

## COMMODITY DESCRIPTION

H.S. Code	Item No	Description	Unit	Quantity
		<b>Temperature &amp; Humidity Climatic Chamber</b>	<b>SET</b>	<b>1</b>

**A. Model Name :** JSRH-150CPL

**B. Product Description :** Premium Temperature & Humidity Climatic Chamber

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

**D. Application :**

JSRH-Series Premium Climatic Chamber is suitable for stability, reliability and acceleration aging test of various parts, components and final products in wide range of temperature from -40 °C to 150 °C and humidity from 35 ~ 98% RH.

**E. Photo**



**JSRH-500CPL**

**Temperature & Humidity Climatic Chamber with JSC-950 Basic Controller**



**JSRH-500CPL**

**Temperature & Humidity Climatic Chamber with JSC-2500 Premium Controller**

## F. Feature

### Basic Controller (JSC-950 5.6" TFT-LCD Touch Screen)

- ✓ 5.6" TFT-LCD Touch Screen Programmable PID Controller
- ✓ 120 Patterns memory 1200 Segments 999 times repeatable
- ✓ RS-232C or RS-485 Multi-Drop serial communication up to 31 instruments and PC software
- ✓ 64 MB Internal memory save parameter, patterns and trend data logging
- ✓ Maximum 9 zone PID group for different temperature and humidity range for better control accuracy
- ✓ Uploading and downloading data, pattern, parameter setting with PC
- ✓ Control and Data Monitoring PC Software
- ✓ Temperature calibration and auto-tuning function
- ✓ High precision humidity and temperature module sensor

### Optional Controller (JSC-2500 5.7" TFT-LCD Full Color Touch Screen)

- ✓ 5.7" TFT-LCD Full Color Touch Screen Programmable PID Controller
- ✓ 120 Patterns memory 1200 Segments 999 times repeatable
- ✓ RS-232C or RS-485 Multi-Drop serial communication up to 31 instruments and PC software
- ✓ 64 MB Internal memory save parameter, patterns and trend data logging
- ✓ SD memory card save parameter, patterns and trend data logging
- ✓ Maximum 9 zone PID group for different temperature and humidity range for better control accuracy
- ✓ Displays real time trend graph monitoring
- ✓ Displays recorded trend graph monitoring
- ✓ Easy-to-use Graphic User Interface
- ✓ Uploading and downloading data, pattern, parameter setting with PC
- ✓ Control and Data Monitoring PC Software
- ✓ Temperature calibration and auto-tuning function
- ✓ High precision humidity and temperature module sensor

### Construction

- ✓ Durable epoxy powder coated metallic casing
- ✓ Corrosion resistant Stainless Steel 304 chamber
- ✓ Durable Stainless Steel 304 Sheath Heater and Copper-Aluminum fin evaporator
- ✓ Removable and height adjustable shelf
- ✓ Built-in humidifier and automatic water supply
- ✓ Double layer vacuum tempered safety glass window with heater

### Performance

- ✓ Wide range of temperature and humidity control
- ✓ High performance control system allows long term stability and reliability test at different temperature and humidity condition

- ✓ Forced air circulation of controlled temperature and humidity to achieve excellent thermal uniformity
- ✓ Durable Stainless Steel 304 Sheath Heater and copper-aluminum finned evaporator
- ✓ Temperature control within  $\pm 0.1$  °C resolution
- ✓ Humidity control within  $\pm 1.0\%$  RH resolution
- ✓ Cooling system with hermetically sealed compressor

#### Convenience

- ✓ Outer door with double gasket and air tight compression door lock
- ✓  $\varnothing$  50 mm access port for easy connection of cables into the chamber
- ✓ Triple layer sight glass window with heater
- ✓ Chamber light helps convenient monitoring of sample during operation
- ✓ Built-in water tank for humidifier
- ✓ Built-in casters for easy transport

#### 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
- ✓ SENSOR DISCONNECTION ALARM
- ✓ LOW WATER LEVEL ALARM AND CUT-OFF
- ✓ HUMIDIFIER DRY-BURN PROTECTION
- ✓ OVER CURRENT CUT-OFF : Electric Leakage Breaker

#### G. Specifications

Chamber Volume (Capacity)	150 Liters
Inner Dims. (W x D x H)	500 x 500 x 600 mm
Outer Dims. (W x D x H)	1030 x 905 x 1505 mm
No. of Shelves included	2 EA
No. of Shelf position	19 EA by 25 mm spacing
Heating	Forced Air Convection
Cooling	CFC Free air cooled compressor
Control	[Basic] JSC-950 5.6" TFT-LCD Touch Screen [Option] JSC-2500 5.7" TFT-LCD Full Color Touch Screen
Temp. Range	$-40^{\circ}\text{C}$ ~ $+150^{\circ}\text{C}$ without humidification
Accuracy	$\pm 0.2^{\circ}\text{C}$ at $+20^{\circ}\text{C}$
Uniformity	$\pm 0.7^{\circ}\text{C}$ at $+20^{\circ}\text{C}$
Sensor	Humidity and temperature module

Humidity Range	35% ~ 98% RH
Accuracy	±0.3% at 60% RH
Uniformity	±1.0% at 60% RH
Sensor	Humidity and temperature module
Safety	Over-Temperature Cut-Off Low water level Cut-Off Over Current Cut-Off
Material	Body : Epoxy Powder Coated Steel Chamber : Stainless Steel 304
Electrical Requirement	220 ± 10% VAC, 50/60Hz, 1-Phase
Heater Capacity	4.5 kW
Power Rating	31.7 amps
Plug Configuration	30 AMP

#### H. Standard Accessories

- Stainless Steel 304 Perforated Shelf : 2 EA
- Shelf Support : 8 EA
- Instruction Manual : 1 EA
- Warranty Card : 1 EA

#### I. Options & Accessories

Art No.	Descriptions
OEC-006	JSC-2500 5.7" TFT-LCD Full Color Touch Screen
OER-010	6-Channel Chart Recorder
PHS-A06	Perforated Shelf, Stainless Steel 304 W470 x D480 mm

#### J. Warranty

- 1 Year full coverage warranty