

Model JSON-050E Compact Gravity Convection Oven



JSON-Series Compact Oven is a common instrument to be used to drying, heating labware. Maximum Temp. up to +250 °C with gravity convection system.

MAIN FEATURES

PERFORMANCE

- Gravity air convection heated from the bottom creates mild vertical air circulation in the chamber
- Separate heating compartment located on bottom with perforated heater cover
- 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 prevent leakage

CONTROLLER

- JSC-0D Digital PID 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
- Class A Pt-100Ω sensor

CONVENIENCE

- Stainless Steel 304 Chamber with seamless round cornered edge allows easy cleaning and prevents 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

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 when door opened
- SENSOR DISCONNECTION ALARM
- OVER CURRENT CUT-OFF : Electrical Leakage Breaker

SPECIFICATIONS

DESCRIPTIONS	JSON-050E
Dimension Data	
Chamber Volume	48 Liters
Inner Dims. (W x D x H mm)	400 x 300 x 400
Outer Dims. (W x D x H mm)	560 x 505 x 710
No. of Shelf included	2 ea
No. of Shelf Position	12 ea by 25mm spacing
No. of Ventilation Damper	1 ea

Performance Data	
Heating System	Gravity Air Convection
Temp. Range	Amb. +10 °C ~ +250 °C
Accuracy at 180 °C	±0.3 °C
Uniformity at 180 °C	±2.0 °C
Heat up time to 180 °C	15 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 when door opened SENSOR DISCONNECTION ALARM Over Current CUT-OFF

Material Data

Body	Epoxy Powder Coated Steel
Chamber	Stainless Steel 304, 0.8 mm thickness
Insulation	50 mm Woven Mineral Wool

Electrical Data

Rated voltage	220 ± 10% VAC
Power frequency	50 / 60Hz
Heater Output	1.2 kW
Nominal power	1.2 kW 5.5 amp
Phase	1 Phase
Plug configuration	CEE 7/7 Schuko or BS 1363

Usable Condition

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

Type of packaging	Carton on a wooden palette
Shipping Dims. (W x D x H mm)	570 x 600 x 860 mm
Net Weight	45.0 kg
Shipping Weight	49.0 kg

ORDERING INFORMATION

Art. No.	Descriptions	Voltage
JSON-050E	<p>Compact Gravity Convection Oven, 48 L</p> <p>including standard accessories</p> <p>2 ea x Wire Shelf, Stainless Steel 304</p> <p>8 ea x Shelf Support</p> <p>1 ea x Instruction Manual</p> <p>1 ea x Warranty Certificate</p>	220 VAC 1~ ph 50/60Hz

OPTIONAL ACCESSORIES

Art. No.	Descriptions
PHS-A03	Perforated Shelf, Stainless Steel 304, W370 x D280 mm
PHS-B03	Wire Shelf, Stainless Steel 304, W370 x D280 mm
PHS-A99	Shelf Support, Set of 4 ea

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