

Mehrotra Biotech make INCUBATOR ORBITAL SHAKER

Incubator Orbital Shaker IS100R for biotechnological and pharmaceutical laboratories is a next generation, professional category equipment.

Built-in noiseless thermo-resistant brushless fan provides precise temperature distribution inside the chamber (adjustable for up to +80°C). The inner chamber is made of stainless steel. German quality motor, thicker thermal insulation material, soft-start of the platform motion and temperature PID-control decrease the energy consumption and make the Incubator Orbital Shaker highly energy efficient.

IS100R is equipped with a direct-drive mechanism for platform motion. It provides reliable and stable operation for the long term experiments needed for cell growth.

Key Features

- **Brushless DC motor** for longer operation life
- **PID microprocessor controller** provides precise control.
- Separate **Digital Display for Speed, Temperature and Timer control** for precise accuracy & repeatability
- **Wide temperature range** (5°C to 70°C)
- Robust & Compact **benchtop Construction**
- **Direct drive orbital shaking** mechanism with counterbalanced mechanism
- Unit exteriors are formed of cold-rolled steel finished with **corrosion resistant powder coat paint**.
- **Chamber interiors and shelves are made of stainless steel**, which provides excellent durability and an easy-to-clean surface
- Optional **Germicidal UV Lamp** for disinfection.



SPECIFICATIONS

| Model No | IS100RT | IS100R |
|---------------------------|---|---|
| Overall Dimensions(HxWxD) | 650x860x1145mm approx | |
| Internal Dimension(HxWxD) | 500x520x400mm approx | |
| Weight | 200 kg | |
| Power Consumption | 1.2 KW | |
| Operating Voltage | 230V | |
| Display | Microprocessor based 5" TFT touchscreen controller with display of Temperature, RPM & Timer | PID Micro-Controller with Triple Display for PV, SV & RPM |
| Speed Control | Digital On display/Control Knob | Control knob |
| Temperature Range | 5°C to 70°C, Accuracy $\pm 0.5^{\circ}\text{C}$ | |
| Temperature Stability | $\pm 1^{\circ}\text{C}$ | |
| Speed Range | 30 to 200 rpm | |
| Orbital Displacement | 20mm | |
| Maximum Load Capacity | 12-16 KG | |
| Motor Type | Brushless DC Motor | |
| Illumination | 6W LED | |
| UV Lamp (Optional) | 8W UVC Germicidal Lamp | |
| Temperature Sensor | PT100 type RTD sensor | |
| Alarm | Hi/Low Temp Alarm, Program Completion Alarm | |

ACCESSORIES



We provide Flask holders as per specific customer requirements.

Additional tube holder platform & microplate tray can be provided.

APPLICATION

IS100R finds its application in researches on bacteria, Cultivation, Fermentation, Hybridization, Chemical & biochemical reaction, Cell culture, enzymes and tissue research, culturing microbes and DNA application which are having high requirement on precision of shaking and temperature.



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12 /

