

## Model JSGI-250DT : Dual Chamber General Incubator



JSGI-250DT Dual Chamber General Incubator provides 500 liter chamber for large capacity of incubation. Two 250 liter capacity chambers has independent temperature controller enable incubation of different temperature at the same time. Suitable 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.

### 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

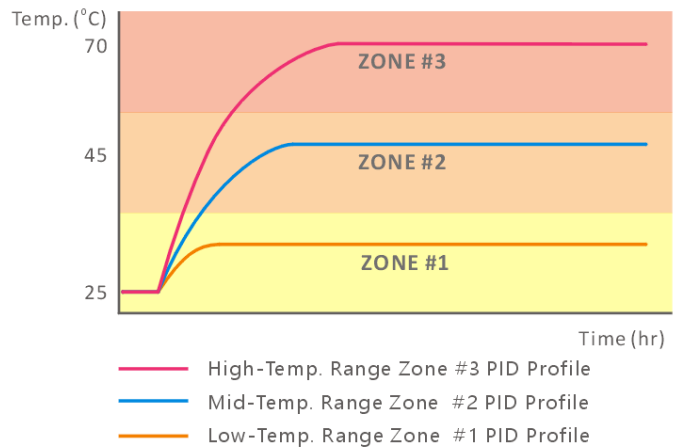
#### CONSTRUCTION

- 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**

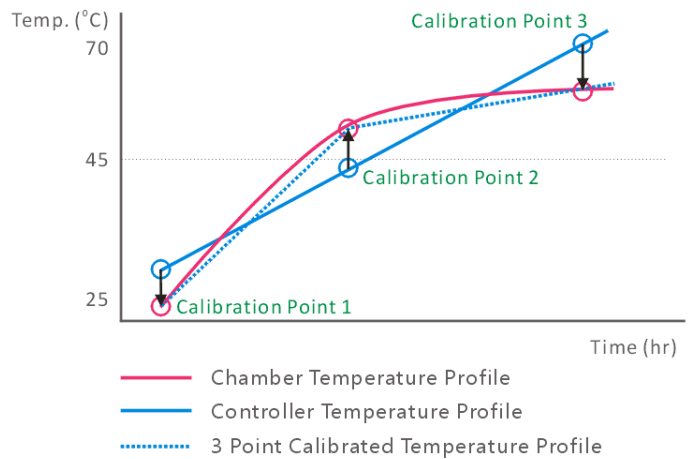
**-3 ZONE PID ALGORITHM**

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.



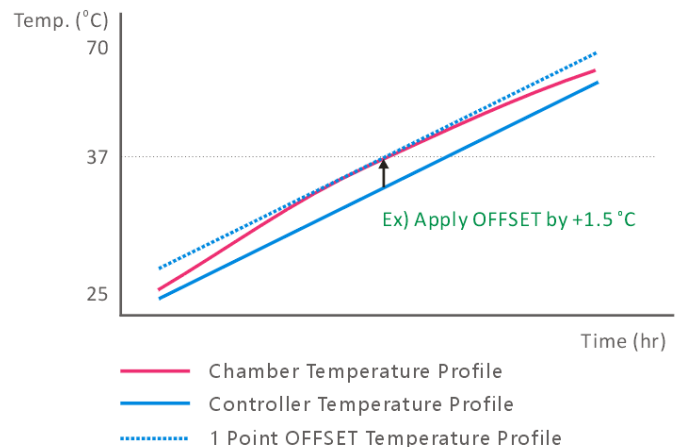
**-3 POINT CALIBRATION FUNCTION**

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-250DT

#### Dimension Data

Chamber Volume	2 Chambers x 250 Liters
Inner Dims. (W x D x H mm)	500 x 500 x 1000 / chamber
Outer Dims. (W x D x H mm)	680 x 735 x 1320
Inner Glass Door (W x H mm)	561 x 1077
No. of Shelf Positions	36 ea by 25mm spacing
No. of Shelf included	6 ea
No. of Ventilation Damper	2 ea

#### Performance Data

Heating System	Forced Air Convection
Temp. Range	Amb. +5 °C ~ +70 °C
Accuracy	±0.3 °C at 37.0 °C
Uniformity	±1.5 °C at 37.0 °C
Heat up time to 37.0 °C	20 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
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**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	400 W / chamber
Nominal power	410 W / chamber 2.0 amp / chamber has individual power
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 )	1500 x 900 x 1500 mm
Type of packaging	Wooden crating
Net Weight	120.0 kg
Shipping Weight	132.0 kg

## ORDERING INFORMATION

Art. No.	Descriptions	Voltage
JSGI-250DT	<b>General Incubator, 250 L x 2 chambers</b> including standard accessories 6 ea x PVC Coated Wire Shelf 24 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-A06	Perforated Shelf, Stainless Steel 304, W470 x D480 mm
PHS-C05	PVC Coated Wire Shelf, W470 x D480 mm
PHS-A99	Shelf Support, Set of 4 ea

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