

# Incubator Shaker

**TOPLAB INDIA'S** Incubator shaker is one temperature controlled biochemical instrument combined incubation and shaking function. It is a compact bench-top Shaker-Incubator used for mixing of biological liquids as well as for incubation and cultivation of biological liquids according to the operator set program. Seven interchangeable platforms allow it mix and culture samples in flask, Petri dish, tubes, Elisa plates, and etc. Built-in microprocessor thermo controller provides constant temperature control in the incubator chamber. It is extremely easy to operate, with very straightforward setup of temperature, speed and time.



## Product Features:

- LCD screen for instantly display operation information (time, temperature and speed).
- Running safely --heating and shaking will be automatically stopped once the lid is open.
- Seven interchangeable platforms can be chosen for variety demands.
- PID based Digital Micro-processor controls temperature and shaking speed.
- Unique speed control circuit to ensure shaker smooth starting and avoid liquid spilling.
- Speed of the circulation fan is adjustable to avoid high-speed of the circulation fan making the sample volatilizing.
- Brushless DC motor, long life and maintenance free. Gentle and reliable shaking with direct brushless DC motor.
- Auto restart in case of power failure.
- Over-heating protection device is included.
- Built-in temperature calibration function.

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### Technical Specification:

Model	TOP-20-IS
Shaking Speed Range [rpm]	50 ~ 300 rpm
Orbit [mm]	20mm (Circle)
Temp. Setting Range	0 ~ 60°C
Temp. Control Range	RT+5 ~ 60°C
Timer range [min]	1 min ~ 99h59min or continuous
Temp. Stability	≤±0.5°C (@37°C)
Temp. Set Accuracy	≤±0.5°C (@37°C)
Display Accuracy	0.1°C
Speed/Timer display	LED Digital Display
Controller	PID Based micro-processor controller
Interior Material	Stainless Steel (SS304)
Fuse	250V, 3A, Φ5x20
Voltage (V/Hz)	AC 220V, 50/60Hz
Power (W)	350W
Heating time	≤15min(from 25°C to 60°C)
Auto resume to run	Yes
Load Capacity	4.0 Kg
Internal chamber height (mm)	182mm
Platform dimension (mm)	240 x 240mm
Dimension (WxDxH)(mm)	421 x 320 x 338mm
Net Weight	18.5 kg

### Optional accessories:

<b>PF1</b> - Platform with clamps for 5×250ml conical flask	<b>PF5</b> - Platform with spring holder
<b>PF2</b> - Platform with clamps for 9×100ml conical flask	<b>PF6</b> - Platform for 4pcs Elisa plates or deep-well plates
<b>PF3</b> - Platform with clamps for 10×50ml tube	<b>PF7</b> - Flat platform for 5pcs Petri dishes
<b>PF4</b> - Platform with clamps for 18×15ml tube	

