



INCUBATOR ORBITAL SHAKER

Quiet Operation

Triple Digital Display



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** (0°C to 70°C)
- **Robust & Compact benchtop Construction**
- **Direct drive orbital shaking 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.

Clear Transparent Door ensures visibility of the samples

Forced Air Convection ensures constant and even temperature within the chamber

Stainless Steel Mirror finish easy to clean Interior

Easy to program PID microcontroller

Triple Digital Display for Temperature, Timer & Speed



SPECIFICATIONS

Model No	IS100 R
Overall Dimensions(HxWxD)	650x600x700mm approx
Internal Dimension(HxWxD)	350x500x550mm approx
Weight	150 –200 kg
Power Consumption	1.0 KW
Operating Voltage	230V
Display	7 Segment Digital LCD Display for temperature(°C), Timer(Min) & Speed(rpm)
Speed Control	Manual Clockwise/Anticlockwise knob
Controller	PID Microcontroller with temperature & timer control
Temperature Range	0°C to 70°C, Accuracy $\pm 0.1^{\circ}\text{C}$
Temperature Stability	$\pm 0.5^{\circ}\text{C}$
Speed Range	20 to 200 rpm
Orbital Displacement	21mm
Maximum Load Capacity	12 KG
Motor Type	Brushless DC Motor
Illumination	6W LED (Optional)
UV Lamp	8W UVC Germicidal Lamp (Optional)
Temperature Sensor	PT100 type RTD sensor
Alarm	Hi/Low Temp Alarm, Program Completion Alarm

ACCESSORIES



We provide Flask holder 5 Nos.x 100ml Capacity , 5 nos x 250ml Capacity, 03 Nos x 500ml Capacity & 2 Nosx 1000ml capacity as standard fitment in stainless steel construction.

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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