

orbital shaking incubator for bacterial tissue culture

Orbital shaking incubator is a set of constant temperature culture and oscillation mixing in one of the experimental instruments, can be for a variety of experiments that require temperature stability and continuous oscillation environment to provide a reliable guarantee.

Orbital Shaking Incubator

Orbital shaking incubator is not only suitable for basic scientific research, but also widely used in industrial research and development field of microbial culture, cell growth, enzymatic reaction, hybridization experiments.

Features

- 1, full-color touch operation interface: equipped with a 4.3-inch high-definition color touch screen, the interface layout is intuitive, convenient parameter adjustment, real-time display of the operating status. the upper cover adopts a transparent design, which is convenient for rapid observation of the sample state in the experimental process.



- 2, compact structure, space optimization: the body design is compact and reasonable, covers a small area, suitable for experimental tabletop placement, effectively enhance the utilization of experimental space.
- 3, high-performance electronic system: internal microcomputer MCU chip control, with advanced control algorithms, to ensure precise temperature control, stable oscillation, rapid response, adapt to long-term continuous work.
- 4, high load oscillation platform: oscillation tray size of 420 × 420mm, load-bearing capacity of up to 10kg, can simultaneously accommodate a number of large test vessels, to meet the needs of high-throughput experiments.
- 5, multiple safety protection mechanisms: including door and cover status monitoring, over-temperature sound and light alarm, hardware-level over-temperature power-off protection and other multiple protection mechanisms, in line with the new generation of electrical safety standards.
- 6, durable brushless power system: adopts maintenance-free brushless DC motor and high-precision bearing system, smooth running, low noise, long life.
- 7, Wide temperature control range: the temperature range can be set from ambient temperature +5°C to 60°C, adapting to a variety of microorganisms and tissue culture conditions.

Core Advantages

- 1, modular tray design: the tray can be replaced according to different experimental needs, compatible with a variety of specifications of the culture vessel.
- 2, Quiet operation: small vibration, low noise, suitable for sound-sensitive experimental environment (such as animal laboratories or teaching and research units).

Working Principle

- 1, constant temperature control system: internal assembly of high sensitivity temperature sensor and heating components, through the PID, proportional, integral, differential adjustment algorithm, real-time monitoring and adjustment of the temperature in the chamber, so that it is constant near the set value, to ensure that the sample is in a constant temperature environment for reaction or culture.
- 2, Oscillation drive system: The core motor drives the platform to do periodic movement through eccentric wheel or sliding connection structure, usually horizontal circular or reciprocating oscillation, simulating convection and gas exchange in liquid environment, which helps cell respiration, nutrient absorption and metabolite diffusion, and improves the efficiency of experimental reaction.

orbital shaking incubator for bacterial tissue culture

Model	SZ40
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	420x420mm

orbital shaking incubator for bacterial tissue culture

Model	SZ40
Loading height	364mm
Loading weight	≤10kg
Power supply	210Vac to 240Vac, 50/60Hz or 100Vac to 120Vac, 50/60Hz
Power	650W
External dimensions	530x770x540mm
Weight	45kg

Optional accessories

Order code	Descriptions
SZ40-P1	Standard flat platform
SZ40-P2	Spring rack
SZ40-P3	Flask Holder with Platform
SZ40-P4	viscose platform