

Model JSGI-100T 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

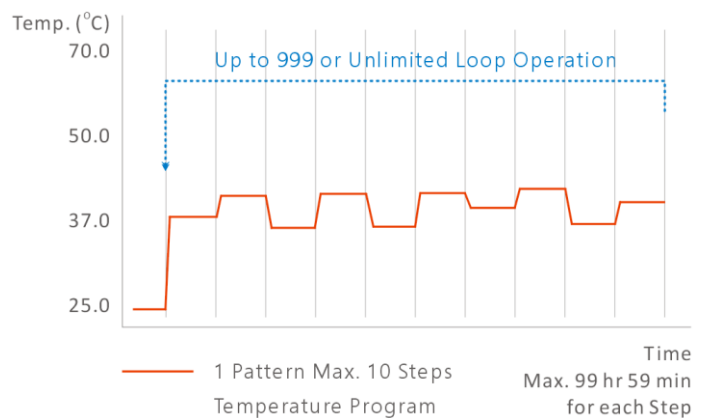
- Durable epoxy powder coated metallic casing
- Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevent leakage
- Tempered safety inner glass door for easy observation of samples
- Cable Access Port

CONTROLLER HIGHLIGHT



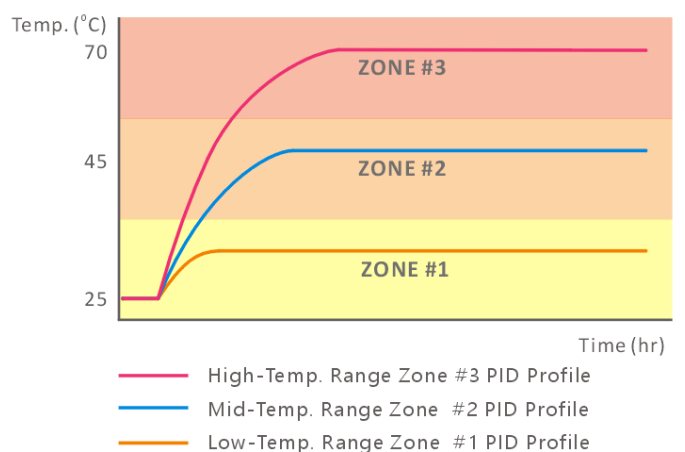
-10 STEP PROGRAMMING CAPABILITY

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.



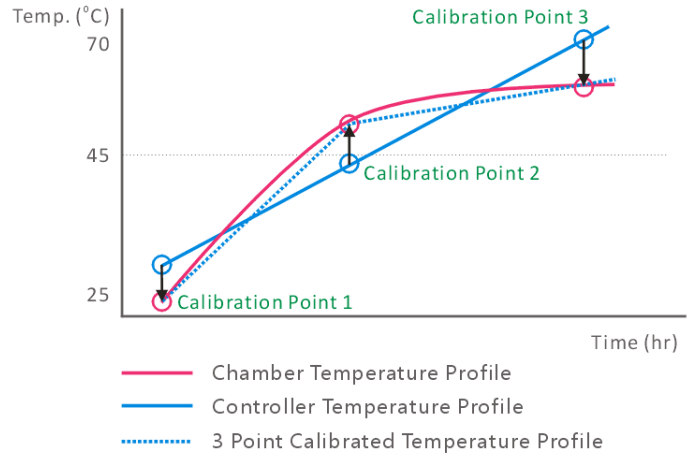
-3 ZONE PID ALGORITHM

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.



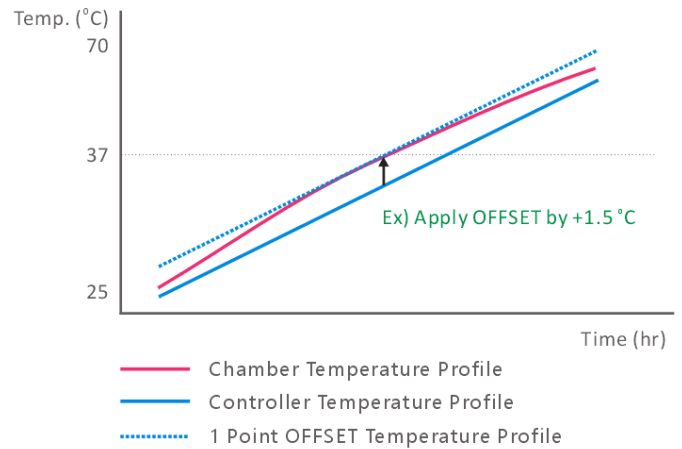
-3 POINT CALIBRATION FUNCTION

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 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

- 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-100T

Dimension Data

Chamber Volume	96 Liters
Inner Dims. (W x D x H mm)	400 x 400 x 600
Outer Dims. (W x D x H mm)	580 x 635 x 920
Inner Glass Door (W x H mm)	461 x 677
No. of Shelf Positions	20 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]

ORDERING INFORMATION

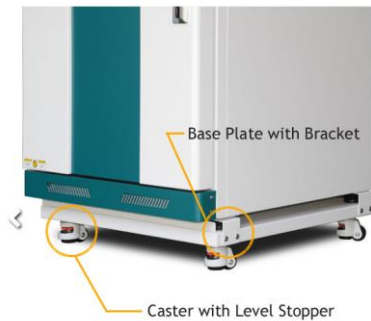
Art. No.	Descriptions	Voltage
JSGI-100T	General Incubator, 96 L	220 VAC 1~ ph 50/60Hz

OPTIONAL ACCESSORIES

Art No.		
PHS-A04	Perforated Shelf, Stainless Steel 304 for JSGI-100T	W370 x D380 mm
PHS-C04	Wire Shelf, PVC Coated Steel for JSGI-100T	W370 x D380 mm
PHS-A99	Shelf Support, Set of 4	
	Cabinet Stand with Caster	
PCG-100	for JSGI-100T	
	Base Trolley Kit	
PHA-03G	for JSGI-100T	
	Stacking Kit	
PHA-04G	for JSGI-100T	



Cabinet Stand



Base Trolley Kit



Stacking Plate with Bracket

JS RESEARCH INC.

Gongju-City, Korea

TEL +82 41 856 3677

FAX +82 41 856 3679

info@jsresearch.co.kr

www.jsr.kr