

incubated shaker with tft color touch screen operation

Culture shaker, also known as constant temperature oscillation incubator, is a kind of high-precision experimental equipment integrating the functions of temperature control and oscillation, which is specially designed for the fields of microorganisms, cells, enzymes and gene expression and other life sciences.

Incubated Shaker (Stackable Type)

This incubated shaker can realize multi-layer stacking to save experimental space, suitable for laboratory environments with limited space but intensive experimental needs.

Features

- 1, intelligent interactive interface: equipped with TFT true color touch screen, intuitive operation, simple and easy to understand parameter settings, support multi-level menu navigation.
- 2, intelligent temperature control system: using advanced PID automatic adjustment technology, stable and reliable temperature control, small fluctuations.
- 3, High-efficiency power system: built-in constant torque brushless motor, to ensure that in different load conditions can still maintain accurate speed.
- 4, sturdy structure and corrosion resistance: the inner cavity is made of high-quality 304 stainless steel, rounded



corners are designed to facilitate cleaning and prevent bacterial growth.

- 5, Multiple safety protection: with automatic door stop protection, power failure memory recovery, temperature overheating alarm and other functions, to ensure the safety of the experimental process without worry.
- 6, modular pull-out tray: easy to pick up and place samples, compatible with a variety of specifications of triangular bottles, test tube racks and other containers.
- 7, stackable structure design: support for three vertical stacking of equipment, significantly reducing the footprint of the experimental bench.
- 8, flexible vibration mode: the use of orbital cyclotron oscillation, adjustable amplitude, to meet a variety of culture modes.

Core Advantages

- 1, high throughput and high precision coexist: in the limited space to realize multi-sample high-efficiency culture, to meet the needs of large-scale experiments.
- 2, strong stability and safety: even if running for a long time, the temperature and speed remain highly stable, suitable for experiments that require continuous cultivation.
- 3, humanized design: convenient operation and intelligent storage functions combine to improve experimental efficiency and user experience.



- 4, strong flexibility of expansion: support a variety of types of culture containers and additional modules, such as condensate tray, UV sterilization device.

Working Principle

The culture shaker establishes a uniform constant temperature environment through the built-in heater and fan system. The temperature is sampled by the built-in sensor in real time and fed back to the control system, and the PID algorithm finely adjusts the heating intensity to achieve precise temperature control.

The oscillating part is driven by a precision track and brushless motor to realize stable gyratory motion. The combination of different amplitudes and speeds can simulate a variety of cultivation environments, promoting the rapid growth of microorganisms or cells under the conditions of fully mixed oxygen and nutrients. The system supports dynamic and static mode switching, which can meet the needs of different experimental programs.

incubated shaker with tft color touch screen operation

Model	SZ120
Display screen	TFT Touch Screen
Control method	PID
Air circulation method	forced convection
Oscillation mode	orbital

incubated shaker with tft color touch screen operation

Model	SZ120
Environmental temperature	5°C to 35°C
Number of stackable placements	3
Curve Programming Settings	Repeat, Step, Temperature Step, Curve Programming Settings: 10, 20 segments per step, 9999 minutes per time period
Timer	0 to 9999 minutes
Ultraviolet intensity	more than 400mW per cubic meter
Temperature control range	+4°C to +60°C
Temperature resolution	0.1°C
Temperature accuracy	±0.1°C
Temperature uniformity	±0.3°C at 37°C

incubated shaker with tft color touch screen operation

Model	SZ120
Shaking speed	30 to 300rpm
Speed increments	1rpm
Shaking orbit	0 to 30mm, adjustable
Safety function	Alarms for exceeding upper and lower temperature limits, speed and humidity alarms, sensor fault alarms, leakage, overcurrent trip protection, chiller overload protection, door opening protection.
Other Functions	Lighting system, automatic shutdown, automatic startup, temperature and humidity correction, monitoring timer, clock display, power failure recovery, parameter storage, parameter encryption and expandable RS485 interface
Print function	internally installed
Cooling function	air-cooled, R134a
Number of oscillating platform	1

incubated shaker with tft color touch screen operation

Model	SZ120
Platform dimensions	500x420mm
Platform numbers	1
Number of triangular flasks	42x100ml or 25x250ml or 16x500ml or 9x1L or 6x2L or 4x3L or 2x5L
Volume	120L
Internal dimensions	570x505x418mm
External dimensions	one unit 840x764x700mm, two unit 840x764x1325mm, three unit 840x764x1950mm
Power	900w
Power supply	220Vac, 50/60Hz
Weight	125kg

<https://www.trustlee-gb.com>