

## COMMODITY DESCRIPTION

H.S. No	Item No	Description	Unit	Quantity
		Immersion Bath Circulator	set	1

A. Model : JSIB-11T

B. Product Description : Immersion Bath Circulator

C. Manufacturer / Origin : JS Research Inc. / Korea

D. Application :

Heated circulating open bath system controls temperature range from ambient +5 °C to 99 °C with internal and external circulation pump. Internal circulation allows precise thermal uniformity within  $\pm 0.1$  °C comparing to the conventional heated bath without circulation pump. External circulation pump enables to circulates heated water (liquid) to external equipments such applications as warming of reagents and culture media, thawing or tempering samples, biological incubation, cell culture, enzyme assays, or controlling the temperature of laboratory equipment such as chromatography columns, viscometers and densitometers. External circulation pump capacity 8 liters/min. in flow rate and 0.3 bar in pressure

E. Photo



JSIB-xxT Immersion Bath Circulator

## **F. Feature**

### **Controller JSC-0D Digital PID Controller**

- ✓  $\pm 0.1$  °C Digital PID Controller with LED Display
- ✓ Automatic START/STOP timer
- ✓ Adjustable timer scale 99min 59sec / 99hr 59min / 99day 23hr or continuous operation
- ✓ Temperature calibration
- ✓ Auto-tuning function
- ✓ 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 circulation pump assembly
- ✓ Corrosion resistant Stainless Steel 304 flat lid included
- ✓ Perforated heater cover (bottom plate) included

### **Performance**

- ✓ Maintain water temperature from ambient + 5 °C to 99 °C
- ✓ Excellent control accuracy within  $\pm 0.2$  °C and thermal uniformity within  $\pm 0.2$  °C
- ✓ Stainless steel immersion circulation pump circulates thermal fluid within the bath for higher thermal uniformity or circulates thermal fluid to external closed loop with flow rate 8 liter/min and 0.3 bar in pressure
- ✓ Corrosion resistant Stainless Steel 304 sheath immersion heater directly heating water in the bath to reach set temperature quickly

### **Convenience**

- ✓ Easy to clean Electro-Polished seamless Stainless Steel 304 Bath
- ✓ Perforated stainless steel bottom plate
- ✓ Drain for easy emptying of the bath fluid
- ✓ Supplied with stainless steel flat cover to help reduce heat losses and evaporation
- ✓ Easy to connect  $\varnothing 9$  mm hose barb inlet and outlet fitting for external circulation

### **Safety**

- ✓ DUAL OVER TEMP. CUT-OFF  
Digital system cut-off heater and AUDIO VISUAL ALARM in case +2 °C above set temperature  
Analog system cut-off heater 10% above set temp.
- ✓ MAX TEMP CUT-OFF heater and AUDIO VISUAL ALARM when +1 °C above maximum limit
- ✓ SENSOR DISCONNECTION ALARM
- ✓ LOW WATER LEVEL CUT-OFF
- ✓ OVER CURRENT CUT-OFF : Fuse

## G. Specifications

Bath Capacity	11 Liters
Inner Dims. (W x D x H)	300 x 240 x 150 mm
Usable Dims. (W x D x H)	120 x 240 x 150 mm
Outer Dims. (W x D x H)	365 x 300 x 410 mm
Temp. Range	ambient +5°C ~ +99°C
Accuracy	±0.1°C at +37°C
Uniformity	±0.2°C at +37°C
Circulation Pump	Flow Rate : 8 liter/min Pressure : 0.3 bar
Control	Microprocessor PID control Auto START / STOP Timer
Sensor	Class A PT-100 Ω Sensor
Safety	Over-Temperature Cut-Off Over Current Cut-Off Low water level cut-off
Material	Body : Epoxy Powder Coated Steel Bath : Seamless Stainless Steel 304 Pump : Stainless Steel 304
Electrical Requirement	220 ± 10% VAC, 50/60Hz, 1-Phase
Heater Capacity	850 W
Power Rating	3.9 amps
Plug Configuration	CEE 7/7 Schuko or BS 1363

## H. Standard Accessories

Flat Lid, Stainless Steel 304 : 1 EA  
Power Cord : 1 EA  
Instruction Manual : 1 EA  
Warranty Card : 1 EA

## I. Options & Accessories

## J. Warranty

1 Year full coverage warranty