

Model JSBI-050C: Tabletop Refrigerated Incubator





JSBI-xxC series Tabletop Refrigerated 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.

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

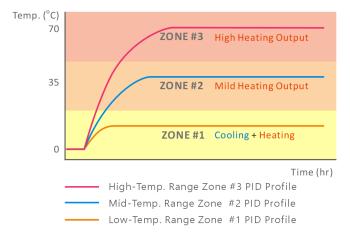


CONTROLLER



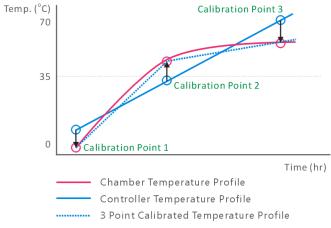
-3 ZONE PID ALGORITHM

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.



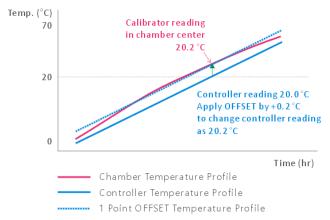
-3 POINT CALIBRATION FUNCTION

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

-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
- -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-050C

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 $+0 \,^{\circ}\text{C} \,^{\sim} +70 \,^{\circ}\text{C}$

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

Auto-Stop Timer $1 \text{ min.} \sim 99 \text{ hr } 59 \text{ min}$ Auto-Start Time $1 \text{ min.} \sim 99 \text{ hr } 59 \text{ min}$ 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]



Safety Data

Safety Device Sensor short or disconnection AUDIO VISUAL ALARM

Controller cut-off heater, compressor and AUDIO VISUAL ALARM

HI-ALARM: +5 °C above set temp.

LO-ALARM: -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

Material Data

Body Epoxy Powder Coated Steel
Chamber Stainless Steel 304 (AISI304)

Inner Glass Door Tempered Safety Glass, 5 mm thick

Electrical Data

Rated voltage $220 \pm 10\%$ VAC Power frequency 50 / 60Hz Heater Output 700 W

Nominal power 1.3 kW 6.0 amp

Phase 1 Phase

Plug configuration CEE 7/7 Schuko or BS 1363

Usable Condition

Temp. & Humidity 5°C - 40 °C, < 80% RH

Packaging Data

Shipping Dims. (W x D x H mm) 630 x 650 x 870 mm

Type of packaging Carton on a wooden palette

Net Weight 50.0 kg Shipping Weight 60.0 kg



ORDERING INFORMATION

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

OPTIONAL ACCESSORIES

| Art. No. | Descriptions | |
|----------|---|--|
| PHS-A23 | Perforated Shelf, Stainless Steel 304, W370 x D340 mm for JSBI-050C | |
| PHS-C09 | PVC Coated Wire Shelf, W370 x D340 mm for JSBI-050C | |
| 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