

JSBI-CP Series

PROGRAMMABLE REFRIGERATED BOD INCUBATOR

0 °C ~ 70 °C



JSBI-420CP Programmable Refrigerated
BOD Incubator, 420 liter

JSBI-xxxCP series Programmable Refrigerated Incubator provides 10 Steps of temperature programming or constant temperature operation range from +0 °C to +70 °C for more versatile use. It gives excellent performance for incubation of microorganisms, BOD (Biological Oxygen Demand) Test and various QA / QC Tests.

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

Featured Controller

JIC-CON 5th GEN

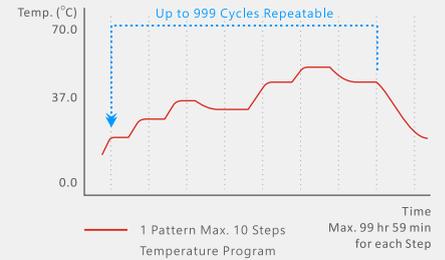
Controller Highlights

- ▶ 16-bit Digital Microprocessor PID Controller.
- ▶ High-fidelity clear back light LCD displays complete settings and operating conditions with high readability.
- ▶ UV Coated Water-Proof Polycarbonate Touch Panel.
- ▶ Easy-to-use Encoder Type Jog Dial for quick and convenient temperature and time setting.
- ▶ 0.1 °C control resolution.
- ▶ Turn-On and Turn-Off Timer up to 99 hour 59 min.
- ▶ Temperature and Timer memory function.
- ▶ 10 Step, 999 Cycle Program.
- ▶ Temperature and Timer automatically resume after power restoration.
- ▶ Class A Pt-100 Ohm Sensor.
- ▶ RS-232C PC Communication Interface. [OPTION]

- 3-ZONE PID Algorithm**
- 3-Point Calibration**
- 1-Point Offset**
- 10-Step 999-Cycle Program**

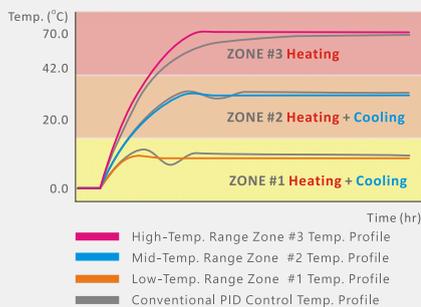


10 Step Program



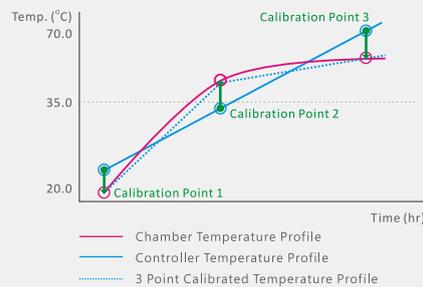
User can create 10 Steps of varying temperature program and save it in memory for repeated use. Program can be repeated up to Max. 999 Cycles.

3-ZONE PID Algorithm



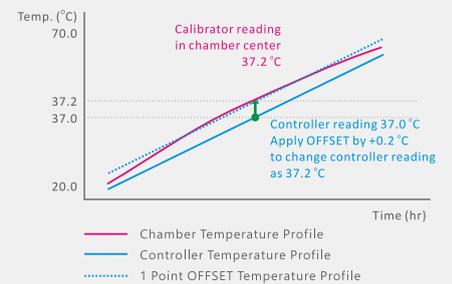
Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID algorithm to provide precise and superior temperature control characteristic of whole temperature range.

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-150CP	JSBI-250CP	JSBI-420CP	JSBI-840CP
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 Group Zone PID Control			
Calibration	1 Point Temperature Offset 3 Point Temperature Calibration			
Temp. Program	1 Pattern, 10 Steps, 1 ~ 999 (Unlimited) Times Repeatable			
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]			
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	Door Open / 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

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

Art. Number

Descriptions

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

Accessories

Shelves

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



JSBI-150CP
150 Liter



JSBI-250CP
250 Liter



JSBI-420CP
420 Liter



JSBI-840CP
Double Door 840 Liter

DISTRIBUTOR

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