

shaking incubator with induction motors for pilot production

Shaking incubator at a constant temperature for oscillation operation, for cell culture, fermentation and other experiments to provide stable environmental conditions, widely used in biology, chemistry, pharmaceutical and pilot production and other fields.

Shaking Incubator

Multiple bottles are operated at the same time, which still ensures that each bottle is evenly heated to achieve good experimental results.

The Characteristics of Shaking Incubator

- 1, structural design: vertical double-layer structure, occupies a small space, can accommodate more sample bottles. Compact design, suitable for limited space in the laboratory.
- 2, screen display: equipped with LCD large screen backlit liquid crystal display, clearly display the set temperature, speed, time and other important parameters, intuitive and convenient operation.
- 3, safety protection function: through encryption to lock the operating parameters, to avoid human error operation, while equipped with over-temperature alarm, temperature loss of control alarm and motor overheating alarm and other safety measures to protect the safety of equipment and samples.



- 4, Intelligent storage: built-in storage function, can remember the set parameters, to avoid repeated settings of cumbersome operation.
- 5, Constant temperature and constant speed: Equipped with high efficient AC induction motor, featuring wide range of speed regulation, constant torque, constant speed, etc. Carbon brushless design, maintenance free.
- 6, automatic stop: timer function up to 9999 minutes, after the completion of oscillation will automatically stop and sound and light alarm.
- 7, fault recovery function: when the external power supply is disconnected, when the power is turned on again, the equipment can be automatically restored to the original set state, to ensure that the experiment is not interrupted.
- 8, anti-static design: the box adopts electrostatic spraying process, the appearance of durable. Equipped with tempered glass window, convenient to observe the internal operation.

Advantages

- 1, high efficiency and energy saving: AC induction motor design, so that the equipment can maintain a constant speed and stable torque when running, while not generating additional maintenance costs.
- 2, easy to operate: the large LCD display makes all the operation interface clear at a glance, and the parameter adjustment is more simple. The storage function also avoids the tedious settings during each operation.

- 3, safe and reliable: equipped with multiple safety measures, including temperature, overheating, overcurrent and other automatic alarms, to ensure that the equipment in poor conditions can automatically protect and reduce accidents.
- 4, flexible customization: can be customized according to the user's special needs to join the constant humidity function, to adapt to more kinds of experimental needs, and further expand the scope of application of the equipment.

Principle

shaking incubator through the built-in motor to drive the oscillation platform for rotary movement, the sample container on the platform for uniform oscillation. At the same time, the heating system of the equipment regulates the temperature-controlled environment inside the oscillator to ensure that each container is oscillated at the set temperature to achieve good experimental results. The equipment provides a favorable environment for cell culture, fermentation and other bioprocesses through precise temperature control and stable oscillation frequency.

The temperature control system usually consists of a heating element and a thermostat, which automatically monitors and regulates the temperature to ensure low temperature fluctuation and high stability. The oscillation system is powered by a brushless motor to ensure long time operation without damage.

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Model	SZ173	SZ173R	SZ332	SZ332R	SZ624	SZ624R	SZ624L	SZ624LR
Display screen	LCD							
Control method	PID							
Air circulation method	forced convection							
Oscillation mode	orbital							
Door opening method	single door		double door					
Environmental temperature	5°C to 35°C							
Temperature control range	ambient+5°C to 60°C	4°C to 60°C	ambient+5°C to 60°C	4°C to 60°C	ambient+5°C to 60°C	4°C to 60°C	ambient+5°C to 60°C	4°C to 60°C

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Model	SZ173	SZ173R	SZ332	SZ332R	SZ624	SZ624R	SZ624L	SZ624LR
Temperature resolution	0.1°C							
Temperature accuracy	±0.2°C							
Temperature uniformity	±1°C at 37°C							
Refrigerants	no	R134a	no	R134a	no	R134a	no	R134a
Shaking speed	30 to 300rpm							
Speed increments	1rpm							
Shaking orbit	26mm				35mm		50mm	
Timer	0 to 9999minutes							

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Model	SZ173	SZ173R	SZ332	SZ332R	SZ624	SZ624R	SZ624L	SZ624LR
Platform dimensions	496x350mm		734x458mm		970x560mm		955x545mm	
Platform numbers	2							
Volume	173L		332L		624L			
Number of triangular flasks	56x50ml or 56x100ml or 36x250ml or 24x500ml or 20x750ml		104x50ml or 104x100ml or 64x250ml or 54x500ml or 44x750ml, 30x1L		178x50ml or 178x100ml or 132x250ml or 88x500ml or 64x750ml, 52x1L		160x50ml or 160x100ml or 116x250ml or 86x500ml or 64x750ml, 52x1L	
Internal dimensions	615x450x640mm		845x530x765mm		1110x665x850mm			
External dimensions	720x640x1310mm		950x760x1450mm		1430x880x1670mm			

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Model	SZ173	SZ173R	SZ332	SZ332R	SZ624	SZ624R	SZ624L	SZ624LR
Power	1kw	1.25kw	1.05kw	1.3kw	1.6kw	1.95kw	1.6kw	1.95kw
Power supply	220Vac, 50/60Hz							
Weight	150kg	165kg	225kg	235kg	425kg	456kg	425kg	456kg