

## COMMODITY DESCRIPTION

H.S. Code	Item No	Description	Unit	Quantity
8419.39.9000	-	Forced Convection Oven	SET	1

**A. Model Name :** JSOF-100

**B. Product Description :** Forced Convection Oven

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

**D. Application :**

JSOF-Series Forced Convection Ovens utilize a motorized fan to force air circulating across heating element to supply hot air into the chamber. The fan allows more consistent temperature distribution of the chamber for applications in which good temperature uniformity or faster heat up and short drying time are needed.

**E. Photo**



**JSOF-150 Forced Convection Oven**

## **F. Feature**

### **Controller**

#### **JSC-0D Digital PID Controller**

- ✓  $\pm 0.1$  °C Digital PID Controller with LED Display
- ✓ Automatic START/STOP timer
- ✓ Adjustable timer scale 99min 59sec / 99hr 59min / 99day 23hr or continuous operation
- ✓ Temperature calibration
- ✓ Auto-tuning function
- ✓ Class A Pt-100 $\Omega$  sensor

### **Construction**

- ✓ Durable epoxy powder coated metallic casing
- ✓ Ventilation damper
- ✓ Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevent leakage
- ✓ Double layered glass window for easy observation of samples

### **Performance**

- ✓ Forced air convection for fast drying application
- ✓ Aero-dynamic chamber design with circulation blower to achieve superior thermal uniformity
- ✓ Separate heating compartment located on back wall prevents contamination and maintenance free
- ✓ 50mm thick high thermal efficiency mineral wool with woven aluminum barrier sheet save energy and less dust

### **Convenience**

- ✓ Double layered tempered safety glass window for easy observation of samples under testing
- ✓ Stainless Steel 304 Chamber with seamless round cornered edge allows easy cleaning and prevent leakage
- ✓ Removable and height adjustable shelf by 25mm spacing
- ✓ Easy to open and air-tight one touch door latch
- ✓ Opening size adjustable ventilation damper
- ✓ Non-contact door switch cut-off heater and blower

## 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
- ✓ DOOR SENSOR : Non-contact magnetic door switch cut-off heater and/or blower when door opened
- ✓ SENSOR DISCONNECTION ALARM
- ✓ OVER CURRENT CUT-OFF : Electrical Leakage Breaker

## G. Specifications

Chamber Volume (Capacity)	100 Liters
Inner Dims. (W x D x H)	500 x 400 x 500 mm
Outer Dims. (W x D x H)	660 x 705 x 810 mm
Window Dims. (W x H)	150 x 360 mm
No. of Shelves included	2 EA
No. of Shelf position	16 EA by 25 mm spacing
No. of Ventilation damper	1 EA
Heating	Forced Air Convection
Temp. Range	ambient +10 °C ~ +250 °C
Accuracy	±0.3 °C at +120 °C
Uniformity	±1.3 °C at +120 °C
Heat up time to +120 °C	10 min.
Control	Microprocessor PID control Auto START / STOP Timer
Sensor	Class A PT-100 Ω Sensor
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 Insulation : 50 mm Woven Mineral Wool
Electrical Requirement	220 ± 10% VAC, 50/60Hz, 1-Phase
Heater Capacity	1.5 kW
Power Rating	7.0 amps
Plug Configuration	CEE 7/7 Schuko or BS 1363

Net Weight	67 kg
Shipping Weight	77 kg
Shipping Dims. (W x D x H)	750 x 700 x 960 mm, carton on a wooden palette

#### H. Standard Accessories

Wire Shelf, Stainless Steel 304 : 2 EA

Shelf Support : 8 EA

Instruction Manual : 1 EA

Warranty Card : 1 EA

#### I. Options & Accessories

Art No.	Descriptions
OEC-001	JSC-1D Digital PID Controller /w RS-232C Interface, PC Software
OEC-003	JSC-3D Programmable Controller 1 Pattern 11 Segments /w RS-232C Interface, PC Software
OEC-005	JSC-5D Programmable Controller 5 Patterns 80 Segments
PHS-A05	Perforated Shelf, Stainless Steel 304, W470 x D380 mm
PHS-B05	Wire Shelf, Stainless Steel 304, W470 x D380 mm
PHS-A99	Shelf Support, Set of 4 EA

#### J. Warranty

1 Year full coverage warranty