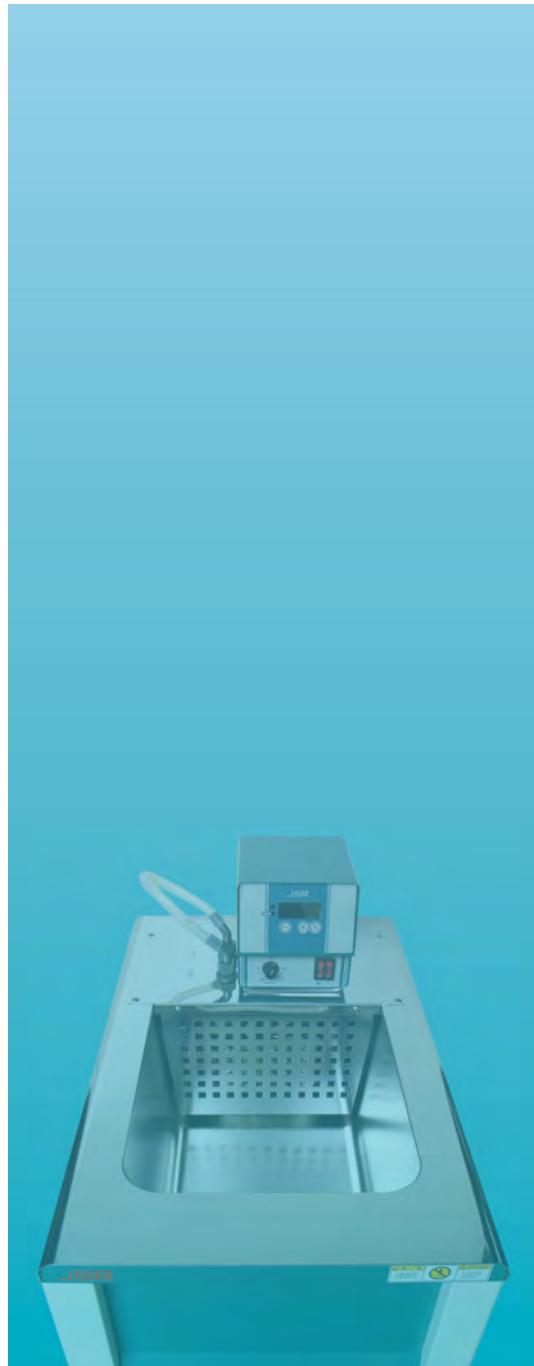


BATHS



laftech

Call: 1300 306 002 www.laftech.com.au

LAF Technologies Pty Ltd

Head Office: 12 Royan Place, Bayswater North, VIC 3153 Australia



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

Digital WATER BATH

EXCELLENT
UNIFORMITY
Indirect Heating



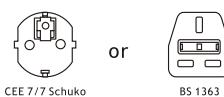
Indirect Heating Digital Water Bath

JSWB-TL Series Digital Water Bath to provides constant temperature environment by heating water for biotechnology, chemistry, medical, environmental and general laboratory applications of temperature range from ambient +5 °C to 80 °C

Specifications

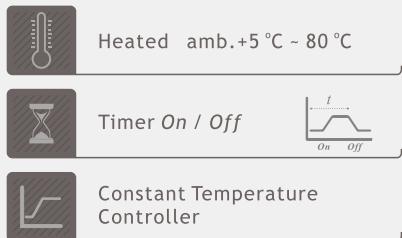
Heating	Indirect Ceramic Plate Heater
Temp. Range	ambient + 5 °C ~ 80 °C
Accuracy	± 0.1 °C at 37.0°C (JSWB-11TL)
Uniformity	± 0.5 °C at 37.0°C (JSWB-11TL)
Control	Microprocessor PID Control Auto START / STOP Timer
Sensor	Class A Pt-100 Ω Sensor
Safety	Over-Temperature Cut-Off Over Current Cut-Off
Material	Body : Epoxy Powder Coated Steel Bath : Electro-polished Seamless Stainless Steel 304
Electric	220 ± 10% VAC 50/60Hz 1-Phase

Plug config.



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, 오토투닝 기능 내장
- Class A Pt-100 Ω 온도 센서



Performance

- › Durable epoxy powder coated metallic casing
- › Corrosion resistant Stainless Steel 304 bath
- › Durable and rugged ceramic plate heating element mounted underneath the bath to allow excellent thermal uniformity of the bath and no calcification problem
- › Maximum temperature up to 80 °C, accuracy ± 0.1°C
- › 내구성이 뛰어난 에폭시 분체 도장 본체
- › 내부식성이 뛰어난 Stainless Steel 304 재질의 배스
- › 내구성이 뛰어난 세라믹 몰딩 히터가 배스의 외부에서 바닥 전체를 가열하여 ± 0.1°C의 탁월한 온도 균일도를 제공하여 정밀한 온도제어가 요구되는 바이오 분야에 적합
- › 배스 외부에서 가열하는 설계로 히터 표면에 스케일이 발생하지 않음
- › 최고 가열 온도 80 °C, ± 0.1°C 의 탁월한 정밀도

Convenience

- › Easy to clean Electro-Polished seamless SUS304 Bath
- › Perforated stainless steel bottom plate
- › Supplied with stainless steel flat cover to help reduce heat losses and evaporation
- › 부식에 강한 전해 연마 처리된 Stainless Steel(SUS304)
베스는 코너에 이음새가 없어 세척과 유지보수가 간편
- › Stainless Steel 304재질의 바닥 타공판
- › 온도유지와 물의 증발을 방지하기 위한 평판형 뚜껑 포함

Ordering Information

	JSWB-06TL	JSWB-11TL	JSWB-22TL	JSWB-30TL
Bath Volume (Capacity)	6 L	11 L	22 L	30 L
Dimensions Inner	300 x 155 x 150	300 x 240 x 150	500 x 300 x 150	500 x 300 x 200
W x D x H mm Usable	300 x 155 x 140	300 x 240 x 140	500 x 300 x 140	500 x 300 x 190
Outer	340 x 220 x 300	340 x 305 x 300	545 x 365 x 300	545 x 365 x 350
Temperature Range			ambient +5 °C ~ 80 °C	
Accuracy at 37.0°C	± 0.1 °C	± 0.1 °C	± 0.1 °C	± 0.1 °C
Uniformity at 37.0°C	± 0.5 °C	± 0.5 °C	± 0.5 °C	± 0.5 °C
Drain Valve			none	
Heater Capacity	620 W	1.1 kW	1.5 kW	2.0 kW
Power Rating	2.8 Amp	4.8 Amp	6.8 Amp	9.2 Amp
Power Plug			CEE 7/7 Schuko	