

AUTOMATIC INTELLIGENT INCUBATOR

GUIDELINES FOR SUCCESSFUL HATCHING

Before loading your eggs in your Automatic Incubator

- Make sure your eggs have been fertilized by Males or Cocks.
- Make sure all eggs either collected or purchased are fresh, clean and no cracks or damage
- Store your collected eggs in cool and dry place away from wind and drafts and direct sunlight and make sure the eggs are placed in clean dry egg trays with the pointy side down.
- Chicken eggs could be collected up to ten days before loading into the incubator to increase chances of it giving you a new chick.
- In all automatic incubators eggs are tilted every two hours.
- Note: If you are using a Manual Incubator, tilt the egg tray on a daily basis to keep the egg yolk centered always and to avoid yolks to stick to shells.
- Always make sure your incubator has been running at least overnight before you load eggs and make sure you have filled your humidifier with warm water and is plugged in and switched on before you load eggs.
- Plan your loader setting cycle so that you have set dates to load your eggs and set dates where you will be collecting chick

Candling your eggs

- Necessary to check if there is any growth in the egg
- This is normally done on Day 10 for chicken eggs
- Remove the eggs and use a Torch or a Light that does not get hot and hold it against the egg
- You will see there is a growth inside the eggs
- The ones that do not have don't have any growth were not fertilized and you can remove them from the incubator
- These eggs that were removed are safe for eating either by Boiling or Frying only.

Instructional Manual for the Intelligent Automatic Incubator

I. Overview:

Thank you for choosing Zhen series Intelligent Incubator!

Zheng series household intelligent incubator developed by our company has new design, new structure and high cost performance. It has the advantages of energy saving, beautiful appearance, simple operation and high hatching rate. We are specialized in providing high quality pre-sales and after-sales service and intimate technical guidance!

II. Major technical indicators:

1. Temperature measurement range: $0 \sim 99.9^{\circ}\text{C}$
2. Temperature measurement accuracy: $\pm 0.1^{\circ}\text{C}$
3. Humidity measurement range: $0 \sim 99\%\text{RH}$
4. Humidity control accuracy: $\pm 1\%\text{RH}$
5. Power: $\leq 80\text{W}/\text{AC}220\text{V}$ $80\text{W}/\text{DC}12\text{V}$

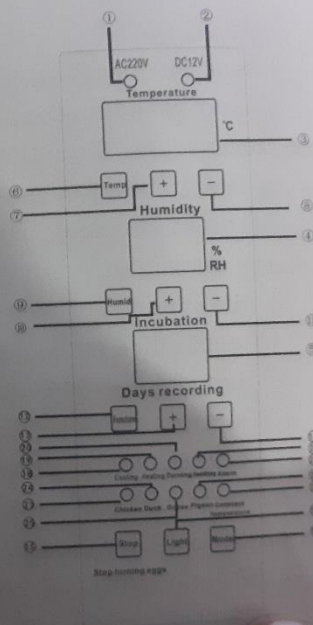
III. Working conditions:

1. Working voltage: $\text{AC } 185\text{V} \sim 235\text{V}$ 50HZ 50HZ $\text{DC } 12\text{V}$
2. Relative humidity: $40 \sim 75\% \text{RH}$

3. Ambient temperature: $15^{\circ}\text{C} \sim 30^{\circ}\text{C}$

IV. Introduction of Display Screen and Keyboard

1. AC220V household electrical indicator 2. DC12V battery indicator 3. temperature display 4. humidity display 5. incubation days recording 6. temperature setting key 7. temperature + key 8. temperature - key 9. humidity setting key humidity + key 10. humidity - key 11. function setting key 12. function + key 13. function - key 14. stop turning key (when putting chicks in the basket or breed chicks, stop turning eggs, and switch the egg turning indicator into red) 15. lighting key 16. mode switch key 17. high temperature exhaust indicator 18. heating indicator 19. egg turning indicator (red indicator indicates stopping turning eggs; waiting for turning eggs when the indicator does not light up; and green indicator indicates turning eggs) 20. humidifying indicator 21. alarm indicator 22. chicken mode indicator 23. duck mode indicator 24. goose mode indicator 25. pigeon mode indicator 26. constant temperature and humidity indicator (temperature and humidity can be changed to customize hatching)



The incubation settings of this machine can be divided into two types: whole batch eggs (variable temperature) and eggs in batches (constant temperature).

V. Variable temperature incubation settings (i.e. whole batch of eggs and chicks)

After starting the machine and showing the normal temperature and humidity, enter the egg selection. The eggs of this machine are divided into five categories: chicken, duck, goose, pigeon, constant temperature and customized.

Note: The incubation parameters of chicken, duck, goose and pigeon are input by the program and cannot be adjusted. If the incubation parameters must be modified, the constant temperature incubation mode can be used, because all parameters in the constant temperature mode can be modified. The operation is as follows: hold down the 'mode' button for about 5 seconds until the chicken indicator is on enter the egg incubation mode. If other types of eggs are incubated, hold down the 'mode' button for about 5 seconds until entering the duck, goose and pigeon constant temperature incubation modes.

Taking into account the differences in climate and the specificity of hatching eggs, the experienced hatching technicians always use the constant temperature

mode, and adjust the temperature and humidity parameters according to the previous hatching experience.

Comparison table for incubation time and parameters of four modes

1. Hatching time and parameters of chicken egg

INCUBATION TIME	1-3 days	4-14 days	15-16 days	17-18 days	19 days and later
Temperature parameter	38.0℃	37.8℃	37.7℃	37.7℃	37.6℃
Humidity parameter	60%RH	60%RH	60%RH	60%RH	65%RH
Egg turning parameter	90 (14)	90 (14)	90 (14)	Not turning eggs	Not turning eggs
Ventilation parameter	120(5)	120(5)	120(5)	120(5)	120(5)

Ventilation parameter	120(5)	120(5)	120(5)
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IV. Constant temperature customized incubation settings (i.e. batch eggs):

"Customized" incubation means the temperature, humidity and egg turning parameters do not change with incubation time.

1.Example of temperature settings

The incubation temperature is required to be 37.8°C. Press 'temp' button until the temperature window begins to flicker. The temperature window shows three digits which is the original factory temperature setting value. If the temperature is needed to be changed, press '+' or '-' button to adjust the temperature. The upper limit

of the temperature range is 37.8°C. Press 'temp' button to save the setting. If the temperature has not been saved after adjusting, the system will automatically save it.

2.Example of humidity setting

The incubation humidity is required to be 60% RH. Press 'humid' button until the humidity window begins to flicker. The humidity window shows two digits which is the original factory humidity setting value. If the humidity is needed to be changed, press '+' or '-' button to adjust the humidity. The upper limit of the humidity range is 60% RH. Press 'humid' button to save the setting. If the humidity has not been saved after adjusting, the system will automatically save it.

3.Functional parameter setting

Hold down the "function" button and press "+" button behind the function button until the humidity window displays "F1" and the temperature window starts to flicker. The temperature window displays the original egg turning cycle. If egg turning value is needed to be changed, press '+' or '-' button to adjust the cycle. Press 'function' button to save the setting until the system automatically enters the setting of egg turning time "F2" ; if the egg turning cycle is not saved after adjustment, the

system will automatically save it.

Parameter codes and meaning of "egg turning" button

Parameters	Parameter code	Parameter description	Factory setting
Egg turning cycle	F1	Egg turning interval	90 minute
Egg turning time	F2	Egg turning time	14 seconds
Ventilation cycle	F3	Ventilation interval	120 minutes
Ventilation time	F4	Ventilation time	5 seconds
Incubation days	F5	Incubation time record	1

VII. Example of temperature and humidity settings (automatic generation interval can be changed, but generally not used)

1. Temperature correlation settings

Press the "temp" button and '+' button until the humidity window displays "P1" and the temperature window starts to flicker. The temperature window displays the original high temperature alarm value. If temperature alarm value is needed to be changed, press '+' or '-' button to adjust the value. Press 'temperature'

button to save the setting until the system automatically enters the setting of low temperature alarm value "P2" ; if the temperature correlation parameters are not saved after adjustment, the system will automatically save it.

Temperature correlation parameter codes and meaning

Parameter name	Parameter code	Parameter description	Factory setting
High temperature alarm value	P1	Alarm when the temperature reaches this value	38.5℃
Low temperature alarm value	P2	Alarm when the temperature reaches this value	36.8℃
High temperature exhaust value	P3	Exhaust air when the temperature reaches this value	38.0℃
Upper limit of main heating	P4	Upper limit of heating	37.8℃
Lower limit of main heating	P5	Lower limit of heating	37.7℃
Temperature calibration	PP	Calibration after comparison with standard temperature	0.0℃

2. Humidity correlation settings

Press the "humid" button and '+' button until the temperature window displays "H1" and the humidity window starts to flicker. The humidity window displays the original humidity alarm value. If humidity alarm value is needed to be changed, press '+' or '-' button to adjust the value. Press 'humid' button to save the setting and automatically enter the setting of low humidity alarm value 'H2'. If the humidity correlation parameters are not saved after adjustment, the system will automatically save it.

Humidity correlation parameter codes and meaning

Parameter	Parameter code	Parameter description	Factory setting
High humidity alarm value	H1	Alarm when humidity reaches this value	82%RH
Low humidity alarm value	H2	Alarm when humidity reaches this value	42%RH
Humidity upper limit	H3	Stop humidification when the humidity reaches this value	60%RH
Humidity lower limit	H4	Start humidification when the humidity reaches this value	55%RH
Humidity calibration	HH	Calibration after comparison with standard humidity	0%RH

VIII. Manual egg turning

1. In the non-setting state, the manual egg-turning can be realized by pressing the "+" button, and the manual egg turning time is 14 seconds. The egg turning direction is automatically determined by the computer.

IX. Muffler button

In the non-setting state, the alarm can be cancelled by pressing the '-' button behind the function button.

X. Quick reset to factory settings

In the non-set state, hold down "-" button for 5 seconds until buzzer sounds and the screen displays "88888", which indicates that the factory settings are successfully restored. The temperature is 37.8°C, the humidity is 60% RH, the egg turning cycle is 90 minutes, and the egg turning time is 14 seconds. The ventilation period is 120 minutes and the ventilation time is 5 seconds.

Respected Users:

Please pay attention to the following items in use:

1. When the incubation at variable temperature (i.e. whole incubation) is selected,