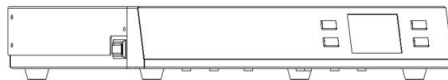




# QUICK 870D Preheater/Reflow Hot Plate

## Instruction Manual



**Thank you for purchasing our products. Please keep the instruction manual properly for future reference.**

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# 1.Safety Instructions

## CAUTION

- During the installation and use of this product, all electrical safety regulations of the country and regions must be strictly observed.
- The power supply must be disconnected when disassembling the product. Do not operate with power on.
- If the product does not work properly, please contact the supplier or our company, and do not disassemble or change the product in any way. We are not responsible for any problems caused by unauthorized maintenance or modification.

## WARNING

- The product should be used away from places where there is magnetic interference.
- Don't install the product in a place where the surface is easy to shake or be impacted, as it may damage the product.
- Don't install the product in places where it may be exposed to rain or moisture.
- When using, the surrounding temperature is extremely high, pay attention to prevent scalding.
- Don't use in flammable and explosive environments.
- Please place the product on the table covered with fire-proof and heat-resistant rubber mat to avoid causing fire.
- Please unplug the power cord when the product is not used for a long time.

## 2.Overview

This preheater adopts the resistance type heating element and the aluminum heating plate with high heat conducting efficiency. It's widely used in electronic manufacturing, machining, experimental research, education and other industries. For example it is applied to the auxiliary preheating of electronic circuits with large heat capacity, and then works with the soldering station for soldering, it can make up for the problem of insufficient heat of ordinary soldering stations.

## 3.Product Characteristics

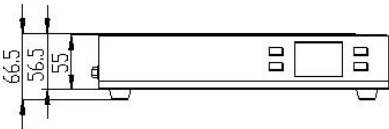
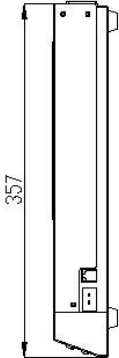
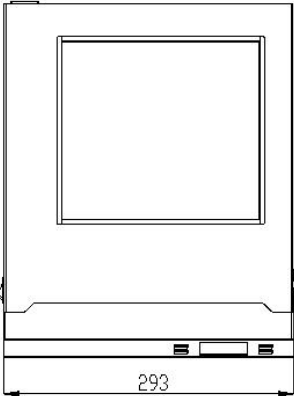
- Three-channel temperature design, fast temperature switching.
- Uniform temperature distribution of the aluminum plate.
- External K-type sensor interface, convenient to test the actual temperature of the heating products.
- Supports setting of upper and lower temperature limit alarms.
- Sensor closed loop PID control, TFT LCD display, accurate temperature and sectional preheating temperature setting.
- Digital temperature calibration, convenient and fast.
- Data communication port, automatic linkage control.

## 4.Product Specifications

Product model	870D
Voltage	AC 220V/230V
Power consumption	800W
Heating area	180mm*200mm
Heater material	Aluminum plate
Temperature sensor	K-type Thermocouple
Preheat temperature range	50~350°C
Temperature stability	±1°C
Sensor measuring range	Room temperature ~600°C
Alarm temperature range	5~99°C
Ambient temperature	0~40°C
Dimensions(L*W*H)	293*357*66.5mm
Weight	About 5.1kg

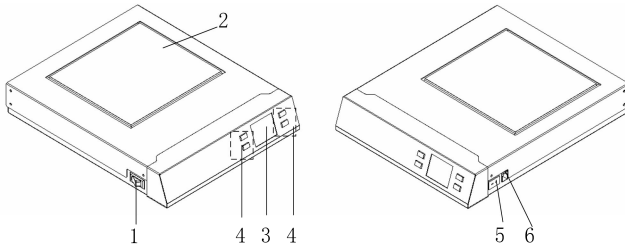
# 5.Functional Descriptions

## 5. 1. Dimensions





Unit: mm

## 5. 2. Part Descriptions

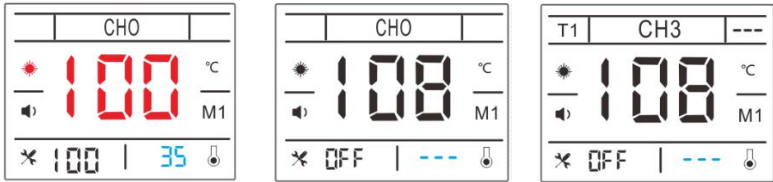











NO.	Part Descriptions
1	Power switch
2	Preheating area
3	Display part
4	Button
5	External port for K-type sensor
6	RS485 communication port

### 5. 3. Key Descriptions

Key	Function Descriptions
	1.Press in the main interface to switch between CH1, CH2 and CH3. 2.In the setting interface: Return/Cancel.
	1.Press in the main interface to turn on/off. 2.In the setting interface : Advance/Save. 3.In the main interface, long press 2S to enter the setting interface.
+ and -	Press at the same time to enter temperature calibration interface.
+	1.In the main interface, press to increase the parameter value. 2.In the setting interface : Page up.
-	1.In the main interface, press to decrease the parameter value. 2.In the setting interface : Page down.

## 5. 4. Function Descriptions of the Main Interface






Symbols	Descriptions	Symbols	Descriptions
CHO	Display channel.		Buzzer off.
	1.Red: heating state. 2.Alternately flashing red and black: the set temperature is reached. 3.Blue: cooling state.		The current set temperature value.
	Buzzer on.		Press  to turn off the temperature control.
	Display the temperature of external K-type thermometer.		External K-type thermometer disconnected.
T1/T2	Temperature zone 1 and temperature zone 2		Countdown

## 6.Connection

- 1) Insert the power plug into the power socket consistent with the label value.
- 2) Turn on the preheater and it will start to heat up.
- 3) To change the set temperature, adjust the keys on the panel.
- 4) After a few minutes, the temperature will reach the set value and stabilizes at the set value.
- 5) After working, please turn off the power supply. The preheating plate will no longer be heated, and its temperature will slowly drop to room temperature.

## 7.Temperature Settings

The default temporary channel at startup is CH0. Press  to switch to CH1, and press  successively to switch to CH2 or CH3. The temperatures of CH1-CH3 are 200 °C、300 °C and temperature zone. To change the set temperature and display the set temperature value , "+" or "-" key can be used to change the temperature value. The temperature range is 50 - 350 °C.


### Temperature rise

Short press "+" key, the temperature will rise by 1 °C. Long press "+" key, the temperature will rise rapidly. When the required temperature is reached, release "+" key.



### Temperature drop


Short press "-" key, the temperature will drop by 1 °C. Long press "-" key, the temperature will drop rapidly. When the required temperature is reached, release "-" key.


## 8.Menu Settings


Long press  to enter the setting menu.


### 8. 1. Channel Settings

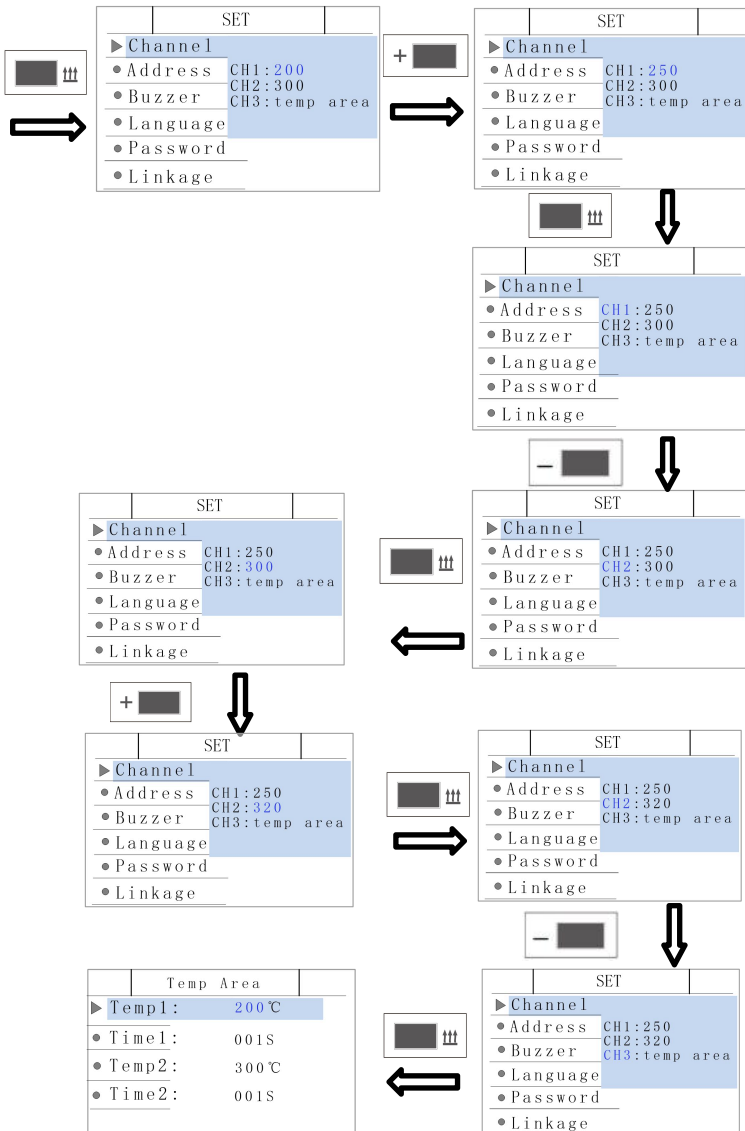
1) Press  key to select the channel bar, and continue to press  key to select the parameter bar.

2) Press "+" or "-" key in the channel bar to select channels; In the parameter bar, set the temperature and press  key to save.



3) In CH3, select the temperature zone and press  key to enter the temperature zone setting interface to realize the function of segmented temperature control. Two temperature ranges can be set, in which the temperature and time can be adjusted. The range of temperature 1 is 50°C - 350°C, the range of temperature 2 is 50°C - 350°C, and the range of time 1 and 2 is 000 - 600 seconds.

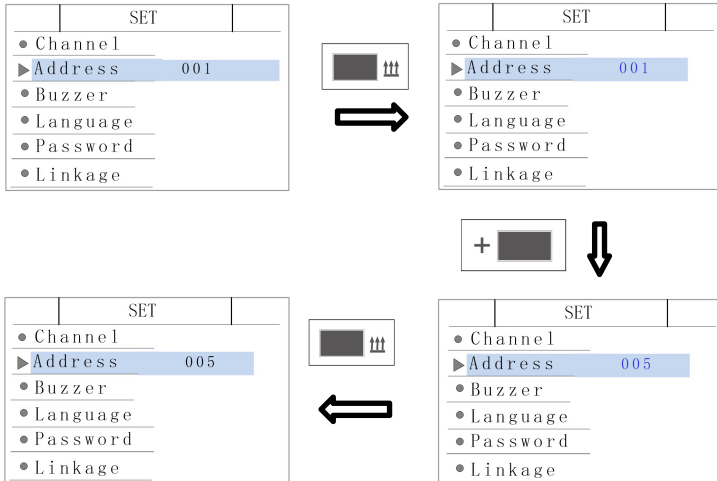
When temperature 1 reaches the set temperature, the countdown starts (time 1 is set according to your requirement), when the countdown ends, it will enter temperature 2. When temperature 2 reaches the set temperature, the countdown starts (time 2 is set according to your requirement), when the countdown ends, it will return to temperature 1 and remains there. If you want to continue the above functions, press  key in the main interface to turn it off and turn it on again.

4) Press  key to go back level by level until you return to the main interface.





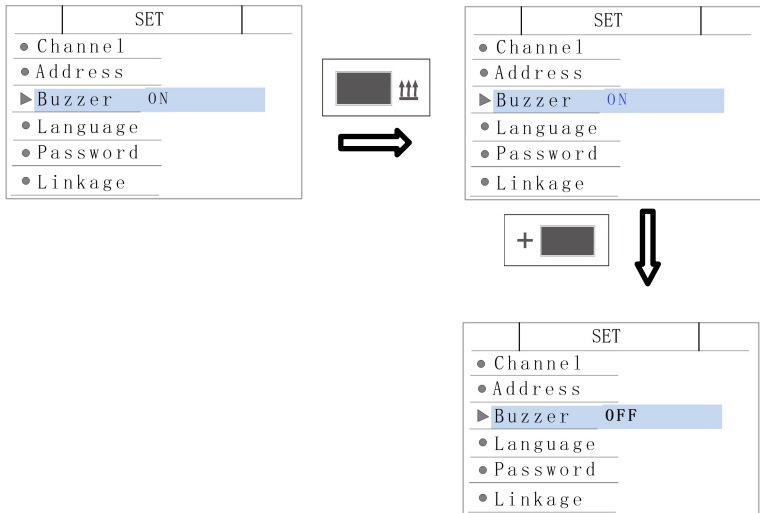
## 8. 2. Address Settings

- 1) Press "+" and "-" on the main menu to switch the menu to Address.
- 2) Press  to select the parameter and the parameter turns blue, press "+" or "-" to set the address value, which ranges from 001 to 255.
- 3) Press  to save.





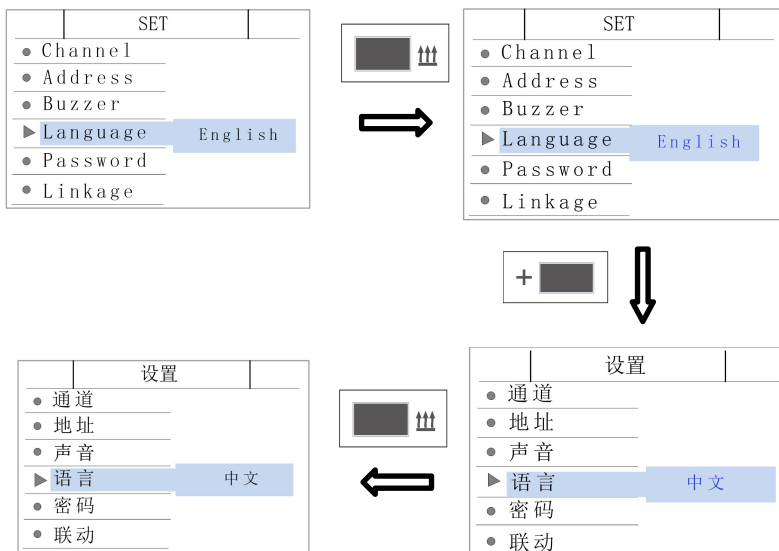
### 8. 3. Buzzer Settings

- 1) Press "+" and "-" on the main menu to switch the menu to Buzzer.
- 2) Press  to select the parameter and the parameter turns blue, press "+" or "-" to turn the buzzer on or off.
- 3) Press  to save.



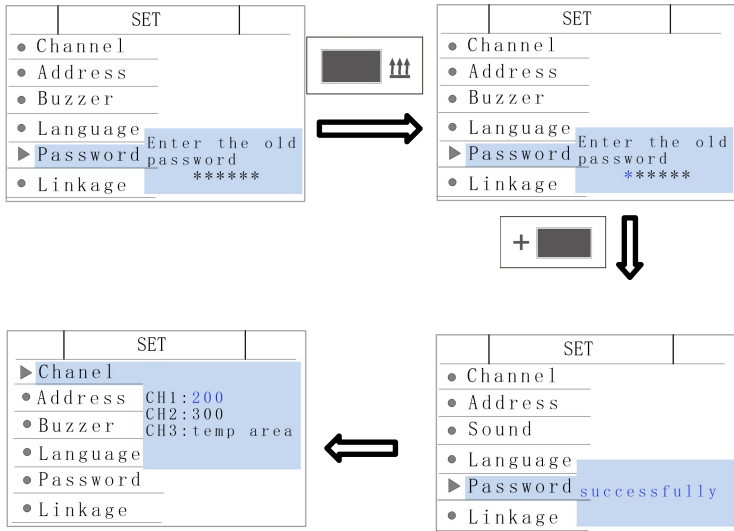
## 8. 4. Language Settings

- 1) Press "+" and "-" on the main menu to switch the menu to Language.
- 2) Press  to select the parameter and the parameter turns blue, press "+" or "-" to select English and Chinese.
- 3) Press  to save.









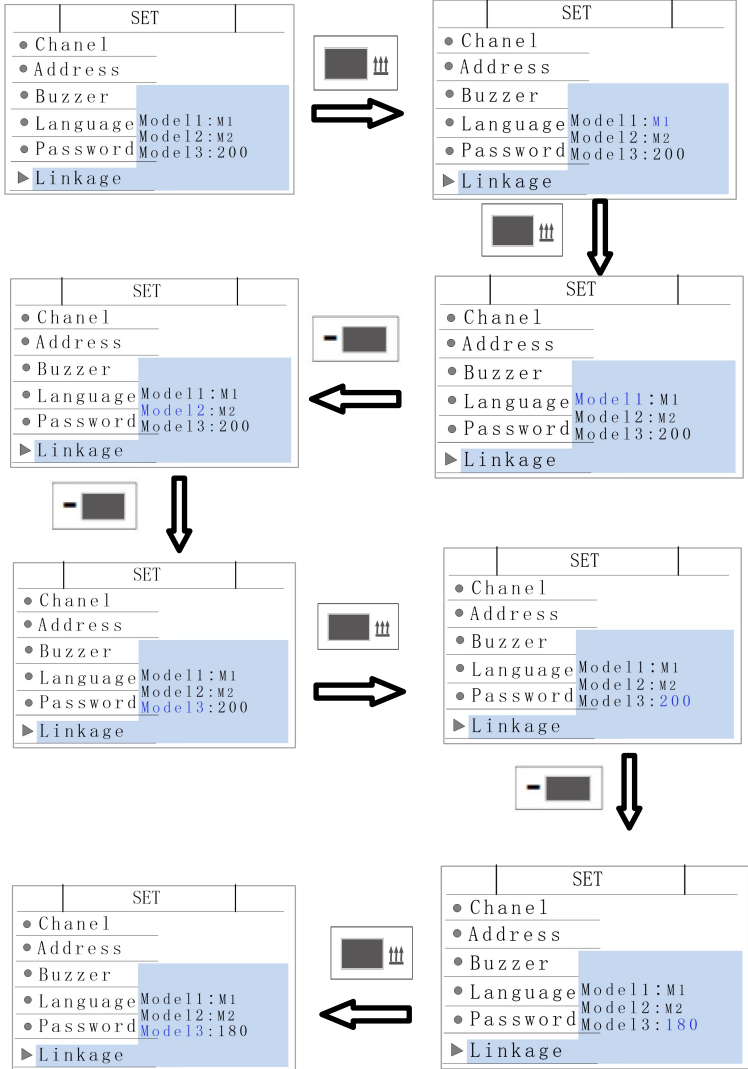
## 8. 5. Password Settings

- 1) Press "+" and "-" on the main menu to switch the menu to Password.
- 2) Press **↑↑↑** to input the old password (default 000000) and enter the new password setting interface. Press "+" or "-" to change the value, each time you input a value, you need to press **↑↑↑** to confirm.
- 3) After the new password input is completed, the screen will display "Successfully". Then it will be directly back to the Channel.
- 4) The new password takes effect after it is shut down and restarted or return to the main interface.




## 8. 6. Linkage Settings

- 1) Press "+" and "-" on the main menu to switch the menu to Linkage.
- 2) Double click  to select mode 1, M1 turns blue, and press  again to confirm. M1: There is no linkage.
- 3) Press "-" to select mode 2, press , M2 turns blue. Press  again to confirm. M2: External equipment controls the preheater.
- 4) Press "-" to select mode 3, press , the value of mode 3 turns blue, press "+" or "-" to select appropriate temperature. M3: Preheater controls external equipment, with optional temperature range of 50 ~ 350 °C.
- 5) Press  to return to the main interface.




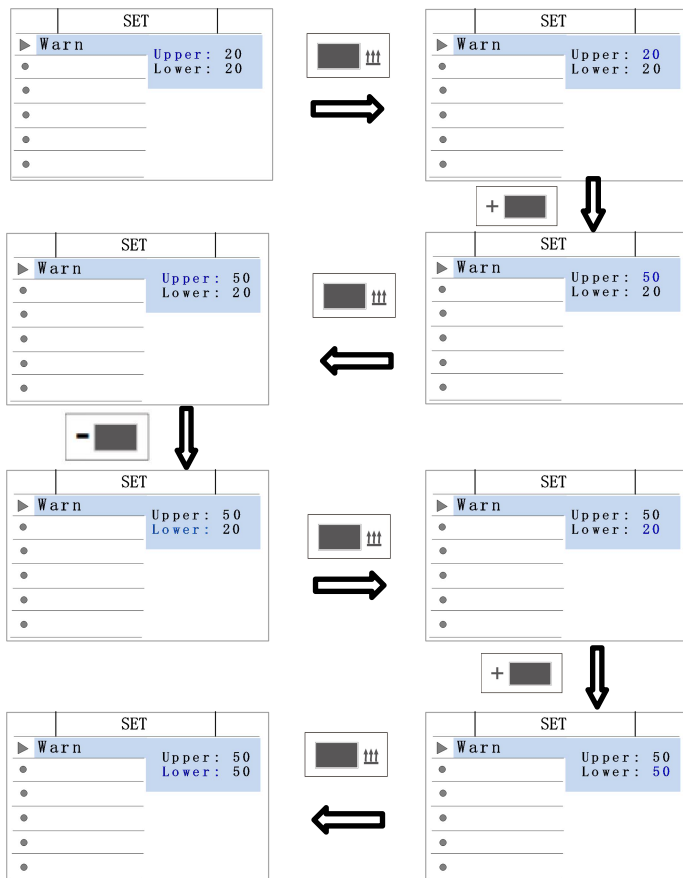
## 8. 7. Warn settings

1) In the main menu, press the “+” or “-” to switch to the alarm settings.




2) Click  to select the parameter, and the parameter turns blue, then use the “+” or “-” to adjust the upper and lower alarm limits (Adjustable range: 5–99 °C).

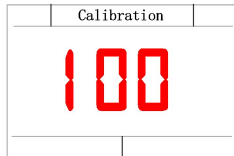
3) Click  to confirm.

4) Press  to exit step by step until you return to the main interface.



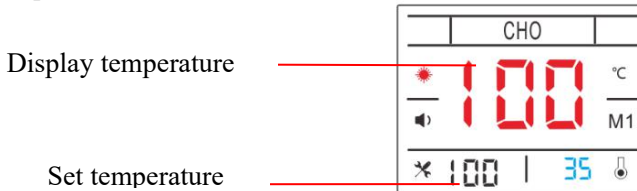
# 9. Temperature Calibration


- 1) When the display temperature is consistent with the set temperature, the temperature can be calibrated.
- 2) Long press "+" and "-" for 2s to enter the temperature calibration interface.
- 3) In the calibration interface: press  to save the calibration; press  to exit calibration; long press  to restore the default calibration values.
- 4) To ensure calibration accuracy, the calibration cannot be performed when the temperature is below 50°C.

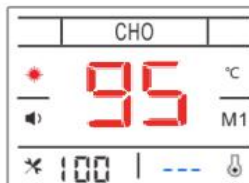


For example:

- a) The product needs to be preheated to 100 °C, so we set the temperature to 100 °C.



- b) When the temperature is set to 100 °C due to the material of the preheating plate and environmental factors, the temperature above the preheating plate is measured to be 95 °C by the thermometer, In the temperature calibration interface, press the "+", "-" key to adjust the temperature to 95°C, and press  key to confirm and exit.

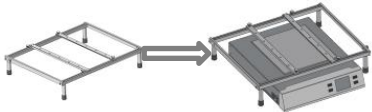
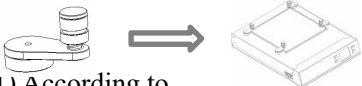



## 10.Troubleshooting

### Alarm Code Description of 870D:

No.	ERR	Troubleshooting
1	“0-E”	Internal sensor disconnected or faulty
2	“1-E”	External sensor disconnected or faulty
3	“F0E”	Internal sensor temperature over limit
4	“F1E”	External sensor temperature over limit
5	“H-E”	Heater failure
6	“F-E”	Fan failure

## 11. Accessories Selection

Parts	Characteristics	Descriptions
Special-shaped Support	1) Height adjustable; 2) Easy to use.	 <p>1) Place the special-shaped support above the preheating plate.            2) Rotate the column base of the special-shaped support to adjust the height of the special-shaped support.            3) Loosen the positioning knob on the PCB fixture, and move the fixture. Then tighten the positioning knob after fixing the PCB.</p>
Simple Support	1) Small and flexible; 2) Take up no space; 3) Easy to use; 4) Strong magnet attraction, firmly fixed.	 <p>1) According to the size of PCB, select the appropriate placing position, and directly place the simple support on the preheating plate.            2) Place the PCB at the adjustment spring of the simple support and clamp it to fix the PCB.</p>
Reflow Hood	1) Economical and practical; 2) Energy saving, consumption reduction; 3) Stable performance.	 <p>Directly placing the reflow hood on the preheating plate can be used as a small reflow oven.</p>

## Warranty Card

●The warranty period of this product is calculated from the date of Purchase. During the warranty period, if the product breaks down during normal use, show the original warranty card and enjoy free service in the authorized repair company(or our company). Please keep the purchase certificate and this warranty card and show it before maintenance.

●During the warranty period, the following repairs need to be paid:

- a.Unable to offer valid warranty card or certificate;
- b.The purchase date, sales company and other items are not completely filled or the warranty card is altered;
- c.Damage caused by failure to follow the use methods and precautions in the manual;
- d.Damage caused by disassembly, repair and modification of products without authorization of the manufacturer;
- e.Replacement of vulnerable and consumable parts.

●All items of the warranty card shall be completely filled in by the agent or user to obtain a 12-month warranty period.

●Please keep this warranty card properly It will not be re-offered after.

## Warranty Card

Type: \_\_\_\_\_

Model No.: \_\_\_\_\_

Serial No.: \_\_\_\_\_

Delivery Date: \_\_\_\_\_

## Warranty File Card

Type: \_\_\_\_\_

Model No.: \_\_\_\_\_

Serial No.: \_\_\_\_\_

Delivery Date: \_\_\_\_\_

Address : \_\_\_\_\_

Postcode: \_\_\_\_\_

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Contact Person: \_\_\_\_\_

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