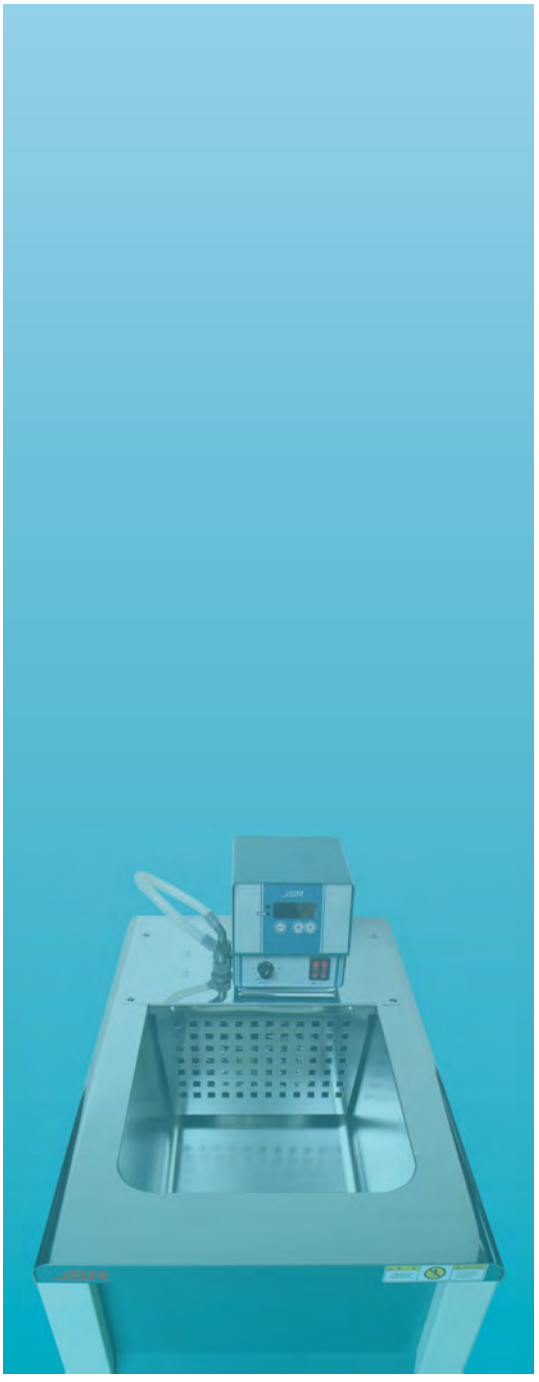
BATHS



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NATA 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

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

JSOB-Series
Digital Oil Bath

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

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

JSVB-Series
Visco-Sight Bath

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

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

MODEL	CAPACITY	TEMPERATURE	ACCURACY
JSEB-60T	6 Ports	amb. +5 °C ~ 99 °C	± 0.5 °C
JSEB-62T	2 x 3 Ports		
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	amb. +5 °C ~ 99 °C	± 0.1 °C
JSIB-22T	22 L		
JSIB-50T	48 L		
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 -20 °C ~ 120 °C JSRC-CL -40 °C ~ 120 °C	± 0.1 °C
JSRC-13C(L)	11 L		
JSRC-22C(L)	20 L		
JSRC-30C(L)	30 L		

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 ~ 99 °C	± 0.2 °C
JSSB-50T	50 L		

제품상담 : 041-856-3677 Sales : +82-41-856-3677 info@jsresearch.co.kr

Controller

JSC-0D [BASIC]

- ±0.1 °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 ±0.1 °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

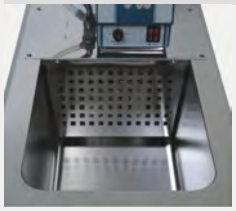
JSC-7S Controller for Shaking Water Bath

- Integrated Digital PID Controller
- Temperature control with ±0.1 °C
- Shaking speed control within ±1 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 : ±0.1 °C
- 교반속도 제어 정밀도 : ±1 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

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

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

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 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

Drain

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

Maintenance

- Easy to maintain refrigeration system
- 편리한 유지보수

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Digital
OIL BATH

HIGH TEMP
UP TO 250 °C
Immersion Heating

Digital Oil Bath

JSOB-Series Digital Oil Bath is suitable for high temperature applications using oil as a thermal media up to 250 °C such as heat transfer, dipping and melting experiment

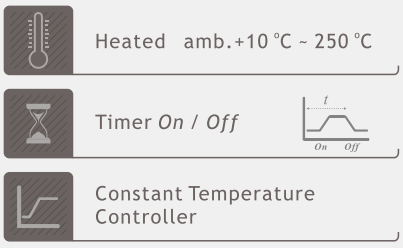
Specifications

Heating	Direct Immersion Sheath Heater
Temp. Range	ambient + 10 °C ~ 250 °C
Accuracy	± 1.0 °C at 120.0°C (JSOB-200T)
Uniformity	± 3.0 °C at 120.0°C (JSOB-200T)
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 : Stainless Steel 304
Electric	220 ± 10% VAC 50/60Hz 1-Phase
Plug config.	CEE 7/7 Schuko or BS 1363

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 directly heating oil in the bath to reach set temperature quickly
- Perforated heater cover helps convection of heated oil circulation to maintain thermal uniformity of the bath
- Maximum temperature up to 250 ℃, accuracy ± 1.0℃

- 내구성이 뛰어난 에폭시 분체 도장 본체
- 내부식성이 뛰어난 Stainless Steel 304 재질의 배스
- 내구성이 뛰어난 Stainless Steel 304 재질의 히터가 수조 내부의 오일을 직접 가열하여 신속히 설정 온도에 도달
- 다공성 히터커버는 가열된 오일이 배스 내부로 균일하게 순환되도록 설계되어 균일한 온도 분포
- 최고 가열 온도 250 ℃, ± 1.0℃ 의 탁월한 정밀도

Convenience

- Easy to clean polished Stainless Steel 304 Bath
- Perforated stainless steel bottom plate
- Drain for easy emptying of the bath fluid
- Supplied with stainless steel flat cover with silicone packing to help reduce heat losses and evaporation

- 부식에 강한 연마 처리된 Stainless Steel(SUS304) 배스는 세척과 유지보수가 간편
- Stainless Steel 304재질의바닥 타공판
- 배수용 드레인밸브장착
- 온도유지와 증발을 방지하기 위한 실리콘 패킹 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℃ 초과 시 히터 차단
- **센서단락알람**
- **누전차단기** : 전기 누설 시 주전원 차단

Ordering Information

		JSOB-100T	JSOB-200T	JSOB-300T
Bath Volume (Capacity)		11 L	20 L	33 L
Dimensions	Inner	300 x 220 x 170	400 x 300 x 170	430 x 300 x 260
W x D x H mm	Usable	300 x 220 x 130	400 x 300 x 130	430 x 300 x 210
	Outer	550 x 310 x 340	650 x 390 x 360	680 x 390 x 450
Temperature	Range		ambient +10 ℃ ~ 250 ℃	
	Accuracy at 120.0℃	± 1.0 ℃	± 1.0 ℃	± 1.0 ℃
	Uniformity at 120.0℃	± 3.0 ℃	± 3.0 ℃	± 5.0 ℃
Heater Capacity		2.0 kW	3.0 kW	3.0 kW
Power Rating		9.1 Amp	13.6 Amp	13.6 Amp
Power Plug			CEE 7/7 Schuko	

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