

## About the Shaker Incubator

This FIDELS/200-2 shaker incubator provides a stable environment for biological cultures with precise control and smooth shaking performance. It features a durable stainless-steel chamber, touch screen operation, safety door switch, and a reliable three-point bearing system. Designed for low noise and vibration-free operation, it ensures efficient and consistent incubation for routine laboratory use.

## Key Features

- Suitable for a wide range of biological cultures under controlled temperatures
- SUS304 stainless steel inner chamber with durable powder-coated exterior
- Easy-to-use touch screen control panel
- Auto compressor delay start with built-in defrost timer
- Safety door switch that stops shaking instantly when opened
- Heavy-duty three-point bearing transmission for continuous operation
- Low-noise and vibration-free performance
- Eco-friendly refrigeration using R134A gas
- Optional day/night lighting with programmable timer
- Transparent viewing window with internal illumination
- Clear visibility of samples without opening the door
- Long-life brushless AC motor ensuring stable shaking performance
- Overheat & low-temperature protection with circulating fan for uniform conditions
- 9-step speed programmer with directional rotation control



Optional: Tube Holders



Flask Holders

MODEL	FIDELS/200-2
System	Forced air circulation
Shaking system	Orbital
Temp. range	0°C~70°C
Temp. constancy	±0.1°C
Temp. uniformity	±1°C (at 37)
Temp. control/display	PID
Temp. sensor	PT-100
Inside material	SUS-304
Speed Programmer	20~400rpm
Shaking width	50 mm (25 mm)
Shaking plate (mm)	W600xD480mm
Refrigerator	1/4 HP
Heater: Incubator	1200W
Safety devices	Short circuit breaker, over heat protector, refrigerator over load protector, sensor abnormality, over low protector
Inside dimensions	W680xD560xH540mm
Outside dimensions	W1010xD640xH870mm
Volume (Liters)	205
Power supply	110/220V, 50/60Hz, (8.5A)
Weight	200Kg

Capacity of flask holders:

MODEL	111-1-110125	111-1-110250	111-1-110500	111-1-111000	111-1-112000	111-1-113000	111-1-114000	111-1-115000
FLASKCLAMPS	125ML	250ML	500ML	1000ML	2000ML	3LITER	4LITER	5LITER
FIDELS/200-2	---	4	4	4	---	---	---	5

# Features

## 1. Useful for biological culture under various temperatures

The incubator is designed to support a wide range of biological and microbiological cultures under precisely controlled temperature conditions. It ensures stable thermal performance, making it suitable for sensitive cell growth, microbial incubation, enzyme reactions, and other temperature-dependent laboratory applications.

## 2. Inside material is SUS304 & outside body is powder painted

The inner chamber is constructed from high-grade SUS304 stainless steel, offering excellent corrosion resistance, durability, and ease of cleaning. The external body is coated with a scratch-resistant powder paint finish, providing strong protection against chemical exposure and long-term environmental wear.

## 3. Screen-touch panel

A responsive touch-screen control panel allows users to conveniently set and monitor temperature, shaking speed, timing programs, and system functions. The clear interface improves usability and ensures accurate parameter adjustments.

## 4. Compressor delayed-start after power cut & built-in defrost timer

To protect the refrigeration system, the compressor automatically delays its restart after a power interruption, preventing sudden load or damage. A programmable defrost timer ensures efficient cooling performance and prevents ice accumulation on internal surfaces.

## 5. Safety switch stops shaking when door is opened

For operator safety, the unit includes a door-activated safety switch that instantly halts the shaking mechanism upon opening the door. This prevents accidental contact with moving components and ensures safe access to the chamber.

## 6. Three-point bearing transmission suitable for heavy loads & continuous duty

The shaking platform operates on a robust three-point bearing transmission system, engineered to support heavy sample loads and continuous long-duration operation. This mechanism ensures smooth performance, stability, and long service life.

## 7. Minimum noise, no vibration & uses non-CFC R134A refrigerant

The incubator is designed for quiet and vibration-free operation, reducing disturbances to sensitive cultures and ensuring a calm laboratory environment. The cooling system uses eco-friendly R134A non-CFC refrigerant, complying with modern environmental standards.

## 8. Optional day/night light with timer

An optional day/night illumination system can be integrated, allowing automatic light cycle programming through a timer. This is particularly useful for photobiology experiments and time-based plant or microbial studies.

## 9. Transparent glass observation window & internal light

A clear glass viewing window combined with internal lighting provides excellent visibility inside the chamber. This allows users to observe the culture environment without affecting internal conditions.

## 10. Provides clear visibility without opening the door

The built-in glass observation system enables monitoring of samples without opening the door, helping maintain stable temperature, airflow, and humidity levels during ongoing experiments.

## 11. Uses brushless AC motor for long durability & stable shaking performance

The shaker operates with a brushless AC motor, known for long operational life, low maintenance, and reliable torque delivery. This ensures consistent shaking speed, smooth operation, and excellent performance even under heavy load.

## 12. Overheat & low-temperature protection with built-in circulating fan

The unit includes over-temperature and low-temperature protection systems to safeguard samples and equipment. A built-in circulating fan ensures uniform temperature distribution inside the chamber for stable incubation conditions.

## 13. Speed programmer: 9 steps of speed & direction of rotation

The incubator is equipped with a multi-step speed programming system that supports up to 9 preset speed stages and optional directional rotation control. This makes it suitable for advanced shaking patterns, gradient mixing, and customized culture requirements.

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