

## Model JSMI-04CP 125 L Four Chamber Incubator



JSMI-04CP 125 Liter Four Chamber Incubator provides multiple chambers in a compact unit share less footprint. Temperature of each chamber can be controlled independently. Equipped with programmable Controller provides 10 Steps of temperature programming control or constant temperature. Temperature range from +0 °C to +70 °C. Suitable for incubation of microorganism needs temperature and light at the same time and various test for food and packaging test on QA / QC labs.

### 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**

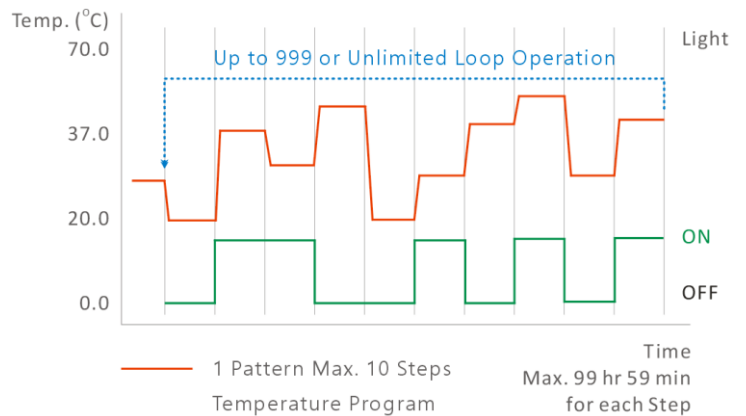


**-10 STEP TEMPERATURE PROGRAMMING CAPABILITY**

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

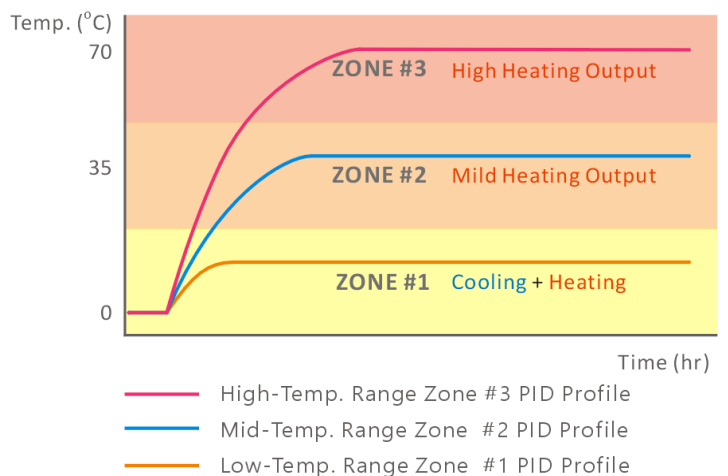
Composed program can be repeated 1 ~ 999 times or unlimited number of time.

( Light control available for model JSMI-04CPL only)



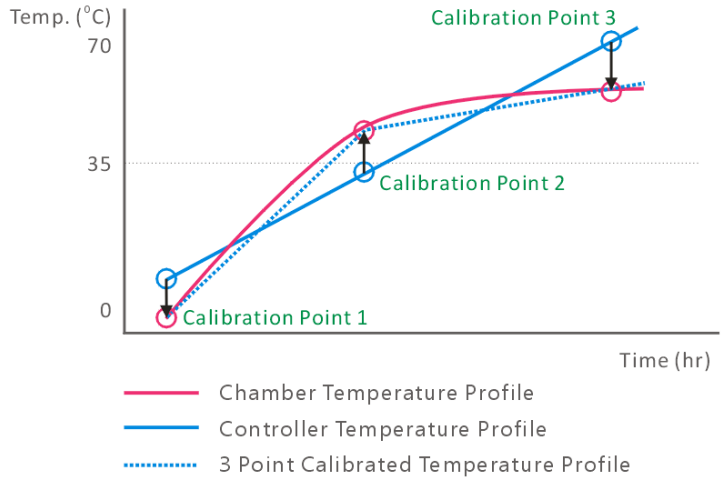
**-3 ZONE PID ALGORITHM**

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.



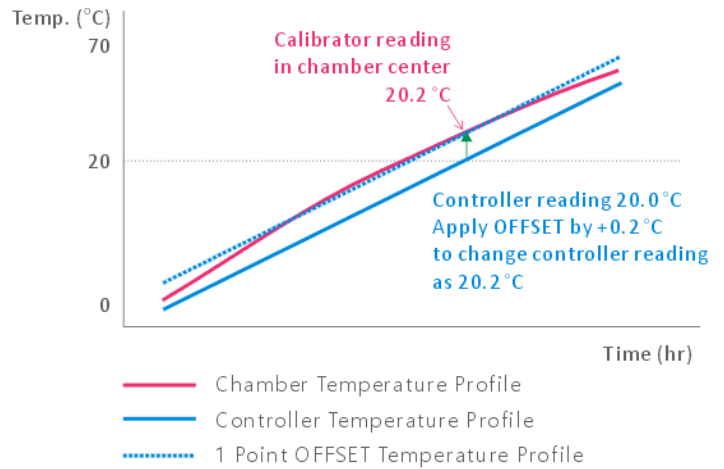
**-3 POINT CALIBRATION FUNCTION**

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

-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  $\Omega$  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**
**JSMI-04CP**
**Dimension Data**

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

**Performance Data**

Heating System	Forced Air Convection
Cooling System	Compressor
Temp. Range	+0 °C ~ +70 °C
Accuracy at +20.0 °C	±0.2 °C at +20.0 °C
Uniformity at +20.0 °C	±1.0 °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
10 Step Temperature Program	yes
Light ON/OFF Program	n/a
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
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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
Power Cord	Two for 4 chambers
Heater output	4 x 1.0 kW
Nominal power total	6.8 kW 30.8 amp
Nominal power per plug	3.4 kW 15.4 amp

**Technical Data Model JSMI-04CP**

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. (WxDxH mm )	1510 x 960 x 2000
Net Weight	220.0 kg
Shipping Weight	350.0 kg

**ORDERING INFORMATION**

Art. No.	Descriptions	Voltage
JSMI-04CP	<b>125 L Four Chamber Refrigerated Incubator Programmable</b>	220 VAC 1~ ph 50/60Hz

**OPTIONAL ACCESSORIES**

Art. No.	Descriptions
PHS-A06	Perforated Shelf, Stainless Steel 304, W470 x D480 mm for JSMI-04
PHS-C05	PVC Coated Wire Shelf, W470 x D480 mm for JSMI-04
PHS-A99	Shelf Support, Set of 4 ea

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