COMMODITY DESCRIPTION

H.S. Code	Item No	Description	Unit	Quantity
8419.39.9000	-	**Vacuum Drying Oven**	**SET**	**1**

A. Model Name : JSVO-30T

B. Product Description : Vacuum Drying Oven

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

D. Application :

Vacuum Drying Oven is suitable for drying out liquids or solvents contained in a samples or materials in vacuum environment to achieve low heat of vaporization or sublimation point.

Ideal for Vacuum Distillation, Vacuum Sublimation or Vacuum Drying application of material science or electronic parts and assemblies.

Also suitable for drying out fine powders in vacuum environment without air convection to prevent diffusion of such samples.

Drying, curing, de-gassing, aging, removing moisture or solvent from fine powder or solid material, accelerating drying time, drying temperature sensitive material, drying in anaerobic condition, remove solvent from DNA, RNA or protein, drying unidentified material characteristic.

E. Photo

JSVO-60T Vacuum Oven

F. Feature

Controller　JSC-0D Digital PID Controller

- ✓　±0.1 °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
- ✓　Corrosion resistant Electro-Polished Stainless Steel 304 chamber
- ✓　15 mm thick tempered safety glass window for easy observation of samples and window grill for safety

Performance

- ✓　Heater from side wall transduces heat through aluminum shelf to maintain uniform temperature over the surface of shelf
- ✓　Class A Pt-100Ω sensor embedded into the aluminum shelf to measure accurate temperature of the shelf
- ✓　50mm thick high thermal efficiency mineral wool with woven aluminum barrier sheet saves energy and less dust

Convenience

- ✓　Corrosion resistant Stainless Steel 304 (ASTM 304) solid chamber interior
- ✓　Door with 15mm thick tempered safety glass window with safety grill
- ✓　Vacuum tight high density one-piece silicone door gasket
- ✓　Air tight one touch door latch
- ✓　Two tier aluminum shelf
- ✓　Equipped with Vacuum Gauge ~ 760 mmHg
- ✓　Two way valve to control vacuum and lock
- ✓　Adjustable needle valve for fine control of vent speed

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
- ✓　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)	665 x 470 x 535 mm
Window Dims. (W x H)	265 x 285 mm
No. of Shelves included	2 EA, Aluminum
Height of Shelf	100 mm spacing
Heating	Heat transduction through aluminum shelf
Temp. Range	ambient +10℃ ~ +250℃
Accuracy	±2.0℃ at +120℃ (Shelf surface)
Uniformity	±3.0℃ at +120℃ (Shelf surface)
Heat up time to +120℃	30 min.
Vacuum (Max.)	760 mmHg
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 : Electro-Polished Stainless Steel 304,
	3.0 mm thickness
	Shelf : Anodized Aluminum, 3.0 mm thickness
	Glass Window : 15 mm thickness Tempered Safety Glass
	Insulation : 50 mm Woven Mineral Wool
Fitting	Vacuum / Vent : Ø11 mm Hose Barb
Valves	Vacuum / Lock : 2-Way Valve
	Vent : Needle Valve
Electrical Requirement	220 ± 10% VAC, 50/60Hz, 1-Phase
Heater Capacity	2.0 kW (2 EA x 1.0 kW)
Power Rating	9.2 amps
Plug Configuration	CEE 7/7 Schuko or BS 1363
Net Weight	53 kg
Shipping Weight	60 kg
Shipping Dims. (W x D x H)	770 x 780 x 690 mm, carton on a wooden palette

H. Standard Accessories

Aluminum Shelf, 3.0 mm thickness : 2 EA

Instruction Manual : 1 EA

Warranty Card : 1 EA

I. Options & Accessories

Art No.	Descriptions
PHS-A91	Aluminum Shelf, 3.0 mm thickness, W295 x D250 mm
W2V10	Rotary Vane Vacuum Pump
	100L/min, 5×10^{-4} Torr, 220VAC 50/60Hz, 400W
	WOOSUNG (Korea)
MZ 2C NT	Chemistry Diaphragm Pump
	$2.0 m^3/h$, 7 mbar, 230VAC 50/60Hz, 180W
	VACUUBRAND (Germany)
JSCT-40C	Cold Trap Bath, -20℃, 4L
JSCT-40CL	Clod Trap Bath, -40℃, 4L
OHG-001	Glass Trap, 500ml
OHV-001	High Vacuum Hose
	Inner Ø9 mm x Outer Ø24 mm, 1 Meter

J. Warranty

1 Year full coverage warranty