

## COMMODITY DESCRIPTION

H.S. Code	Item No	Description	Unit	Quantity
		Temperature & Humidity Climatic Chamber	SET	1

A. Model Name : JSTH-150CP

B. Product Description : Temperature & Humidity Climatic Chamber

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

D. Application :

JSTH-Series Climatic Chamber is practical and economic choice for stability, reliability and acceleration aging test of various parts, components and final products in ambient range of temperature from +10 °C to +80 °C and humidity from 60 ~ 90% RH.

E. Photo



JSTH-500CP Temperature & Humidity Climatic Chamber

## F. Feature

### Controller (JSC-300 Graphic LCD Programmable Controller)

- ✓ 10 Patterns memory 100 Segments 999 times repeatable
- ✓ RS-232C or RS-485 Multi-Drop serial communication up to 9 instruments and PC software (option)
- ✓ Maximum 6 zone PID group for different temperature and humidity range for better control accuracy
- ✓ Temperature calibration and auto-tuning function
- ✓ High precision humidity and temperature module

### 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

### Performance

- ✓ Ideal for ambient range temperature and humidity test
- ✓ Optimized 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
- ✓ Automatic water supply
- ✓ 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	Program Mode 10 Patterns Memory 100 Segments Manual Mode Fixed Temp. operation with timer
Temp. Range	+10°C ~ +80°C without humidification
Accuracy	±0.2°C at +20°C
Uniformity	±0.7°C at +20°C
Sensor	Humidity and temperature module
Humidity Range	60% ~ 90% 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	24.1 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**

<b>Art No.</b>	<b>Descriptions</b>
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OER-010	6-Channel Chart Recorder
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PHS-A06	Perforated Shelf, Stainless Steel 304 W470 x D480 mm
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### **J. Warranty**

1 Year full coverage warranty