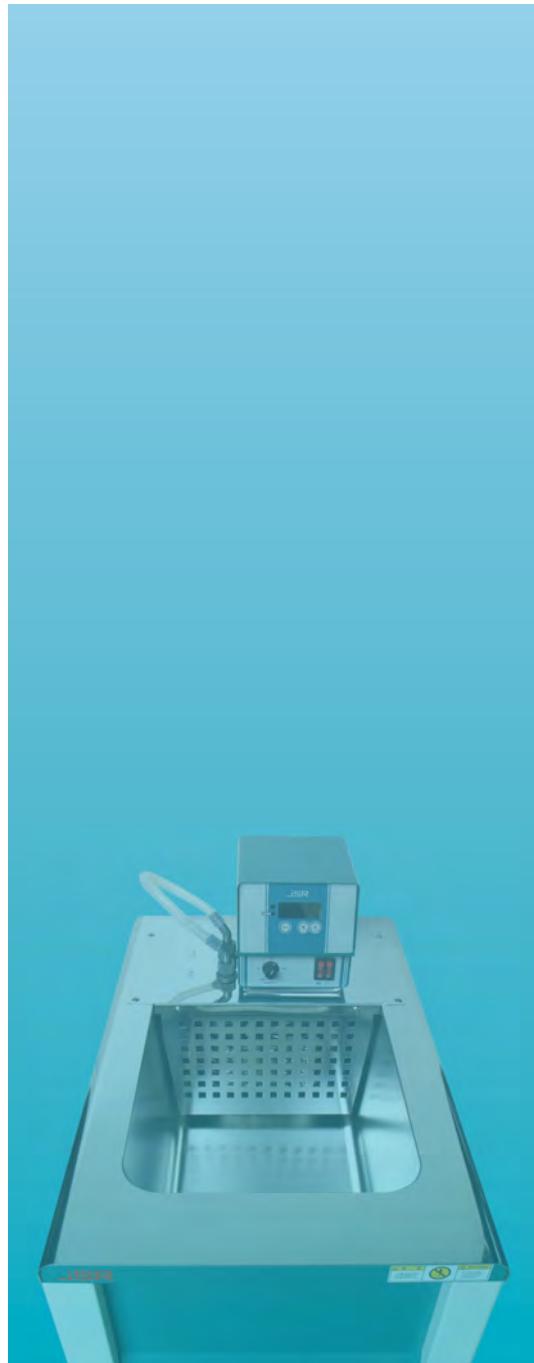


# BATHS



**laftech**

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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

### 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  $\Omega$  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  $\Omega$  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  $\Omega$  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

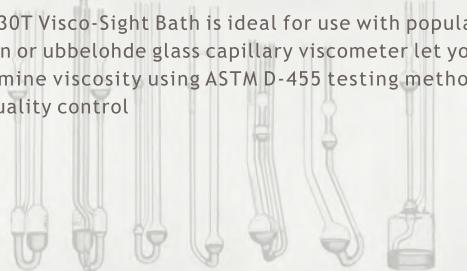
# Viscosity GLASS BATH

CONFORM  
ASTM D-455  
High Precision



## Visco-Sight Bath

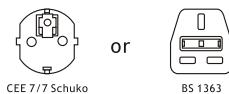
JSVB-30T Visco-Sight Bath is ideal for use with popular cannon or ubbelohde glass capillary viscometer let you determine viscosity using ASTM D-455 testing method and quality control



## Specifications

Heating	Direct Immersion Sheath Heater with internal circulation pump
Temp. Range	ambient + 5 °C ~ 99 °C
Accuracy	± 0.1 °C at 50.0°C
Uniformity	± 0.4 °C at 50.0°C
Control	Microprocessor PID Control Auto START / STOP Timer
Sensor	Class A Pt-100 Ω Sensor
Circulation	Magnetic Driven Pump
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

BS 1363

-  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 directly heating fluid in the bath to reach set temperature quickly
- The Visco-Sight Bath is designed to simplify ASTM D-455 viscosity testing, accommodates up to five capillary tubes
- Measuring range of ambient +5°C to 99°C, accuracy ± 0.1°C and can be used with mineral oil, silicone oil, or water as a thermal fluid
- Powerful magnetic driven pump circulates heated water throughout the bath maintain thermal uniformity
  
- 내구성이 뛰어난 에폭시 분체 도장 본체
- 내부식성이 뛰어난 Stainless Steel 304 재질의 배스
- 내구성이 뛰어난 Stainless Steel 304 재질의 히터가 수조를 직접 가열하여 신속히 설정 온도에 도달
- Visco-Sight Bath는 ASTM D-455 점도측정 실험에 적합하며 5개의 점도계를 사용할 수 있음
- 작동 온도 범위는 상온 +5°C to 99°C, 정밀도 ± 0.1°C 미네랄오일 실리콘오일, 물등을 가열 매체로 사용 가능
- 강력한 마그네틱 순환펌프를 장착하여 배스 내부의 물을 순환시켜 뛰어난 온도 분포

## Convenience

- Clear side glass window to measuring viscosity easily
- Easy to clean polished Stainless Steel 304 Bath
- Perforated stainless steel shelf plate
- Corrosion resistant polycarbonate magnetic driven pump
- Drain for easy emptying of the bath fluid
- Supplied with stainless steel cover with five holes for popular capillary
  
- 전후면 투명한 강화 유리창을 통해 손쉽게 점도 측정
- 부식에 강한 연마 처리된 Stainless Steel(SUS304) 배스는 세척과 유지보수가 간편
- 부식에 강한 polycarbonate 재질의 마그네틱 펌프
- Stainless Steel 304 재질의 바닥 타공판
- 배수용 드레인 밸브장착
- 표준 점도계를 5개 사용할 수 있는 홀과 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
- 누전차단기 : 전기 누설 시 주전원 차단

## Ordering Information

		JSVB-30T
Bath Volume (Capacity)		31 L
Dimensions	Inner	350 x 300 x 300
W x D x H mm	Usable	350 x 300 x 250
	Outer	600 x 440 x 370
Temperature	Range	ambient +5 °C ~ 99 °C
	Accuracy at 50.0°C	± 0.1 °C
	Uniformity at 50.0°C	± 0.4 °C
Water Circulation		Magnetic Driven Circulation Pump
Heater Capacity		1.6 kW
Power Rating		7.2 Amp
Power Plug		CEE 7/7 Schuko