprietary technology.



More precise temperature control through 3-point temperature calibration.



Over temperature protection function.



Control of temperature / humidity / rpm / time, etc. through dedicated program.



2 year warranty free A/S.