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Технические характеристики на циркуляционные ванны JSWB, JSOB, JSEB, JSIB, JSRC, JSCT, JSSB компании JSR

Laboratory

WATER BATH

JSWB-Series Heated Bath



- amb. +5 °C - 80 °C (99 °C)
- Constant Temperature
- Timer On / Off

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MODEL	CAPACITY	TEMPERATURE	ACCURACY
JSWB-06T(L)	6 L	JSWB-TL amb. + 5 °C - 80 °C	
JSWB-11T(L)	11 L	JSWB-T amb. + 5 °C - 99 °C	± 0.1 °C
JSWB-22T(L)	22 L		
JSWB-30T(L)	30 L		

JSOB-Series Digital OH Bath



- amb. +10 °C - 250 °C
- Constant Temperature
- Timer On / Off

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MODEL	CAPACITY	TEMPERATURE	ACCURACY
JSOB-100T	11 L	amb. + 10 °C - 250 °C	
JSOB-200T	20 L		± 1.0 °C
JSOB-300T	33 L		

JSVB-Series Visco-Sight Bath



- amb. +5 °C - 99 °C
- Constant Temperature
- Timer On / Off
- Glass Window
- Internal Circulation

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MODEL	CAPACITY	TEMPERATURE	ACCURACY
JSVB-30T	31 L	amb. + 5 °C - 99 °C	± 0.1 °C

JSEB-Series Extraction Bath



- amb. +5 °C - 99 °C
- Constant Temperature
- Timer On / Off
- 6 to 10 Multi-Extraction Ports

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MODEL	CAPACITY	TEMPERATURE	ACCURACY
JSEB-60T	6 Ports	amb. + 5 °C - 99 °C	
JSEB-62T	2 x 3 Ports		± 0.5 °C
JSEB-82T	2 x 4 Ports		
JSEB-102T	2 x 5 Ports		

JSIB-Series Circulation Bath



- amb. +5 °C ~ 99 °C
- Constant Temperature
- Timer On / Off
- Internal and external Circulation Pump
- Flow Rate : 8 L/min
- Pressure : 0.3 bar



MODEL	CAPACITY	TEMPERATURE	ACCURACY
JSIB-11T	11 L		
JSIB-22T	22 L	amb. +5 °C	
JSIB-50T	48 L	- 99 °C	± 0.1 °C
JSIB-100T	100 L		

JSRC-C(L) Series Refrigerated Circulation Bath



- - 20 (- 40) °C ~ 120 °C
- Constant Temperature
- Timer On / Off
- Internal and external Circulation Pump
- Flow Rate : 10 L/min
- Pressure : 0.5 bar



MODEL	CAPACITY	TEMPERATURE	ACCURACY
JSRC-06C(L)	7 L	JSRC-C	
JSRC-13C(L)	11 L	-20 °C ~ 120 °C	
JSRC-22C(L)	20 L	JSRC-CL	± 0.1 °C
JSRC-30C(L)	30 L	-40 °C ~ 120 °C	

JSCT-Series JSTC-Series Ultra-Low Cold Trap Bath



- Minimum Temperature
- -25 °C ~ -85 °C
- On/Off Temperature Control



MODEL	CAPACITY	MINIMUM TEMPERATURE
JSCT-25C		- 25°C
JSCT-55ULT	7.2 L	- 55 °C
JSTC-85ULT		- 85 °C
JSTC-55ULT	2.8 L	- 55 °C
JSTC-85ULT		- 85 °C

JSSB-Series Shaking Water Bath



- amb. +5 °C ~ 99 °C
- Constant Temperature
- Timer On / Off
- Shaking Speed 20 ~ 120 rpm
- 25 mm stroke reciprocal motion



MODEL	CAPACITY	TEMPERATURE	ACCURACY
JSSB-30T	30 L	amb. +5 °C	
JSSB-50T	50 L	- 99 °C	± 0.2 °C

Laboratory WATER BATH

Controller

▶ JSC-OD [BASIC]



- $\pm 0.1^\circ\text{C}$ Digital PID Controller with automatic START /STOP timer max. 99min 59sec / 99hr 59min / 99day 23hr
- Digital LED displays operating status such as TEMP and remaining TIME
- Temperature calibration
- Auto-tuning function
- Class A Pt-100 Q sensor
- Audio Visual Alarms

▶ JSC-7S Controller for Shaking Water Bath



- Integrated Digital PID Controller
 - Temperature control with $\pm 0.1^\circ\text{C}$
 - Shaking speed control within $\pm 1 \text{ rpm}$
 - Automatic STOP timer Max. 99min 59sec / 99hr 59min
 - Dual digital LED displays TEMP, RPM and remaining TIME
 - Temperature calibration
 - Shaking speed calibration
 - Slow Start and Stop Control
 - Auto-tuning function
 - Class A Pt-100 Q sensor
- 온도 및 속도 보정 기능
• 작동 시 가속 및 감속 속도 제어
o. 'a = 71% 1/1
• Class A Pt-100 i!Ai

Performance & Convenience

► Construction



- Durable epoxy powder coated metallic casing
- High quality stainless steel 304 bath
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► Seam less Bath



- Easy to clean Electro-Polished seamless SUS304 Bath with perforated stainless steel bottom plate
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► Lids



- Stainless steel flat cover to help reduce heat losses and evaporation
- ◆.lc.f}▶Щ ◆.J ◆'M ◆◆?Jbli

Safety

• DUAL OVER TEMP. CUT-OFF

1) Digital system cut-off heater and AUDIO VISUAL ALARM in case +2°C above set temperature

2) Analog system cut-off heater 10% above set temp.

• MAX TEMP CUT-OFF heater andAUDIO VISUAL ALARM when if +1°C above maximum limit

• SENSOR DISCONNECTION ALARM

• LOW WATER LEVEL SENSOR (Specific models only)

• OVER CURRENT CUT-OFF: Electrical Leakage Breaker or Fuse

► Circulation Pump



- Stainless Steel or magnetic driven pump for internal and external circulation of bath fluid
- Stainless Steel g.E Magnetic Pump-e ◆QIj◆ 1/4 EE-aOH-II-◆ i?◆

Maintenance



- Easy to maintain refrigeration system
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Low Temp CIRCULATOR

HEATING
REFRIGERATING
- 40 °C Circulation Bath



Refrigerated Circulation Bath

Heated/Refrigerated circulating open bath system capable of reaching temperature as low as -40 °C and heating up to 120 °C for a wide variety of Laboratory heating and cooling applications.

Internal circulation of thermal fluid within the bath allows precise uniformity within ±0.1 °C. Circulation pump enables to circulates heated or refrigerated thermal fluid to external equipments such applications as reactor, condenser, rotary evaporator or controlling the temperature of Laboratory equipment such as chromatography columns, viscometers, and densitometers.

External circulation pump capacity 10 liters/min. in flow rate and Q 5 bar in pressure

	Circulation Pump
	Cooled -40 °C to 120 °C
	Timer On! Off
	Constant Temperature Controller



Specifications

Heating	Direct Immersion Sheath Heater with Circulation Pump
Cooling	OFC Free Air Cooled Compressor
Temp. Range	-40 °C - 120 °C
Accuracy	± 0.1 °C at -1 °C (JSRC-1 3CL)
Uniformity	± 0.4 °C at -1 °C (JSRC-1 3CL)
Control	Microprocessor PID Control Auto START / STOP Timer
Sensor	Class A Pt-100 Q Sensor
Safety	Over-Temperature Cut-Off Over Current Cut-Off Low Water Level Cut-Off
Material	Body : Epoxy Powder Coated Steel Bath : Seamless Electro-Polished Stainless Steel 304
Electric	220±10% VAC 50/60Hz 1-Phase
Plug config.	 or  CEE 7/7 Schuka 851363

Control Accuracy

- ± 0.1 °C Digital PID Controller with automatic START /STOP timer max. 99min 59sec / 99hr 59min / 99day 23hr
- Temperature calibration, auto-tuning function
- Class A Pt-100 Q sensor

Performance

- Durable epoxy powder coated metallic casing
- High efficiency heating and cooling system allows short heat-up and cool-down times
- Corrosion resistant stainless steel 304 sheath immersion heater and cooling coil controls bath temperature quickly and precisely
- Stainless Steel circulation pump circulates thermal fluid to the external closed system with flow rate 10liters/min and Q 5 bar in pressure
- Internal circulation of bath fluid enhance thermal uniformity of the bath
- Temperature range from -40 °C to 120 °C, accuracy ± 0.1°C

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Convenience

- Easy to clean Electro-polished Seamless Stainless Steel Bath
- Drain for easy emptying of the bath fluid
- Supplied with stainless steel flat cover to help reduce heat losses and evaporation
- Dust accumulation in refrigeration system is easily cleaned by means of anremovable venting grill

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Safety

- DUAL OVER TEMP. CUT-OFF
- MAXTEMP CUT-OFF heater and AUDIO VISUAL ALARM
- LOW WATER LEVEL SENSOR : cut-off heater
- SENSOR DISCONNECTION ALARM
- OVER CURRENT CUT-OFF FUSE



Ordering Information

Bath Volume (Capacity)	
Dimentions	Inner
Wx Dx H mm	Usable
	Outer
Temperature Range	
	Accuracy at -10.0°C
	Uniformity at -10.0°C
Heater Capacity	
Refrigeration System	
Power Rating	
Power Plug	

	JSRC-06CL	JSRC-1 3CL	JSRC-22CL	JSRC-3OCL
Bath Volume (Capacity)	7.0 L	11 L	20 L	30 L
Dimentions	155x300x150	240 x 300 x 150	300 x 330 x 200	300 x 500 x 190
Wx Dx H mm	155x120x150	240 x 120 x 150	300 x 150 x 200	300 x 300 x 160
	290 x 470 x 700	370 x 450 x 700	430 x 480 x 720	430 x 670 x 720
Temperature Range		-40 °C - 120.0 °C		
		± 0.1 °C		
		± 0.3 °C		
Heater Capacity	700Watt	800 Watt	1.2 kW	1.6kW
Refrigeration System		CFC Free Air Cooled Compressor		
Power Rating	6.7 Amp	8.0Amp	9.8Amp	11.6Amp
Power Plug		OEE 717 Schuko		

Low Temp CIRCULATOR

HEATING
REFRIGERATING
- 20 °C Circulation Bath



Refrigerated Circulation Bath

Heated/Refrigerated circulating open bath system capable of reaching temperature as low as -20 °C and heating up to 120 °C for a wide variety of Laboratory heating and cooling applications.

Internal circulation of thermal fluid within the bath allows precise uniformity within ±0.1 °C. Circulation pump enables to circulates heated or refrigerated thermal fluid to external equipments such applications as reactor, condenser, rotary evaporator or controlling the temperature of Laboratory equipment such as chromatography columns, viscometers, and densitometers.

External circulation pump capacity 10 Liters/min. in flow rate and Q 5 bar in pressure

Circulation Pump

Cooled - 20 °C to 120 °C

Timer On / Off

Constant Temperature Controller

Specifications

Heating	Direct Immersion Sheath Heater with Circulation Pump
Cooling	OFC Free Air Cooled Compressor
Temp. Range	- 20 °C - 120 °C
Accuracy	± 0.1 °C at -10.0°C (JSRC-13C)
Uniformity	± 0.3 °C at -10.0°C (JSRC-13C)
Control	Microprocessor PID Control
	Auto START / STOP Timer
Sensor	ClassAPT-100 Q Sensor
Safety	Over-Temperature Cut-Off
	Over Current Cut-Off
	Low Water Level Cut-Off
Material	Body : Epoxy Powder Coated Steel
	Bath : Seamless Electro-Polished Stainless Steel 304
Electric	220 ± 10% VAC 50/60Hz 1-Phase
Plug config.	E9 or  <small>CEE/7Schuka</small>  <small>IEC60906-1</small>

Control Accuracy

- ± 0.1 °C Digital PID Controller with automatic START /STOP timer max. 99min 59sec / 99hr 59min / 99day 23hr
- Temperature calibration, auto-tuning function
- ClassAPT-100 Q sensor



Performance

- Durable epoxy powder coated metallic casing
- High efficiency heating and cooling system allows short heat-up and cool-down times
- Corrosion resistant stainless steel 304 sheath immersion heater and cooling coil controls bath temperature quickly and precisely
- Stainless Steel circulation pump circulates thermal fluid to the external closed system with flow rate 10 liters/min and Q 5 bar in pressure
- Internal circulation of bath fluid enhance thermal uniformity of the bath
- Temperature range from -20 °C to 120 °C, accuracy ± 0.1°C

Convenience

- Easy to clean Electro-polished Seamless Stainless Steel Bath
- Drain for easy emptying of the bath fluid
- Supplied with stainless steel flat cover to help reduce heat losses and evaporation
- Dust accumulation in refrigeration system is easily cleaned by means of an removable venting grill

Ordering Information

Bath Volume (Capacity)	7.0 L
Dimensions Inner	155x300x150
Wx D x H mm Usable	155x120x150
Outer	290 x 470 x 670
Temperature Range	-20°C - 120.0°C
Accuracy at -10.0°C	± 0.1 °C
Uniformity at -10.0°C	± 0.3 °C
Heater Capacity	700Watt
Refrigeration System	OFC Free Air Cooled Compressor
Power Rating	7.1Amp
Power Plug	CEE 717 Schuko

	JSRC-06C	JSRC-1 3C	JSRC-22C	JSRC-30C
Bath Volume (Capacity)	7.0 L	11 L	20 L	30 L
Dimensions Inner	155x300x150	240 x 300 x 150	300 x 330 x 200	300 x 500 x 190
Wx D x H mm Usable	155x120x150	240 x 120 x 150	300 x 150 x 200	300 x 300 x 160
Outer	290 x 470 x 670	370 x 450 x 670	430 x 480 x 720	430x 670x 720
Temperature Range	-20°C - 120.0°C			
Accuracy at -10.0°C		± 0.1 °C		
Uniformity at -10.0°C		± 0.3 °C		
Heater Capacity	700Watt	800 Watt	1.2 kW	1.6kW
Refrigeration System	OFC Free Air Cooled Compressor			
Power Rating	7.1Amp	7.1Amp	8.9Amp	10.5Amp
Power Plug	CEE 717 Schuko			

Circulator

LARGE CAPACITY

INTERNAL EXTERNAL Circulation Bath

Immersion Bath Circulator

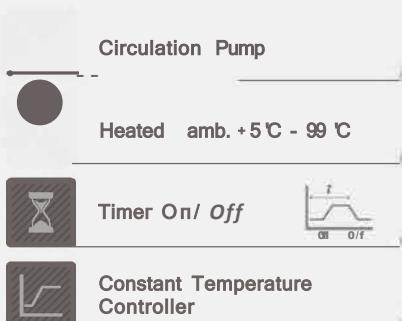


Heated circulating open bath system controls temperature range from ambient +5 °C to 99°C, with internal and external circulation pump. Internal circulation allows precise thermal uniformity within $\pm 0.2^\circ\text{C}$ comparing to the conventional heated bath without circulation pump. External circulation pump enables to circulates heated water (liquid) to external equipments such applications as warming of reagents and culture media, thawing or tempering samples or controlling the temperature of laboratory equipments.
External circulation pump capacity 13 liters/min. in flow rate and 0.5 bar in pressure

Specifications

Heating	Direct Immersion Sheath Heater with Magnetic Driven Circulation Pump
Temp. Range	ambient + 5 °C - 99 °C
Accuracy	$\pm 0.2^\circ\text{C}$ at 37.0°C (JSIB-SOT)
Uniformity	$\pm 0.5^\circ\text{C}$ at 37.0°C (JSIB-SOT)
Control	Microprocessor PID Control Auto START / STOP Timer
Sensor	Class A Pt-100 Q Sensor
Safety	Over-Temperature Cut-Off Over Current Cut-Off
Material	Body : Epoxy Powder Coated Steel Bath : Polished Stainless Steel 304
Electric	220 $\pm 10\%$ VAC 50/60Hz 1-Phase

Plug config. or or or



Contro[Accuracy

- $\pm 0.2^\circ\text{C}$ Digital PIDController with automatic START/STOP timer max. 99min 59sec / 99hr 59min / 99day 23hr
- Temperature calibration, auto-tuning function
- Class A Pt-100 Q sensor

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Performance

- Durable epoxy powder coated metallic casing
- Corrosion resistant Stainless Steel 304 bath
- Corrosion resistant stainless steel 304 sheath immersion heater and circulation pump heating water to set temperature quickly and precisely
- Magnetic driven circulation pump circulates water to the external closed system with flow rate 13 Liter/min and Q 5 bar in pressure
- Internal circulation of water enhance thermal uniformity of the bath
- Maximum temperature up to 99 °C, accuracy ± 0.2°C

Convenience

- Easy to clean polished Stainless Steel 304 Bath
- Corrosion resistant polycarbonate magnetic driven pump
- Drain for easy emptying of the bath fluid
- Supplied with stainless steel flat cover to help reduce heat losses and evaporation

Ordering Information

Bath Volume (Capacity)	
Dimensions Inner	
W x D x H mm Usable	300 x 400 x 400
Outer	300 x 400 x 350
Temperature Range	385 x 665 x 685
Accuracy at 37.0°C	
Uniformity at 37.0°C	
Drain Valve	ambient +5 °C - 99 °C
Inlet / Outlet Fitting	± 0.2 °C
Heater Capacity	± 0.5°C
Power Rating	yes
Power Plug	Ø9 mm hose barb

JSIB-50T

50 L
300 x 400 x 400
300 x 400 x 350
385 x 665 x 685

3.0kW
14.0Amp
CEE 7/7 Schuko

JSIB-100T

100 L
400 x 500 x 500
400 x 500 x 450
485 x 765 x 785

5.0kW
30.0Amp
30Amp

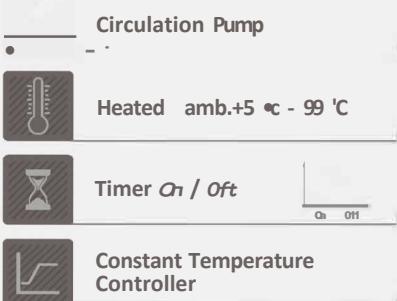
Immersion CIRCULATOR

INTERNAL EXTERNAL Circulation Bath



Immersion Bath Circulator

Heated circulating open bath system controls temperature range from ambient +5 °C to 99 °C, with internal and external circulation pump. Internal circulation allows precise thermal uniformity within ± 0.1 °C comparing to the conventional heated bath without circulation pump. External circulation pump enables to circulates heated water (Liquid) to external equipments such applications as warming of reagents and culture media, thawing or tempering samples, biological incubation, cell culture, enzyme assays, or controlling the temperature of Laboratory equipment such as chromatography columns, viscometers, and densitometers. External circulation pump capacity 8 Liters/min. in flow rate and 0.3 bar in pressure



Specifications

Heating	Direct Immersion Sheath Heater with Circulation Pump
Temp. Range	ambient + 5 °C - 99 °C
Accuracy	± 0.1 °C at 37.0 °C (JSIB-11T)
Uniformity	± 0.2 °C at 37.0 °C (JSIB-11T)
Control	Microprocessor PID Control
	Auto START / STOP Timer
Sensor	Class A Pt-100 Q Sensor
Safety	Over-Temperature Cut-Off
	Over Current Cut-Off
Material	Body : Epoxy Powder Coated Steel
	Bath : Electro-polished Seamless Stainless Steel 304
Electrlc	220 \pm 10% VAC 50/60Hz 1-Phase
Plug config.	CEE 117 Schuko or BS 1363



Contro[Accuracy

- , ± 0.1 °C Digital PID Controller with automatic START/STOP timer max. 99min 59sec / 99hr 59min / 99day 23hr
- , Temperature calibration, auto-tuning function
- , Class A Pt-100 Q sensor

Performance

- Durable epoxy powder coated metallic casing
- Corrosion resistant Stainless Steel 304 bath
- Corrosion resistant stainless steel 304 sheath immersion heater heating water within the bath quickly
- Stainless Steel circulation pump assembly circulates thermal fluid to the external closed system with flow rate 8 Liter/min and 0.3 bar in pressure
- Internal circulation of water enhance thermal uniformity of the bath
- Maximum temperature up to 99 °C, accuracy ± 0.1°C

Convenience

- Easy to clean Electro-Polished seamless SUS304 Bath
- Drain for easy emptying of the bath fluid
- Supplied with stainless steel flat cover to help reduce heat losses and evaporation

Safety

- DUAL OVER TEMP. CUT-OFF
- MAX TEMP CUT-OFF heater and AUDIO VISUAL ALARM
- LOW WATER LEVEL SENSOR : cut-off heater
- SENSOR DISCONNECTION ALARM
- OVER CURRENT CUT-OFF FUSE

Ordering Information

	JSIB-11T	JSIB-22T
Bath Volume (Capacity)	11L	22 L
Dimensions Inner	300 x 240 x 150	495x290x150
W x D x H mm Usable	120x240x150	325x290x 150
Outer	365x300x410	560x350x410
Temperature Range	ambient +5 °C - 99 °C	
Accuracy at 37.0 °C	± 0.1 °C	
Uniformity at 37.0°C	± 0.2 °C	
Drain Valve	yes	
Inlet / Outlet Fitting	Φ 9 mm hose barb	
Heater Capacity	850W	1.3 kW
Power Rating	3.9Amp	5.9Amp
Power Plug	CEE 717 Schuko	

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