

YR05765

Open Air Shaker

Instruction Manual

Thank you very much for purchasing our YR05765 Open Air Shaker.

Please read the "Operating Instructions" and "Warranty" before operating this unit to assure proper operation. After reading these documents, be sure to store them securely together with the "Warranty" at a hand place for future reference.



Warning: Before operating the unit, be sure to read carefully and fully understand important warnings in the operating instructions.



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Name and model

Open Air Shaker YR05765

Use

Kalstein's Open Air is a high-efficiency, energy-saving, long-working oscillating instrument. It is an indispensable laboratory equipment for precision cultivation and preparation in scientific research, education and production departments such as plants, biology, microorganisms, genetics, viruses, environmental protection, and medicine.

Product structure

Kalstein's Open Air YR05765 is a rotary oscillating shaker. The outer shell is made of high-quality cold-rolled plates, and the spraying process is adopted to improve the anti-corrosion effect. The microcomputer speed control system is adopted to prevent the speed overshoot in the rotation process, thereby improving the control accuracy.

Characteristics

The open air shaker is manufactured with imported high-quality steel plate and advanced technology. All performance indicators meet the requirements of national standards. It has the advantages of high speed control accuracy, stable oscillation, reliable quality and long service life.



Attentions

1. Please read this manual carefully before use.
2. The working plane of the machine should not be excessively smooth (such as tiles, etc.).
3. The electrical rated parameters of the socket provided by the user should not be less than the electrical rated parameters of the machine, and have good grounding measures.
4. It is strictly forbidden to use the whole machine in an environment exposed to direct sunlight.
5. Start slowly from low speed to high speed when adjusting speed.
6. The machine may shift to a certain extent during high-speed oscillation, so it should be supervised during use.

Operation instruction

(For specific operation of the instrument, please refer to Section VI- Temperature Controller Button Operation and Description)

1. Load the test bottle and keep the balance. If it is a dual-function model, set the oscillation mode. (The last figure for detailed settings)
2. Turn on the power and set the timing time. If need to work for a long time, set the timer to the "normally open" position
3. Turn on the power switch and set the constant temperature:
 - (1) .Put the small control switch in the "setting" section, and the temperature



displayed on the display is the set temperature at this time, then adjust the knob and set it to the temperature you need for work. (The working temperature you set should be higher than the ambient temperature, at this time the machine starts to heat up and the green indicator light is on, otherwise the machine will not work)

(2) .Place the small switch of the control part at the "measurement" section, the temperature on the display is the actual temperature of the air in the test chamber at this time. As the temperature in the chamber changes, the displayed number will change accordingly.

(3) .When the temperature reaches that you need, the heating will automatically stop and the green indicator light will be on; when the heat in the test chamber is lower than the temperature you set, a new round of heating will start.

4. Turn on the oscillating device:

(1) Turn on the oscillation switch on the control panel, the indicator light is on.

(2) Adjust the oscillation speed button to the required oscillation frequency.

5. Cut off the power after work

6. Clean the machine .

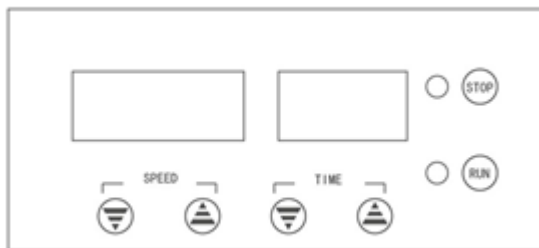
Controller Operation and Description

I. Overview

GTCS-2014CZ controller adopts advanced high-speed microcomputer chip to sample and control the motor speed, stable speed, display intuitive and clear display, and the speed setting and timing setting can be carried out at any time

through the button, and it also has the function of data storage. And adopts double digital display, intuitive and clear. The longest time is 999 minutes. Once the parameters are set, they can be stored for a long time. Suitable for speed control of various instruments.

II. Panel Instructions



III. Take an oscillator controller as an example to illustrate the function of each key(maximum timing is 999 minutes)

Example: Set the oscillator to work at 200 times/min for 120 minutes and then stop working.

1. Turn on the power switch, at this time, the left display is the original speed value (last running speed).

The right display shows the original timing value.

2. Press the SPEED ▼ ▲ key to set the speed to 200.
3. Press the TIME ▲ ▼ key and set it to 120 (setting 0 means untimely normal open continuous operation).
4. Press the start button to start, the machine can start slowly until 200 revolutions per minute, and start timing at the same time, and then stop after 120 minutes of stable operation and alarm for 10 seconds. Indicates that the



timing operation is complete.

5. Press stop button to stop running at any time (timing also ends at this time).
6. The green is the running light and the red is the stop light. The corresponding indicator light shows that the controller is in the corresponding state.

Attentions

1. The shaker should be placed on a firm work surface, the environment should be clean and tidy, and well ventilated.
2. The power socket should have good grounding measures.
3. Strictly forbid to move the machine during normal work
4. Strictly forbid for objects to hit the machine
5. Keep children away from the machine in case of accidents
6. Before replacing the fuse, make sure that the power supply is cut off.
7. Please clean up the machine after use, and there should be no water droplets and dirt residues.

Instrument Fault Analysis and Elimination

NO	Fault	Reason	Exclude
1	No display	The power supply is not connected normally Fuse damage	1.Check the cause of power failure and reconnect it 2.Replace the fuse and contact the manufacturer if it is burnt out again
2	No rotation	Poor contact or damage of the sensor	1.Reset speed 2.Contact the manufacturer for repair 3.Check the sensor connection and connect it well or report for repair



3	Display“OUEY”or“0000”	Poor contact or damage to the sensor	Check the sensor connection and connect it well or report for repair
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Technical parameters

Specification

Model	YR05765
Shake model	convolution/reciprocation
Cyclotron frequency range	40-300rpm
Frequency sensitivity(rpm)	±1
Orbit Diameter(mm)	Φ26
Standard capacity	9x250ml
Size of platform(mm)	330x280
Timing range (continuous available)	0-990min
Number of platform	1
Outside dimension (W*D*H) (mm)	350x330x230
Power (W)	300
Power supply	AC220V±10% 50-60HZ

Packing list

1. Machine	1
2. Warranty card	1
3. Instruction Manual	1
4. Intelligent speed control digital display instruction manual	1
5. Certification	1



All rights reserved © KALSTEIN France S. A. S.,
Optimum Business Center 450 Rue Baden Powell,
• 34000 Montpellier, France.
Tlf: +33 467158849 / +33 680760710/ +33 663810023
<https://kalstein.eu>
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