



APT 290 (Version: AMOSAPT290OP20231109)

Paraffin Trimmer

Operation Manual

AMOS SCIENTIFIC PTY.LTD. ABN37 159 778 140

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Foreword

Thank you for purchasing our APT290 Paraffin Trimmer. This operation manual introduces product functions, application methods and matters that need attention for safety. Please read in detail before operation to understand its performance and make full use of its functions. If you have any inquiries, please contact us, we are committed to delivering exceptional service whenever you need it.

After reading, please keep this manual properly for later reference.

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1. Safety Matters

- Please read these brief guidelines. Failure to adhere to these instructions may disrupt the equipment's regular operation, lead to equipment damage, or pose safety risks.



Please use 220VAC \pm 10% at 50HZ or 110v \pm 10%, 60Hz AC.



Input power supply must be of good earth connection.



Keep away from any flammable or explosive materials.



Unauthorized equipment access risks high-voltage shock.



Only professional maintenance personnel may perform equipment repairs.



Use fuses with correct capacity.



Ensure the power socket and circuit can withstand at least twice the rated current.



Keep away from potential sources of interference.



Caution: Hot.

- **Electrical Protection Ratings: I class, B type**
- **Shell protection grade: IP53**
- **Baleful liquid Leak-in proof degree: Normal (enclosed equipment without liquid leak-in proof)**
- **Working system: Continuous running**

● Conditions of installation

- 1) Provide at least 20cm of space around the equipment for proper heat dissipation.
- 2) No water drop, steam, dust (including oily and airborne).
- 3) No erosive, flammable and explosive gas and liquid.
- 4) Stable and free from vibration.
- 5) No interference from other electromagnetic signals.
- 6) Operate within ambient temperature of 5°C-40°C and relative humidity under 90%.

● Delivery inspection

The product undergoes rigorous quality inspection before leaving the factory. However, negligence or severe impact during delivery may result in damage or partial loss, please check the followings:

1. Upon unpacking, please inspect the contents, including the equipment, operation manual, packing list, and spare parts.

2. Check the nameplate to verify that it corresponds to your order.
3. Ensure that there is no damage or loss during the delivery process.

2. Application

The Trimmer is crafted from sheet aluminum, in aesthetically pleasing design, contactless temperature control, stable performance, a program control system, and easy, reliable operation. It is mainly used to remove excess paraffin from the outside of tissue cassette after embedding, facilitating better slicing.

3. Technical Parameters

Dimension of tabletop: 150×220mm

Working temperature: from ambient to 90℃

Temperature control accuracy: ±1℃

Nominal supply voltage: 220V±10% at 50Hz

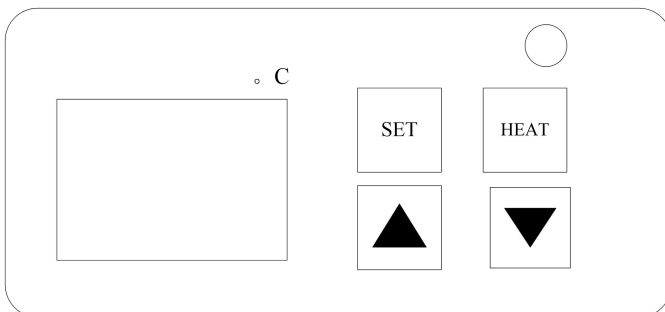
Power : 240W (power of heater: 190W)


Dimensions(W×D×H) : 220×160×175mm




Weight: 2.5kg


4. Operation Guide

●Explanation of keys





SET--- This function is used to set the temperature. Press the button, and the indicator lamp will illuminate, displaying the set temperature value on the LED screen. Adjust the temperature using 

and  buttons, then press  to exit the setting status. Alternatively, the system will automatically exit the setting status if  is not pressed.

---- Pressing this button activates heating, indicated by the red light. Press the button again to deactivate the heating, the indicator light will turn off.

Single buzzing sound indicates the operation is effective.

 ---- Press the key to raise the temperature. A short press increases it by 1 degree, a long press increases it by 0.1, and continuous holding increases it rapidly by 1.

 ---- Press the key to decrease the temperature. A short press decreases it by 1 degree, a long press decreases it by 0.1, and continuous holding decreases it rapidly by 1.

● Instructions

- 1) Before operation, ensure every part of the equipment is in good condition.
- 2) Plug in the equipment, switch on power at the rear, and listen for the buzzer. The LED screen will display the ambient temperature, confirming it is in normal operation.
- 3) You can now operate the machine following the key instructions provided above.

● Alarm Function

Continuous alarm buzzing indicates a machine malfunction.

E01: If, after powering on and heating, the temperature remains unchanged, possible reasons include digital sensor measurement failure or damage to the heating film, solid-state relay, or disconnection.

E02: If the digital sensor registers a temperature exceeding 100 degrees, there may be an issue with the solid-state relay or sensor.

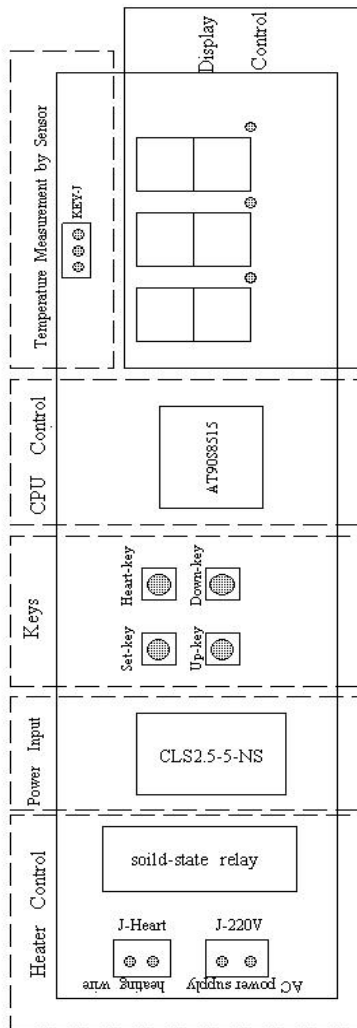
E03: If the digital sensor detects a temperature below -10 degrees, first, eliminate the possibility of ambient temperature causing the issue. If the ambient temperature is within the specified range and the problem persists, it indicates possible damage to the digital sensor with no signal input. In such cases, please replace the sensor with a new one.

Attention: the power supply is AC 220V, the initialized temperature is 65°C

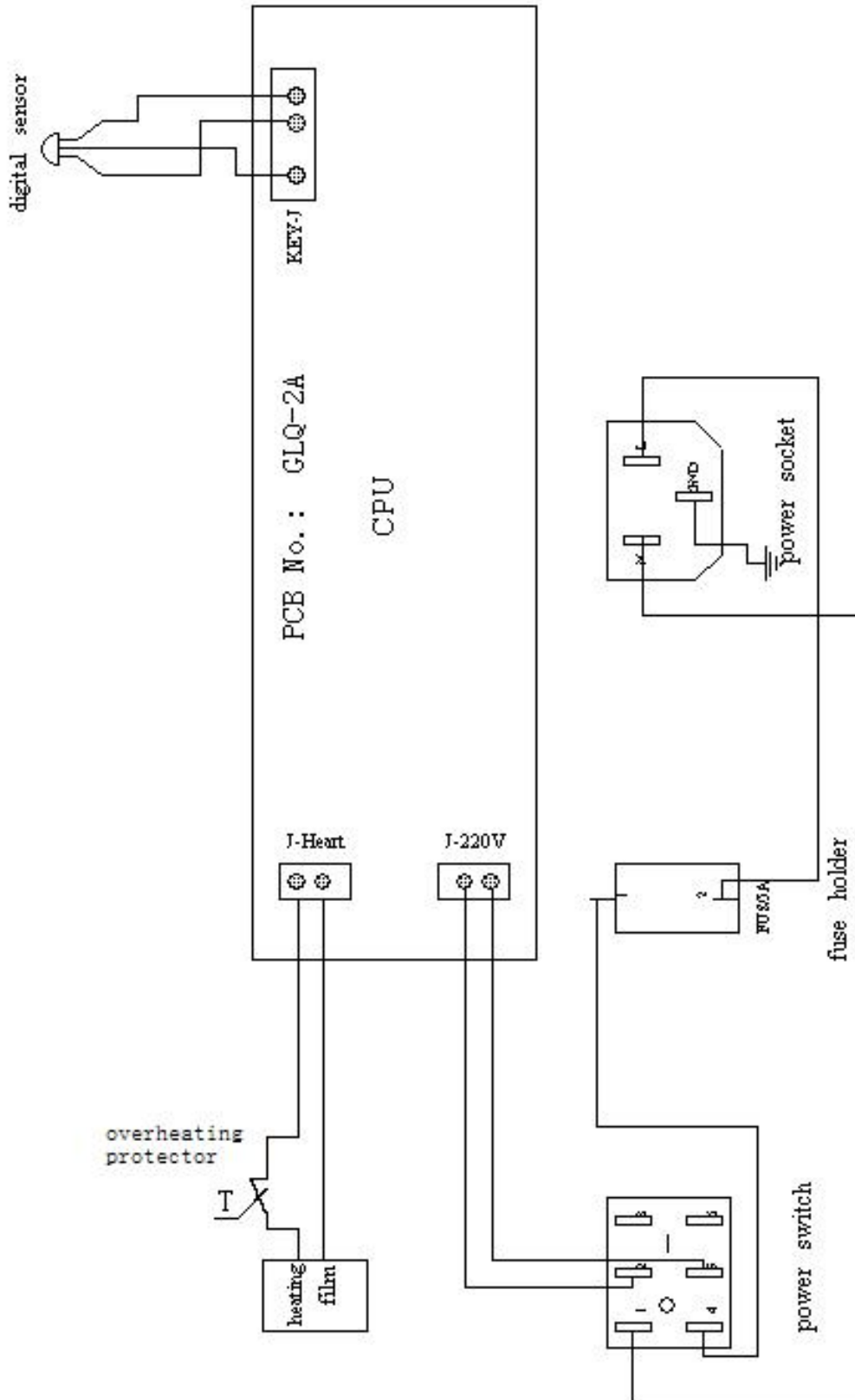
5. Maintenance Manual

- Before operation, carefully read the product operation manual and follow its instructions.
- Keep equipment clean. Clean the residuals and dirt after completing tasks.
- Do not use sharp or hard objects that may damage the worktable.

6. Component Layout



7. Wire Diagram of Electric Equipment



Standard Accessories List

No	Part Name	Qty	Note
1	Paraffin trimmer	1 unit	
2	Power Cord	1PC	
3	Fuse	2 PCS	
4	Operation Manual	1PC	

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