

# IR Preheating Table T-8120

## User Manual



**Tai'an Puhui Technology Co., Ltd.**

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## Product Features:

1. This machine uses highly effective infrared components for heating with advanced PID heat-controlling technology for controlled and precise heating.
2. It can heat PCB boards with or without lead, particularly suited for BGA and SMD.
3. Infrared heating without heated air flowing. This means the heat is easy to pierce and distribute evenly without impacting circumjacent small elements.
4. This machine has a 600 W heating system with a pre heating area of 120x120 mm. It can be used together with the handheld infrared welder T-835.
5. The T-8120 is straightforward to operate through easy training.

## Technical Parameters:

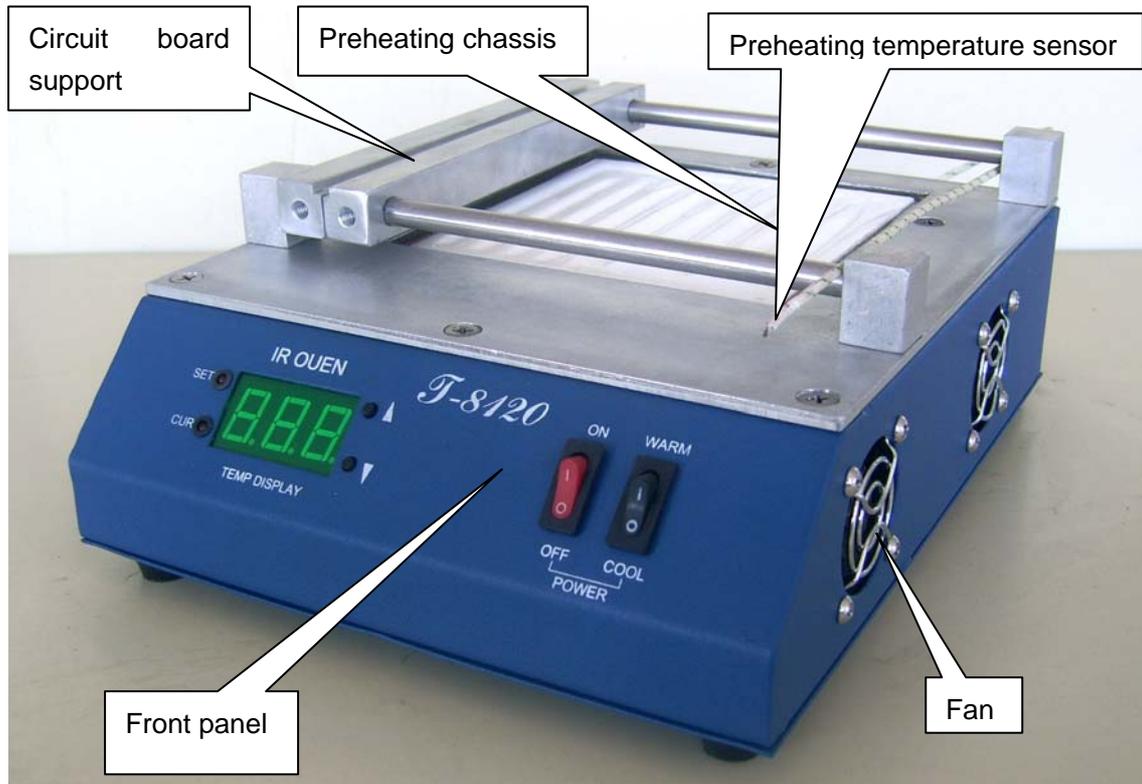
Work floor size	200x240mm
Rated voltage and frequency	AC220-230v/AC110V 60/50Hz
Complete machine power	800W
Preheating chassis power	600W
Preheating chassis size	120x120mm
Preheating chassis temperature adjustable	0-450

## List of content:

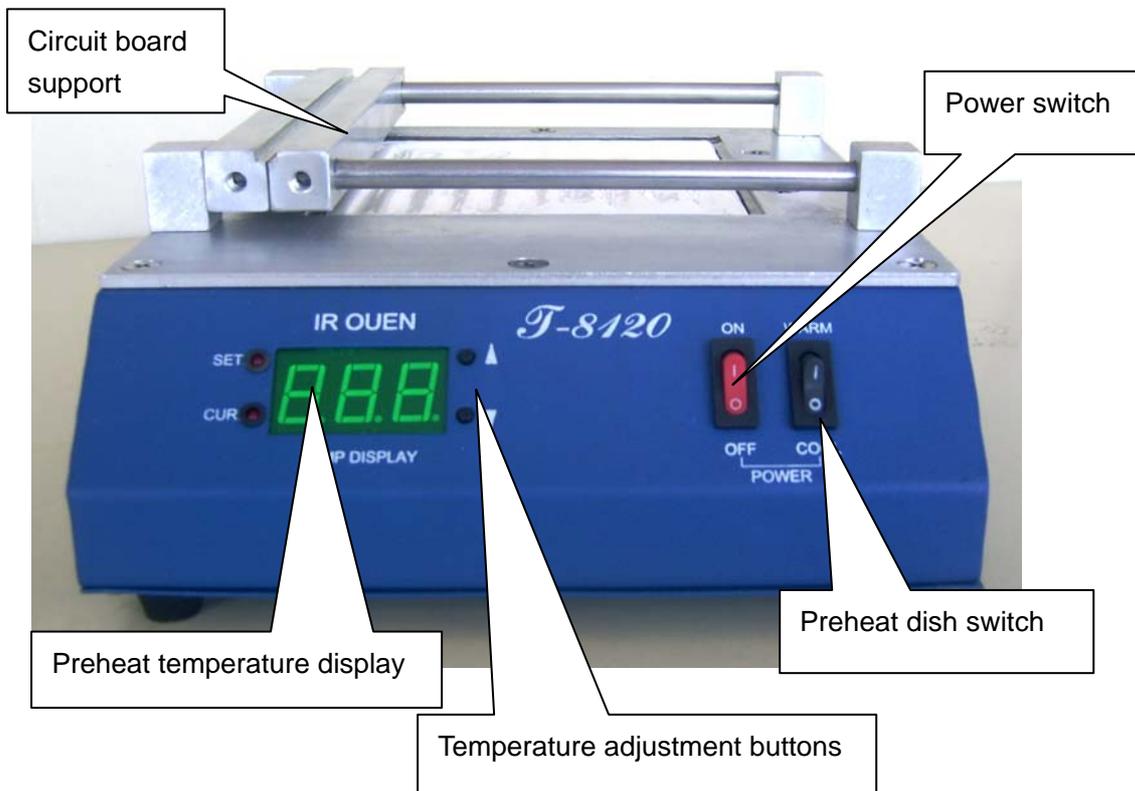
Preheating table main body	1
Temperature sensor	1
Circuit board support	1
Power cord	1
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## Description of main components

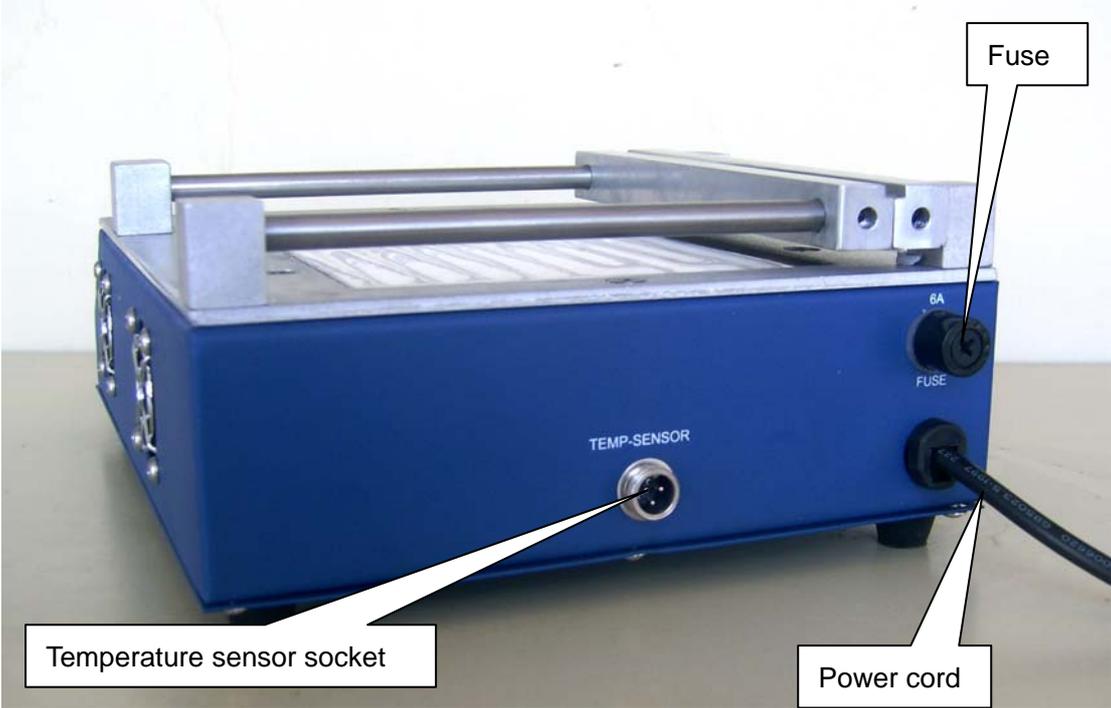
### 1. Preheating table body



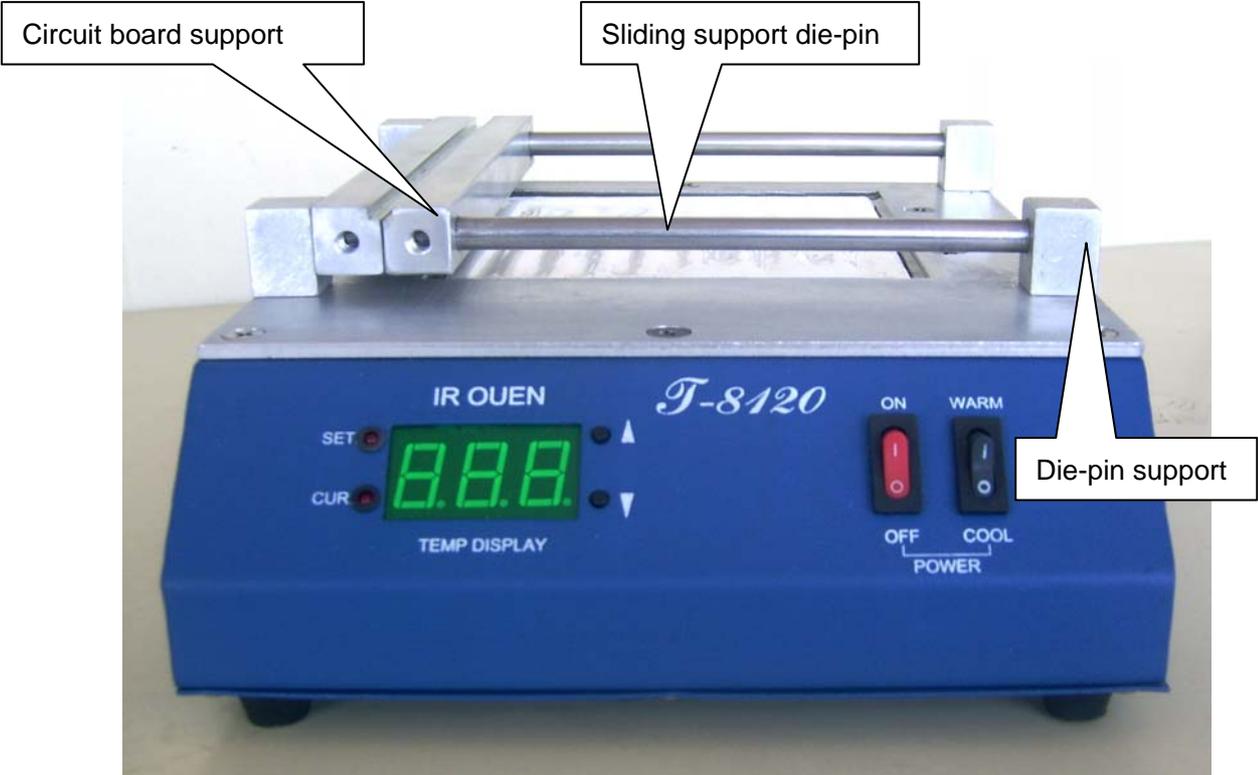
### 2. Front panel



3. Back panel



4. Circuit board (PCB) rack:



## Operating instructions:

### 1. Pre-start check and starting

Check the temperature sensor and the power cord.

Switch on the power. Don't use it until it passes the check (the display shows the indoor temperature).

Set the desired temperature of the pre heating chassis between 0 – 450 ° C with the “▲” and “▼” buttons on the front display. Press the “WARM” button to start heating the chassis and the “COOL” button to cool it down.

### 2. Operation of preheating PCB boards

#### (1) PCB board placement and adjustment

- ① Put the PCB board on the board support, adjust its position according to its size with the support brackets and tighten the screws by hand. Adjust the location of the PCB board according to its Attach the temperature sensor on the PCB board and hold it tightly in place with aluminum foil or adhesive tape
- ② Press the “▲” and “▼” buttons to regulate the proper output temperature between 0 and 450 ° C according to the size of the PCB and the welding requirements.

#### (2) Preheating ON and OFF

- ① Press the “WARM” button for about 3 – 5 minutes until the set temperature is reached and start with the work as described in the previous steps.
- ② After you finished the work, press the “COOL” button to switch off the preheating chassis.

**ATTENTION:** Please let the machine completely cool down before you switch off the power.

(3) General guidelines for setting the correct preheating temperature:

For PCB boards containing lead, set the temperature to 100 to 120 ° C. For boards without lead, set the temperature to about 120 to 140 ° C. The temperature can also be set according to your skills and experience.

**3. Machine installation and adjustment:**

This infrared preheating chassis can operate in two ways, by total pressure flow-through heating system or by PID percentage adjustment.

General recommendations: If the required temperature has to be lower than 250°C, use the PID percentage adjustment method. If the temperature to be used would be higher than 250°C, use the total pressure flow-through heating method.

**Adjustment method:**

1. Press “▲”, power-on, display: C=?
2. Press “▲”, choose 0 or 1, every press will change the status by one time, C = 0 , is PID percentage adjustment, C=1 is switching control.

**Caution!**

1. When finished with your work, don't switch off the power immediately. Allow enough time for the preheating chassis to cool down, before switching the machine off.
2. Keep the ventilation fans clear and the preheating chassis clean.  
Use dehydrated alcohol to clean frequently.
3. Avoid scalding or getting burned – the machine operates at very high temperatures.
4. When the machine is not in use for long periods, please unplug the power cord.

## **Warranty:**

**The complete machine has a warranty period of 1 year from the time of purchase and lifelong service support as well as a long-term factory price supply. We provide online Q/A and troubleshooting support and technical advise service.**

**Reminder: These machines are very heavy, between 8 to 15 kilograms and are not designed to be shipped on airplanes, but in containers that do not move. We are not the shipping company, the airplane crew, the customs agent or the carrier in your country and therefore take no responsibility for damage caused in transit.**

**Corollary: When our machines leave QC, they are tested, 100% new and in perfect condition.**

**These machines consist of modules. Should you receive a faulty or damaged module, we will be happy to replace it. However, we will not replace the complete machine; this is not covered by our warranty.**

**Any of these machines are extremely sensitive to power stability. You need to use professional power source DC benches to plug in these machines. The IRDA heating could burn out or malfunction if you do not have the right power source DC bench machine. DGC is responsible to give proper guidance of the use and installation of the machine; if you don't follow these, it will void the warranty.**

## **Statement**

The images and screenshots in this product manual may vary slightly from the actual purchased product.