CRAFTSMANSHIP IN MANUFACTURING
CONSISTENT QUALITY

BECAREFUL

As our productinnovation,as the upgrading of products may have certain parls and the instructions are not consistent,refer to the actual product please understanding

PLEASE READ THE USER MANUAL CAREFULLY BEFORE USE

ELECTRO-HEATING
CONSTANT TEMPERATURE INCUBATOR

OPERATION INSTRUCTIONS

EXCELLENT DETAILS DON'T STOP HERE

BECAUSE OF CONCENTRATION/SPECIALTY



PAY ATTENTION TO

Please read the product manual of this device carefully before operation. After receiving the machine, be sure to conduct an empty box test to ensure accuracy and safety of use. Do not place igniting, flammable, or explosive materials in the chamber for drying or cultivation.

This device is a constant temperature device for item cultivation. This device is a high-power device and must be safely grounded to prevent accidents such as leakage and fire. There are air vents on the top of the equipment's inner liner, and it is strictly prohibited to place any objects to block it to avoid causing a fire. The required culture products (including containers such as trays) shall not exceed 60% of the partition area, leaving sufficient space on both sides for easy circulation of hot air and improving cultivation efficiency. Items are not allowed to be placed on the bottom layer of the inner liner. All cultivation items must be placed on the partition shelf. When the equipment malfunctions, it is necessary to cut off the power and contact professional after-sales personnel for operation.

WORKING PRINCIPLE

This device is controlled by a digital instrument to raise the temperature of the inner container, and after reaching the set temperature, it undergoes intelligent fine-tuning to maintain the constant temperature state of the inner container. It adopts a PID adjustment method and has functions such as adjusting the output power and linear correction of system temperature measurement. A fan is installed at the heating tube. By rotating the impeller, the hot air inside the inner liner circulates to achieve a uniform temperature and rapid drying effect.

CONDITIONS OF USE

*Environmental temperature: 5 ℃~40 ℃ *Power supply: AC220V+22V

*Relative humidity of air: not more than 85% *Frequency: 50Hz ± 1HZ

ELECTRO-HEATING CONSTANT TEMPERATURE INCUBATOR						
Model number	303-0 (303-0B)	303-1 (303-1B)	303-2 (303-2B)	303-3 (303-3B)	303-4 (303-4B)	303-5 (303-5B)
Supply voltage	220V/50HZ					
Temperature control range	RT+10~99.9°C					
Temperature control accuracy	No blower	With a blower ±1%				
Heating power	250W	250W	500W	750W	1000W	1500W
Timing range	1-9999min					
Studio size	250*250*250	350*350*350	350*450*450	450*550*550	500*600*750	800*800*1000
shelf	2块					

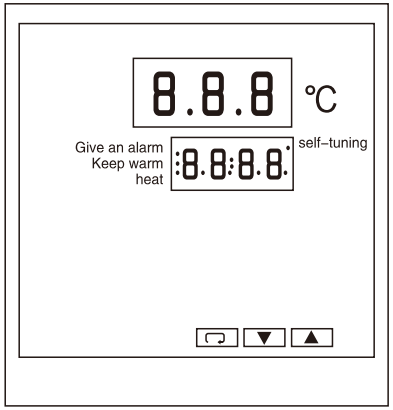
USAGE METHOD

1. Put the items that need to be cultivated into the incubator, leaving a certain amount of space around the top and bottom to maintain smooth airflow in the studio, and close the door of the incubator.

2. Turn on the power and fan switch. At this time, the power indicator light is on, the motor is running, and the humidity controller shows that after the "self check" process, the PV screen should display the measured temperature in the working room, and the SV screen should display the set temperature that needs to be cultivated during use. At this point, the incubator will enter the working state.

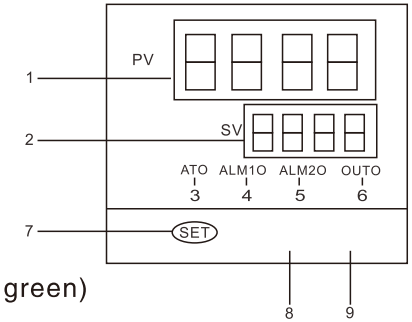
3. After the cultivation is completed, if it is necessary to continue replacing the cultivation items, turn off the fan switch before opening the box door to prevent the items from blowing off. After replacing the items, close the box door and then turn on the fan switch to allow the incubator to enter the cultivation process again. If the items are not taken out immediately, the blower should be turned off first, and then the power switch should be turned off to maintain the cultivation inside the box. If the items are no longer being cultivated, the power switch should be turned off. After the studio cools to room temperature, the cultivated items inside the box should be taken out and wiped dry.





Panel description	Content description
Upper panel display	The actual temperature in the oven
Bottom display	Set the temperature value or time
Temperature indicator light	Temperature deviation in oven, heater heating
Heat preservation light	The temperature in the oven reaches the set temperature
Self-tuning indicator light	PID parameters are being automatically set
▼	Set value increment key
▲	Set value reduction key
⮌	Parameter setting Self-tuning key

PANEL NAME AND FUNCTIONS



1. Measurement Value (PV) Display
2. Set Value (SV) Display
3. The self-tuning indicator light (AT green) flashes during operation
4. Alarm output indicator light (AL1) lights up when the first alarm output is on. 5. Alarm output indicator light (AL2) lights up when the second alarm output is on. 6. Control output indicator light (OUT) lights up when the control output is working
7. SET key
8. The subtraction key (▼) is used as the subtraction key in the parameter setting state; (Set temperature/timer remaining time switch
9. Use the addition key (▲) as the addition key in the parameter setting state (press and hold for 2 seconds after the timer is completed to restart the timer)

INSTRUMENT OPERATION

1, want to modify the SET value, in the normal display state, when the upper PV window displays SP, the lower SV window displays the set temperature value, you can press △, ▼adjust the temperature you want to set, the input is completed and then long press the set key (function key), the upper PV window displays ST, the lower SV window displays the timing time, the factory is 9999, press △, ▼Adjust (hold down △ for a long time, ▼can be quickly added or subtracted), in minutes, that is, set to 60, start timing after the temperature reaches the set value, stop heating after 60 minutes, the longest timing time is 9999 minutes, set to 0 is not time, that is, will not automatically stop heating.

2. If you want to modify parameter values other than SP, please press and hold the SET key (function key) for more than 5 seconds under the normal display state, that is, enter the internal parameter setting, and set unnecessary parameter values according to the needs of the application system to adjust the heating speed, temperature return difference and other functions. The automatic tuning of PID parameters can also be realized by turning on the self-tuning parameter function.

Serial number	Prompt	Name	Setting Range	illustrate	Factory value
1	AL1	Upper or upper deviation alarm	full range	When the measured value is greater than or less than SP, there is an output and the alarm light is on	random
2	AL2	Lower or lower deviation alarm	full range	When the measured value is greater than or less than SP, there is an output and the alarm light is on	0
3	At	Automatic parameter tuning	0–1	1– Turn on self-tuning 0– Turn off self-tuning	0
4	p	Proportional band	0–100%	Zero hour position control, high P-value, slow heating speed, precise temperature control P. Small value, fast heating speed	30
5	I	Integral time	0–3600s	Cut off the integral effect when 1=0	200
6	d	Differential time	0–3600s	Cut off differential action when d=0	30
7	PH	Heating percentage	0–100%	When entering proportional control for the first time, the maximum heating percentage is 100	70
8	T	Control cycle	1–200s	When using a relay, it takes more than 15 seconds, and when using a solid-state relay, it takes 2 seconds	20
9	Hy	Retracement	0–20	Deadband range during positional control	0
10	SC	Measurement error correction	-20~+20 -20.0~20.0	The measurement value can be added or subtracted through this item. Note: using this item may make the measurement inaccurate	0
11	Lock	Electronic lock	0–1	0– All parameters can be modified; 1– All parameters cannot be modified; 2– Only the set value can be modified	0

PRODUCT QUALIFICATION CERTIFICATE

Product Name: ELECTRO-HEATING CONSTANT TEMPERATURE INCUBATOR

Specification and model: _____

Product number: _____

date of manufacture: _____

examination clerk: _____

This product has been inspected and meets the specified quality standards, and is allowed to leave the factory.

AFTER SALES SUPPORT CARD

Model number: _____ Date of purchase: _____

User name: _____ Contact information: _____

Specific address: _____

Repair/return:

Warranty Notice:

1. The company provides a one-year free warranty period for the product, calculated from the date of purchase.
2. Damage caused by artificial damage, wear and tear of exterior parts, and abnormal external conditions is not covered by free warranty.
3. please take this card to the designated maintenance center for maintenance.