COMMODITY DESCRIPTION

H.S. Code	Item No	Description	Unit	Quantity
8419.39.9000	-	**High Temperature Oven**	**SET**	**1**

A. Model Name : JSOF-030H

B. Product Description : High Temperature Oven

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

D. Application :

High-Temperature Forced Convection Oven provides higher temperature up to +350℃ than conventional ovens for special application for material research or testing laboratory.

Motorized fan to force air circulation across heating elements and circulates into the chamber.

The fan allows more consistent distribution of air and optional inert gas (Nitrogen Gas) purge system allows control oxidation of samples at high temperature treatment.

E. Photo

JSOF-100H High Temperature Oven

F. Feature

Controller   JSC-0D Digital PID Controller

- ✓ ±0.1 ^{o}C Digital PID Controller with LED Display
- ✓ Automatic START/STOP timer
- ✓ Adjustable timer scale 99min 59sec / 99hr 59min / 99 day 23hr or continuous operation
- ✓ Temperature calibration
- ✓ Auto-tuning function
- ✓ Class A Pt-100Ω sensor

Construction

- ✓ Durable epoxy powder coated metallic casing
- ✓ Ventilation damper
- ✓ Corrosion resistant Stainless Steel 304 chamber

Performance

- ✓ High capacity heating element with forced air convection for fast heat up time to high temperature
- ✓ Aero-dynamic chamber with circulation blower to achieve superior thermal uniformity
- ✓ Separate heating compartment located on side wall prevents contamination and maintenance free
- ✓ Double insulation with 50mm mineral wool and 25mm ceramic wool for better thermal insulation

Convenience

- ✓ Corrosion resistant Stainless Steel 304 Chamber
- ✓ Removable and height adjustable shelf by 25mm spacing
- ✓ Outer door with ceramic gasket and compression door lock
- ✓ Opening size adjustable ventilation damper
- ✓ Non-contact door switch cut-off heater and blower
- ✓ High temperature resistant ceramic fiber door gasket

Safety

- ✓ DUAL OVER TEMP. CUT-OFF
- ✓ Digital system cut-off heater and AUDIO VISUAL ALARM in case +2 ^{o}C above set temperature
- ✓ Analog system cut-off heater 10% above set temp.
- ✓ MAX TEMP CUT-OFF heater and AUDIO VISUAL ALARM when +1 ^{o}C above maximum limit
- ✓ DOOR SENSOR : Non-contact magnetic door switch cut-off heater and blower when door opened
- ✓ SENSOR DISCONNECTION ALARM
- ✓ OVER CURRENT CUT-OFF : Electrical Leakage Breaker

G. Specifications

Chamber Volume (Capacity)	27 Liters
Inner Dims. (W x D x H)	300 x 300 x 300 mm
Outer Dims. (W x D x H)	745 x 460 x 580 mm
No. of Shelves included	2 EA
No. of Shelf position	14 EA by 25 mm spacing
No. of Ventilation damper	1 EA
Heating	Forced Air Convection
Temp. Range	ambient +10℃ ~ +350℃
Accuracy	±0.2℃ at +200℃
Uniformity	±1.0℃ at +200℃
Heat up time to +200℃	8 min.
Control	Microprocessor PID control
	Auto START / STOP Timer
Sensor	CA(K)-Type Sensor
Safety	Over-Temperature Cut-Off
	Over Current Cut-Off
Material	Body : Epoxy Powder Coated Steel, 1.0 mm thickness
	Chamber : Stainless Steel 304, 1.0 mm thickness
	Insulation : 50 mm Woven Mineral Wool
	25 mm Ceramic Wool
Electrical Requirement	220 ± 10% VAC, 50/60Hz, 1-Phase
Heater Capacity	2.0 kW
Power Rating	9.3 amps
Plug Configuration	CEE 7/7 Schuko or BS 1363
Net Weight	45 kg
Shipping Weight	55 kg
Shipping Dims. (W x D x H)	790 x 500 x 730 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
OHC-001	Nitrogen Gas Purge System
	gas inlet/outlet fitting with valve, flow meter
PHS-A01	Perforated Shelf, Stainless Steel 304, W270 x D270 mm
PHS-B01	Wire Shelf, Stainless Steel 304, W270 x D270 mm
PHS-A99	Shelf Support, Set of 4 EA

J. Warranty

1 Year full coverage warranty