

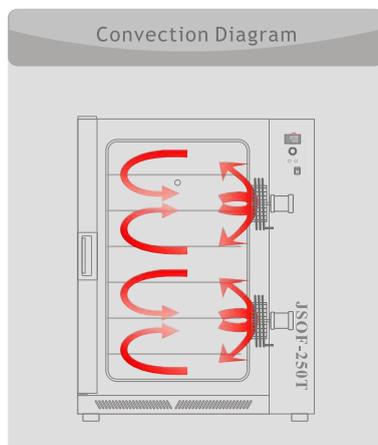
# JSOF-T Series

## PROGRAMMABLE UPRIGHT FORCED CONVECTION OVEN

amb. +10 °C ~ 250 °C



JSOF-700T Upright Forced Convection Oven



Programmable Forced Convection Oven provides 10 Steps of temperature programming as well as constant temperature operation from ambient +10 °C to +250 °C for more versatile use. Circulation fan allows consistent temperature distribution for better temperature uniformity and/or faster heat up. Thus, this is suitable for application needs various temperature simulation with high accuracy and uniformity.

## # Features

### Performance

Temperature Range : amb. +10 °C to 250 °C  
Temperature Accuracy : within +/- 0.3 °C (JSOF-250P)  
Temperature Uniformity : within +/- 1.5 °C (JSOF-250P)

Forced air convection for fast drying application.  
Aero-dynamic chamber designed with circulation blower to achieve superior thermal uniformity.  
Separated heating compartment located on the 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.

### Construction

Durable epoxy powder coated metallic casing.  
Ventilation damper.  
Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevents leakage.  
Double layered glass window for easy observation of samples.

### Convenience

Removable and adjustable shelf by 25mm spacing.  
Easy-to-open and air-tight one touch door latch.  
Opening size adjustable ventilation damper.  
Door switch cut-off heater and blower to protect user from exposure to hot air.

### Safety

DOOR SENSOR WITH DOOR OPEN AUDIO VISUAL ALARM  
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 AUDIO VISUAL ALARM  
OVER CURRENT CUT-OFF : Electrical Leakage Breaker

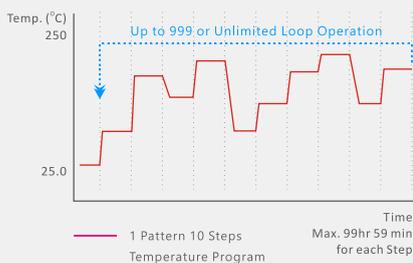
## Temperature Control

Digital Microprocessor PID Controller  
High-fidelity clear back light LCD displays complete setting and operating condition at a glance  
UV Coated Polycarbonate Touch Panel  
Easy-to-use Encoder Type Jog Dial for quick and convenient setting of temperature and timer  
0.1 °C Control resolution  
10 Step Programmable, 999 timers loop operation  
Turn-On and Turn-Off Timer up to 99 hour 59 min.  
Temperature and Timer memory function in frequent use  
3-Zone PID Algorithm  
3-Point Calibration  
1-Point Offset Calibration  
Power Outage and Restore Function  
Class A Pt-100 Ohm Sensor  
RS-232C PC Communication Interface [OPTION]

# 10-Step Program 3-ZONE PID Algorithm 3-Point Calibration 1-Point Offset

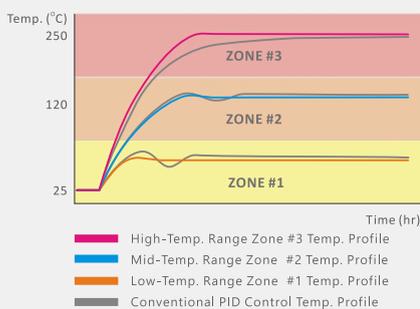


### 10 Step Program



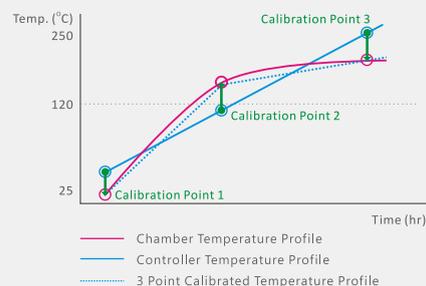
User can create 10 Steps of varying temperature program and save it in a memory for repeated use. Program can be repeated up to 999 times

### 3-ZONE PID Algorithm



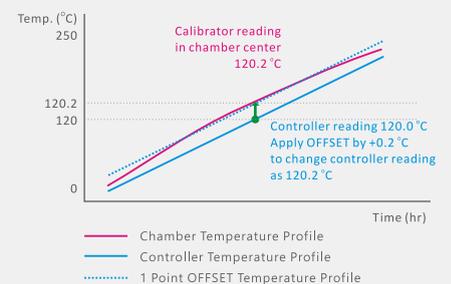
Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID algorithm to provide precise and superior temperature control characteristic of whole temperature range.

### 3-Point Calibration



An excellent calibration tool to calibrate chamber at THREE DIFFERENT TEMPERATURE POINTS to adjust multiple temperature bias to increase temperature accuracy of WHOLE TEMPERATURE RANGE.

### 1-Point Offset



Provides simple and easy calibration tool to calibrate chamber at ONE SPECIFIC TEMPERATURE POINT of frequent use.

## # Specifications

Model	JSOF-250P	JSOF-400P	JSOF-700P
<b>Dimension Data</b>			
Chamber Volume	250 Liters	372 Liters	655 Liters
Inner Dims. (WxDxH) mm	500 x 500 x 1000	610 x 610 x 1000	710 x 710 x 1300
Outer Dims. (WxDxH) mm	895 x 675 x 1360	1005 x 785 x 1360	1105 x 885 x 1660
Window Dims. (WxH) mm	150 x 460	150 x 460	150 x 615
No. of Shelf Positions	36 ea	36 ea	48 ea
No. of Shelf Included	3 ea	4 ea	6 ea
No. of Ventilation Damper	1 ea	1 ea	1 ea
<b>Performance Data</b>			
Heating System	Forced Convection		
Temperature Range	ambient +10 °C to 250 °C, 0.1 °C resolution		
Temperature Accuracy at 120 °C	+/- 0.3 °C	+/- 0.3 °C	+/- 0.3 °C
Temperature Uniformity at 120 °C	+/- 1.5 °C	+/- 2.0 °C	+/- 3.0 °C
Heat-up Time to 120 °C	10 min.	15 min.	15 min.
<b>Controller</b>			
Type	Digital Microprocessor PID Temp. Controller with Capacitive Touch Button and Jog Dial		
Display	Full Size Digital Back Light Graphic LCD Display		
Control Logic	3 Zone PID Control		
Calibration	1 Point Temperature Offset 3 Point Temperature Calibration		
Temp. Program	Max. 99 hr 59 min by 1 min resolution		
Turn-Off Timer	1 Pattern, 10 Steps, 1 ~ 999 Loop Cycle		
Turn-On Timer	Max. 99 hr 59 min by 1 min resolution		
Sensor	Class A Pt-100 Ohm Sensor		
Power Restoration	Power and Timer Restoration Function in case of power outage		
Communication Interface	RS-232C Communication Interface [OPTION]		
<b>Material Data</b>			
Body	Epoxy Powder Coated Steel		
Chamber	Stainless Steel 304 (AISI304)		
Insulation	50 mm Woven Mineral Wool with Aluminum Barrier		
<b>Safety Data</b>			
Safety Device	Door Open / Over Temperature / Over Current Protection Audio Visual Alarm		
<b>Electrical Data</b>			
Power Requirement	220 +/- 10% VAC   50/60 Hz   1 Phase		
Power Consumption	3.1 kW 14.0 amp	3.5 kW 16.0 amp	5.1 kW 23.2 amp
Plug Configuration	CEE 7/7 Schuko or BS 1363		
<b>Usable Condition</b>			
Temp. & Humidity	5 °C - 40 °C, 80% RH Max.		

# JSR

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# JSOF-Series

## PROGRAMMABLE UPRIGHT FORCED CONVECTION OVEN

amb. +10 °C ~ 250 °C

### # Ordering Information

#### Art. Number

#### Descriptions

JSOF-250P	Programmable Upright Forced Convection Oven	250 Liter	220 VAC 1 ph 50/60Hz
JSOF-400P	Programmable Upright Forced Convection Oven	372 Liter	220 VAC 1 ph 50/60Hz
JSOF-700P	Programmable Upright Forced Convection Oven	655 Liter	220 VAC 1 ph 50/60Hz

#### Accessories

#### Shelves

PHS-A06	Perforated Shelf, Stainless Steel 304	for JSOF-250P	W470 x D480 mm
PHS-A11	Perforated Shelf, Stainless Steel 304	for JSOF-400P	W580 x D590 mm
PHS-A15	Perforated Shelf, Stainless Steel 304	for JSOF-700P	W680 x D690 mm

PHS-B06	Wire Shelf, Stainless Steel 304	for JSOF-250P	W470 x D480 mm
PHS-B11	Wire Shelf, Stainless Steel 304	for JSOF-400P	W580 x D590 mm
PHS-B12	Wire Shelf, Stainless Steel 304	for JSOF-700P	W680 x D690 mm

PHS-A99	Shelf Support, Set of 4 ea		
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DISTRIBUTOR

# JSR

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