

# JSMI-02

## 125 Liter DUAL CHAMBER INCUBATOR

### # Features

#### Performance

Temperature Range : amb. +5 °C to 70 °C [ JSMI-02T ]  
+ 0 °C to 70 °C [ JSMI-02C, CP, CPL ]

Temperature Accuracy : within +/- 0.2 °C

Temperature Uniformity : within +/- 1.0 °C

Forced air convection for excellent thermal accuracy and uniformity.

Aero-dynamic chamber designed with circulation blower to achieve superior thermal uniformity.

Separated heating and cooling compartment located on the back wall for contamination free and maintenance free.

Hermetically Sealed Air Cooled Compressor

#### Construction

Durable epoxy powder coated metallic casing.

Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevents leakage.

Tempered Safety Inner Glass Door for easy observation of samples.

#### Convenience

Outer door with self-adhesive magnetic packing.

Inner Glass Door with high density silicone gasket and air-tight Door Lock.

Removable and adjustable shelf by 25mm spacing.

#### Safety

DUAL OVER TEMPERATURE CUT-OFF BY CONTROLLER AND INDEPENDENT THERMOSTAT

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



JSMI-02CPL 125 Liter Dual Chamber Incubator,  
Refrigerated, Programmable with Lamp Control

Featured Controller

# JIC-CON 5<sup>th</sup> GEN

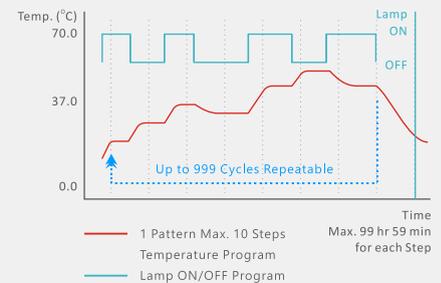
- 3-ZONE PID Algorithm
- 3-Point Calibration
- 1-Point Offset
- 10-Step 999-Cycle Program
- 10-Step Day-Night Program

## Controller Highlights

- ▶ 16-bit Digital Microprocessor PID Controller.
- ▶ High-fidelity clear back light LCD displays complete settings and operating conditions with high readability.
- ▶ UV Coated Water-Proof Polycarbonate Touch Panel.
- ▶ Easy-to-use Encoder Type Jog Dial for quick and convenient temperature and time setting.
- ▶ 0.1 °C control resolution.
- ▶ Turn-On and Turn-Off Timer up to 99 hour 59 min.
- ▶ Temperature and Timer memory function.
- ▶ 10 Step, 999 Cycle Program. [ JSMI-02CP, 02CPL ]
- ▶ 10 Step Light ON/OFF Program. [ JSMI-02CPL ]
- ▶ Temperature and Timer automatically resume after power restoration.
- ▶ Class A Pt-100 Ohm Sensor.
- ▶ RS-232C PC Communication Interface. [OPTION]

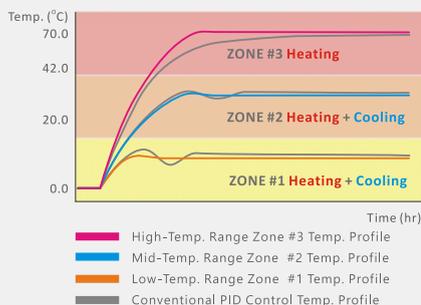


### 10 Step Program



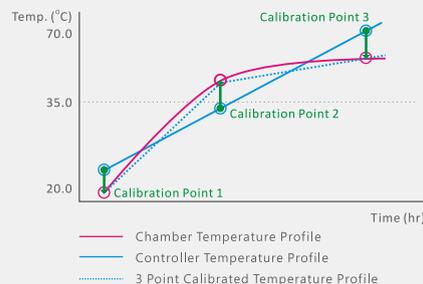
User can create 10 Steps of varying temperature and Lamp ON/OFF program and save it in memory for repeated use. Program can be repeated up to Max. 999 Cycles. [ JSMI-02CPL ]

### 3-ZONE PID Algorithm



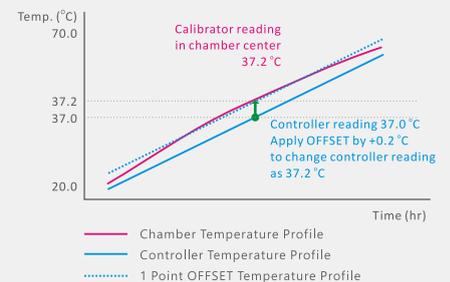
Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID algorithm to provide precise and superior temperature control characteristic of whole temperature range.

### 3-Point Calibration



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



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

# # Specifications

Model	JSMI-02T	JSMI-02C	JSMI-02CP	JSMI-02CPL
<b>SELECTION GUIDE</b>				
Temperature Range	amb. +5°C to 70°C	+0°C to 70°C	+0°C to 70°C	+0°C to 70°C
Heating	O	O	O	O
Cooling	X	O	O	O
Fixed Temperature Control	O	O	O	O
10 Step Temperature Program	X	X	O	O
Light ON/OFF Program	X	X	X	O
Lamp Type, Length	X	X	X	LED, 300 mm
Lamp Configuration	X	X	X	5 watt x 5 ea
<b>Dimension Data</b>				
Chamber Volume	2 x 125 Liters			
Inner Dims. (WxDxH) mm	500 x 500 x 500			
Outer Dims. (WxDxH) mm	680 x 825 x 1530	680 x 825 x 1820	680 x 825 x 1820	680 x 850 x 1820
No. of Shelf Positions	16 ea			
No. of Shelf Included	4 ea			
<b>Controller</b>				
Type	Digital Microprocessor PID Temp. Controller with Capacitive Touch Button and Jog Dial			
Display	Full Size Digital Back Light Graphic LCD Display			
Control Logic	3 Group Zone PID Control			
Calibration	1 Point Temperature Offset 3 Point Temperature Calibration			
Auto-Start Timer	Max. 99 hr 59 min by 1 min resolution			
Auto-Stop Timer	Max. 99 hr 59 min by 1 min resolution			
Sensor	Class A Pt-100 Ohm Sensor			
Power Restoration	Power and Timer Restoration Function in case of power outage			
Communication Interface	RS-232C Communication Interface [OPTION]			
<b>Material Data</b>				
Body	Epoxy Powder Coated Steel			
Chamber	Stainless Steel 304 (AISI304)			
Inner Glass Door	5.0 mm Thick Tempered Safety Glass Door			
<b>Safety Data</b>				
Safety Device	Door Open / Over Temperature / Over Cooling / Over Current Protection Audio Visual Alarm			
<b>Electrical Data</b>				
Power Requirement	220 +/- 10% VAC   50/60 Hz   1 Phase			
Power Consumption	400 W 2.0 amp	3.2 kW 14.5 amp	3.2 kW 14.5 amp	3.2 kW 14.5 amp
Plug Configuration	CEE 7/7 Schuko or BS 1363			



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## # Ordering Information

### Art. Number

### Descriptions

JSMI-02T	125 Liter Dual Chamber Incubator, amb. +5 °C ~ 70 °C 220 VAC 1 ph 50/60Hz
JSMI-02C	125 Liter Dual Chamber Incubator, +0 °C ~ 70 °C Refrigerated 220 VAC 1 ph 50/60Hz
JSMI-02CP	125 Liter Dual Chamber Incubator, +0 °C ~ 70 °C Refrigerated, Programmable 220 VAC 1 ph 50/60Hz
JSMI-02CPL	125 Liter Dual Chamber Incubator, +0 °C ~ 70 °C Refrigerated, Programmable, Light Control 220 VAC 1 ph 50/60Hz

## JSMI-02

### 125 Liter DUAL CHAMBER INCUBATOR

### Accessories

### Shelves

PHS-A06	Perforated Shelf, Stainless Steel 304, for JSMI-02 W470 x D480 mm
PHS-C05	Wire Shelf, PVC Coated, for JSMI-02 W470 x D480 mm
PHS-A99	Shelf Support, Set of 4 ea



JSMI-02T



JSMI-02CPL

DISTRIBUTOR

# JSR

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