Model JSOF-400T 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.

MAIN FEATURES

PERFORMANCE

-Control Temperature Range from ambient +10 °C to 250 °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

CONSTRUCTION

-Durable epoxy powder coated metallic casing

-Corrosion resistant Stainless Steel 304 chamber with seamless round cornered edge allows easy cleaning and prevent leakage

-Double layered glass window for easy observation of samples

-Ventilation damper

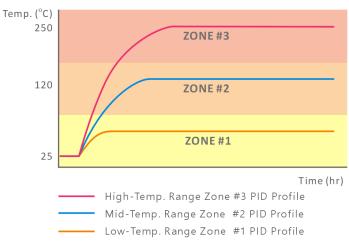
CONTROLLER HIGHLIGHT





-3 ZONE PID ALGORITHM

Usable temperature range divided into three zones (LOW/MIDDLE/HIGH) and each ZONE has its individual PID parameters optimized to the range, and it provides precise and superior temperature control characteristic to whole temperature range.



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-3 POINT CALIBRATION FUNCTION

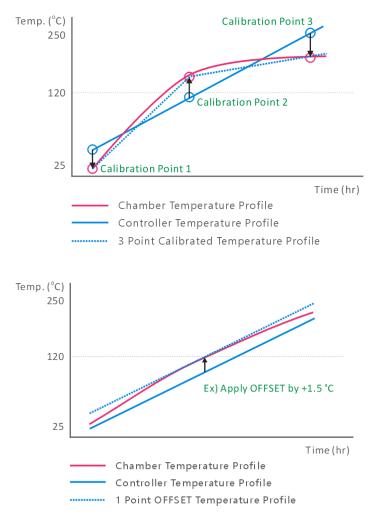
- 1-POINT OFFSET FUNCTION

frequent use.

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

Provides simple and easy calibration tool to calibrate

chamber at ONE SPECIFIC TEMPERATURE POINT in





CONTROLLER

-DIGITAL MICROPROCESSOR PID TEMPERATURE CONTROLLER Integrated Digital Microprocessor Control System -GRAPHIC LCD DISPLAY Back Light Graphic LCD Display provides user-friendly operating information -UV COATED POLYCARBONATE TOUCH PANEL Equipped with Capacitive LED Lighting Touch Button provides sensitive touching operation and durability -ENCODER TYPE JOG DIAL Push to Start and Stop, Rotary turn to change values provides easy and simple user interface -0.1 °C CONTROL RESOLUTION -Auto-Stop Timer 1 min ~ 99 hour 59 min -Auto-Start Timer 1 min ~ 99 hour 59 min -Temperature and Timer Memory Function -3-ZONE PID ALGORITHM -3-POINT CALIBRATION -1-POINT OFFSET CALIBRATION -Operating temperature and remaining timer resume in case power outage and restoration -CLASS A PT-100 Ω Sensor -RS-232C PC COMMUNICATION INTERFACE [OPTION]

CONVENIENCE

- -Double layered tempered safety glass window for easy observation of samples
 -Stainless Steel 304 Chamber with seamless round cornered edge allows easy cleaning and prevent leakage
 -Removable and height 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

-PT SENSOR SHORT OR DISCONNECTION AUDIO VISUAL ALARM -DUAL OVER TEMPERATURE CUT-OFF BY CONTROLLER AND INDEPENDENT THERMOSTAT Controller cut-off heater and AUDIO VISUAL ALARMS ALARM HIGH : +10 °C above set temp. ALARM LOW : -10 °C below set temp. Independent analog thermostat cut-off heater above set temperature -DOOR OPEN AUDIO VISUAL ALARM

-OVER CURRENT CUT-OFF : Electric Circuit Breaker



SPECIFICATIONS

SILCINCATIONS	
Art. No.	JSOF-400T
Dimension Data	
Chamber Volume	372 Liters
Inner Dims. (W x D x H mm)	610 x 610 x 1000
Outer Dims. (W x D x H mm)	1005 x 785 x 1360
Window Dims. (W x H mm)	150 x 460
No. of Shelf Positions	36 ea
No. of Shelf included	4 ea
No. of Ventilation Damper	1 ea
Performance Data	
Heating System	Forced Air Convection
Temp. Range	Amb. +10 °C ~ +250 °C
Accuracy at 120 °C	±0.3 °C
Uniformity at 120 °C	±2.0 °C
Heat up time to 120 °C	15 min.
Controller	
Processor	Digital Microprocessor PID Temperature Controller
Display	Back Light Graphic LCD Display
Panel	UV Coated Polycarbonate Solid Touch Panel
Button	Capacitive touch LED Lighting Touch Button
Interface	Push and Rotary encoder type Jog Dial
Control Logic	3 Zone PID Control
Calibration	1 Point Temperature OFFSET
	3 Point Temperature Calibration
Resolution	0.1 °C
Auto-Stop Timer	1 min. ~ 99 hr 59 min
Auto-Start Time	1 min. ~ 99 hr 59 min
Sensor	CLASS A PT-100 Ω Sensor
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	Sensor short or disconnection AUDIO VISUAL ALARM	
	Controller cut-off heater and AUDIO VISUAL ALARM	
	HI-ALARM : +10 °C above set temp.	
	LO-ALARM : -10 °C below set temp.	
	Independent analog thermostat cut-off heater above set temperature	
	Door sensor Cut-Off heater and fan AUDIO VISUAL 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	3.4 kW (1.7 kW x 2)	
Nominal power	3.5 kW 16.0 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	Wooden Crating	
Shipping Dims. (W x D x H mm)	1150 x 920 x 1510	
Net Weight	150.0 kg	
Shipping Weight	200.0 kg	



ORDERING INFORMATION

Art. No.	Descriptions	Voltage
JSOF-400T	Upright Forced Convection Oven, 372 L	220 VAC 1~ ph 50/60Hz

OPTIONAL ACCESSORIES

Art No.		
PHS-A11	Perforated Shelf, Stainless Steel 304 for JSOF-400T	W580 x D590 mm
PHS-B11	Wire Shelf, Stainless Steel 304 for JSOF-400T	W580 x D590 mm
PHS-A99	Shelf Support, Set of 4	

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