



Horizontal Constant Temperature Shaking Incubator

Model YR05759-1

Instruction Manual

Thank you very much for purchasing our Kalstein's Horizontal Constant Temperature Shaking Incubator YR05759-1

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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Horizontal constant temperature rocking table is a new generation of large capacity rocking table developed on the basis of the introduction of foreign similar product technology. This machine sets constant temperature cultivation and oscillation in one, one machine dual use. It has the characteristics of large capacity, high temperature control accuracy (using microcomputer temperature control system, temperature control accuracy up to $\pm 0.5^{\circ}\text{C}$), wide temperature control range (both heating and cooling functions), stable speed and so on. This machine uses high-quality stainless-steel liner, beautiful and generous. It is easier to use the glass viewing door and the internal lighting system. It is widely used in medicine, biology, molecule, pharmaceutical, food, environmental protection and other fields.

1. Qualification

name		Horizontal constant temperature shake bed
model		YR05759-1
The constant temperature way		forced convection
mode of oscillation		circle round
nature ability	Use the temperature range	RT + 5 to 60°C (at ambient temperature of 25°C)
	gyrofrequency	40 ~ 300rpm
	Frequency accuracy	$\pm 1\text{rpm}$
	The amplitude	$\phi 26\text{mm}$
	Temperature control accuracy	$\pm 0.1^{\circ}\text{C}$ (constant temperature state)
bear construct	box	Corrosion-resistant to 304 stainless steels
	hull	Material of high-quality steel plate material
controller	Temperature control mode	P.I. D Microcomputer processing chip
	Temperature setting	Touch-type button setting
	Temperature display mode	LCD liquid-crystal display



	Heating method	U-type heating pipe
	additional function	Deviation correction, menu button lock, power outage compensation, power outage memory, PID adjustable
	sensor	PT100
safety device		Over-temperature alarm, short-circuit protection, overheat protection, sound and light alarm
specifications	max. cap	2000ml 8-sticks
	standard layout	500ml*24
	Tray Dimensions (mm)	920×500
	carton size (mm)	1200*760*880mm
	packing measurement (mm)	
	power (w)	650
	Number of pallets	1 block
	Timed range	0 ~ 9999min
	source	AC 220V±10% 50 ~ 60HZ

2. Technical feature

- 1, high-quality stainless-steel liner, domestic advanced one molding stainless steel standard fixture.
2. The shell adopts 1.2mm cold plate electrostatic injection treatment, and the bottom plate adopts 6mm high thickness cold plate. The whole machine looks beautiful and elegant and smooth operation.
- 3, bearings using the best domestic universal bearings (produced by Ha axis company, the price is 3-5 times of ordinary bearings)
- 4, the use of vertical models, beautiful and generous, especially the use of glass observation door, can directly observe the cultivation state in the box.

5, unique microcomputer temperature control, temperature control accuracy up to $\pm 0.5^{\circ}\text{C}$.

3. Operation declaration

1, in the speed range, can prolong the service life of the instrument.

2. Push the instrument on the flat ground, unscrew the bottom foot, suspend the moving caster and tighten the bottom foot screw. The environment should be clean and tidy, with moderate temperature and good ventilation.


3. Before using the instrument, put the speed regulation in the minimum position first.

4, open the door, put the culture test bottle, in order to make the instrument working balance performance, to avoid large vibration, bottled should be filled, the culture medium of each bottle should be roughly equal. If the culture bottle is insufficient, the test bottle can be placed symmetrically or filled with other equal amounts of solution.


5. After the container is installed, close the door, turn on the power supply and turn on the power switch.


a. Turn on the right-side red power switch.


 b. Adjust the speed: press this button and then press the upper and lower keys to adjust the speed to be used.

 c. Adjust temperature: press this button and press the upper and down keys to adjust to the required temperature.

 d. Press this key long for 2 seconds to start the device and start running.

6. If you need lighting, open this button. 

 7. When used, press this key for 2 seconds, the device to stop running, and then turn off the total power supply.

 8, the machine timer is generally set in the ON bit (that is, often open file), if the need to use the timing function, the timer can be adjusted to the required time, the timing of the machine is in the closed state.

(See the instrument specification for internal parameters)



4. Debugging

1. If the machine cannot start after turning on the power, check whether the power switch indicator is on, if the power indicator is on, check whether the oscillation switch is on and the governor works; if the power indicator is not on, check whether the fuse is intact, and the plug is inserted.
2. If the temperature cannot be controlled, check whether the temperature control switch has been opened. If the temperature control switch is opened, check whether there is a digital display on the temperature control instrument and whether the temperature control setting is correct.
3. If the lighting cannot be used, you can check whether the lighting switch has been turned on and whether the lamp has been broken. If the lamp is broken, you only need to change a new lamp.
4. If you cannot find out the problem, please contact our company directly. Do not open the machine by yourself.

5. Matters that need attention

1. After the use, the speed should be slow, and the machine stops turning.
2. When closing the door, the door should gently close until the door is sucked, do not force too much.
- 3, do not sprinkle the solution in the machine, so as not to affect the normal use of the instrument.
4. The rotation speed of the equipment is controlled within 220 RPM when working for a long time.

Vi. Maintenance

- 1, correctly use and pay attention to the maintenance of the instrument, so that it is in a good working state, can extend the service life of the instrument.
2. During the continuous work period, the instrument shall be inspected regularly once every three months: check whether water droplets and dirt fall on the motor and control components; check the fuse, control element and fastening screws.



3. The bearing of the transmission part has been filled with appropriate amount of grease (No.1 calcium-sodium base) before leaving the factory. During the continuous work of the instrument, grease should be filled every six months, and the filling amount accounts for about 1 / 3 of the bearing space.

4. After long-term use, natural wear is normal. After the instrument, if the motor has abnormal noise, the transmission bearing wear, belt loosening or crack; electric control components failure... and other faults, the company will continue to provide quality services and assist in handling.

