

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97

Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

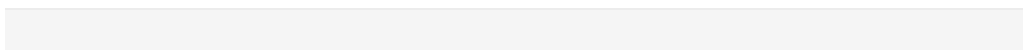
www.jsr.nt-rt.ru | jou@nt-rt.ru

Технические характеристики на встряхивающие водяные бани JSSB КОМПАНИИ JSR



Heated Digital Water Bath

JSWB-T Series Digital Water Bath to provides constant temperature environment with heated water. Suitable for biotechnology, chemistry, medical, environmental and general laboratory applications of temperature range from ambient +5 oC to 99 oC

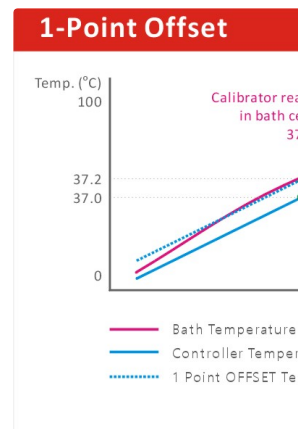
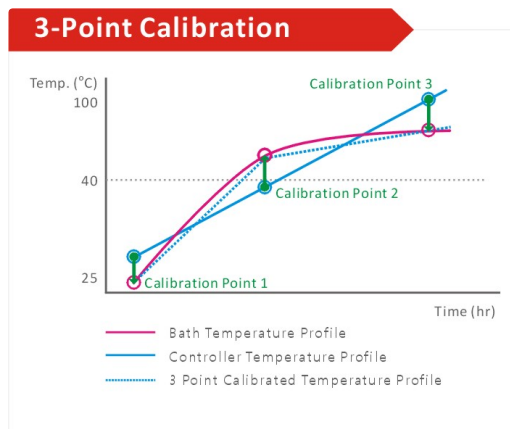
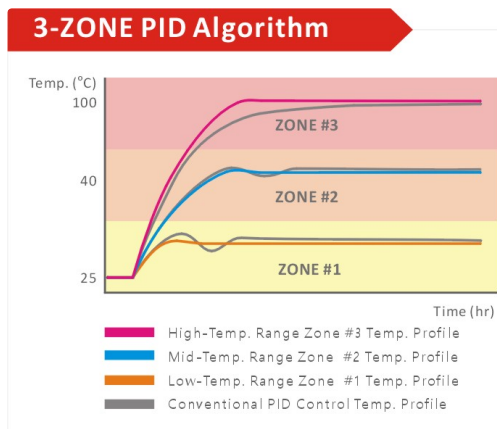


Common Specifications

Heating	Direct Immersion Sheath Heater
Temp. Range	ambient + 5 °C ~ 120 °C
Accuracy	± 0.2 °C at 37.0 °C (JSWB-11T)
Uniformity	± 0.8 °C at 37.0 °C (JSWB-11T)
Control	Digital Microprocessor PID Temperature Controller
	3-Zone Temperature Control Algorithm
	3-Point Temperature Calibration
	1-Point Temperature Offset Calibration
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
	Heater Cover – Perforated Stainless Steel 304
Electric	220±10% VAC 50/60Hz 1-Phase
Plug config.	CEE 7/7 Schuko or BS 1363

Features



Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID Algorithm to provides precise and superior temperature control characteristic of whole temperature range.

An excellent calibration tool to calibrate chamber at THREE DIFFERENT TEMPERATURE POINTS to adjust multiple TEMPERATURE BIAS to increase temperature accuracy of whole temperature range.

Provides simple and easy calibration to calibrate chamber at ONE SPECIFIC TEMPERATURE POINT of frequent

Performance

- Maintain water temperature from ambient + 5 °C to 99 °C
- Excellent control accuracy within ± 0.2 °C and thermal uniformity within ± 0.8 °C
- Corrosion resistant Stainless Steel 304 sheath immersion heater directly heating water in the bath to reach set temperature quickly
- Perforated heater cover helps convection of heated water circulation throughout bath to maintain thermal uniformity of the bath

Controller

- DIGITAL MICROPROCESSOR PID TEMPERATURE CONTROLLER
Integrated Digital Microprocessor Control System
- GRAPHIC LCD DISPLAY
Back Light Graphic LCD Display provides user-friendly operating information
- UV COATED POLYCARBONATE TOUCH PANEL
Equipped with Capacitive LED Lighting Touch Button provides sensitive touching operation and durability
- ENCODER TYPE JOG DIAL
Push to Start and Stop, Rotary turn to change values provides easy and simple user interface
- 0.1 °C CONTROL RESOLUTION
- TURN-ON TIMER up to 99 hour 59 min and alarm
- TURN-OFF DELAY TIMER up to 99 hour 59 min and alarm
- Temperature and Timer Memory Function in frequent use
- 3-ZONE PID ALGORITHM
- 3-POINT CALIBRATION / 1-POINT OFFSET CALIBRATION
- POWER and TIMER RESTORE FUNCTION in case electric power outage
- CLASS A PT-100 Ω Sensor

Construction

- Durable epoxy powder coated metallic casing
- Corrosion resistant Seamless Electro-Polished Stainless Steel 304 bath
- Corrosion resistant Stainless Steel 304 sheath immersion heater
- Corrosion resistant Stainless Steel 304 flat lid included
- Perforated heater cover (bottom plate) included

Convenience

- Easy to clean Electro-Polished seamless Stainless Steel 304 Bath
- Perforated stainless steel bottom plate
- Drain for easy emptying the bath fluid (JSWB-22T, JSWB-30T only)
- Supplied with stainless steel Flat Lid to help reduce heat losses and evaporation

Safety

- MAXIMUM TEMPERATURE LIMIT SETTING, CUT-OFF HEATER AND AUDIO VISUAL ALARM
- DUAL OVER TEMPERATURE CUT-OFF BY CONTROLLER AND INDEPENDENT THERMOSTAT
Controller Program cut-off heater and AUDIO VISUAL ALARM in case +10 °C above set temperature
Independent analog thermostat cut-off heater 10% above set temperature
- HIGH TEMPERATURE CUT-OFF AND AUDIO VISUAL ALARM
- LOW TEMPERATURE CUT-OFF AND AUDIO VISUAL ALARM
- PT SENSOR SHORT OR DISCONNECTION AUDIO VISUAL ALARM
- OVER CURRENT CUT-OFF : Fuse

Models

DESCRIPTIONS	JSWB-06T	JSWB-11T	JSWB-22T	JSWB-30T
Dimension Data				
Bath Volume	6 Liters	11 Liters	22 Liters	30 Liters
Inner Dims. (W x D x H mm)	300 x 155 x 150	300 x 240 x 150	500 x 300 x 150	500 x 300 x 200
Usable Dims. (W x D x H mm)	300 x 155 x 110	300 x 240 x 110	500 x 300 x 110	500 x 300 x 160
Outer Dims. (W x D x H mm)	340 x 200 x 270	340 x 285 x 270	545 x 345 x 270	545 x 345 x 320
Performance Data				
Heating System	Immersed Heating Element			
Temp. Setting Range	Amb. +5 °C ~ 120.0 °C			
Accuracy at 37.0 °C	±0.2 °C	←	←	±0.2 °C
Uniformity at 37.0 °C	±0.8 °C	←	←	±1.0 °C
Controller				
Processor	Digital Microprocessor PID Temperature Controller			
Display	Back Light Graphic LCD Display			
Panel	UV Coated Polycarbonate Solid Touch Panel			
Button	Capacitive touch LED Lighting Touch Button			
Interface	Push and Rotary encoder type Jog Dial			
Control Logic	3 Zone PID Control			
Calibration	1 Point Temperature OFFSET 3 Point Temperature Calibration			
Resolution	0.1 °C			
Turn-Off Timer	Max. 99 hr 59 min			
Turn-On Delay Time	Max. 99 hr 59 min			
Sensor	CLASS A PT-100 Ω Sensor			
Power Restoration	Power and Timer Restoration Function in case of power outage			
Safety Data				
Safety Device	Max. Temp. Limit and Cut-Off audio visual alarm Dual Over Temp. Cut-Off by Controller and Thermostat High Temp. Cut-Off audio visual alarm Low Temp. Cut-Off audio visual alarm PT-Sensor Short or Open audio visual alarm Over Current Cut-Off			
Material Data				
Body	Epoxy Powder Coated Steel			
Bath	Seamless Stainless Steel 304 (AISI304)			
Heating Element	Stainless Steel 304 (AISI304)			

Electrical Data

Rated voltage	230 ± 10% VAC			
Power frequency	50 / 60Hz			
Heater Output	600 W	1.0 kW	1.5 kW	2.0 kW
Power Consumption	600 W 2.7 amp	1.0 kW 4.6 amp	1.5 kW 6.8 amp	2.0 kW 9.2 amp
Phase	1 Phase			
Plug configuration	CEE 7/7 Schuko or BS 1363			

Usable Condition

Temp. & Humidity	5°C - 40 °C, < 80% RH			
------------------	-----------------------	--	--	--

Packaging Data

Shipping Dims. (WxDxH mm)	450 x 350 x 320	450 x 350 x 320	600 x 400 x 320	600 x 400 x 380
Type of packaging	Carton	←	←	←
Net Weight	5.0 kg	7.0 kg	10.0 kg	12.0 kg
Shipping Weight	6.0 kg	8.0 kg	11.0 kg	13.0 kg

Ordering Information

Art. No.	Descriptions	Voltage
JSWB-06T	Heated Digital Water Bath, 6 L	
	including standard accessories	
	1 ea x Heater Cover	
	1 ea x Flat Lid	230 VAC 1~ ph 50/60Hz
	1 ea x Instruction Manual	
	1 ea x Warranty Certificate	
JSWB-11T	Heated Digital Water Bath, 11 L	
	including standard accessories	
	1 ea x Heater Cover	
	1 ea x Flat Lid	230 VAC 1~ ph 50/60Hz
	1 ea x Instruction Manual	
	1 ea x Warranty Certificate	
JSWB-22T	Heated Digital Water Bath, 22 L	
	including standard accessories	
	1 ea x Heater Cover	
	1 ea x Flat Lid	230 VAC 1~ ph 50/60Hz
	1 ea x Instruction Manual	
	1 ea x Warranty Certificate	
JSWB-30T	Heated Digital Water Bath, 30 L	
	including standard accessories	
	1 ea x Heater Cover	
	1 ea x Flat Lid	230 VAC 1~ ph 50/60Hz
	1 ea x Instruction Manual	
	1 ea x Warranty Certificate	

Optional Accessories

Art. No.	Descriptions
PHL-WG06	Stainless Steel Gabled Lid for JSWB-06T
PHL-WG11	Stainless Steel Gabled Lid for JSWB-11T
PHL-WG22	Stainless Steel Gabled Lid for JSWB-22T
PHL-WG30	Stainless Steel Gabled Lid for JSWB-30T
PHL-WR06	1 x 2 Hole Stainless Steel Concentric Ring Cover for JSWB-06T
PHL-WR11	1 x 2 Hole Stainless Steel Concentric Ring Cover for JSWB-11T
PHL-WR22	2 x 3 Hole Stainless Steel Concentric Ring Cover for JSWB-22T
PHL-WR30	2 x 3 Hole Stainless Steel Concentric Ring Cover for JSWB-30T

Алматы (7273)495-231
 Ангарск (3955)60-70-56
 Архангельск (8182)63-90-72
 Астрахань (8512)99-46-04
 Барнаул (3852)73-04-60
 Белгород (4722)40-23-64
 Благовещенск (4162)22-76-07
 Брянск (4832)59-03-52
 Владивосток (423)249-28-31
 Владикавказ (8672)28-90-48
 Владимир (4922)49-43-18
 Волгоград (844)278-03-48
 Вологда (8172)26-41-59
 Воронеж (473)204-51-73
 Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
 Ижевск (3412)26-03-58
 Иркутск (395)279-98-46
 Казань (843)206-01-48
 Калининград (4012)72-03-81
 Калуга (4842)92-23-67
 Кемерово (3842)65-04-62
 Киров (8332)68-02-04
 Коломна (4966)23-41-49
 Кострома (4942)77-07-48
 Краснодар (861)203-40-90
 Красноярск (391)204-63-61
 Курск (4712)77-13-04
 Курган (3522)50-90-47
 Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
 Москва (495)268-04-70
 Мурманск (8152)59-64-93
 Набережные Челны (8552)20-53-41
 Нижний Новгород (831)429-08-12
 Новокузнецк (3843)20-46-81
 Ноябрьск (3496)41-32-12
 Новосибирск (383)227-86-73
 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16
 Петрозаводск (8142)55-98-37
 Псков (8112)59-10-37

Пермь (342)205-81-47
 Ростов-на-Дону (863)308-18-15
 Рязань (4912)46-61-64
 Самара (846)206-03-16
 Саранск (8342)22-96-24
 Санкт-Петербург (812)309-46-40
 Саратов (845)249-38-78
 Севастополь (8692)22-31-93
 Симферополь (3652)67-13-56
 Смоленск (4812)29-41-54
 Сочи (862)225-72-31
 Ставрополь (8652)20-65-13
 Сургут (3462)77-98-35
 Сыктывкар (8212)25-95-17
 Тамбов (4752)50-40-97

Тверь (4822)63-31-35
 Тольятти (8482)63-91-07
 Томск (3822)98-41-53
 Тула (4872)33-79-87
 Тюмень (3452)66-21-18
 Ульяновск (8422)24-23-59
 Улан-Удэ (3012)59-97-51
 Уфа (347)229-48-12
 Хабаровск (4212)92-98-04
 Чебоксары (8352)28-53-07
 Челябинск (351)202-03-61
 Череповец (8202)49-02-64
 Чита (3022)38-34-83
 Якутск (4112)23-90-97
 Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47