

## COMMODITY DESCRIPTION

H.S. No	Item No	Description	Unit	Quantity
		Digital Oil Bath	set	1

A. Model : JSOB-300T

B. Product Description : Digital Oil Bath

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

D. Application :

JSOB-Series Digital Oil Bath is suitable for high temperature applications using oil as a thermal media up to 250 °C such as heat transfer, dipping and melting experiment

E. Photo



JSOB-300T Digital Oil Bath

## **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 Stainless Steel 304 bath
- ✓ Corrosion resistant Stainless Steel 304 sheath immersion heater
- ✓ Corrosion resistant Stainless Steel 304 lid with silicone gasket and exhaust
- ✓ Perforated heater cover (bottom plate) included

### **Performance**

- ✓ Maintain oil temperature from ambient + 10 °C to 250 °C
- ✓ Excellent control accuracy within  $\pm 1.0$  °C and thermal uniformity within  $\pm 3.0$  °C
- ✓ Corrosion resistant Stainless Steel 304 sheath immersion heater directly heating oil 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

### **Convenience**

- ✓ Perforated stainless steel bottom plate
- ✓ Drain for easy emptying of the bath fluid
- ✓ Supplied with stainless steel lid with silicone gasket and exhaust to help reduce heat losses and evaporation

### **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
- ✓ OVER CURRENT CUT-OFF

## G. Specifications

Bath Capacity	33 Liters
Inner Dims. (W x D x H)	430 x 300 x 260 mm
Usable Dims. (W x D x H)	430 x 300 x 210 mm
Outer Dims. (W x D x H)	680 x 390 x 450 mm
Temp. Range	ambient +10°C ~ +250°C
Accuracy	±1.0°C at +120°C
Uniformity	±3.0°C at +120°C
Control	Microprocessor PID control Auto START / STOP Timer
Sensor	Class A PT-100 Ω Sensor
Safety	Over-Temperature Cut-Off Over Current Cut-Off
Material	Body : Epoxy Powder Coated Steel Bath : Stainless Steel 304
Electrical Requirement	220 ± 10% VAC, 50/60Hz, 1-Phase
Heater Capacity	3.0 kW
Power Rating	13.6 amps
Plug Configuration	CEE 7/7 Schuko or BS 1363

## H. Standard Accessories

Stainless steel lid with silicone gasket and exhaust hole : 1 EA  
Bottom Plate : 1 EA  
Instruction Manual : 1 EA  
Warranty Card : 1 EA

## I. Options & Accessories

## J. Warranty

1 Year full coverage warranty