

## Model JSIO-1400T Heavy Duty Industrial Oven



JSIO-Series Heavy Duty Industrial Oven is durable and rugged large capacity for industrial purpose such as drying printed circuit panel, glass panel and stability test of electronic components. Horizontal air flow with adjustable damper system on each shelf level allow to maintain optimum air circulation throughout the chamber which provides excellent temperature uniformity and operational condition.

### MAIN FEATURES

#### PERFORMANCE

- Forced Air Convection for quick drying and better temperature uniformity
- High capacity powerful sirocco blowers provide big volume of horizontal air flow
- Adjustable damper system on each shelf level allow maintaining optimum air circulation throughout the chamber to achieve excellent temperature uniformity and operational condition
- Separate heating compartment located on bottom plate prevents contamination and maintenance free
- The sliding type shelf is suitable for drying large volumes of samples

#### CONTROLLER

- $\pm 0.1$  °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
- Class A Pt-100 $\Omega$  sensor

### CONSTRUCTION

- Durable epoxy powder coated metallic casing
- Corrosion resistant Stainless Steel 304 and galvanized steel chamber
- Opening size adjustable ventilation damper
- 50mm thick high thermal efficiency mineral wool with woven aluminum barrier sheet saves energy and less dust

### CONVENIENCE

- Floor standing industrial scale big volume oven provides more throughput and productivity of sample treatment
- Corrosion resistant Stainless Steel 304 and galvanized steel chamber
- Removable 3 tier shelf
- Outer door with silicone gasket and compression door lock
- Caster for easy transport

### 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 : Non-contact magnetic door switch cut-off heater and blower when door opened
- SENSOR DISCONNECTION ALARM
- OVER CURRENT CUT-OFF : Electrical Leakage Breaker

## SPECIFICATIONS

DESCRIPTIONS	JSIO-1400T
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### Dimension Data

Chamber Volume	1386 Liters
Inner Dims. (W x D x H mm)	1100 x 1050 x 1200
Outer Dims. (W x D x H mm)	1385 x 1235 x 1960
No. of Ventilation Damper	1 ea
Shelf Minimum Spacing	140mm
No. of Shelf Position	8
No. of Perforated Shelf included	3

### Performance Data

Heating System	Forced Air Convection Horizontal Air Flow
Temp. Range	Amb. +10 °C ~ +250 °C, 0.1 °C resolution
Accuracy at 120 °C	±0.5 °C
Uniformity at 120 °C	±8.0 °C
Heat up time to 120 °C	25 min.

### Controller

Processor	Digital Microprocessor PID Temperature Controller
Display	4 Digit LED Display
Temp. Calibration	Built-in Temperature Calibration Auto-tuning
Temp. Resolution	0.1 °C
Timer Scale	99 min 59 sec / 99 hr 59 min / 99 dy 23 hr
Turn-On Delay Time	Automatic START/STOP timer / Continuous Operation
Sensor	CLASS A PT-100 Ω Sensor

### 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
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**Material Data**

Body	Epoxy Powder Coated SPCC Steel
Chamber	Stainless Steel 304 (AISI304) and Galvanized Steel (EGI)
Door	High Temperature Foamed Silicone Packing
Insulation	50 mm Woven Mineral Wool
Perforated Shelf	Stainless Steel 304
	Floor Standing with Caster

**Electrical Data**

Rated voltage	380 ± 10% VAC
Power frequency	50 / 60Hz
Heater Output	10.5 kW
Nominal power	10.7 kW 16.3 amp
Phase	3 Phase
Plug configuration	380 VAC 4 Wire

**Usable Condition**

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

Type of packaging	Wooden Crating
Shipping Dims. (W x D x H mm )	1560 x 1420 x 2195
Net Weight	350.0kg
Shipping Weight	470.0 kg

**ORDERING INFORMATION**

Art. No.	Descriptions	Voltage
JSIO-1400T	<b>Heavy Duty Industrial Oven, 1386 L</b> including standard accessories 3-ea x Perforated Shelf, Stainless Steel 304 8-ea x Shelf Support Tier 1 ea x Instruction Manual 1 ea x Warranty Certificate	380 VAC 3~ ph 50/60Hz

**OPTIONAL ACCESSORIES**

Art. No.	Descriptions
PHS-A18	Perforated Shelf, Stainless Steel 304, W1090 x D1010 mm for JSIO-1400T

**JS RESEARCH INC.**

Gongju-City, Korea

TEL +82 41 856 3677

FAX +82 41 856 3679

info@jsresearch.co.kr

www.jsr.kr