Model JSCO-300T 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 crosscontamination 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 Ω 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-300T
Dimension Data	
Chamber Volume	336 Liters
Inner Dims. (W x D x H mm)	600 x 560 x 1000
Outer Dims. (W x D x H mm)	845 x 1100 x 1740
Shelf Spacing	25mm
No. of Shelf Position	36
No. of Perforated Shelf included	3
Performance Data	
Heating System	Forced Air Convection
	Horizontal Laminar Air Flow
Temp. Range	Amb. +10 °C ~ +250 °C, 0.1 °C resolution
Accuracy at 120 °C	±0.3 °C
Uniformity at 120 °C	±5.0 °C
HEPA Filter	H14 (ISO Class 5) HI-TEMP HEAP Filter
HEPA Filter	H14 (ISO Class 5) HI-TEMP HEAP Filter Efficiency 99.995% > 0.3um particles
HEPA Filter	
HEPA Filter Controller	
Controller	Efficiency 99.995% > 0.3um particles
Controller Processor	Efficiency 99.995% > 0.3um particles Digital Microprocessor Programmable PID Temperature Controller
Controller Processor Display	Efficiency 99.995% > 0.3um particles Digital Microprocessor Programmable PID Temperature Controller 2-Line back light LCD Display
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Controller Processor Display Temp. Calibration Temp. Resolution Timer Scale	Efficiency 99.995% > 0.3um particles Digital Microprocessor Programmable PID Temperature Controller 2-Line back light LCD Display Built-in Temperature Calibration Auto-tuning 0.1 °C 99 min 59 sec / 99 hr 59 min
Controller Processor Display Temp. Calibration Temp. Resolution Timer Scale	Efficiency 99.995% > 0.3um particles Digital Microprocessor Programmable PID Temperature Controller 2-Line back light LCD Display Built-in Temperature Calibration Auto-tuning 0.1 °C 99 min 59 sec / 99 hr 59 min Constant Temperature Mode / Program Mode
Controller Processor Display Temp. Calibration Temp. Resolution Timer Scale	Efficiency 99.995% > 0.3um particles Digital Microprocessor Programmable PID Temperature Controller 2-Line back light LCD Display Built-in Temperature Calibration Auto-tuning 0.1 °C 99 min 59 sec / 99 hr 59 min Constant Temperature Mode / Program Mode 1 Pattern 10 Segments 999 times or unlimited repeat.
Controller Processor Display Temp. Calibration Temp. Resolution Timer Scale Programming	Efficiency 99.995% > 0.3um particles Digital Microprocessor Programmable PID Temperature Controller 2-Line back light LCD Display Built-in Temperature Calibration Auto-tuning 0.1 °C 99 min 59 sec / 99 hr 59 min Constant Temperature Mode / Program Mode 1 Pattern 10 Segments 999 times or unlimited repeat. Segment skip and pattern link function



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 2.0 kW	
Nominal power	4.5 kW 20.5 amp	
Phase	1 Phase	
Plug configuration	30 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)	1000 x 1250 x 1940	
Net Weight	230.0 kg	
Shipping Weight	320.0 kg	



ORDERING INFORMATION

Art. No.	Descriptions	Voltage
JSCO-300T	HEPA Filter Clean Air Oven, 336 L	220 VAC 1~ ph 50/60Hz
	including standard accessories	
	3 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-002	SS3116(ASTM316) Chamber for JSCO-300T
PHS-A08	SUS Perforated Shelf, W570 x D540 mm for JSCO-150T / 300T
PHS-A99	Shelf Support. Set of 4 ea

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