

## COMMODITY DESCRIPTION

H.S. Code	Item No	Description	Unit	Quantity
		Tissue Culture Chamber	SET	1

A. Model Name : JSCC-250CP

B. Product Description : Tissue Culture Chamber

C. Manufacturer / Origin : JS Research Inc. / Rep. of KOREA

**D. Application :**

JSCC-Series Plant Tissue Culture Chamber controls temperature and light for photoperiodic day-night simulation to provide controlled climatic condition for crop plants or photosynthetic organisms. Culture conditions such as temperature and light ON/OFF are programmable in 5 pattern memory, up to 80 segments for each pattern, light ON/OFF, temperature range from +0 °C to 70 °C

**E. Photo**



JSCC-250CP Tissue Culture Chamber

## F. Feature

### Controller (JSC-5D Programmable Controller 5 Patterns 80 Segments )

- ✓  $\pm 0.1$  °C Programmable 16-bit Microprocessor PID Controller
- ✓ Two-line back-light LCD Display
- ✓ 5 Patterns Memory 80 Segments 999 Cycles repeatable
- ✓ Supports Constant Temperature Mode / Program Mode
- ✓ Pattern link function
- ✓ Segment skip function
- ✓ Automatic STOP timer
- ✓ Adjustable timer scale 99min 59sec / 99hr 59min continuous operation
- ✓ Programmable photoperiodic light control
- ✓ Temperature calibration function
- ✓ Auto-tuning function
- ✓ Class A Pt-100  $\Omega$  sensor

### Construction

- ✓ Durable epoxy powder coated metallic casing
- ✓ Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy decontamination and prevent leakage
- ✓ Durable Stainless Steel 304 Sheath Heater and Copper-Aluminum fin evaporator
- ✓ Tempered safety inner glass door for easy observation of samples

### Performance

- ✓ Forced circulation for excellent thermal uniformity within  $\pm 0.2$  °C
- ✓ Separate heating and cooling compartment prevents contamination and maintenance free
- ✓ Cooling system with hermetically sealed compressor

### Convenience

- ✓ Outer door with self adhesive magnetic packing
- ✓ Inner glass door with high density silicone packing and air-tight door lock
- ✓ Stainless Steel 304 Chamber with seamless round cornered edge allows easy decontamination and prevent leakage
- ✓ Removable and height adjustable shelf by 25mm spacing
- ✓ Adjustable automatic defrost system

### Safety

- ✓ DUAL OVER TEMP. CUT-OFF  
Digital system cut-off heater and AUDIO VISUAL ALARM in case  $+2$  °C above set temperature  
Analog system cut-off heater 10% above set temp.
- ✓ MAX TEMP CUT-OFF heater and AUDIO VISUAL ALARM when  $+1$  °C above maximum limit

- ✓ OVER COOLING. CUT-OFF  
Digital system automatically cut-off compressor in case -3 °C below set temperature
- ✓ SENSOR DISCONNECTION ALARM
- ✓ OVER CURRENT CUT-OFF : Electric Leakage Breaker

## G. Specifications

Chamber Volume (Capacity)	250 Liters
Inner Dims. (W x D x H)	500 x 500 x 1000 mm
Outer Dims. (W x D x H)	680 x 830 x 1830 mm
No. of Shelves included	3 EA
No. of Shelf position	16 EA by 25 mm spacing
Heating	Forced Air Convection
Cooling	CFC Free air cooled compressor, 1/3 HP
Temp. Range	+0°C ~ +70°C
Accuracy	±0.2°C at +20°C
Uniformity	±0.5°C at +20°C
Control	Program Mode 5 Patterns Memory 80 Segments Manual Mode Fixed Temp. operation with timer Programmable photoperiodic light control
Sensor	Class A PT-100 Ω Sensor
Illumination	4 ea x 30 watt fluorescent tubes 7,000 Lux
Safety	Over-Temperature Cut-Off Over Current Cut-Off
Material	Body : Epoxy Powder Coated Steel, 1.0 mm thickness Chamber : Stainless Steel 304, 0.8 mm thickness Inner Glass Door : Tempered Safety, 5 mm thickness
Electrical Requirement	220 ± 10% VAC, 50/60Hz, 1-Phase
Heater Capacity	1.0 kW
Power Rating	8.6 amps
Plug Configuration	CEE 7/7 Schuko or BS 1363
Net Weight	130 kg
Shipping Weight	160 kg
Shipping Dims. (W x D x H)	940 x 780 x 1990 mm, carton on a wooden palette

## H. Standard Accessories

PVC Coated Wire Shelf : 3 EA

Shelf Support : 12 EA

Instruction Manual : 1 EA

Warranty Card : 1 EA

## I. Options & Accessories

Art No.	Descriptions
OEC-003	JSC-3D Programmable Controller 1 Pattern 11 Segments /w RS-232C Interface, PC Software
OEA-001	Power Outlet Consent in Chamber for CEE 7/7 Schuko Plug
OEA-002	Power Outlet Consent in Chamber for BS 1363 Plug
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

## J. Warranty

1 Year full coverage warranty