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# Технические характеристики на цифровые водяные бани с подогревом, цифровые водяные бани косвенного нагрева JSWB-T, JSWB-TL, аксессуары КОМПАНИИ JSR



## Indirect Heated Digital Water Bath

JSWB-TL Series Indirect Heated Digital Water Bath provides constant temperature environment with heated water. Ceramic Heating Element located beneath the surface of the bath makes it easier for cleaning and maintaining. It also has more usable height space. In addition, its structure provides better temperature uniformity by heating the entire bath floor. Suitable for biotechnology, chemistry, medical, environmental and general laboratory applications of temperature range from ambient +5 °C to 70 °C

### Common Specifications

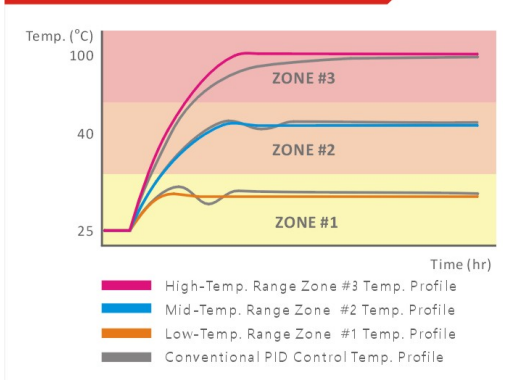
<b>Heating</b>	Indirect Ceramic Heater
<b>Temp. Range</b>	ambient + 5 °C ~ 70 °C
<b>Accuracy</b>	± 0.2 °C at 37.0 °C
<b>Uniformity</b>	± 0.5 °C at 37.0 °C
<b>Control</b>	Digital Microprocessor PID Temperature Controller
	3-Zone Temperature Control Algorithm
	3-Point Temperature Calibration
	1-Point Temperature Offset Calibration
<b>Sensor</b>	Class A Pt-100 Ω Sensor
<b>Safety</b>	Over-Temperature Cut-Off

	Over Current Cut-Off
<b>Material</b>	Body - Epoxy Powder Coated Steel
	Bath – Electro-polished Seamless Stainless Steel 304
	Heater Cover – Perforated Stainless Steel 304
<b>Electric</b>	220±10% VAC 50/60Hz 1-Phase
<b>Plug config.</b>	CEE 7/7 Schuko or BS 1363

## Features

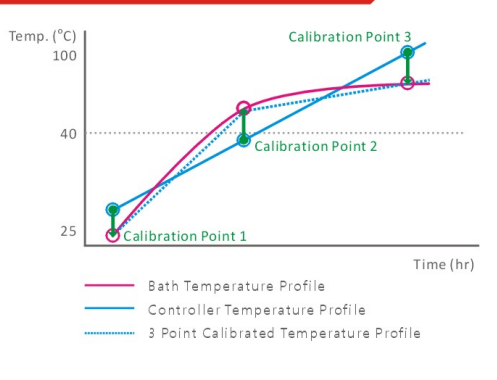


### 3-ZONE PID Algorithm



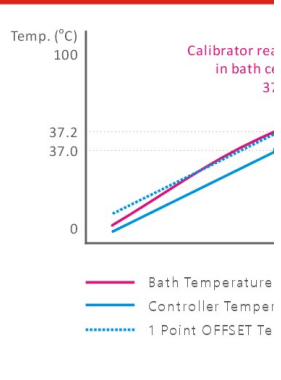
Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID Algorithm to provides precise and superior temperature control characteristic of whole temperature range.

### 3-Point Calibration



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.

### 1-Point Offset



Provides simple and easy calibrat to calibrate chamber at ONE SPE TEMPERATURE POINT of frequ

## Performance

- Maintain bath temperature from ambient + 5 °C to 70 °C
- Excellent control accuracy within  $\pm 0.1$  °C and thermal uniformity within  $\pm 0.5$  °C
- Ceramic Heating Element located beneath the surface of the bath provides better temperature uniformity by heating the entire bath floor indirectly.
- Perforated Bottom Plate 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  $\Omega$  Sensor

## Construction

- Durable epoxy powder coated metallic casing
- Corrosion resistant Seamless Electro-Polished Stainless Steel 304 bath
- Ceramic Heating Element located beneath the surface of the bath makes it easier for cleaning and maintaining. It also has more usable height space compared to Immersion Heated Water Bath.
- Corrosion resistant Stainless Steel 304 flat lid included
- Perforated Bottom Plate included

## Convenience

- Easy to clean Electro-Polished seamless Stainless Steel 304 Bath
- Perforated stainless steel bottom plate
- 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-06TL	JSWB-11TL	JSWB-22TL	JSWB-30TL
<b>Dimension Data</b>				
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 190
Usable Dims. (W x D x H mm)	300 x 155 x 140	300 x 240 x 140	500 x 300 x 140	500 x 300 x 180
Outer Dims. (W x D x H mm)	340 x 220 x 300	340 x 305 x 300	545 x 365 x 300	545 x 365 x 350
<b>Performance Data</b>				
Heating System	Indirect heating by Ceramic Heating Element from the bath floor			
Temp. Setting Range	Amb. +5 °C ~ 80.0 °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
<b>Controller</b>				
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			
<b>Safety Data</b>				
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			
<b>Material Data</b>				
Body	Epoxy Powder Coated Steel			
Bath	Seamless Stainless Steel 304 (AISI304)			

Heating Element                      Ceramic Heater

#### Electrical Data

Rated voltage	230 ± 10% VAC			
Power frequency	50 / 60Hz			
Heater Output	620 W	1.1 kW	1.5 kW	2.0 kW
Power Consumption	620 W 2.8 amp	1.1 kW 4.8 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	7.0 kg	8.0 kg	14.0 kg	15.0 kg

## Ordering Information

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

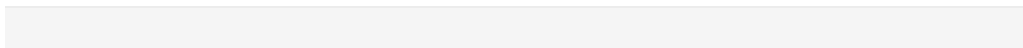
## Optional Accessories

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



## 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



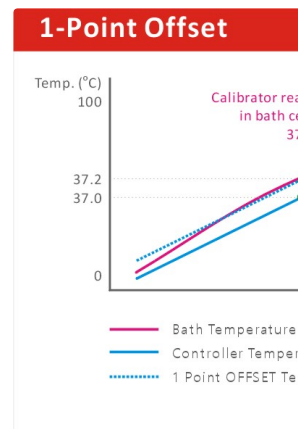
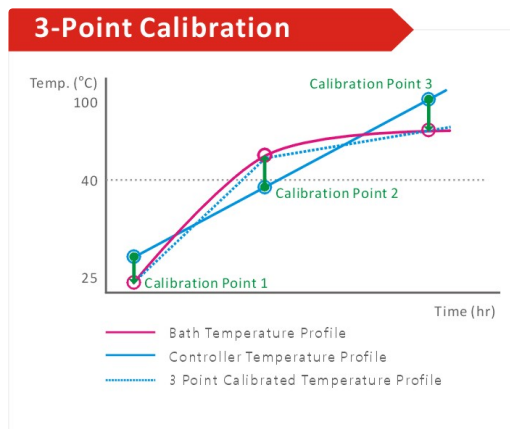
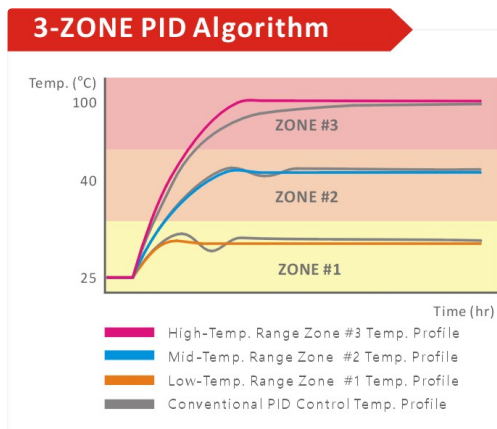
### Common Specifications

<b>Heating</b>	Direct Immersion Sheath Heater
<b>Temp. Range</b>	ambient + 5 °C ~ 120 °C
<b>Accuracy</b>	± 0.2 °C at 37.0 °C (JSWB-11T)
<b>Uniformity</b>	± 0.8 °C at 37.0 °C (JSWB-11T)
<b>Control</b>	Digital Microprocessor PID Temperature Controller
	3-Zone Temperature Control Algorithm
	3-Point Temperature Calibration
	1-Point Temperature Offset Calibration
<b>Sensor</b>	Class A Pt-100 Ω Sensor
<b>Safety</b>	Over-Temperature Cut-Off
	Over Current Cut-Off



<b>Material</b>	Body - Epoxy Powder Coated Steel
	Bath – Electro-polished Seamless Stainless Steel 304
	Heater Cover – Perforated Stainless Steel 304
<b>Electric</b>	220±10% VAC 50/60Hz 1-Phase
<b>Plug config.</b>	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 calibrat 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  $\pm 0.2$  °C and thermal uniformity within  $\pm 0.8$  °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  $\Omega$  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
<b>Dimension Data</b>				
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
<b>Performance Data</b>				
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
<b>Controller</b>				
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			
<b>Safety Data</b>				
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			
<b>Material Data</b>				
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			
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**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
<b>JSWB-06T</b>	<b>Heated Digital Water Bath, 6 L</b>	230 VAC 1~ ph 50/60Hz
	including standard accessories	
	1 ea x Heater Cover	
	1 ea x Flat Lid	
	1 ea x Instruction Manual	
<b>JSWB-11T</b>	<b>Heated Digital Water Bath, 11 L</b>	230 VAC 1~ ph 50/60Hz
	including standard accessories	
	1 ea x Heater Cover	
	1 ea x Flat Lid	
	1 ea x Instruction Manual	
<b>JSWB-22T</b>	<b>Heated Digital Water Bath, 22 L</b>	230 VAC 1~ ph 50/60Hz
	including standard accessories	
	1 ea x Heater Cover	
	1 ea x Flat Lid	
	1 ea x Instruction Manual	
<b>JSWB-30T</b>	<b>Heated Digital Water Bath, 30 L</b>	230 VAC 1~ ph 50/60Hz
	including standard accessories	
	1 ea x Heater Cover	
	1 ea x Flat Lid	
	1 ea x Instruction Manual	

## 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

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