

# JSBI-Series

## TABLETOP REFRIGERATED INCUBATOR

0 °C ~ 70 °C

JSBI-xxxC series Tabletop Refrigerated BOD Incubator gives excellent incubation conditions below ambient temperature for bacterial, fungal, cell and tissue culture incubation, BOD (Biological Oxygen Demand) Test, QA / QC in pharmaceutical laboratory.



JSBI-100C Tabletop Refrigerated Incubator, 100 liter

## # Features

### Performance

Temperature Range : 0 °C to 70 °C

Temperature Accuracy : within +/- 0.2 °C

Temperature Uniformity : within +/- 0.5 °C

Forced air convection for excellent thermal accuracy and uniformity.

Aero-dynamic chamber designed with circulation blower to achieve superior thermal uniformity.

Separated heating and cooling compartment located on the back wall for contamination free and maintenance free.

Hermetically Sealed Air Cooled Compressor

### Construction

Durable epoxy powder coated metallic casing.

Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevents leakage.

Tempered Safety Inner Glass Door for easy observation of samples.

### Convenience

Outer door with self-adhesive magnetic packing.

Inner Glass Door with high density silicone gasket and air-tight Door Lock.

Removable and adjustable shelf by 25mm spacing.

### 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

# 3-ZONE PID Algorithm

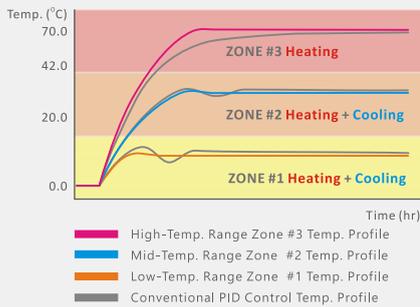
## 3-Point Calibration

### 1-Point Offset

#### Temperature Control

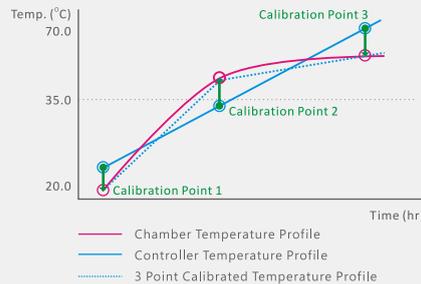
- Digital Microprocessor PID Controller
- High-fidelity clear back light LCD displays complete setting and operating condition at a glance
- UV Coated Polycarbonate Touch Panel
- Easy-to-use Encoder Type Jog Dial for quick and convenient setting of temperature and timer
- 0.1 °C Control resolution
- Auto-Start / Auto-Stop Timer 1 min. 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
- RS-232C PC Communication Interface [OPTION]

#### 3-ZONE PID Algorithm



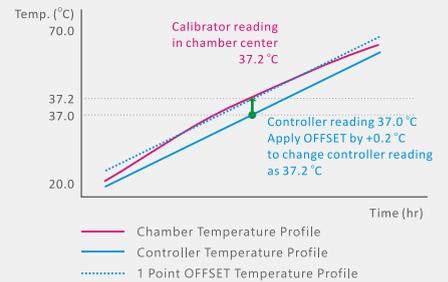
Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID algorithm to provide precise and superior temperature control characteristic of whole temperature range.

#### 3-Point Calibration



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



## # Specifications

Model	JSBI-050C	JSBI-100C
<b>Dimension Data</b>		
Chamber Volume	50 Liters	100 Liters
Inner Dims. (WxDxH) mm	400 x 360 x 350	450 x 450 x 500
Outer Dims. (WxDxH) mm	580 x 600 x 770	630 x 690 x 920
Window Dims. (WxH) mm	461 x 477	461 x 677
No. of Shelf Positions	10 ea	16 ea
No. of Shelf Included	2 ea	2 ea
<b>Performance Data</b>		
Heating & Cooling System	Forced Convection with Hermetically Sleaed Air Cooled Compressor	
Temperature Range	0 °C to 70 °C, 0.1 °C resolution	
Temperature Accuracy at 20.0 °C	+/- 0.2 °C	
Temperature Uniformity at 20.0 °C	+/- 0.5 °C	
<b>Controller</b>		
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	
Auto-Start Timer	Max. 99 hr 59 min by 1 min resolution	
Auto-Stop 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	
Communication Interface	RS-232C Communication Interface [OPTION]	
<b>Material Data</b>		
Body	Epoxy Powder Coated Steel	
Chamber	Stainlss Steel 304 (AISI304)	
Inner Glass Door	5.0 mm Thick Tempered Safety Glass Door	
<b>Safety Data</b>		
Safety Device	Over Temperature / Over Cooling / Over Current Protection Audio Visual Alarm	
<b>Electrical Data</b>		
Power Requirement	220 +/- 10% VAC   50/60 Hz   1 Phase	
Power Consumption	1.2 kW 5.5 amp	1.3 kW 6.0 amp
Plug Configuration	CEE 7/7 Schuko or BS 1363	
<b>Usable Condition</b>		
Temp. & Humidity	5 °C - 40 °C, 80% RH Max.	

**JSR**

**JS Research Inc.**

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## # Ordering Information

### Art. Number

### Descriptions

JSBI-050C	Tabletop Refrigerated Incubator	50 Liter	220 VAC 1 ph 50/60Hz
JSBI-100C	Tabletop Refrigerated Incubator	100 Liter	220 VAC 1 ph 50/60Hz

### Accessories

### Shelves

PHS-A23	Perforated Shelf, Stainless Steel 304, for JSBI-050C	W370 x D340 mm
PHS-A24	Perforated Shelf, Stainless Steel 304, for JSBI-100C	W420 x D430 mm
PHS-C09	Wire Shelf, PVC Coated, for JSBI-050C	W370 x D340 mm
PHS-C10	Wire Shelf, PVC Coated, for JSBI-100C	W420 x D430 mm
PHS-A99	Shelf Support, Set of 4 ea	

## JSBI-Series TABLETOP REFRIGERATED INCUBATOR

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DISTRIBUTOR

# JSR

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