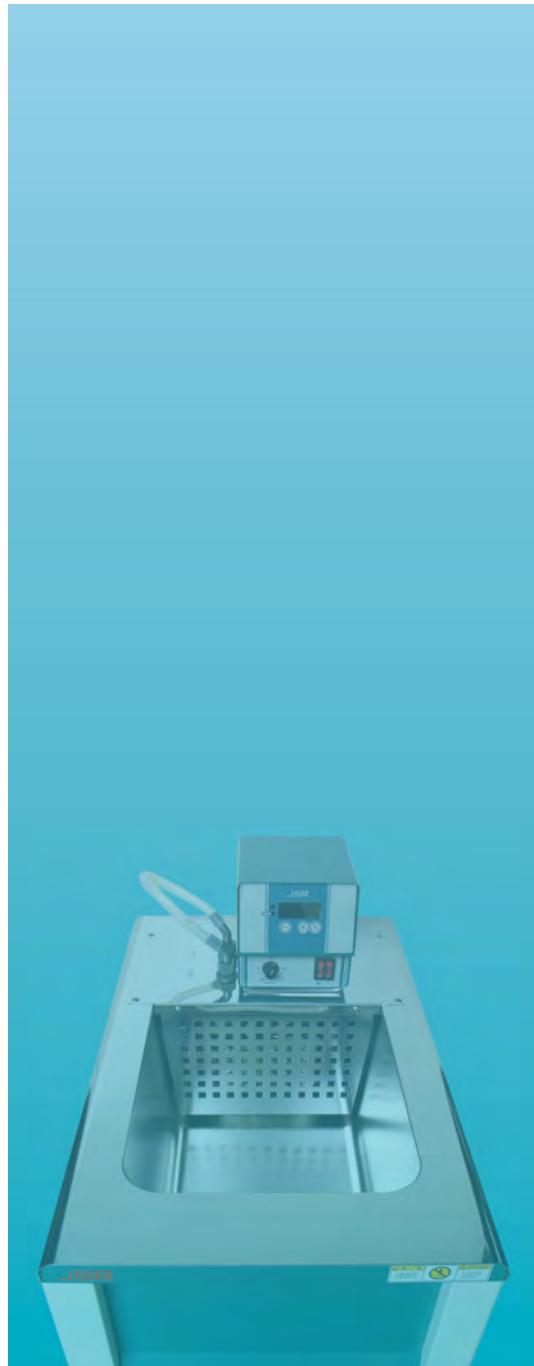


BATHS



laftech

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Accredited Laboratory

JSR

[주] 제이에스리서치
JS Research Inc.

Laboratory

WATER BATH

JSWB-Series Heated Bath



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

JSOB-Series Digital Oil Bath



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



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

MODEL	CAPACITY	TEMPERATURE	ACCURACY
JSOB-100T	11 L	amb. + 10 °C	
JSOB-200T	20 L	~ 250 °C	± 1.0 °C
JSOB-330T	33 L		

JSVB-Series Visco-Sight Bath



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

JSEB-Series Extraction Bath



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



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

MODEL	CAPACITY	TEMPERATURE	ACCURACY
JSEB-60T	6 Ports	amb. +5 °C	
JSEB-62T	2 x 3 Ports	~ 99 °C	± 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 Cold Trap Bath



- Minimum Temperature
-20 °C (- 40 °C)
- On/Off Temperature Control



MODEL	CAPACITY	MINIMUM TEMPERATURE
JSCT-40C	4 L	- 20°C
JSCT-40CL		- 40 °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-0D [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 Ω sensor
- Audio Visual Alarms
- 정밀한 PID 콘트롤러는 온도를 $\pm 0.1^{\circ}\text{C}$ 단위로 제어
- 예약 / 정지 타이머 내장 99분59초/99시간59분/99일23시간
- 온도 보정, 오토튜닝 기능 내장
- Class A Pt-100 Ω 온도센서
- 안전한 작동을 위한 다양한 시청각적 알람

▶ 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 / 99day 23hr
- 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 Ω sensor
- 온도, 속도, 타이머 통합제어 PID 콘트롤러
- 온도제어 정밀도 : $\pm 0.1^{\circ}\text{C}$
- 교반속도 제어 정밀도 : $\pm 1 \text{ rpm}$
- 타이머 설정 최대 99분 59초/99시간 59분 /99일 23시간
- 현재온도, 교반속도, 잔여시간 디스플레이
- 온도 및 속도 보정 기능
- 작동 시 가속 및 감속 속도 제어
- 오토튜닝 기능 내장
- Class A Pt-100 온도센서

Performance & Convenience

Safety

▶ Construction



- Durable epoxy powder coated metallic casing
- High quality stainless steel 304 bath
- 내구성이 뛰어난 에폭시 분체 도장 본체와 스테인레스 스틸 304 배스

▶ Seamless Bath



- Easy to clean Electro-Polished seamless SUS304 Bath with perforated stainless steel bottom plate
- 부식에 강한 전해 연마 처리된 Stainless Steel (SUS304) 배스는 코너에 이음새가 없어 세척과 유지보수가 간편

▶ Lids



- Stainless steel flat cover to help reduce heat losses and evaporation
- 온도유지와 물의 증발을 방지하기 위한 커버

‣ 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 and AUDIO 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

‣ 이중과열방지장치

- 1) 설정온도 +2 °C 초과 시 히터 차단 및 시청각알람
- 2) 콘트롤러 오류로 지정 온도 10% 초과 시 히터차단
- 최고온도알람기능 : 작동 한계온도+1°C 초과시 히터 차단
- 센서단락알람
- 저수위감지센서 (일부모델)
- 누전차단기 (퓨즈) : 전기누설 시 주전원 차단

▶ Circulation Pump



- Stainless Steel or magnetic driven pump for internal and external circulation of bath fluid
- Stainless Steel 또는 Magnetic Pump는 용액을 내부 또는 외부로 순환

▶ Drain



- Drain for easy emptying of bath fluid [Depends on model]
- 배수용 드레인 밸브 장착 [일부모델]

▶ Maintenance



- Easy to maintain refrigeration system
- 편리한 유지보수

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 ±0.2°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	± 0.2 °C at 37.0°C (JSIB-50T)
Uniformity	± 0.5 °C at 37.0°C (JSIB-50T)
Control	Microprocessor PID Control Auto START / STOP Timer
Sensor	Class A Pt-100 Ω Sensor
Safety	Over-Temperature Cut-Off Over Current Cut-Off
Material	Body : Epoxy Powder Coated Steel Bath : Polished Stainless Steel 304
Electric	220±10% VAC 50/60Hz 1-Phase



- Circulation Pump
- Heated amb.+5 °C ~ 99 °C
- Timer On / Off
- Constant Temperature Controller

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 Ω sensor
- 정밀한 PID 콘트롤러는 온도를 ± 0.1 °C 단위로 제어
- 예약 / 정지 타이머 내장 99분59초 / 99시간59분 / 99일23시간
- 온도보정, 오토튜닝 기능 내장
- Class A Pt-100 Ω 온도 센서

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 0.5 bar in pressure
- › Internal circulation of water enhance thermal uniformity of the bath
- › Maximum temperature up to 99 °C, accuracy ± 0.2°C

- › 내구성이 뛰어난 에폭시 분체 도장 본체
- › 내부식성이 뛰어난 Stainless Steel 304 재질의 배스
- › 내구성이 뛰어난 Stainless Steel 304 재질의 히터와 순환 펌프가 수조 내부의 물을 직접 가열하여 신속히 설정 온도에 도달
- › 마그네틱 순환 펌프는 외부 순환 시 13 liter/min 의 유량과 0.5 bar 의 압력을 제공
- › 내부 순환 시 수조 내부에서 물이 순환 되면서 균일한 온도분포
- › 최고 가열 온도 99 °C, ± 0.2°C 의 탁월한 정밀도

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

- › 부식에 강한 연마 처리된 Stainless Steel(SUS304) 배스는 세척과 유지보수가 간편
- › 부식에 강한 polycarbonate 재질의 마그네틱 펌프
- › 배수용 드레인 밸브장착
- › 온도유지와 물의 증발을 방지하기 위한 평판형 커버 포함

Safety

- › DUAL OVER TEMP. CUT-OFF
 - › MAX TEMP CUT-OFF heater and AUDIO VISUAL ALARM
 - › SENSOR DISCONNECTION ALARM
 - › OVER CURRENT CUT-OFF FUSE
-
- › 이중과열방지장치
 - › 최고온도알람기능 : 작동 한계온도 +1°C 초과 시 히터 차단
 - › 센서단락알람
 - › 누전차단퓨즈 : 전기 누설 시 주전원 차단

Ordering Information

		JSIB-50T	JSIB-100T
Bath Volume (Capacity)		50 L	100 L
Dimensions Inner		300 x 400 x 400	400 x 500 x 500
W x D x H mm Usable		300 x 400 x 350	400 x 500 x 450
Outer		385 x 665 x 685	485 x 765 x 785
Temperature Range		ambient +5 °C ~ 99 °C	
Accuracy at 37.0°C		± 0.2 °C	
Uniformity at 37.0°C		± 0.5 °C	
Drain Valve		yes	
Inlet / Outlet Fitting		Φ9 mm hose barb	
Heater Capacity		3.0 kW	5.0 kW
Power Rating		14.0 Amp	23.0 Amp
Power Plug		CEE 7/7 Schuko	30 Amp