

Hongertem 946C

Hongertem 946C Electronic Hot Plate Preheating Station User Manual

Model: 946C

1. INTRODUCTION

The Hongertem 946C Electronic Hot Plate Preheating Station is a versatile heating device designed for various applications including component heating, SMD rework, PCB disassembly and welding, and other physical or chemical container heating tasks. This manual provides essential information for the safe and efficient operation of your device.

2. SAFETY PRECAUTIONS

To ensure safe operation and prevent damage to the device or injury, please observe the following precautions:

- **Work Surface:** Place the heating station on a smooth, stable, and heat-resistant work platform.
- **Hot Surfaces:** During operation, the heating plate and surrounding areas become extremely hot. Exercise caution to avoid burns or scalds.
- **Object Safety:** Ensure that objects placed on the heating plate are suitable for the set temperature. Excessive temperatures can damage components.
- **Flammable Materials:** Do not use the device near flammable or combustible objects.
- **Cool Down:** Before moving or touching the machine, always cut off the power and allow it to cool completely to room temperature.
- **Power Disconnection:** When not in use, disconnect the power cord to prevent hazards and accidents.
- **Operating Duration:** To prolong the life of the heating element and the machine, avoid continuous operation at high temperatures (above 300 °C) for extended periods. Under normal circumstances, the machine should not operate continuously for more than eight hours.
- **Grounding:** Ensure the machine is properly grounded.
- **Airflow:** Do not allow direct airflow onto the board surface during operation, as this can affect the heating performance.

3. PRODUCT OVERVIEW

Familiarize yourself with the main components of the Hongertem 946C Preheating Station:

Host

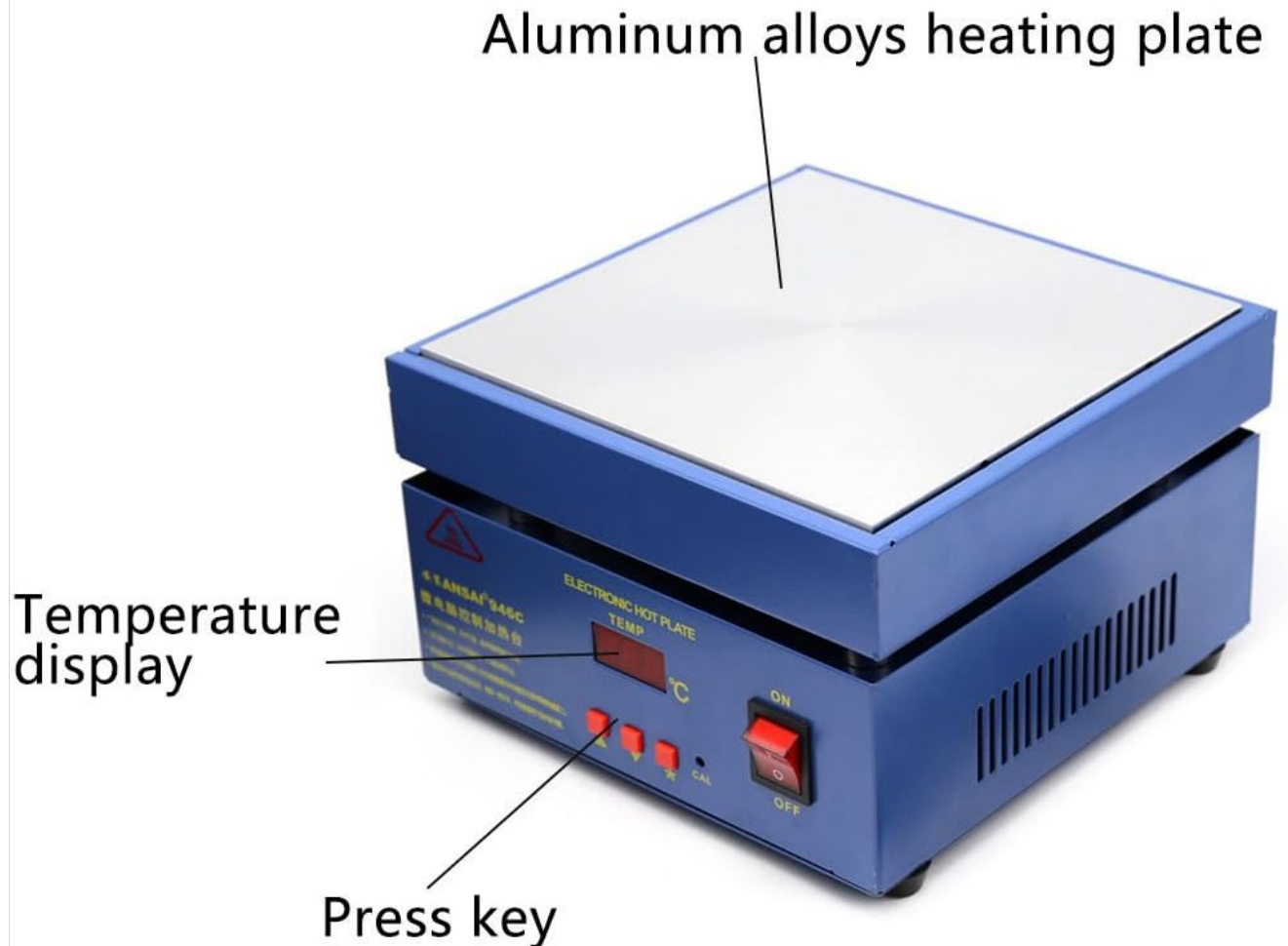


Figure 3.1: Labeled diagram of the Hongertem 946C Preheating Station components. The image highlights the main host unit, the aluminum alloy heating plate on top, the digital temperature display, and the control press keys below the display.

- **Host Unit:** The main body of the preheating station, housing the electronics and heating elements.
- **Aluminum Alloy Heating Plate:** The top surface where objects are placed for heating.
- **Temperature Display:** A digital display showing the current and set temperature in Celsius.
- **Press Keys:** Buttons for adjusting temperature and other settings.
- **Power Switch (ON/OFF):** Located on the front panel, used to power the unit on or off.
- **CAL Button:** Used for temperature calibration.
- **Power Input:** Located on the rear panel, for connecting the power cord.



Figure 3.2: Front view of the preheating station, illustrating the control panel with the digital display and buttons.



Figure 3.3: Rear view of the preheating station, highlighting the power input and voltage specification.

4. SPECIFICATIONS

Feature	Specification
Model	946C
Supply Voltage	110V AC (50/60Hz)
Heating Body Power	800W
Temperature Range	50 °C ~ 350 °C
Temperature Display	Digital (3-digit, 1 °C resolution)
Temperature Stability	± 1.5 °C
Heating Panel Size	200 x 200 mm
Brand	Hongertem
UPC	661021345152

5. SETUP

Follow these steps to set up your preheating station:

1. **Unpacking:** Carefully remove the preheating station from its packaging. Inspect for any signs of damage.
2. **Placement:** Place the unit on a flat, stable, and heat-resistant surface, ensuring adequate clearance for ventilation around the sides and rear.
3. **Power Connection:** Connect the power cord to the power input socket on the rear of the unit. Ensure the

power outlet is properly grounded and matches the specified voltage (110V AC).

4. **Initial Check:** Before powering on, ensure no foreign objects are on the heating plate.

6. OPERATING INSTRUCTIONS

This section details the basic operation of the 946C Preheating Station.

6.1 Powering On/Off

- To power on the unit, flip the red ON/OFF switch to the 'ON' position. The digital display will illuminate.
- To power off, flip the switch to the 'OFF' position. Allow the unit to cool down completely before disconnecting power or moving.

6.2 Setting Temperature

Use the ▲ (Up) and ▼ (Down) arrow keys located below the display to adjust the desired temperature. The temperature range is 50 °C to 350 °C. The display will show the set temperature, and then gradually switch to show the current temperature as it heats up.

6.3 Temperature Calibration

If temperature accuracy is critical, the unit can be calibrated. Press the 'CAL' button to enter calibration mode. Refer to a precise external thermometer to adjust the displayed temperature using the ▲ and ▼ keys until it matches the external reading. Press 'CAL' again to save and exit calibration mode.

6.4 Typical Applications

- **Component Heating:** For preheating electronic components before soldering or rework.
- **SMD Rework:** Provides a stable, even heat for surface-mount device rework.
- **PCB Disassembly and Welding:** Facilitates easier removal and attachment of components on printed circuit boards.
- **Physical and Chemical Container Heating:** Suitable for laboratory or industrial applications requiring controlled heating of containers.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your preheating station:

- **Cleaning:** Always ensure the unit is powered off and completely cooled before cleaning. Use a soft, damp cloth to wipe the heating plate and exterior. Do not use abrasive cleaners or solvents.
- **Storage:** Store the unit in a dry, dust-free environment when not in use.
- **Ventilation:** Keep the ventilation slots clear of obstructions to prevent overheating.
- **Power Cord:** Regularly inspect the power cord for any signs of damage. Replace if necessary.

8. TROUBLESHOOTING

If you encounter issues with your preheating station, refer to the following common troubleshooting steps:

- **Unit Does Not Power On:**
 - Check if the power cord is securely plugged into both the unit and the wall outlet.

- Verify that the power outlet is functional.
- Ensure the ON/OFF switch is in the 'ON' position.

- **Heating Plate Not Heating:**

- Confirm the unit is powered on and the temperature is set above the ambient temperature.
- Check if the heating element is damaged (though this typically requires professional inspection).

- **Inaccurate Temperature Reading:**

- Perform a temperature calibration as described in Section 6.3.
- Ensure no direct airflow is affecting the heating plate.

For issues not resolved by these steps, please contact customer support.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question