

# JSCO-Series

## HEPA FILTER CLEAN AIR OVEN

amb. +10 °C ~ 250 °C  
H14 (ISO Class5) HEPA



### Controller

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  
Timer 99min 59sec / 99hr 59min or continuous  
Temperature calibration  
Auto-tuning function  
Class A Pt-100 Ohm sensor  
RS-232C Interface with PC Software [Option]

## # Features

### Performance

Temperature Range : amb. +10 °C to 250 °C  
Temperature Accuracy : within +/- 0.3 °C  
Temperature Uniformity : within +/- 5.0 °C

Control Temperature Range ambient +10 °C to 250 °C.  
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

### 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

### 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

DOOR SENSOR CUT OFF HEATER AND FAN  
DUAL OVER TEMPERATURE CUT-OFF BY CONTROLLER  
AND INDEPENDENT THERMOSTAT  
HIGH TEMPERATURE CUT-OFF AND AUDIO VISUAL ALARM  
LOW TEMPERATURE CUT-OFF AND AUDIO VISUAL ALARM  
PT SENSOR SHORT OR DISCONNECTION ALARM  
OVER CURRENT CUT-OFF : Electrical Leakage Breaker

# # Specifications

Model	JSCO-150T	JSCO-300T	JSCO-1200T
<b>Dimension Data</b>			
Chamber Volume	168 Liters	336 Liters	1200 Liters
Inner Dims. (WxDxH) mm	600 x 560 x 500	600 x 560 x 1000	1000 x 1000 x 1200
Outer Dims. (WxDxH) mm	845 x 1100 x 1240	845 x 1100 x 1740	1250 x 1530 x 1940
No. of Shelf Positions (25 mm spacing)	14 ea	36 ea	44 ea
No. of Shelf Included	2 ea	3 ea	4 ea
<b>Performance Data</b>			
Heating System	Forced Convection Horizontal Laminar Air Flow		
Temperature Range	ambient +10 °C to 250 °C, 0.1 °C resolution		
Temperature Accuracy at 120 °C	+/- 0.3 °C		
Temperature Uniformity at 120 °C	+/- 5.0 °C		
HEPA Filter	H14 (ISO Class5) HI-TEMP HEPA		
Filtration Efficiency	99.995% > 0.3 um Particles		
<b>Controller</b>			
Type	Digital Microprocessor Programmable PID Controller		
Display	2-Line Back Light LCD Display		
Control Logic	PID Temperature Control with Auto-Tuning		
Calibration	1 Point Temperature Offset		
Auto-Start / Stop Timer	99 min 59 sec / 99 hr 59 mi n		
Programming	1 Pattern 10 Segments 999 Times or Unlimited Repeat Segment Skip / Pattern Link		
Sensor	CLASS A PT-100 Ohm Sensor		
Power Restoration	Power and Timer Restoration Function in case of power outage		
Communication Interface	RS-232C or RS-485 [OPTION]		
<b>Material Data</b>			
Body	Epoxy Powder Coated Steel		
Chamber	Stainlss Steel 304 (AISI304)		
Insulaton	50 mm Woven Mineral Wool with Aluminum Barrier		
<b>Safety Data</b>			
Safety Device	Door Open / Over Temperature / Over Current Protection		
<b>Electrical Data</b>			
Power Requirement	220 VAC   50/60 Hz   1 Phase		220V 1P (380V 3P)   50/60 Hz
Power Consumption	2.2 kW 10.0 amp	4.5 kW 20.5 amp	8.0 kW 36.0 (12.0) amp
Plug Configuration	CEE 7/7 Schuko	30 AMP Plug	30 AMP Plug
<b>Usable Condition</b>			
Temp. & Humidity	5 °C - 40 °C, 80% RH Max.		



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### # Ordering Information

Art. Number	Descriptions
JSCO-150T	HEPA Filter Clean Air Oven, 168 Liter 220 VAC 1 ph 50/60Hz
JSCO-300T	HEPA Filter Clean Air Oven, 336 Liter 220 VAC 1 ph 50/60Hz
JSCO-1200T	HEPA Filter Clean Air Oven, 1200 Liter 220(380) VAC 1 (3) ph 50/60Hz

Accessories	Shelves
PHS-A08	Perforated Shelf, Stainless Steel 304 for JSCO-150T, 300T W570 x D540 mm
PHS-A17	Perforated Shelf, Stainless Steel 304 for JSCO-1200T W970 x D980 mm
OEC-501	RS-232C Serial Interface
OEC-502	RS-485 Serial Interface
OHC-002	Differential Pressure Gauge
OHM-001	Stainless Steel 316 Chamber for JSCO-150T
OHM-002	Stainless Steel 316 Chamber for JSCO-300T
OHM-003	Stainless Steel 316 Chamber for JSCO-1200T
OHF-H150	Hi-Temp H14 (ISO Class5) HEPA Filter for JSCO-150T
OHF-H300	Hi-Temp H14 (ISO Class5) HEPA Filter for JSCO-300T
OHF-H1200	Hi-Temp H14 (ISO Class5) HEPA Filter for JSCO-1200T



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