JSR

GENERAL HEATED INCUBATOR

JSGI-Series
GENERAL
HEATED
INCUBATOR
amb. +5 °C ~ 70 °C

JSGI-Series General Incubator is ideal for bacterial, fungal, cell and tissue culture incubation temperature range from ambient + 5°C to 70°C.
Coaxial fan mildly circulates air within the chamber to maintain uniform temperature of incubator.

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 themperature 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 : Fuse

JSGI-050T General Heated Incubator
with OPTIONAL Cabinet Stand
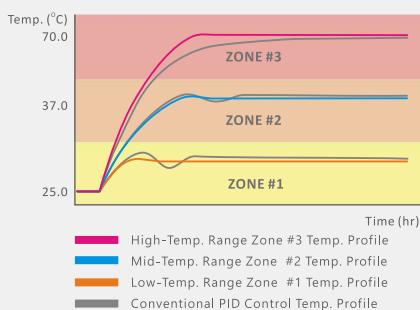
3-ZONE PID Algorithm
3-Point Calibration
1-Point Offset

Temperature Control

Digital Microprocessor PID Controller

High-fidelity clear back light LCD displays complete setting and operating condition at a glance

UV Coated Polycarbonate Touch Panel

Easy-to-use Encoder Type Jog Dial for quick and convenient setting of temperature and timer

0.1 °C Control resolution

Turn-On and Turn-Off Timer up to 99 hour 59 min.

Temperature and Timer memory function in frequest use

3-Zone PID Algorithm

3-Point Calibration

1-Point Offset Calibration

Power Outage and Restore Function

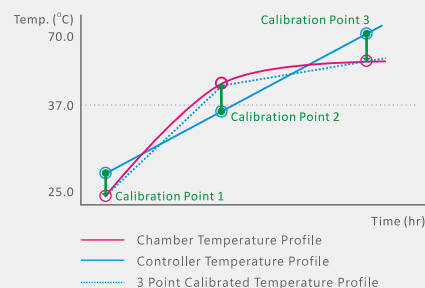Class A Pt-100 Ohm Sensor

RS-232C PC Communication Interface [OPTION]

3-ZONE PID Algorithm

Temp. (°C)
- 70.0 — ZONE #3
- 37.0 — ZONE #2
- 25.0 — ZONE #1

Time (hr)

— High-Temp. Range Zone #3 Temp. Profile
— Mid-Temp. Range Zone #2 Temp. Profile
— Low-Temp. Range Zone #1 Temp. Profile
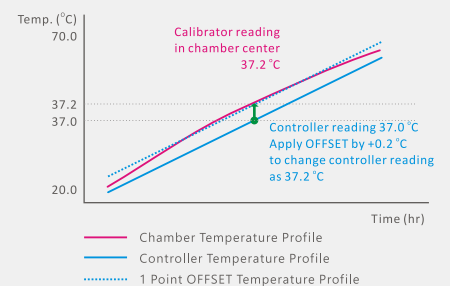— Conventional PID Control Temp. Profile

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

Temp. (°C)
- 70.0 — Calibration Point 3
- 37.0 — Calibration Point 2
- 25.0 — Calibration Point 1

Time (hr)

— Chamber Temperature Profile
— Controller Temperature Profile
····· 3 Point Calibrated Temperature Profile

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

1-Point Offset

Temp. (°C)
- 70.0 — Calibrator reading in chamber center 37.2 °C
- 37.2
- 37.0 — Controller reading 37.0 °C Apply OFFSET by +0.2 °C to change controller reading as 37.2 °C
- 20.0

Time (hr)

— Chamber Temperature Profile
— Controller Temperature Profile
····· 1 Point OFFSET Temperature Profile

Provides simple and easy calibration tool to calibrate chamber at ONE SPECIFIC TEMPERTURE POINT of frequent use.

Specifications

Model	JSGI-050T	JSGI-100T	JSGI-150T	JSGI-250T
Dimension Data				
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
Performance Data				
Heating System	Forced Convection			
Temperature Range	ambient +5 $^\circ$C to 70 $^\circ$C, 0.1 $^\circ$C resolution			
Temperature Accuracy at 37.0 $^\circ$C	+/- 0.2 $^\circ$C	+/- 0.2 $^\circ$C	+/- 0.2 $^\circ$C	+/- 0.3 $^\circ$C
Temperature Uniformity at 37.0 $^\circ$C	+/- 0.5 $^\circ$C	+/- 0.5 $^\circ$C	+/- 1.0 $^\circ$C	+/- 1.5 $^\circ$C
Heat-up Time to 37.0 $^\circ$C	15 min.	15 min.	15 min.	20 min.
Controller				
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			
Turn-Off Timer	Max. 99 hr 59 min by 1 min resolution			
Turn-On 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]			
Material Data				
Body	Epoxy Powder Coated Steel			
Chamber	Stainlss Steel 304 (AISI304)			
Inner Glass Door	5.0 mm Thick Tempered Safety Glass Door			
Safety Data				
Safety Device	Door Open / Over Temperature / Over Current Protection Audio Visual Alarm			
Electrical Data				
Power Requirement	230 +/- 10% VAC I 50/60 Hz I 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			
Usable Condition				
Temp. & Humidity	5 $^\circ$C - 40 $^\circ$C, 80% RH Max.			

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Ordering Information

Art. Number	Descriptions		
JSGI-050T	Heated General Incubator	50 Liter	230 VAC 1 ph 50/60Hz
JSGI-100T	Heated General Incubator	100 Liter	230 VAC 1 ph 50/60Hz
JSGI-150T	Heated General Incubator	150 Liter	230 VAC 1 ph 50/60Hz
JSGI-250T	Heated General Incubator	250 Liter	230 VAC 1 ph 50/60Hz

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

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