

Model JSBI-050CP : Programmable Tabletop Refrigerated Incubator



JSBI-050CP Programmable Tabletop 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.

MAIN FEATURES

PERFORMANCE

- Control Temperature Range from +0°C to +70°C
- Forced air circulation for excellent thermal accuracy and uniformity
- Aero-dynamic chamber designed with circulation blower to achieve superior thermal uniformity
- Separate heating compartment located on back wall for contamination free and maintenance free
- Air cooled refrigeration system with hermetically sealed compressor

CONSTRUCTION

- Durable epoxy powder coated metallic casing
- Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevent leakage
- Tempered safety inner glass door for easy observation of samples

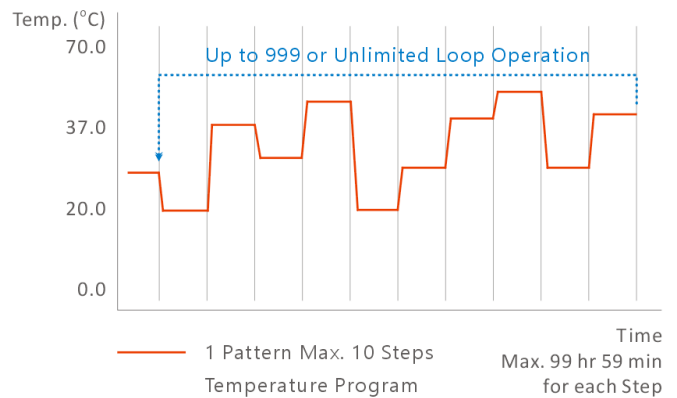
CONTROLLER HIGHLIGHT



-10 STEP PROGRAMMING CAPABILITY

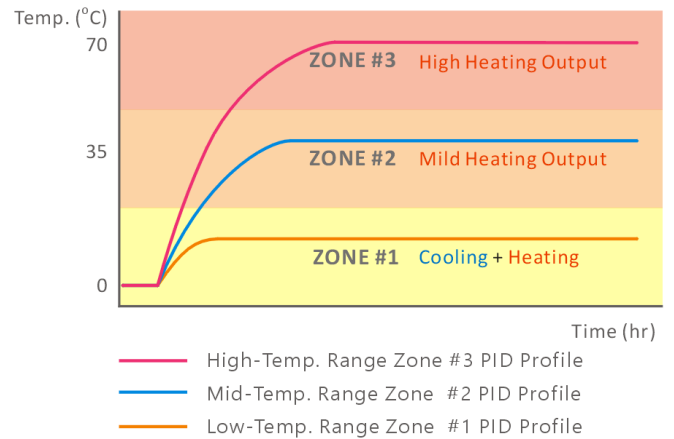
User can compose 10 steps of varying temperature program and can save it in a memory.

Composed program can be repeated 1 ~ 999 times or unlimited number of time.



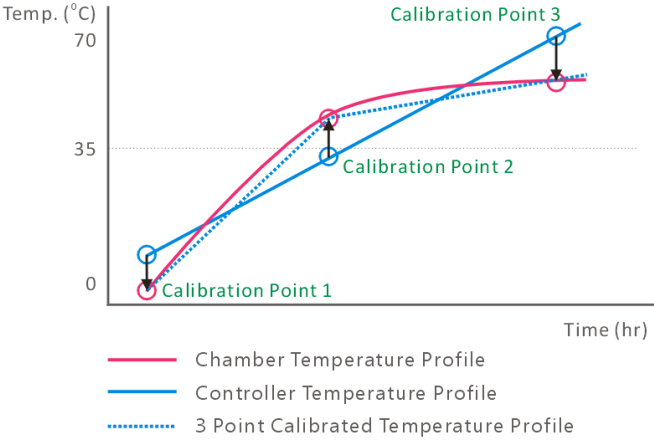
-3 ZONE PID ALGORITHM

Usable temperature range divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID parameters optimized to the range, and it provides precise and superior temperature control characteristic to whole temperature range.



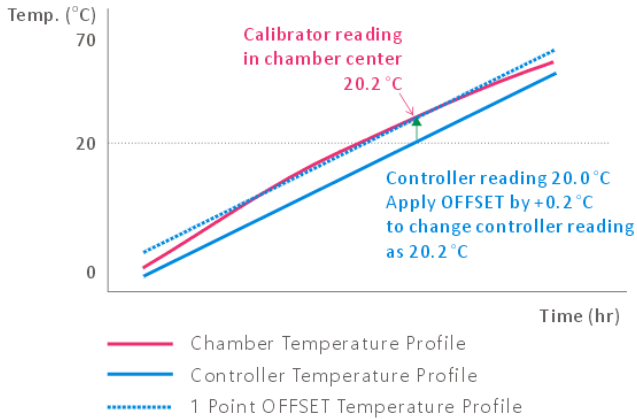
-3 POINT CALIBRATION FUNCTION

A perfect calibration tool to calibrate chamber at THREE DIFFERENT TEMPERATURE POINTS to adjust multiple temperature bias to increase the temperature accuracy of WHOLE TEMPERATURE RANGE.



- 1-POINT OFFSET FUNCTION

Provides simple and easy calibration tool to calibrate chamber at ONE SPECIFIC TEMPERATURE POINT in frequent use.



CONTROLLER FEATURES

- DIGITAL MICROPROCESSOR PID TEMPERATURE CONTROLLER
 - Integrated Digital Microprocessor Control System
- GRAPHIC LCD DISPLAY
 - Back Light Graphic LCD Display provides user-friendly operating information
- UV COATED POLYCARBONATE TOUCH PANEL
 - Equipped with Capacitive LED Lighting Touch Button provides sensitive touching operation and durability
- ENCODER TYPE JOG DIAL
 - Push to Start and Stop, Rotary turn to change values provides easy and simple user interface
- 0.1 °C CONTROL RESOLUTION
- 10 Step Programming Capability, 1 ~ 999 times repeatable
- Auto-Stop Timer 1 min ~ 99 hour 59 min and alarm
- Auto-Start Timer 1 min ~ 99 hour 59 min and alarm
- Temperature and Timer Memory Function in frequent use
- 3-ZONE PID ALGORITHM
- 3-POINT CALIBRATION
- 1-POINT OFFSET CALIBRATION
- POWER and TIMER RESTORE FUNCTION in case electric power outage
- CLASS A PT-100 Ω Sensor
- Delay starter to protect compressor.
- RS-232C PC COMMUNICATION INTERFACE [OPTION]

CONVENIENCE

- Outer door with self-adhesive magnetic packing
- Inner glass door with high density silicone gasket and air-tight door lock
- Removable and height adjustable shelf by 25mm spacing

SAFETY

- PT SENSOR SHORT OR DISCONNECTION AUDIO VISUAL ALARM
- DUAL OVER TEMPERATURE CUT-OFF BY CONTROLLER AND INDEPENDENT THERMOSTAT
 - Controller cut-off heater, compressor and AUDIO VISUAL ALARMS
 - ALARM HIGH : +5 °C above set temp.
 - ALARM LOW : -5 °C below set temp.
 - Independent analog thermostat cut-off heater above set temperature
- DOOR OPEN AUDIO VISUAL ALARM
- OVER CURRENT CUT-OFF : Electric Circuit Breaker

SPECIFICATIONS

MODEL JSBI-050CP

Dimension Data

Chamber Volume	50 Liters
Inner Dims. (W x D x H mm)	400 x 360 x 350
Outer Dims. (W x D x H mm)	580 x 600 x 770
Inner Glass Door (W x H mm)	461 x 477
No. of Shelf Positions	10 ea by 25mm spacing
No. of Shelf included	2 ea

Performance Data

Heating System	Forced Air Convection
Cooling System	Hermetically Sealed Air Cooled Compressor
Temp. Range	+0 °C ~ +70 °C
Accuracy	±0.2 °C at +20.0 °C
Uniformity	±0.5 °C at +20.0 °C

Controller

Processor	Digital Microprocessor PID Temperature Controller
Display	Back Light Graphic LCD Display
Panel	UV Coated Polycarbonate Solid Touch Panel
Button	Capacitive touch LED Lighting Touch Button
Interface	Push and Rotary encoder type Jog Dial
Control Logic	3 Zone PID Control
Calibration	1 Point Temperature OFFSET 3 Point Temperature Calibration
Resolution	0.1 °C
Programming	10 Step Temperature Program, 1 ~ 999 or unlimited times repeat
Auto-Stop Timer	1 min. ~ 99 hr 59 min
Auto-Start Time	1 min. ~ 99 hr 59 min
Sensor	CLASS A PT-100 Ω Sensor
Power Restoration	Power and Timer Restoration Function in case of power outage
PC Communication Interface	RS-232C PC COMMUNICATION INTERFACE [OPTION]

ORDERING INFORMATION

Art. No.	Descriptions	Voltage
JSBI-050CP	<p>Programmable Tabletop Refrigerated Incubator, 50 L</p> <p>including standard accessories</p> <p>2 ea x PVC Coated Wire Shelf</p> <p>8 ea x Shelf Support</p> <p>1 ea x Instruction Manual</p> <p>1 ea x Warranty Certificate</p>	220 VAC 1~ ph 50/60Hz

OPTIONAL ACCESSORIES

Art. No.	Descriptions
PHS-A23	Perforated Shelf, Stainless Steel 304, W370 x D340 mm for JSBI-050CP
PHS-C09	PVC Coated Wire Shelf, W370 x D340 mm for JSBI-050CP
PHS-A99	Shelf Support, Set of 4 ea

JS RESEARCH INC.

Gongju-City, Korea

TEL +82 41 856 3677

FAX +82 41 856 3679

info@jsresearch.co.kr

www.jsr.kr