

Safe and clean dry heating equipment without worrying about oil spillage, splashing, smoking or ignition

Dry block bath with stirrer

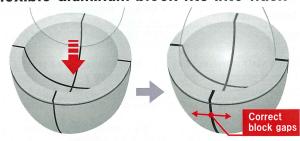
Model BBS + RCH-1000







Flexible aluminum block fits into flask



The aluminum block is designed in which it corrects the gap according to the variation of the glass vessel and expansion/contraction due to heat. There is no damage to the flask due to expansion/contraction during heating, and stable heat transfer performance is maintained at all times.

Eliminates dangers caused by oil bath



The aluminum block makes a clean and safe environment that eliminates the hazards of splashing, ignition, smoking, and hot oil spills during use.

Uniform and safe heating (up to 250°C)

The block is made of aluminum alloy, which provides good heat transfer throughout the block and prevents hot spots that are common in oil baths, thus ensuring uniform and safe heating.

SynFlex[™] series that can be combined in various ways to suit your applications



Aluminum beads bath system

Reagent distillation system for small volume

1L pear shaped flask system

5L non-contact stirring system

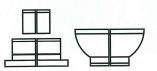
Soxhlet fat extraction system

Anhydrous solvent distillation system

Configuration



Reaction vessel Separable flask Pear & round shaped flask



Aluminum block Model BBS





Fix series 200 to 5000mL



Aluminum bath



Hot plate magnetic stirrer Model RCH-1000

SynFlex series can be combined with various configurations of vessel sizes and types, since aluminum blocks and optional parts can be selected according to the purpose of research.

■Specifications

Product name	Hot plate magnetic stirrer
Model	RCH-1000
Cat. No.	264288
Temperature control range	Max. 310℃ (temp. of hot plate)
Rotation speed range	50 to 1500rpm (at no load)
Stirrer capacity	10mL to 20L (water)
Safety function	Fuse, thermal fuse, self-diagnostic function (upper limiter)
Motor	DC brushless motor, 25W output
Heater	600W
Stirrer plate materials/size	Die-cast aluminum, ceramic coating, \$\phi\$ 135 mm
External dimension (mm)	165W x 275D x 90H
Power supply	220VAC, 630VA, 2.9A 50/60Hz

voltage, 50 Hz, and no load.

*When using BBS-3HLD, use it with rotation speed range of 400rpm or more. Select BBS-1HLD when lower speed ratation is required.

Accessories: External temperature sensor (Pt100 Ω), heat insulation plate for model BBS series

■Ultimate temperature (aluminum block BBS+stirrer RCH-1000)

Temp. control /accuracy	P.I.D. control, ±1 to 3℃				
Max. ultimate temperature (temp. of aluminum block)	250°C (Empty flask of 1L or smaller) 200°C (Empty flask of 2L) 180°C (Empty flask of 3L or bigger)				

Multi series (5 to 150mL)

Multi-series for small volume vessels consisting of a combination of adapters for each reaction vessel and single or triple holders



Fix Series for large capacity vessels for direct mounting of reaction vessels onto aluminum blocks





Pear/round shaped

Aluminum block

Hot plate with magnetic stirrer

Tube adapter Flask adapter Single holder Triple holder

Hot plate with magnetic stirrer

Single/triple holder

Holder	Model	Cat. No.
Single holder	BBS-1HLD	239810
Triple holder	BBS-3HLD	239820

Tube adapter

Adapter	Size	Model	Cat. No.
For test tubes	ф 12×8 pcs	BBS-12T8I	239940
TOT lest tubes	φ24×4 pcs	BBS-24T4I	239920
	50mL, φ38mm	BBS-38TI	248830
For separable	100mL, φ45mm	BBS-45TI	266590
flasks	100mL, ф 50mm	BBS-50TI	248840
	150mL, ф 60mm	BBS-60TI	239930

₹Model BBS-45TI is for single holder only. The size above is the diameter of glass vessel.

Flask adapter

Adapter	Volume	Standard	Size	Model	Cat. No.
	10mL	JIS	ф32mm	BBS-32RI ※1	239840
For noor	20mL	JIS	ф35mm	BBS-35RI ※2	239850
For pear shaped	30mL	JIS	ф 41mm	BBS-41RI ※1	239860
flask	50mL	JIS	ф 51mm	BBS-51RI ※3	239880
IIask	JUIL	ISO	ф 56mm	BBS-56EI ※1	240960
	100mL	ISO	ф 60mm	BBS-60EI ※1	240970
	TOURL	JIS	φ64mm	BBS-64RI ※3	239900
	5mL	ISO	ф 30mm	BBS-30RI	239830
	10mL	JIS	ф 32mm	BBS-32RI ※1	239840
_		ISO	ф 35mm	BBS-35RI ※2	239850
For	25mL	ISO	ф41mm	BBS-41RI	239860
round	ZJIIL	JIS	ф 45mm	BBS-45RI ※1	239870
shaped	50mL	ISO	ф51mm	BBS-51RI ※3	239880
flasks	JUIL	JIS	ф 53mm	BBS-53RI ※1	239890
	100ml	ISO	ф 64mm	BBS-64RI ※1	239900
	100mL	JIS	ф 65mm	BBS-65RI ※1	239910
	150mL	JIS	ф 75mm	BBS-75FI	245790

Flask torelance when using triple holder: +1mm (1), +0mm (**2), ±2mm (**3)

*The size above is the diameter of glass vessels.

List of stirring bar compatibility (for Multi series)

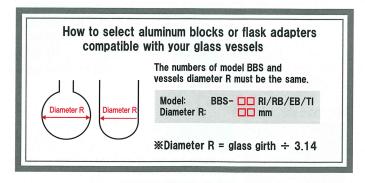
Model	Cyrinder	Ellipse	Oval	Football	Octagon
Single holder	×	0	0	0	0
Triple holder	0	×	0	0	×

Aluminum block

Adapter	Volume	Standard	Size	Model	Cat. No.
	200mL	JIS	ф76 mm	BBS-76EB	239950
For pear shaped flask	250mL	ISO	ф80 mm	BBS-80RB	240370
	300mL	JIS	ф85 mm	BBS-85RB	240380
	500mL	ISO/JIS	ф 100 mm	BBS-100EB	239960
IIask	1000mL	JIS	ф 133 mm	BBS-133EB	239970
	2000mL	JIS	ф 166 mm	BBS-166RB	239980
	200mL	JIS	ф80 mm	BBS-80RB	240370
	250mL	ISO	ф85 mm	BBS-85RB	240380
	300mL	JIS	ф93 mm	BBS-93RB	240390
	500mL	ISO	ф 105 mm	BBS-105RB	240400
For		JIS	ф 108 mm	BBS-108RB	240410
round	1000mL	ISO	ф131 mm	BBS-131RB	240420
shaped		JIS	ф 135 mm	BBS-135RB	240430
flasks	2000	ISO	ф 166 mm	BBS-166RB	239980
al januara	2000mL	JIS	ф 170 mm	BBS-170RB	239990
Weekl Mai	00001	ISO	ф 185 mm	BBS-185RB	240000
h sikatua.	3000mL	JIS	ф 200 mm	BBS-200RB	240010
sy Perdici	4000mL	ISO	ф 207 mm	BBS-207RB	240020
64.750	F000I	ISO	ф 223 mm	BBS-223RB	240030
1.00	5000mL	JIS	ф 230 mm	BBS-230RB	240040

※Flask tolerance : ±4 mm

*The size above is the diameter of the glass vessel.

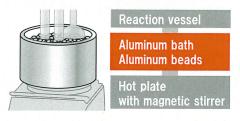


List of stirring bar compatibility (for Fix Series)

Model	Cyrinder	Ellipse	Oval	Football	Octagon
Fix series	×	0	0	0	0

Aluminum bath

Aluminum bath that can be used with a wide variety of vessels by placing aluminum beads in the bath





Aluminum bath model BBS-130AB Cat. No. 265770

Aluminum beads (2L) Cat. No. 262250

**Aluminum beads are not suitable for experiments that require temperature accuracy. Temperature conditions vary depending on the vessel shape, liquid volume, beads volume, and room temperature. Also, the temperature cannot be controlled by liquid or beads temperature.

Safety cover



Avoids the risk of burns and enhances heat retention.

Model BBS-1LSC (up to 1L) Cat. No. 240070 Model BBS-5LSC (2 to 5L) Cat. No. 240100

	Cat. No.	
For model BBS-1LSC	Pole for RCH (\$\phi\$ 10 x 450mm)	264790
	Mounting bracket for 1L safety cover	264800
	Clamp	234980
For model	ZC clamp x 2pcs	124560
BBS-5LSC	Stand base (2 to 5L)	240080

Small separable flask set



Large openings allow for easy removal of product and cleaning. The four types of small separable flasks (50, 100, and 150 mL) have multiple connections and can be used for a variety of applications.

	Vessel volume		Standard	Cat. No.
1	50mL	(with graduation)	φ38, 6-port (GL14×3, NS14/23×3)	248810
	100mL	(with graduation)	φ 50, 6-port (GL14×3, NS14/23×3)	248820
2	150mL	(without graduation)	φ 60, 3-port (NS14/23×2, NS19/26×1)	251070
3	150mL	(without graduation)	ф 60, 4-port (\$15/25×3, \$19/38×1)	251080

Catalyst screening vessel



Three types of catalyst screening vessels allow up to 24 small samples to be loaded simultaneously for atmospheric pressure and high pressure reaction screening. All vessels are subject to the same atmosphere and temperature conditions. Use the single holder BBS-1HLD to heat the vessels.

• Catalyst screening vessel: Maximum working pressure 5MPa

Product name	Volume	Model	Cat. No.
Catalyst	1.5 to 7.0mL x 6 pcs	HIP-7506	248370
screening	0.3 to 1.3mL x 18 pcs	HIP-7518	248380
vessel	0.1 to 0.8mL x 24 pcs	HIP-7524	248390
	alve on-head part e -100/0/2400kPa	HIP-HEAD2	248400

Microscale CSTR®



The Microscale CSTR is a fully mixed, continuous reactor consisting of six reaction baths connected next to each other to form a continuous flow reactor as a whole. It is also very effective for flow conditions involving solids. It can be used for various applications such as reaction, crystallization, etc.



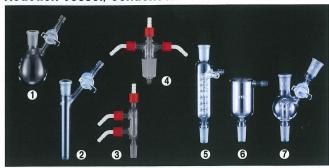
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Model	Synthesis scale	Reactor material	Cat. No.
HIP-CSTR-SUS		① Stainless steel (SUS316L)	278360
HIP-CSTR-PTFE	Approx. 14mL (Priming volume)	② PTFE	278370
HIP-CSTR-TK		③ Impervious graphite (Tokabate) TK11	278380

Aluminum block transfer handle

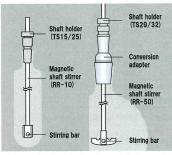
Product name	Model	Cat. No.
Adapter remover	BBS-01LAR	240280
Transport handle (up to 1L)	BBS-1LTH	240060
Transport handle (2 to 5L)	BBS-5LTH	240090

Reaction vessel, condenser



	Product name	Taper joint	Volume/OD	Cat. No.
U .	Pear shaped flask with 3-way cock	æ 1 € / 0 €	50mL·JIS	264200
		\$ 15/25	100mL·JIS	264210
	Pear shaped flask	⁄ሞ 4E /0E	50mL·JIS	264230
	Pear shaped flask with stop cock	\$ 15/25	100mL·JIS	264240
	Schlenk flask with 3-way cock	filtings.	ф 18 mm	264110
		\$ 15/25	ф 24 mm	264120
		ф 15/25	ф 30 mm	264130
			ф34 mm	264140
Schlenk flask with stop cock	Toksore: Tri		ф 18 mm	264150
	Schlenk flask	\$ 15/25	ф 24 mm	264160
	with stop cock		ф 30 mm	264170
			ф34 mm	264180
3	Small condenser	NS14/23	4 2 4 2 - 2 1 1 1	240120
	Ultra-small	\$ 15/25		240130
D	condenser	\$ 29/32	<u>-</u>	240140
5	Dimroth condenser	\$15/25	100 mm	271300
0	Dry ice condenser	\$ 15/25	<u> </u>	271310
7	Receiving trap	\$ 15/25	10mL	271320
		GL14	50mL	271330
		\$ 15/25	10mL	271340
		2-way cock	50mL	271350

Magnetic shaft stirrer



The stirring bar is fixed to the tip of the magnetic impeller and is suspended a few millimeters above the bottom of the flask (floating state). There is no risk of cracking or friction due to contact with the flask, preventing the stirring bar from flying off.

Operating temperature range: up to 180°C Operating speed range: up to 600rpm Shaft diameter: 8 mm

Shaft length (model RR-10/50): 300/400mm

Product name	Standard	Model	Cat. No. 240150	
Magnetic shaft stirrer	For small vessel	RR-10		
Magnetic shaft stirrer	For 3 to 5L flask	RR-50	248850	
Teflon® stirring bar (octagon)	ф 8x22mm (for RR-10)	MO-1	240910	
Teflon® Strong magnetic force	ф 8x25mm (for RR-10)	MO-2	240920	
stirring bar (octagon)	ф8×38mm (for RR-50)	ST-2L	213120	
Shaft holder	\$ 15/25, 1 pc	1.4	240930	
Silait liviuei	\$ 29/32, 1 pc		240940	
Conversion adapter	Top: \$29, Bottom: \$45	1 -4 1	248860	

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*The appearance and specifications of the products are subject to change without notice.