

# JSGI-Series

## PROGRAMMABLE GENERAL HEATED INCUBATOR

amb. +5 °C ~ 70 °C



JSGI-100T General Heated Incubator  
with OPTIONAL Cabinet Stand

JSGI-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.

## # Features

### Performance

Temperature Range : amb. +5 °C to 70 °C

Temperature Accuracy : within +/- 0.2 °C

Temperature Uniformity : within +/- 0.5 °C

Forced air convection for excellent thermal accuracy and uniformity.

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

Separated heating compartment located on the 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 prevents leakage.

Tempered Safety Inner Glass Door for easy observation of samples.

Cable Access Port

### 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.

Opening size adjustable Cable Access Port.

Door switch cut-off heater and blower to reduce temperature drop when put in and out samples.

### Safety

DOOR SENSOR WITH DOOR OPEN AUDIO VISUAL ALARM

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

Featured Controller

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

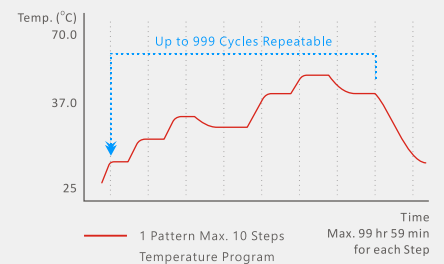
- 3-Zone PID Algorithm**
- 3-Point Calibration**
- 1-Point Offset**
- 10-Step 999-Cycle Program**

## 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.
- ▶ Temperature and Timer automatically resume after power restoration.
- ▶ Class A Pt-100 Ohm Sensor.
- ▶ RS-232C PC Communication Interface. [OPTION]

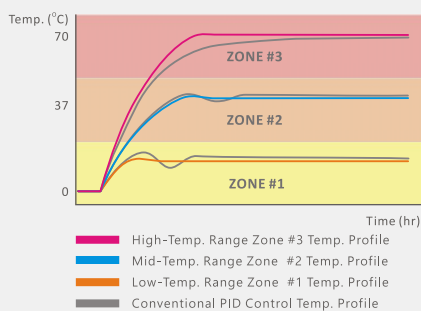


### 10 Step Program



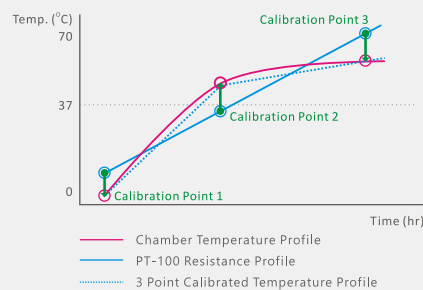
User can create 10 Steps of varying temperature program and save it in memory for repeated use. Program can be repeated up to Max. 999 Cycles.

### 3-Zone PID Algorithm



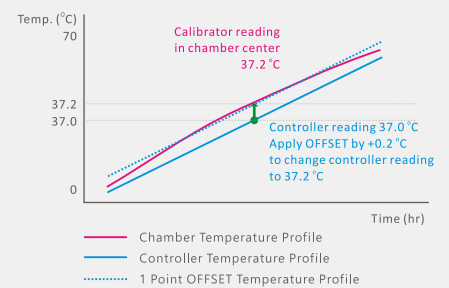
Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID algorithm to provide precise and superior temperature control characteristic of whole temperature range.

### 3-Point Calibration



An excellent calibration tool to calibrate chamber with THREE DIFFERENT TEMPERATURE POINTS to adjust multiple temperature bias to increase accuracy of WHOLE TEMPERATURE RANGE.

### 1-Point Offset



A simple and easy calibration tool that calibrates chamber's temperature at one specific frequently used temperature point.

# # Specifications

Model	JSGI-050T	JSGI-100T	JSGI-150T	JSGI-250T
<b>Dimension Data</b>				
Chamber Volume	48 Liters	96 Liters	150 Liters	250 Liters
Inner Dims. (WxDxH) mm	400 x 300 x 400	400 x 400 x 600	500 x 500 x 600	500 x 500 x 1000
Outer Dims. (WxDxH) mm	580 x 535 x 720	580 x 635 x 920	680 x 735 x 920	680 x 735 x 1320
Window Dims. (WxH) mm	461 x 477	461 x 677	561 x 677	561 x 1077
No. of Shelf Positions	12 ea	20 ea	20 ea	36 ea
No. of Shelf Included	2 ea	2 ea	2 ea	3 ea
No. of Cable Access Port	1 ea	1 ea	1 ea	1 ea
<b>Performance Data</b>				
Heating System	Forced Convection			
Temperature Range	ambient +5 °C to 70 °C, 0.1 °C resolution			
Temperature Accuracy at 37.0 °C	+/- 0.2 °C	+/- 0.2 °C	+/- 0.2 °C	+/- 0.3 °C
Temperature Uniformity at 37.0 °C	+/- 0.5 °C	+/- 0.5 °C	+/- 1.0 °C	+/- 1.5 °C
Heat-up Time to 37.0 °C	15 min.	15 min.	15 min.	20 min.
<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 Zone PID Control			
Calibration	1 Point Temperature Offset 3 Point Temperature Calibration			
Temp. Program	1 Pattern, 10 Steps, 1 ~ 999 ( Unlimited ) Times Repeatable			
Auto-Stop Timer	Max. 99 hr 59 min by 1 min resolution			
Suto-Start 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	Stainlss 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 Current Protection Audio Visual Alarm			
<b>Electrical Data</b>				
Power Requirement	220 +/- 10% VAC   50/60 Hz   1 Phase			
Power Consumption	160 W 0.7 amp	210 W 1.0 amp	260 W 1.2 amp	410 W 2.0 amp
Plug Configuration	CEE 7/7 Schuko or BS 1363			
<b>Usable Condition</b>				
Temp. & Humidity	5 °C - 40 °C, 80% RH Max.			

# JSR

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## # Ordering Information

### Art. Number

### Descriptions

JSGI-050T	Heated General Incubator 50 Liter	220 VAC 1 ph 50/60Hz
JSGI-100T	Heated General Incubator 100 Liter	220 VAC 1 ph 50/60Hz
JSGI-150T	Heated General Incubator 150 Liter	220 VAC 1 ph 50/60Hz
JSGI-250T	Heated General Incubator 250 Liter	220 VAC 1 ph 50/60Hz

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### Accessories

### Shelves

PHS-A03	Perforated Shelf, Stainless Steel 304, for JSGI-050T	W370 x D280 mm
PHS-A04	Perforated Shelf, Stainless Steel 304, for JSGI-100T	W370 x D380 mm
PHS-A06	Perforated Shelf, Stainless Steel 304, for JSGI-150T	W470 x D480 mm
PHS-A06	Perforated Shelf, Stainless Steel 304, for JSGI-250T	W470 x D480 mm
PHS-C03	Wire Shelf, PVC Coated, for JSGI-050T	W370 x D280 mm
PHS-C04	Wire Shelf, PVC Coated, for JSGI-100T	W370 x D380 mm
PHS-C05	Wire Shelf, PVC Coated, for JSGI-150T	W470 x D480 mm
PHS-C05	Wire Shelf, PVC Coated, for JSGI-250T	W470 x D480 mm

PHS-A99 Shelf Support, Set of 4 ea

### Accessories

### Cabinet Stands

PCG-050	Cabinet Stand with Caster for JSGI-050T
PCG-100	Cabinet Stand with Caster for JSGI-100T
PCG-150	Cabinet Stand with Caster for JSGI-150T



### Accessories

### Base Trolley Kit (with Caster)

PHA-01G	Base Trolley Kit for JSGI-050T
PHA-03G	Base Trolley Kit for JSGI-100T
PHA-05G	Base Trolley Kit for JSGI-150T



### Accessories

### Stacking Kit

PHA-02G	Stacking Kit for JSGI-050T
PHA-04G	Stacking Kit for JSGI-100T
PHA-06G	Stacking Kit for JSGI-150T



DISTRIBUTOR

# JSR

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