

Model JSGI-150T 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

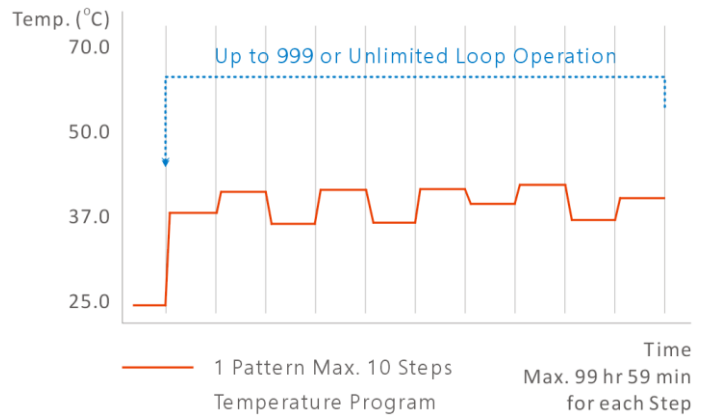
- Durable epoxy powder coated metallic casing
- Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevent leakage
- Tempered safety inner glass door for easy observation of samples
- Cable Access Port

CONTROLLER HIGHLIGHT



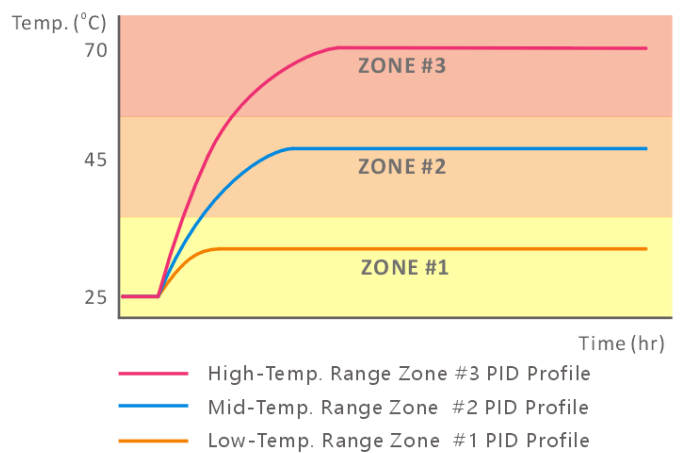
-10 STEP PROGRAMMING CAPABILITY

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.



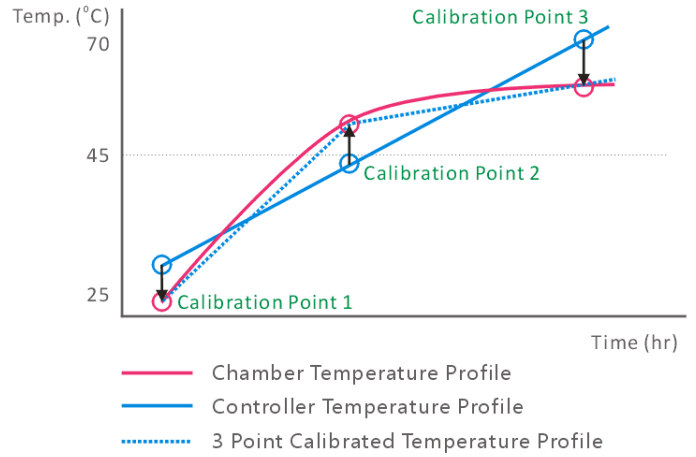
-3 ZONE PID ALGORITHM

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.



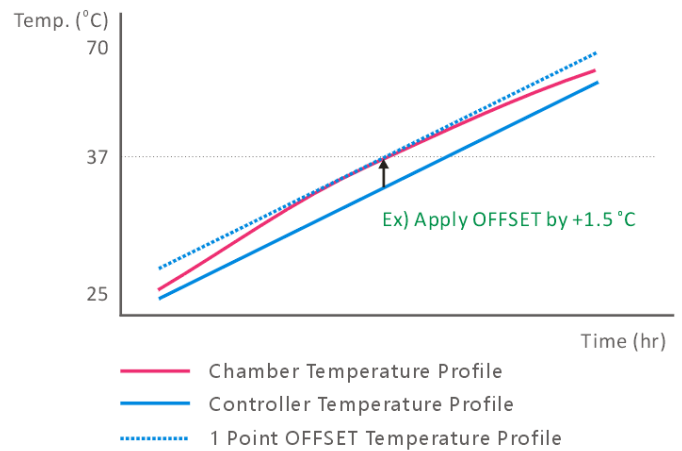
-3 POINT CALIBRATION FUNCTION

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-150T

Dimension Data

Chamber Volume	150 Liters
Inner Dims. (W x D x H mm)	500 x 500 x 600
Outer Dims. (W x D x H mm)	680 x 735 x 920
Inner Glass Door (W x H mm)	561 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	±1.0 °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
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

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 250 W
 Nominal power 260 W 1.2 amp
 Phase 1 Phase
 Plug configuration CEE 7/7 Schuko or BS 1363

Usable Condition

Temp. & Humidity 5°C - 40°C, < 80% RH

Packaging Data

Shipping Dims. (W x D x H mm)
 Type of packaging Carton on a wooden palette
 Net Weight 70.0 kg
 Shipping Weight 78.0 kg

ORDERING INFORMATION

Art. No.	Descriptions	Voltage
JSGI-150T	General Incubator, 150 L	220 VAC 1~ ph 50/60Hz

OPTIONAL ACCESSORIES

Art No.		
PHS-A06	Perforated Shelf, Stainless Steel 304 for JSGI-150T	W470 x D480 mm
PHS-C05	Wire Shelf, PVC Coated Steel for JSGI-150T	W470 x D480 mm
PHS-A99	Shelf Support, Set of 4	
	Cabinet Stand with Caster	
PCG-150	for JSGI-150T	
	Base Trolley Kit	
PHA-05G	for JSGI-150T	
	Stacking Kit	
PHA-06G	for JSGI-150T	



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