

## Model JSOF-100H 350 °C Hi-Temp. Oven



High-Temperature Forced Convection Oven provides higher temperature up to +350 °C than conventional ovens for special application for material research or testing laboratory. Motorized fan to force air circulation across heating elements and circulates into the chamber.

The fan allows more consistent distribution of air and optional inert gas (Nitrogen Gas) purge system prevents oxidation of samples at a high temperature treatment.

### MAIN FEATURES

#### PERFORMANCE

- Control Temperature Range from ambient +10 °C to 350 °C
- Forced air convection for fast drying application
- Aero-dynamic chamber designed with circulation blower to achieve superior thermal uniformity
- Separate heating compartment located on side wall for contamination free and maintenance free
- 50mm thick high thermal efficiency mineral wool with woven aluminum barrier sheet saves energy and less dust

#### 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
- CA(K)-Type sensor

#### CONSTRUCTION

- Durable epoxy powder coated metallic casing
- Corrosion resistant Stainless Steel 304 chamber
- Ventilation damper

**CONVENIENCE**

- Corrosion resistant Stainless Steel 304 Chamber
- Removable and height adjustable shelf by 25mm spacing
- Outer door with ceramic gasket and compression door lock
- Opening size adjustable ventilation damper
- Non-contact door switch cut-off heater and blower
- High temperature resistant ceramic fiber door gasket
- Opening size adjustable ventilation damper
- Door switch cut-off heater and blower to protect user from exposure to hot air

**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 cut-off heater and blower when door opened
- SENSOR DISCONNECTION ALARM
- OVER CURRENT CUT-OFF : Electrical Leakage Breaker

**SPECIFICATIONS**

**Art. No. JSOF-100H**

**Dimension Data**

Chamber Volume	96 Liters
Inner Dims. (W x D x H mm)	400 x 400 x 600
Outer Dims. (W x D x H mm)	845 x 560 x 880
No. of Shelf Positions	20 ea
3No. of Shelf included	2 ea
No. of Ventilation Damper	1 ea

**Performance Data**

Heating System	Forced Air Convection
Temp. Range	Amb. +10 °C ~ +350 °C
Accuracy at 120 °C	±0.3 °C
Uniformity at 120 °C	±1.5 °C
Heat up time to 200 °C	10 min.

**Controller**

Processor	Digital Microprocessor PID Temperature Controller
Display	Digital LED Display
Calibration	1 Point Temperature OFFSET Calibration
Resolution	0.1 °C
Auto-Stop Timer	1 min. ~ 99 hr 59 min
Auto-Start Time	1 min. ~ 99 hr 59 min
Sensor	CA(K)-Type
Power Restoration	Power and Timer Restoration Function in case of power outage
PC Communication Interface	RS-232C PC 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 Steel
Chamber	Stainless Steel 304 (AISI304)
Insulation	50 mm Woven Mineral Wool

**Electrical Data**

Rated voltage	220 ± 10% VAC
Power frequency	50 / 60Hz
Heater Output	2.5 kW
Nominal power	2.6 kW 11.8 amp
Phase	1 Phase
Plug configuration	CEE 7/7 Schuko or BS 1363

**Usable Condition**

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

**Packaging Data**

Type of packaging	Carton on a wooden palette
Shipping Dims. (W x D x H mm )	930 x 790 x 1080
Net Weight	65.0 kg
Shipping Weight	73.0 kg

**ORDERING INFORMATION**

Art. No.	Descriptions	Voltage
JSOF-100H	Hi Temp. Forced Convection Oven, 96 L	220 VAC 1~ ph 50/60Hz

**OPTIONAL ACCESSORIES**

Art No.		
PHS-A04	Perforated Shelf, Stainless Steel 304 for JSOF-100H	W370 x D370 mm
PHS-B04	Wire Shelf, Stainless Steel 304 for JSOF-100H	W370 x D370 mm
PHS-A99	Shelf Support, Set of 4	
PHC-001	Nitrogen Gas Purge System, Gas inlet/outlet fitting with valve, flow meter	

**JS RESEARCH INC.**

Gongju-City, Korea

TEL +82 41 856 3677

FAX +82 41 856 3679

info@jsresearch.co.kr

www.jsr.kr