

## Model JSGI-050T Programmable General Incubator



JSGI-xxxT series Programmable General Incubator provides 10 Steps of temperature programming as well as constant temperature operation for more versatile use, temperature range from Ambient +5 °C to +70 °C. It gives excellent performance for incubation of microorganisms such as bacteria, cell and tissue. Also suitable for various QA / QC Tests.

### MAIN FEATURES

#### PERFORMANCE

- Control Temperature Range from ambient +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

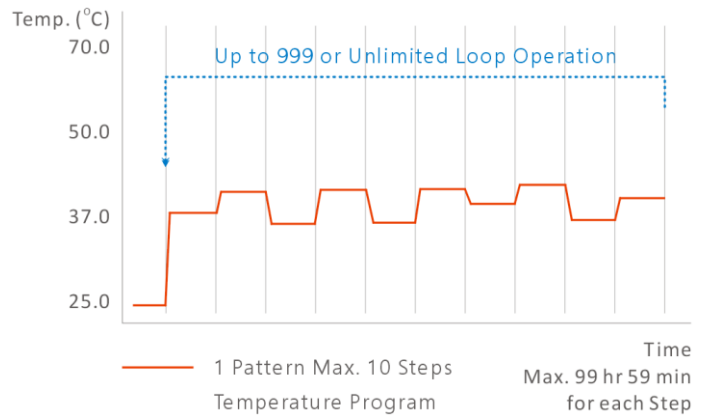
- Durable epoxy powder coated metallic casing
- Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevent leakage
- Tempered safety inner glass door for easy observation of samples
- Cable Access Port

**CONTROLLER HIGHLIGHT**



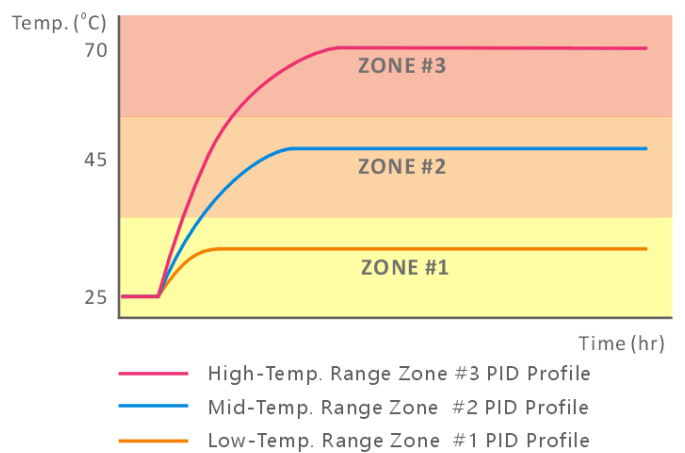
**-10 STEP PROGRAMMING CAPABILITY**

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.



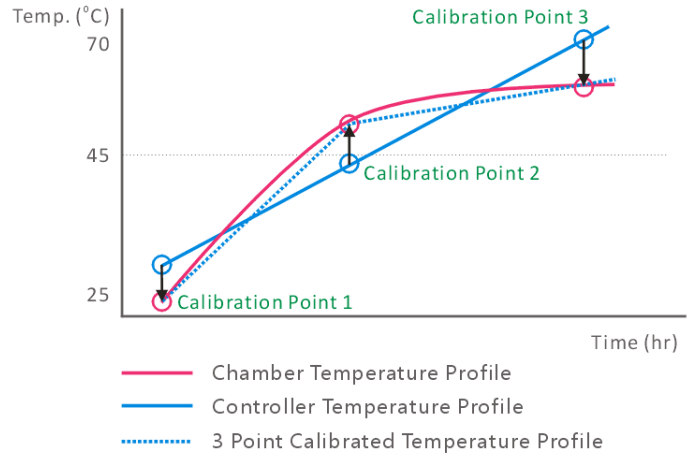
**-3 ZONE PID ALGORITHM**

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.



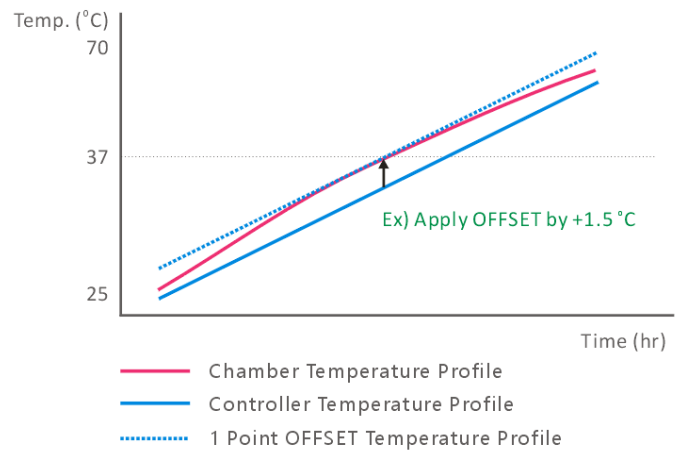
**-3 POINT CALIBRATION FUNCTION**

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 FEATURES

- 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
- 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 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

## SPECIFICATIONS

**Art. No.** JSGI-050T

### Dimension Data

Chamber Volume	48 Liters
Inner Dims. (W x D x H mm)	400 x 300 x 400
Outer Dims. (W x D x H mm)	580 x 535 x 720
Inner Glass Door (W x H mm)	461 x 477
No. of Shelf Positions	12 ea
No. of Shelf included	2 ea
No. of Cable Access Port	1 ea

### Performance Data

Heating System	Forced Air Convection
Temp. Range	Amb. +5 °C ~ +70 °C
Accuracy at 37.0 °C	±0.2 °C
Uniformity at 37.0 °C	±0.5 °C
Heat up time to 37.0 °C	15 min.

### 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
Programming	10 Step Temperature Program, 1 ~ 999 or unlimited times repeat
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 and AUDIO VISUAL ALARM in case 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
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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	150 W
Nominal power	160 W 0.7 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 )	600 x 560 x 790
Type of packaging	Carton on a wooden palette
Net Weight	32.0 kg
Shipping Weight	36.0 kg

**ORDERING INFORMATION**

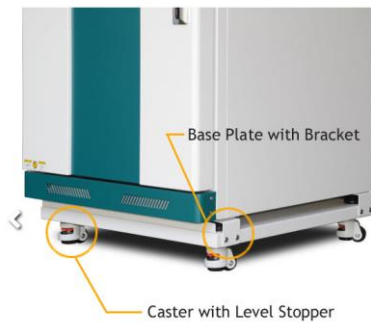
Art. No.	Descriptions	Voltage
JSGI-050T	General Incubator, 48 L	220 VAC 1~ ph 50/60Hz

**OPTIONAL ACCESSORIES**

Art No.		
PHS-A03	Perforated Shelf, Stainless Steel 304 for JSGI-050T	W370 x D280 mm
PHS-C03	Wire Shelf, PVC Coated Steel for JSGI-050T	W370 x D280 mm
PHS-A99	Shelf Support, Set of 4	
	<b>Cabinet Stand with Caster</b>	
PCG-050	for JSGI-050T	
	<b>Base Trolley Kit</b>	
PHA-01G	for JSGI-050T	
	<b>Stacking Kit</b>	
PHA-02G	for JSGI-050T	



Cabinet Stand



Base Trolley Kit



Stacking Plate with Bracket

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