

JSBI-Series

REFRIGERATED BOD INCUBATOR

0 °C ~ 70 °C

JSBI-xxxC series Refrigerated BOD Incubator gives excellent incubation conditions from 0 °C to 70 °C for bacterial, fungal, cell and tissue culture incubation, BOD (Biological Oxygen Demand) Test, QA / QC in pharmaceutical laboratory.



JSBI-420C Refrigerated BOD Incubator, 420 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

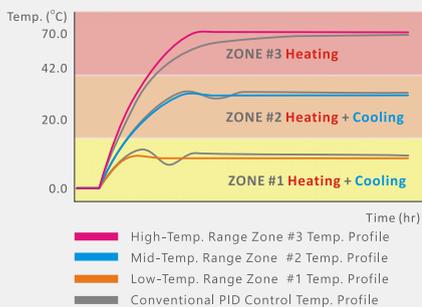
1-Point Offset

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]

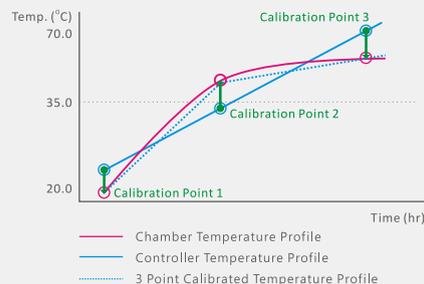


3-ZONE PID Algorithm



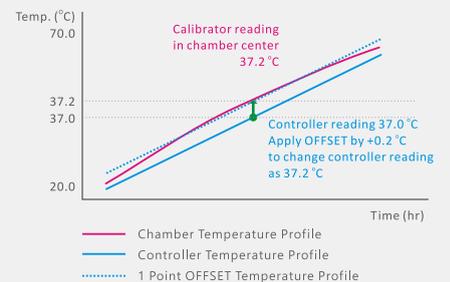
Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID algorithm to provide precise and superior temperature control characteristic of whole temperature range.

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-150C	JSBI-250C	JSBI-420C	JSBI-840C
Dimension Data				
Chamber Volume	150 Liters	250 Liters	420 Liters	840 Liters
Inner Dims. (WxDxH) mm	500 x 500 x 600	500 x 500 x 1000	700 x 600 x 1000	1400 x 600 x 1000
Outer Dims. (WxDxH) mm	680 x 825 x 1370	680 x 825 x 1770	880 x 925 x 1770	1580 x 925 x 1770
Window Dims. (WxH) mm	561 x 677	561 x 1077	761 x 1077	661 x 1077
No. of Shelf Positions	20 ea	36 ea	36 ea	72 ea
No. of Shelf Included	2 ea	3 ea	3 ea	6 ea
Performance Data				
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	+/- 0.2 °C	+/- 0.2 °C	+/- 0.2 °C
Temperature Uniformity at 20.0 °C	+/- 0.5 °C	+/- 0.5 °C	+/- 0.5 °C	+/- 1.0 °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			
Communication Interface	RS-232C Communication Interface [OPTION]			
Material Data				
Body	Epoxy Powder Coated Steel			
Chamber	Stainlss Steel 304 (AISI304)			
Inner Glass Door	5.0 mm Thick Tempered Safety Glass Door			
Safety Data				
Safety Device	Over Temperature / Over Cooling / Over Current Protection Audio Visual Alarm			
Electrical Data				
Power Requirement	220 +/- 10% VAC 50/60 Hz 1 Phase			
Power Consumption	1.6 kW 7.1 amp	1.8 kW 7.6 amp	2.4 kW 10.3 amp	5.0 kW 22.0 amp
Plug Configuration	CEE 7/7 Schuko or BS 1363			
Usable Condition				
Temp. & Humidity	5 °C - 40 °C, 80% RH Max.			

JSR

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Ordering Information

Art. Number

Descriptions

JSBI-150C	Refrigerated BOD Incubator 150 Liter	220 VAC 1 ph 50/60Hz
JSBI-250C	Refrigerated BOD Incubator 250 Liter	220 VAC 1 ph 50/60Hz
JSBI-420C	Refrigerated BOD Incubator 420 Liter	220 VAC 1 ph 50/60Hz
JSBI-840C	Refrigerated BOD Incubator 840 Liter	220 VAC 1 ph 50/60Hz

JSBI-Series REFRIGERATED BOD INCUBATOR 0 °C ~ 70 °C

Accessories

Shelves

PHS-A06	Perforated Shelf, Stainless Steel 304, for JSBI-150C	W470 x D480 mm
PHS-A06	Perforated Shelf, Stainless Steel 304, for JSBI-250C	W470 x D480 mm
PHS-A13	Perforated Shelf, Stainless Steel 304, for JSBI-420C	W670 x D580 mm
PHS-A14	Perforated Shelf, Stainless Steel 304, for JSBI-840C	W675 x D525 mm
PHS-C05	Wire Shelf, PVC Coated, for JSBI-150C	W470 x D480 mm
PHS-C05	Wire Shelf, PVC Coated, for JSBI-250C	W470 x D480 mm
PHS-C06	Wire Shelf, PVC Coated, for JSBI-420C	W670 x D580 mm
PHS-C07	Wire Shelf, PVC Coated, for JSBI-840C	W675 x D525 mm
PHS-A99	Shelf Support, Set of 4 ea	



JSBI-150C
150 Liter



JSBI-250C
250 Liter



JSBI-420C
420 Liter



JSBI-840C
Double Door 840 Liter

DISTRIBUTOR

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