

# JSVO-Series

## VACUUM OVEN

amb. +10 °C ~ 250 °C

Vacuum ~ 760 mm Hg



### # Features

#### Performance

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

Temperature Accuracy : within +/- 2.0 °C

Temperature Uniformity : within +/- 3.0 °C

Vacuum : ~ 760 mm Hg

Heater from side wall transduces heat through aluminum shelf to maintain uniform temperature over the surface of shelf.

Class A Pt-100 Ohm sensor embedded into the aluminum shelf to measure accurate temperature of the shelf

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 Electro-Polished Stainless Steel 304 chamber

15 mm thick tempered safety glass window for easy observation of samples and window grill for safety

#### Convenience

Vacuum tight high density one-piece silicone door gasket

Air tight one touch door latch

Two tier aluminum shelf

Equipped with Vacuum Gauge ~ 760 mmHg

Two way valve to control vacuum and lock

Adjustable needle valve for fine control of vent speed

#### Safety

DUAL OVER TEMP. CUT-OFF

AUDIO VISUAL ALARM in case +2 °C above set temperature

Analog system cut-off heater 10% above set temp.

MAX TEMP CUT-OFF heater +1 °C above maximum limit

SENSOR DISCONNECTION ALARM

OVER CURRENT CUT-OFF : Electrical Leakage Breaker

## # Specifications

### Model

JSVO-30T

JSVO-60T

### Dimension Data

|                        |                 |                 |
|------------------------|-----------------|-----------------|
| Chamber Volume         | 27 Liters       | 64 Liters       |
| Inner Dims. (WxDxH) mm | 300 x 300 x 300 | 400 x 400 x 400 |
| Outer Dims. (WxDxH) mm | 665 x 470 x 535 | 765 x 575 x 635 |
| Window Dims. (WxH) mm  | 265 x 285       | 350 x 350       |
| No. of Shelf Included  | 2 ea            | 2 ea            |
| Shelf Height           | 100 mm          | 100 mm          |

### Performance Data

|                                  |                                             |            |
|----------------------------------|---------------------------------------------|------------|
| Heating System                   | Heat Transduction through aluminum shelf    |            |
| Temperature Range                | ambient +10 °C to 250 °C, 0.1 °C resolution |            |
| Temperature Accuracy at 120 °C   | +/- 2.0 °C                                  | +/- 2.0 °C |
| Temperature Uniformity at 120 °C | +/- 3.0 °C                                  | +/- 3.0 °C |
| Heat-up Time to 200 °C           | 30 min.                                     | 30 min.    |
| Vacuum (Max.)                    | 760 mm Hg                                   | 760 mm Hg  |

### Controller

|                         |                                                              |
|-------------------------|--------------------------------------------------------------|
| Type                    | Digital Microprocessor PID Temp. Controller                  |
| Display                 | 4 Digit LED Display                                          |
| Control Logic           | PID Temperature Control with Auto-Tuning                     |
| Calibration             | 1 Point Temperature Offset                                   |
| Auto-Start              | 99 min 59 sec / 99 hr 59 mi n / 99 day 23 hr                 |
| Auto-Stop               | 99 min 59 sec / 99 hr 59 mi n / 99 day 23 hr                 |
| Sensor                  | Class A PT-100 Ohm Sensor                                    |
| Power Restoration       | Power and Timer Restoration Function in case of power outage |
| Communication Interface | n/a                                                          |

### Material Data

|           |                                                |
|-----------|------------------------------------------------|
| Body      | Epoxy Powder Coated Steel                      |
| Chamber   | Stainlss Steel 304 (AISI304)                   |
| Shelf     | Aluminum                                       |
| Insulaton | 50 mm Woven Mineral Wool with Aluminum Barrier |

### Safety Data

|               |                                            |
|---------------|--------------------------------------------|
| Safety Device | Over Temperature / Over Current Protection |
|---------------|--------------------------------------------|

### Electrical Data

|                    |                                      |                 |
|--------------------|--------------------------------------|-----------------|
| Power Requirement  | 220 +/- 10% VAC   50/60 Hz   1 Phase |                 |
| Power Consumption  | 2.1 kW 9.5 amp                       | 2.9 kW 13.2 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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### # Ordering Information

#### Art. Number

#### Descriptions

JSVO-30T Vacuum Oven 27 Liter 220 VAC 1 ph 50/60Hz

JSVO-60T Vacuum Oven 64 Liter 220 VAC 1 ph 50/60Hz

#### Accessories

PHS-A91 Aluminum Shelf for JSVO-30T W295 x D250 mm

PHS-A92 Aluminum Shelf for JSVO-60T W395 x D350 mm

OHG-001 Glass Trap, 500 ml, Dia.60 x H280 mm

OHV-001 High Vacuum Hose, I.D 9 mm x O.D 24 mm, 1 meter

W2V10 Rotary Vane Vacuum Pump, 100L/min.  $5 \times 10^{-4}$  Torr, 220VAC 50/60Hz, 400 W

WOF-15(PC) Oil Mist Trap, Polycarbonate Housing

NW25-12 Hose Nipple, Dia. 12mm

NBR/NW25 Center Ring, Dia. 25mm

Nw25 Clamp, Dia. 25mm

MZ 2C NT Chemistry Diaphragm Pump, 2.0 m<sup>3</sup>/h, 7 mbar, 220VAC 50/60Hz, 180 W

JSCT-35C Cold Trap Bath, - 35 °C

JSCT-55ULT ULT Cold Trap Bath, - 55 °C

JSCT-85ULT ULT Cold Trap Bath, - 85 °C

DISTRIBUTOR

# JSR

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