

## YORLAB<sup>®</sup> ORBITAL SHAKER INCUBATOR Model No.: YSL / YSI-451

### Specifications:

- Integrated Microprocessor Digital PID Controller provides temperature, shaking speed, timer and safety at once. Equipped with timer, alarm in built temperature calibration.
- Temperature and shaking can be controlled together or independently with wait - off timer Temperature from +10°C to 60°C with  $\pm 0.5^\circ\text{C}$  at 25°C accuracy

### Salient Features :

- Accommodates both shaking platform and static shelf together for shaking incubation and general incubation.
- Transparent double layer tempered safety glass window for sample observation during operation without opening the door.
- Built-in working lamp.
- Shaking motion automatically cut-off to protect user from moving parts when door open.
- Slow start and stop motion control provides smooth operation and prevent shock.
- Spring rack holds various shape of containers.
- Volume adjustable Flask Holder made by polycarbonate plastic.

### Technical Specifications :

- Chamber Volume
- (Capacity) : 165L
- Temperature :**
- Heating Type : Forced Convection
- Range : 10°C~ 60°C/w Cooling System
- Accuracy :  $\pm 0.5^\circ\text{C}$  at 25°C
- Uniformity :  $\pm 0.5^\circ\text{C}$  at 25°C
- Illumination : None Fluorescent Lamp 20W x 2EA

### Shaking :

- Speed/Stroke : 60~300RPM/20mm Orbital Motion

### Control :

- Main Controller : Digital PID Controller with Timer, Auto-Tuning, Calibration Function
- Wait of Timer : mm:ss/ hh:mm/ Continuous Selectable
- Sensor : Pt100

### Safety Device :

- Temperature Safety: Hydraulic Over Temperature Protection Device
- Electrical : Electrical Leakage Breaker

### Dimensions :



- Chamber : 530mm(W)x530mm(D) x 590mm(H)
- Platform : 500mm (W) x 495mm (D)
- Material :**
- Internal : Stainless Steel Polished (SUS304)
- External : CR Steel with Epoxy Powder Coating.
- Door : Self Weight Balanced Door with Transparent Tempered Safety Glass Window.
- Utility:
- Lamp : 25 Watt Crypton Working Lamp in Chamber.

### Optional Accessories :

- Flask Holder Size Adjustable from 50-100ml Min. 25 Max. 45 EA
- Flask Holder Size Adjustable from 200-300 ml x16 EA
- Flask Holder Size Adjustable from 500ml x 16 EA or 1000 ml x5 EA
- Spring Rack 500 x495 x140 mm
- Test Tube Holder Dia. 16mm x 30 Holes 100 x 185 x 208mm
- Test Tube Holder Dia. 25 mm x 18 Holes 100x 185 x 208 mm
- PVC Coated Static Wire Shelf 500 x 510 mm