Model JSCO-150T   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

Technical specifications are subject to change without prior notice

CONTROLLER

- JSC-5D Programmable Controller 5 Patterns 80 Segments

- 16-bit Microprocessor ±0.1 $^\circ$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-100Ω 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 $^\circ$C above set temperature

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

-MAX TEMP CUT-OFF heater and AUDIO VISUAL ALARM when +1 $^\circ$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-150T
Dimension Data	
Chamber Volume	168 Liters
Inner Dims. (W x D x H mm)	600 x 560 x 500
Outer Dims. (W x D x H mm)	845 x 1100 x 1240
Shelf Spacing	25mm
No. of Shelf Position	14
No. of Perforated Shelf included	2
Performance Data	
Heating System	Forced Air Convection
	Horizontal Laminar Air Flow
Temp. Range	Amb. +10 $^{\circ}$C ~ +250 $^{\circ}$C, 0.1 $^{\circ}$C resolution
Accuracy at 120 $^{\circ}$C	±0.3 $^{\circ}$C
Uniformity at 120 $^{\circ}$C	±5.0 $^{\circ}$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 $^{\circ}$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]

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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 ± 10% VAC
Power frequency	50 / 60Hz
Heater Output	2 x 1.0 kW
Nominal power	2.2 kW 10.0 amp
Phase	1 Phase
Plug configuration	CEE 7/7 Schuko

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)	980 x 1220 x 1310
Net Weight	190.0 kg
Shipping Weight	280.0 kg

ORDERING INFORMATION

Art. No.	Descriptions	Voltage
JSCO-150T	**HEPA Filter Clean Air Oven, 168 L**	220 VAC 1~ ph 50/60Hz
	including standard accessories	
	2 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-001	SS3116(ASTM316) Chamber for JSCO-150T
PHS-A08	SUS Perforated Shelf, W570 x D540 mm for JSCO-150T / 300T
PHS-A99	Shelf Support. Set of 4 ea

JS RESEARCH INC.   Technical Data

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