

## Model JSGI-050T : General Incubator



JSGI-Series General Incubator is ideal for bacterial, fungal, cell and tissue culture incubation temperature range from ambient +5 °C to +70 °C.

### 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

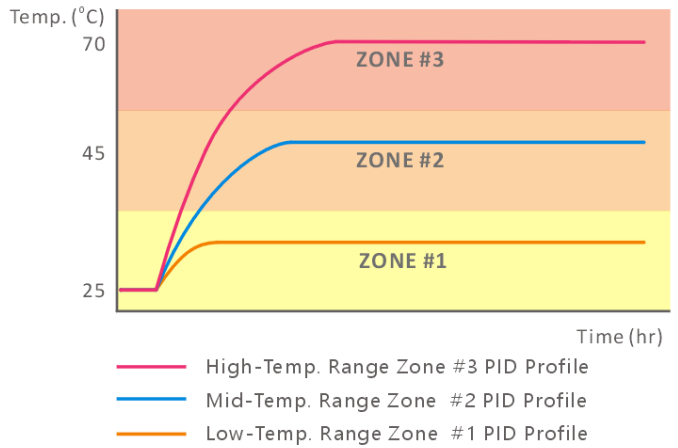
#### CONSTRUCTION

- 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**

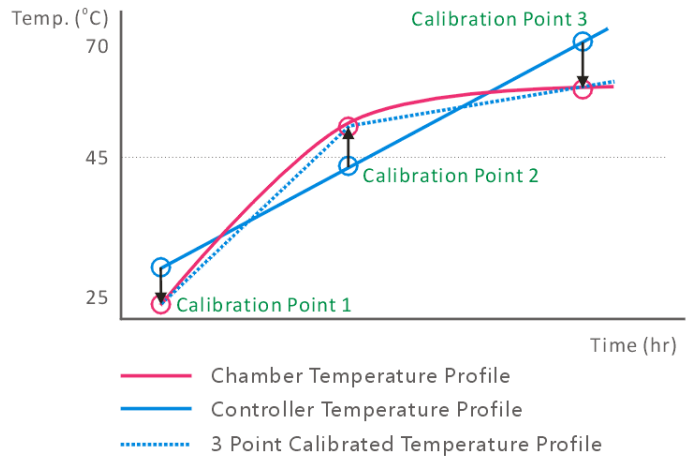
**-3 ZONE PID ALGORITHM**

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.



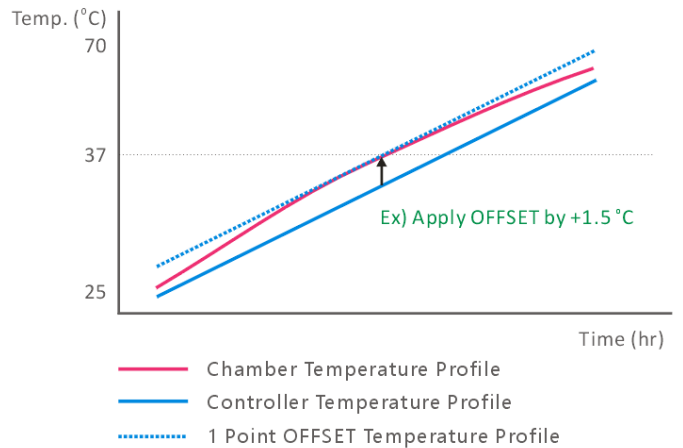
**-3 POINT CALIBRATION FUNCTION**

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  $\Omega$  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
- Opening size adjustable access port
- Door switch cut-off heater and fan to reduce thermal drop when put in and out samples

## SAFETY

- DOOR SENSOR WITH DOOR OPEN AUDIO VISUAL ALARM
- 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 : Fuse

## SPECIFICATIONS

### DESCRIPTIONS

### MODEL 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 by 25mm spacing
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	±0.2 °C at 37.0 °C
Uniformity	±0.5 °C at 37.0 °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
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	Door sensor with inner door open audio visual alarm
	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

**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	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 mm
Type of packaging	Carton on a wooden palette
Net Weight	32.0 kg
Shipping Weight	36.0 kg

### ORDERING INFORMATION

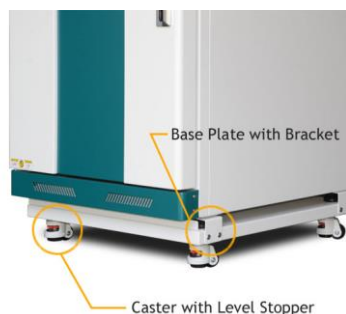
Art. No.	Descriptions	Voltage
JSGI-050T	<b>General Incubator, 48 L</b> including standard accessories 2 ea x PVC Coated Wire Shelf 8 ea x Shelf Support 1 ea x Instruction Manual 1 ea x Warranty Certificate	230 VAC 1~ ph 50/60Hz

### OPTIONAL ACCESSORIES

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



Cabinet Stand with Caster



Base Trolley Kit

Base Trolley Kit



Stacking Plate with Bracket

Stacking Kit

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