

small shaking incubator with smooth operation and low noise

small shaking incubator is a kind of multifunctional experimental equipment integrating constant temperature control and oscillation mixing function, with intelligent operation and precise temperature control performance.

Small Shaking Incubator

Small shaking incubator provides a stable and reliable environment for cell culture, strain fermentation, enzyme reaction and other experiments through continuous temperature control and motion mechanism.

Features

- 1, intelligent man-machine interface: equipped with 4.3-inch full-color high-definition touch screen, graphical interface operation is intuitive, real-time display of the set parameters and operating status, and can observe the progress of the experiment through the fully transparent cover, to enhance the operating experience and sense of security.
- 2, reasonable structure, space-saving: compact body structure design, effective use of laboratory space, suitable for all kinds of laboratory environment.



- 3, high-performance control system: built-in microcomputer master control system, combined with advanced control algorithms to ensure precise temperature control, stable oscillation frequency, low noise and long-term stability of the equipment.
- 4, High-efficiency power system: brushless DC motor drive with high-precision bearings and balanced structure, even in high-speed operation still maintains low noise and low vibration.
- 5, multiple safety protection: with automatic detection of the door cover, hardware-level over-temperature independent protection and other functions, in line with the requirements of electrical safety regulations, to protect the safety of users and samples.
- 6, large platform and high load-bearing: the oscillation platform is 310 × 310mm, load-bearing up to 5kg, can be placed in a variety of specifications of the container.
- 7, a wide range of temperature control: temperature control range of room temperature +5 °C to 60 °C, suitable for different experiments in the culture conditions.

Advantages

- 1, strong versatility: can be used with different shapes and capacities of flasks, test tubes, petri dishes, wide adaptability.
- 2, easy to operate: touch screen operation combined with preset programs, saving labor and operating time.
- 3, easy maintenance: brushless motor maintenance-free design, long service life, reduce maintenance costs.
- 4, high stability: even if running for a long time can keep the temperature constant and frequency stability, improve the experimental repeatability.

Working Principle

small shaking incubator synchronized control of temperature control and oscillation through a microcomputer system. Its temperature control system is usually composed of heaters, thermal sensors and PID regulation algorithms to achieve constant control of the chamber temperature. the oscillation system is driven by a brushless motor to drive the eccentric shaft or slider structure to drive the platform to do a circular or reciprocating motion, so as to simulate the dynamic flow environment of the culture liquid, improve the efficiency of the gas exchange and nutrient diffusion, and promote the uniform growth of the biological samples.

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Model	SZ30
Temperature range	ambient+5°C to 60°C
Temperature resolution	0.1°C
Temperature accuracy	≤±0.3°C, at 37°C
Temperature uniformity	≤±0.5°C, at 37°C
Speed range	50 to 300rpm
Speed accuracy	±1rpm
Speed increment	±1rpm
Orbit diameter	20mm
Timer	1 minute to 99 hours 59 minutes or continuous
Operating panel	LCD touch display
platform size	310x310mm

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Model	SZ30
Loading height	300mm
Loading weight	≤5kg
Power supply	210Vac to 240Vac, 50/60Hz or 100Vac to 120Vac, 50/60Hz
Power	450W
External dimensions	400x630x490mm
Weight	37kg

Optional accessories

Order code	Descriptions
SZ30-P1	Standard flat platform
SZ30-P2	Spring rack
SZ30-P3	Flask Holder with Platform
SZ30-P4	viscose platform