

## Model JSCO-1200T HEPA Filter Clean Air Oven





HI-TEMP. HEPA Filter H14 (ISO Class 5) with Stainless steel Frame

JSCO-Series Clean Air Oven is mechanical convection oven equipped with HEPA Filter Class H14 in laminar air path to remove particles up to 99.995% to keep oven chamber as clean room condition. Designed for applications drying of curing dust sensitive materials such as electronic components or medical parts, semi-conductor chip cleaning, display panel and water baking which needs particle free environment during heat treatment.

### **MAIN FEATURES**

#### **PERFORMANCE**

- Forced air convection through HI-TEMP. H14 (ISO Class 5) HEPA Filter removes particles up to 99.995%
- HEPA filtered clean horizontal laminar air flow created across the chamber between HEPA Filter installed on the back wall and drawn into the inlet grilles on front door plenum keep circulated by powerful sirocco blower prevent cross-contamination and excellent thermal uniformity
- 50mm thick high thermal efficiency mineral wool with woven aluminum barrier sheet saves energy and less dust

## **CONSTRUCTION**

- Durable epoxy powder coated metallic casing
- Corrosion resistant Stainless Steel 304 chamber
- Stainless Steel 316 (ASTM 316) Chamber [OPTION]
- 50mm thick high thermal efficiency mineral wool with woven aluminum barrier sheet saves energy and less dust



#### **CONTROLLER**

- JSC-5D Programmable Controller 5 Patterns 80 Segments
- 16-bit Microprocessor ±0.1 °C Digital PID Controller
- Constant Temperature Mode / Program Mode
- 1 Pattern 10 Segments 999 times or unlimited repeat.
- Segment skip and pattern link function
- Automatic STOP timer
- Adjustable timer scale 99min 59sec / 99hr 59min or continuous
- Temperature calibration
- Auto-tuning function
- Class A Pt-100 $\Omega$  sensor
- RS-232C Interface with PC Software [Option]

#### **CONVENIENCE**

- Floor standing for easy transport and large volume allow more throughput and productivity of sample treatment
- Removable and height adjustable shelf by 25mm spacing
- Outer door with silicone gasket and compression door lock
- Easy-to-Replace HEPA Filter

#### **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 blower when door opened
- -SENSOR DISCONNECTION ALARM
- -OVER CURRENT CUT-OFF: Electrical Leakage Breaker



#### **SPECIFICATIONS**

DESCRIPTIONS JSCO-1200T

**Dimension Data** 

Chamber Volume 1200 Liters

Inner Dims. (W x D x H mm) 1000 x 1000 x 1200 Outer Dims. (W x D x H mm) 1250 x 1530 x 1940

Shelf Spacing 25mm

No. of Shelf Position 44

No. of Perforated Shelf included 4

**Performance Data** 

Heating System Forced Air Convection

Horizontal Laminar Air Flow

Temp. Range Amb.  $+10 \,^{\circ}\text{C} \,^{\sim} +250 \,^{\circ}\text{C}$ ,  $0.1 \,^{\circ}\text{C}$  resolution

Accuracy at 120 °C  $\pm 0.3$  °C Uniformity at 120 °C  $\pm 5.0$  °C  $\pm 5.0$  °C

HEPA Filter H14 (ISO Class 5) HI-TEMP HEAP Filter

Efficiency 99.995% > 0.3um particles

Controller

Processor Digital Microprocessor Programmable PID Temperature Controller

Display 2-Line back light LCD Display

Temp. Calibration Built-in Temperature Calibration

Auto-tuning

Temp. Resolution 0.1 °C

Timer Scale 99 min 59 sec / 99 hr 59 min

Programming Constant Temperature Mode / Program Mode

1 Pattern 10 Segments 999 times or unlimited repeat.

Segment skip and pattern link function

Sensor CLASS A PT-100 Ω Sensor

PC Communication Interface RS-232C PC COMMUNICATION INTERFACE [OPTION]

RS-485 Multi-Drop COMMUNICATION INTERFACE [OPTION]



### **Safety Data**

Safety Device DUAL OVER TEMP. CUT-OFF

Digital system cut-off heater and AUDIO VISUAL ALARM

Analog system cut-off heater 10% above set temp.

MAX TEMP CUT-OFF heater and AUDIO VISUAL ALARM

CUT-OFF heater and blower when door opened

SENSOR DISCONNECTION ALARM

Over Current CUT-OFF

### **Material Data**

Body Epoxy Powder Coated SPCC Steel

Chamber Stainless Steel 304 (AISI304) and Galvanized Steel (EGI)

Door High Temperature Foamed Silicone Packing

Insulation 50 mm Woven Mineral Wool

Perforated Shelf Stainless Steel 304

### **Electrical Data**

Rated voltage  $220 (380) \pm 10\% \text{ VAC}$ 

Power frequency 50 / 60Hz Heater Output  $3 \times 2.5$  kW

Nominal power 8.0 kW 36 (12) amp Phase 1 Phase (3 Phase)

Plug configuration 50 AMP Plug

#### **Usable Condition**

Temp. & Humidity 5°C - 40 °C, < 80% RH

## **Packaging Data**

Type of packaging Wooden Crating Shipping Dims. (W x D x H mm )  $1400 \times 1690 \times 2140$ 

Net Weight 439.0 kg Shipping Weight 540.0 kg



## **ORDERING INFORMATION**

Art. No.	Descriptions	Voltage
JSCO-1200T	HEPA Filter Clean Air Oven, 1200 L	
	including standard accessories	380 VAC 3~ ph 50/60Hz
	4 ea x Perforated Shelf, Stainless Steel 304	

## **OPTIONAL ACCESSORIES**

Art. No.	Descriptions
OEC-501	RS-232C Serial Interface, PC Software
OEC-502	RS-485 Serial Interface, PC Software
OHC-002	Differential Pressure Gauge for monitoring HEPA Filter Pressure Drop
OHM-003	SS3116(ASTM316) Chamber for JSCO-1200T
PHS-A17	SUS Perforated Shelf, W970 x D980 mm for JSCO-1200T
PHS-A99	Shelf Support. Set of 4 ea

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