

Model JSBI-250DC : Dual Chamber Refrigerated BOD Incubator



Dual Chamber Refrigerated BOD Incubator provides 2 x 250 liter chambers and each chamber has an individual temperature controller. It gives an 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

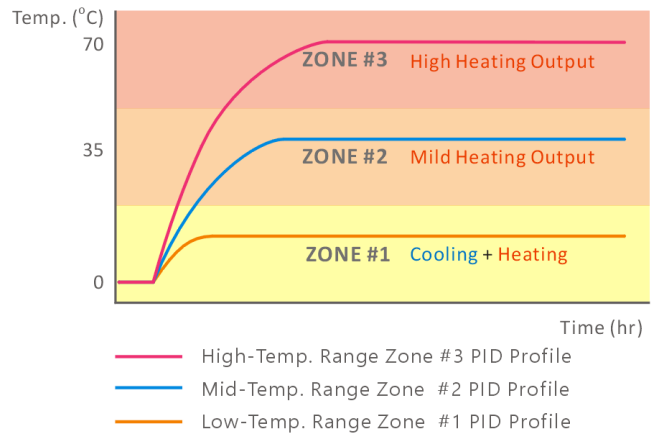
- Dual Chamber configuration with individual temperature controller
- Durable epoxy powder coated metallic casing
- Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevent leakage
- Tempered safety inner glass door for easy observation of samples

CONTROLLER



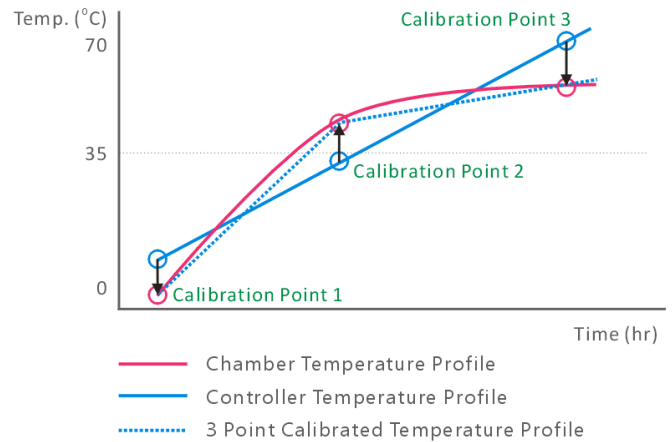
-3 ZONE PID ALGORITHM

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.



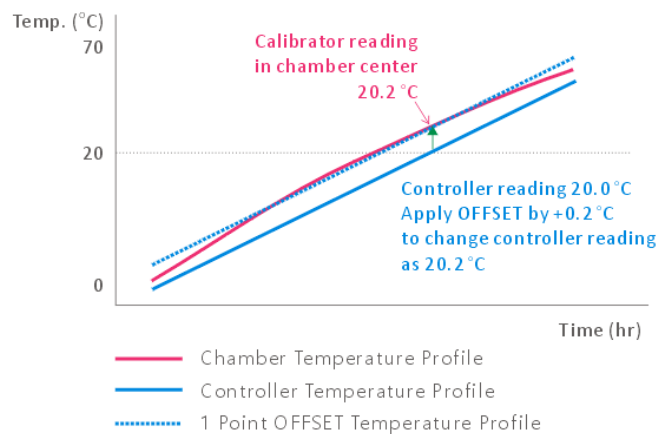
-3 POINT CALIBRATION FUNCTION

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 GROUP ZONE PID CONTROL 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-250DC

Dimension Data

Chamber Volume	250 Liters x 2 chambers
Inner Dims. (W x D x H mm)	500 x 500 x 1000 x 2 chambers
Outer Dims. (W x D x H mm)	1365 x 825 x 1760
Inner Glass Door (W x H mm)	561 x 1077
No. of Shelf Positions	36 ea by 25mm spacing / chamber
No. of Shelf included	6 ea

Performance Data

Heating System	Forced Air Convection
Cooling System	2 ea x CFC Free Hermetically Sealed Air Cooled Compressor
Temp. Range	+0 °C ~ +70 °C
Accuracy at +20.0 °C	±0.2 °C
Uniformity at +20.0 °C	±0.5 °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 Group Zone PID Control
Calibration	1 Point Temperature OFFSET 3 Point Temperature Calibration
Resolution	0.1 °C
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]

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
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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 ± 10% VAC
Power frequency	50 / 60Hz
Heater Output	1.0 kW / chamber
Nominal power	2 ea Separate Plug x 1.8 kW 8.2 amp
Phase	1 Phase
Plug configuration	CEE 7/7 Schuko or BS 1363

Usable Condition

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

Type of packaging	Wooden Crating
Shipping Dims. (W x D x H mm)	1520 x 980 x 1960 mm
Net Weight	271.0 kg
Shipping Weight	350.0 kg

ORDERING INFORMATION

Art. No.	Descriptions	Voltage
JSBI-250DC	<p>Dual Chamber Refrigerated BOD Incubator, 250 L x 2 Chambers</p> <p>including standard accessories</p> <p>6 ea x PVC Coated Wire Shelf</p> <p>24 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-A06	Perforated Shelf, Stainless Steel 304, W470 x D480 mm
PHS-C05	PVC Coated Wire Shelf, W470 x D480 mm
PHS-A99	Shelf Support, Set of 4 ea

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