



INDIRECT HEATED
DIGITAL WATER BATH

JSWB-TL Series

INDIRECT HEATED DIGITAL WATER BATH

amb. +5 °C ~ 70 °C
6, 11, 22, 30 LITER

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



JSWB-22TL Indirect Heated Digital Water Bath, 22 liter



JSWB-11TL Indirect Heated Digital Water Bath, 11 liter

Features

Performance

Temperature Range : amb. +5 °C to 70 °C
Temperature Accuracy : within +/- 0.1 °C
Temperature Uniformity : within +/- 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 heater cover helps convection of heated water circulation throughout bath to maintain thermal uniformity of the bath

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
Perforated Bottom Plate

Convenience

Easy to clean Electro-Polished seamless SS 304 Bath
Supplied with stainless steel Flat Lid to help reduce heat losses and evaporation

Safety

DUAL OVER TEMPERATURE CUT-OFF BY CONTROLLER AND INDEPENDENT THERMOSTAT
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

3-ZONE PID Algorithm

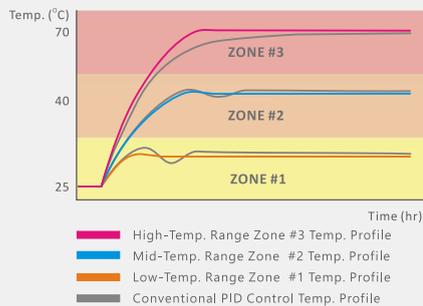
3-Point Calibration

1-Point Offset

Temperature Control

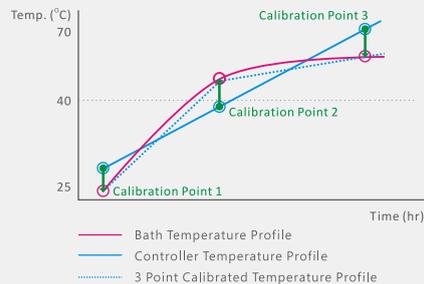
- Digital Microprocessor PID Controller
- High-fidelity clear back light LCD displays complete setting and operating condition at a glance
- UV Coated Polycarbonate Touch Panel
- Easy-to-use Encoder Type Jog Dial for quick and convenient setting of temperature and timer
- 0.1 °C Control resolution
- Turn-On and Turn-Off Timer up to 99 hour 59 min.
- Temperature and Timer memory function in frequent use
- 3-Zone PID Algorithm
- 3-Point Calibration
- 1-Point Offset Calibration
- Power Outage and Restore Function
- Class A Pt-100 Ohm Sensor

3-ZONE PID Algorithm



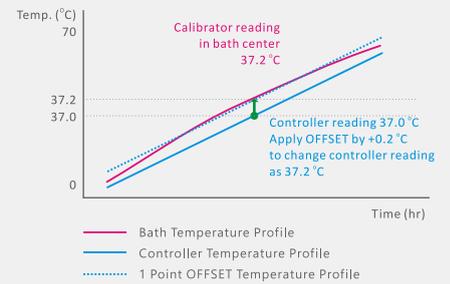
Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID algorithm to provide precise and superior temperature control characteristic of whole temperature range.

3-Point Calibration



An excellent calibration tool to calibrate bath 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 calibration tool to calibrate chamber at ONE SPECIFIC TEMPERATURE POINT of frequent use.



Specifications

Model	JSWB-06TL	JSWB-11TL	JSWB-22TL	JSWB-30TL
Dimension Data				
Bath Volume	6 Liters	11 Liters	22 Liters	30 Liters
Inner Dims. (WxDxH) mm	300 x 155 x 150	300 x 240 x 150	500 x 300 x 150	500 x 300 x 200
Usable Dims. (WxH) mm	300 x 155 x 140	300 x 240 x 140	500 x 300 x 140	500 x 300 x 180
Outer Dims. (WxDxH) mm including	340 x 220 x 300	340 x 305 x 300	545 x 365 x 300	545 x 365 x 350
	1 ea x Heater Cover, 1 ea x Stainless Steel 304 Flat Lid			
Performance Data				
Heating System	Indirect heating by Ceramic Heating Element from the bath floor			
Temperature Range	ambient +5 °C to 70.0 °C, 0.1 °C resolution			
Temperature Accuracy at 37.0 °C	+/- 0.1 °C	+/- 0.1 °C	+/- 0.1 °C	+/- 0.1 °C
Temperature Uniformity at 37.0 °C	+/- 0.5 °C	+/- 0.5 °C	+/- 0.5 °C	+/- 0.5 °C
Controller				
Type	Digital Microprocessor PID Temp. Controller with Capacitive Touch Button and Jog Dial			
Display	Full Size Digital Back Light Graphic LCD Display			
Control Logic	3 Zone PID Control			
Calibration	1 Point Temperature Offset 3 Point Temperature Calibration			
Turn-Off Timer	Max. 99 hr 59 min by 1 min resolution			
Turn-On Timer	Max. 99 hr 59 min by 1 min resolution			
Sensor	Class A Pt-100 Ohm Sensor			
Power Restoration	Power and Timer Restoration Function in case of power outage			
Material Data				
Body	Epoxy Powder Coated Steel			
Chamber	Seamless Stainless Steel 304 (AISI304)			
Heating Element	Stainless Steel 304 (AISI304)			
Safety Data				
Safety Device	Over Temperature / Over Current Protection Audio Visual Alarm			
Electrical Data				
Power Requirement	230 +/- 10% VAC 50/60 Hz 1 Phase			
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
Plug Configuration	CEE 7/7 Schuko or BS 1363			
Usable Condition				
Temp. & Humidity	5 °C - 40 °C, 80% RH Max.			

JSR

JS Research Inc.
 Gongju-City, KOREA
 info@jsresearch.co.kr
 www.jsr.kr

JSWB-TL Series

INDIRECT HEATED DIGITAL WATER BATH

amb. +5 °C ~ 70 °C
6, 11, 22, 30 LITER

Ordering Information

Art. Number

Descriptions

JSWB-06TL	Indirect Heated Digital Water Bath 6 Liter	230 VAC 1 ph 50/60Hz
JSWB-11TL	Indirect Heated Digital Water Bath 11 Liter	230 VAC 1 ph 50/60Hz
JSWB-22TL	Indirect Heated Digital Water Bath 22 Liter	230 VAC 1 ph 50/60Hz
JSWB-30TL	Indirect Heated Digital Water Bath 30 Liter	230 VAC 1 ph 50/60Hz

Accessories

Gabled Lid, Stainless Steel 304

PHL-WG06	Gabled Lid for JSWB-06TL
PHL-WG11	Gabled Lid for JSWB-11TL
PHL-WG22	Gabled Lid for JSWB-22TL
PHL-WG30	Gabled Lid for JSWB-30TL



Accessories

Concentric Ring Cover, Stainless Steel 304, 4-Rings Dia. 30, 60, 90, 100 mm

PHL-WR06	1 x 2 Holes, Concentric Ring Cover, 4-Rings for JSWB-06TL
PHL-WR11	1 x 2 Holes, Concentric Ring Cover, 4-Rings for JSWB-11TL
PHL-WR22	2 x 3 Holes, Concentric Ring Cover, 4-Rings for JSWB-22TL
PHL-WR30	2 x 3 Holes, Concentric Ring Cover, 4-Rings for JSWB-30TL



DISTRIBUTOR

JSR

JS Research Inc.

69, Gumsanggogae-Gil,
Gongju-City, KOREA

Phone: +82-41-856-3677

Fax: +82-41-856-3679

info@jsresearch.co.kr

www.jsr.kr