



UPRIGHT FORCED
CONVECTION OVEN

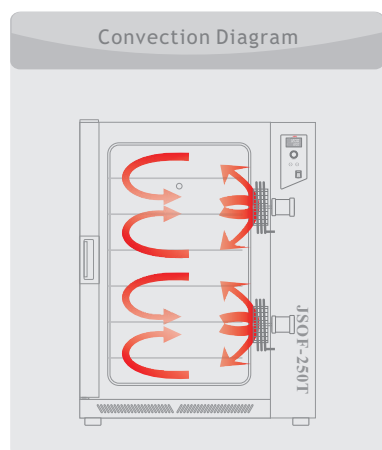
JSOF-T Series

UPRIGHT FORCED CONVECTION OVEN

amb. +10 °C ~ 250 °C



JSOF-700T Upright Forced Convection Oven



Upright Forced Convection Ovens provides a big volume of chamber for large scale laboratory or industrial purpose. Nevertheless its large volume, dual heating system on upper and lower compartment with two separate heating elements and blowers provide better air circulation throughout the chamber to achieve excellent temperature uniformity and faster heat up time.

Features

Performance

Temperature Range : amb. +10 °C to 250 °C

Temperature Accuracy : within +/- 0.3 °C (JSOF-250T)

Temperature Uniformity : within +/- 1.5 °C (JSOF-250T)

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

3-ZONE PID Algorithm

3-Point Calibration

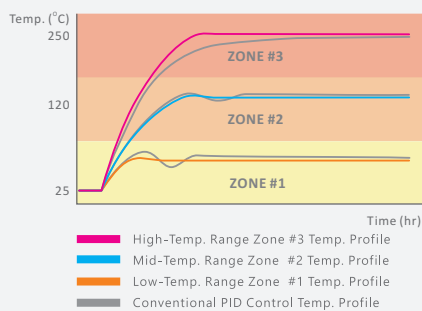
1-Point Offset

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
- 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]

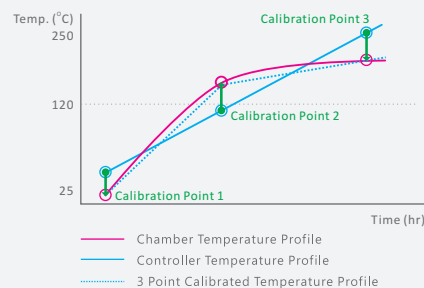


3-ZONE PID Algorithm



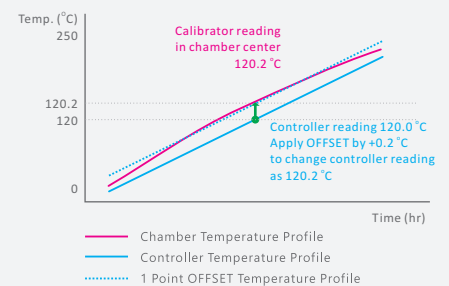
Complete temperature range is divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID algorithm to provide precise and superior temperature control characteristic of whole temperature range.

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-250T	JSOF-400T	JSOF-700T
Dimension Data			
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
Performance Data			
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.
Controller			
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		
Turn-Off Timer	Max. 99 hr 59 min by 1 min resolution		
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]		
Material Data			
Body	Epoxy Powder Coated Steel		
Chamber	Stainless Steel 304 (AISI304)		
Insulation	50 mm Woven Mineral Wool with Aluminum Barrier		
Safety Data			
Safety Device	Door Open / Over Temperature / Over Current Protection Audio Visual Alarm		
Electrical Data			
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		
Usable Condition			
Temp. & Humidity	5 °C - 40 °C, 80% RH Max.		

JSR

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JSOF-Series

UPRIGHT FORCED CONVECTION OVEN

amb. +10 °C ~ 250 °C

Ordering Information

Art. Number

Descriptions

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

Accessories

Shelves

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

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

PHS-A99	Shelf Support, Set of 4 ea		
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DISTRIBUTOR

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