

## Temperature Control Shaker incubator

Model: FIDELS-150

### About the incubator

A temperature-controlled shaker incubator is a piece of laboratory equipment that combines both incubation and shaking functions, allowing for the simultaneous control of temperature and agitation of samples. This dual functionality is particularly useful in applications like cell culture, microbial growth, and enzyme reactions where both temperature and mixing are crucial for optimal results.

### Key Features and Functionality

#### Temperature

- Temperature will be 0 to 70°C (At 37 Room Temperature)

#### Shaking Mechanism

- Orbital shaking will be Brushless AC motor, and Three-Point bearing transmission, and without any vibration
- Shaking RPM has 20 to 250 RPM and (Speed stability (RPM,%)  $\pm 1$ )
- Minimum Noise, no vibration

#### Construction

- Chamber will be made of SS 304 and power coated on the outside with digital display of temperature along With RPM
- 1 height-adjustable stand for petri dish
- It will be have a transparent glass window and light facility so that you can check without disturbing the environment
- Front door equipped with a safety switch that stop shaking when the door is opened for the user safety
- It will have display PID/LED Colour with touch screen
- Refrigerator has ¼ HP or batter



#### Safety & Features

- The system included multiple safety features such as a short circuit breaker, overheat and overload protectors, and sensor abnormality detection. It also has an in-built air-circulating fan for temperature uniformity, along with a power outlet inside the shaker for connecting any small device
- The compressor will be delayed to start working if power cut and with timer for defrost.

	<b>Specification</b>	
Shaking platform	Single	
Temperature range	0 to 70°C (at 37 room temperature )	
Temperature constancy	±0.1°C	
Temperature uniformity	±0.1°C(at37)	
Temp. control/display	PID/LED	
Temperature sensor	PT-100Ω	
Inside material	SS 304	
Speed programmer	20 to 250 RPM (speed stability (rpm%)±1)	
Shaking plate	W480 to W420	
Refrigerator	¼ HP or better	
Heater incubator	900w	

## **Address**

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