

Model JSMI-04T : Multi-Chamber Heated Incubator



JSMI-04T Multi-Chamber Heated Incubator has four independently controlled incubation chambers in a compact unit share less footprint. Temperature of each chamber can be controlled individually which allow to process incubation at different temperature condition at the same time to save time and cost. Useful for bacterial, fungal, cell and tissue culture incubation or comparison test of samples such as food, packaging, QA or QC laboratory in pharmaceutical industries.

MAIN FEATURES

PERFORMANCE

- Control Temperature Range from amb.+5°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

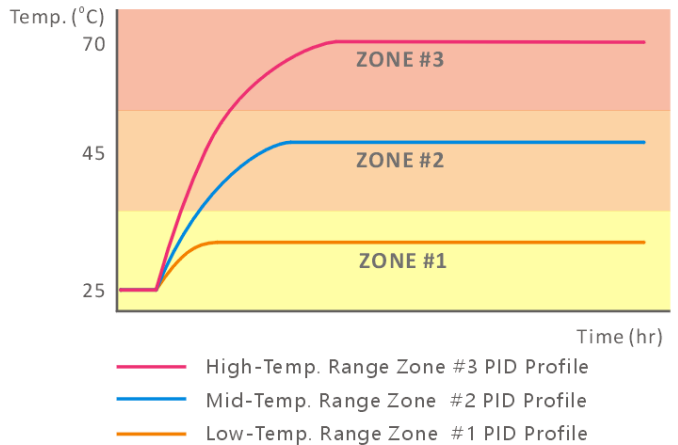
CONSTRUCTION

- Four 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

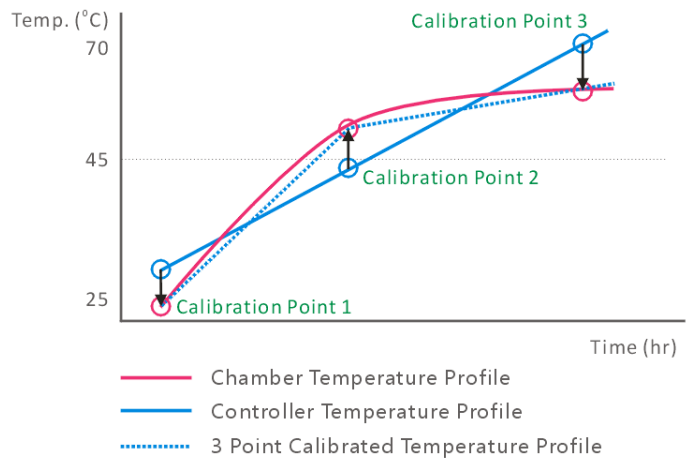
-3 ZONE PID ALGORITHM

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



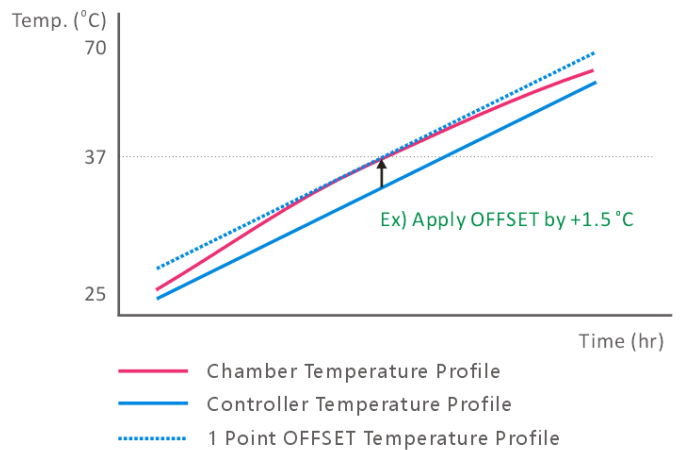
-3 POINT CALIBRATION FUNCTION

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 FUNCTION

Provides simple and easy calibration tool to calibrate chamber at ONE SPECIFIC TEMPERATURE POINT of 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
- TURN-ON TIMER up to 99 hour 59 min and alarm
- TURN-OFF DELAY TIMER up to 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
- 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

- MAXIMUM TEMPERATURE LIMIT SETTING, CUT-OFF HEATER AND AUDIO VISUAL ALARM
- DUAL OVER TEMPERATURE CUT-OFF BY CONTROLLER AND INDEPENDENT THERMOSTAT
 - Controller Program cut-off heater and AUDIO VISUAL ALARM in case +2 °C above set temperature
 - Independent analog thermostat cut-off heater 10% above set temperature
- 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 : Electric Circuit Breaker

SPECIFICATIONS

DESCRIPTIONS

MODEL JSMI-04T

Dimension Data

Chamber Volume	125 Liter x 4 Chambers
Inner Dims. (W x D x H mm)	500 x 500 x 500 x 4 Chambers
Outer Dims. (W x D x H mm)	1365 x 830 x 1815
No. of Shelf Positions	16 ea by 25mm spacing / chamber
No. of Shelf included	8 ea

Performance Data

Heating System	Forced Air Convection
Cooling System	None
Temp. Range	Amb.+5 °C ~ +70 °C
Accuracy	±0.2 °C at +37.0 °C
Uniformity	±0.5 °C at +37.0 °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
Turn-Off Timer	Max. 99 hr 59 min
Turn-On Delay Time	Max. 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	Max. Temp. Limit and Cut-Off audio visual alarm Dual Over Temp. Cut-Off by Controller and Thermostat High Temp. Cut-Off audio visual alarm Low Temp. Cut-Off audio visual alarm PT-Sensor Short or Open audio visual alarm Over Current Cut-Off
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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	230 ± 10% VAC
Power frequency	50 / 60Hz
Heater Output	4 ea x 200 W
Nominal power	2 ea x 440 W 2.0 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

Shipping Dims. (W x D x H mm)	1510 x 960 x 2000 mm
Type of packaging	Wooden Crating
Net Weight	190.0 kg
Shipping Weight	300.0 kg

ORDERING INFORMATION

Art. No.	Descriptions	Voltage
JSMI-04T	<p>Multi-Chamber Heated Incubator, 125 L x 4 Chambers</p> <p>including standard accessories</p> <p>8 ea x PVC Coated Wire Shelf</p> <p>32 ea x Shelf Support</p> <p>1 ea x Instruction Manual</p> <p>1 ea x Warranty Certificate</p>	230 VAC 1~ ph 50/60Hz

OPTIONAL ACCESSORIES

Art. No.	Descriptions	Component
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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