SOLDERING STATION
ESD-SAFE AND TEMPERATURE CONTROLLED

OPERATION INSTRUCTION

English

Made in China

SPECIFICATION

Control unit dimensions	L305xW60xH60mm ±5mm
Operating ambient temperature	0°C～40°C/32°F～104°F
Display	LED Nixie Tubes
Temperature range	100°C~480°C/212 °F~896°F
Airflow type	Roots-type blower
Air volume	≤120L/min

II. PART LIST

1. Stand
2. Temperature Adjustment Buttons
3. Temperature Display
4. Power Switch
5. Air Volume Adjustment Knob

I. APPLICATION

1. *This unit is suitable for desoldering & soldering operations on a broad range of components. E.g., SOIC, CHIP, QFP, PLCC, BGA, SMD, and more. The unit is especially suited for desoldering operations on in-line sockets.*

2. *You can use this unit for heat shrinking, drying, paint removal, glue removal, defrosting, pre-heating, glue soldering, and more.*
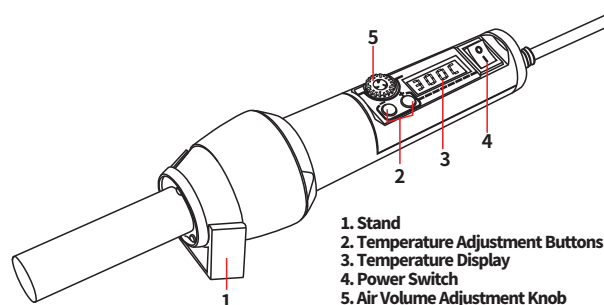
III. OPERATION

1. Ensure the hot air gun's stand is installed, and place the gun onto a workbench via the stand.

2. Install the required nozzle (Use of nozzles in larger diameters is recommended). Connect the hot air gun's power cord to an electrical outlet.

3. Turn ON the power switch, and the display will show the set temperature. Press the temperature adjustment buttons to set the required temperature. (Each press will change the temperature value by 1°C, press and hold the button to change the value quickly). The hot air gun will begin operating a few seconds after setting the temperature. Adjust the air volume knob to set the gun to your desired volume. Begin operation when the temperature stabilizes.

4. Once the operation is complete, turn OFF the power switch, and the hot air gun will then enter cooling mode. Wait for the cooling process to be complete, and the blower motor to stop operation before DISCONNECTING the power plug from the electrical socket.

°F/°C Temperature Display

This function complies with different user preferences for users in different regions.

1. Turn OFF the power switch, and connect the gun's power cord to an electrical outlet. Press and hold both the temperature increase and decrease buttons for 2 seconds, and the display will blink with 'C'.

2. Press the temperature increase or decrease button to select the Fahrenheit or Celsius display mode.

3. Stop operating for approximately 4 seconds, the system will automatically save the setting and exit the setting interface – setting complete.

Digital Temperature Calibration

Temperature discrepancies may occur due to the change in the environment's temperature, or the replacement of the heating element and other components. You can correct the discrepancies with this function. The temperature calibration function can improve work efficiency and prolong the lifespan of the heating element.

1. Connect the gun's power cord to an electrical outlet, and turn ON the power switch. The hot air gun's heating element will begin heating up as per normal. Once the temperature has stabilized, measure the hot air temperature.

2. Press and hold both the temperature increase and decrease buttons for approximately 2 seconds. The digit-dot at the bottom-right corner of the screen will turn ON, and the displayed temperature will blink as illustrated in the graph below.
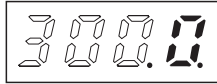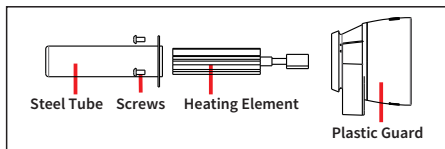
3. Press the temperature increase or decrease buttons to enter the measured temperature value, then, press and hold both the temperature increase and decrease buttons for approximately 2 seconds to confirm entry. The system will automatically save the setting and exit the setting interface – setting complete.

IV. MAINTENANCE & PRECAUTIONS

1. Keep the air outlet clear and free of blockages at all times.

2. The installation of the hot air gun nozzles MUST be carried out ONLY when the steel pipe and nozzle have cooled. Install the nozzle correctly, DO NOT install the nozzle with brute force, pull the edge of the nozzle with tweezers, or over-tighten the screws.

3. Select the appropriate nozzle based on your operation requirement (temperature may vary when you use nozzles in different diameters). When using nozzles smaller than the standard machine nozzles, you MUST use the maximum air volume with a relatively lower temperature setting. Complete this operation in the shortest possible duration to avoid damaging the hot air gun.

4. Keep a minimum distance of 2mm between the subject and the hot air gun's air outlet.

5. DO NOT allow the hot air to come in direct contact with facial parts, and beware of the danger of burn injuries. Upon the first use, the hot air gun may emit white fumes, and the white fume will dissipate in a short while.

NOTE:
The station's hot air gun uses high-strength stainless steel tubes. The station goes through 4 times or more testing, inspection, and calibration procedures before rolling off the assembly line. The steel tube may exhibit light bronze color as a result of our quality control efforts. It is normal to have a slightly bronzed steel tube when you use a brand-new station, rest assured for regular usage.

V. TROUBLESHOOTING

1. The display shows ONLY the digit-dot: This is an indication that the hot air gun is in the standby mode, DISCONNECT the power cord when the gun is not in use for an extended period.

2. The display show 'S-E': This is an indication that the hot air gun is detecting a fault in the sensor modules. To resolve this issue, you need to replace the heating element. (Heating Element & Sensor Modules)

3. The displayed temperature is lower than 100°C/212°F, and the operation indicator is ON but the hot air gun is not heating up: This is an indication that the heating element is faulty. To resolve this issue, you need to replace the heating element.

4. To replace the heating element:

   1. Loosen the 3 screws securing the steel tube.
   2. Remove the steel tube, then DISCONNECT the grounding wire from the steel tube.
   3. Extract the heating element.
   4. Replace it with a new heating element.
   5. Wrap the heating element with the MICA paper.
   6. Install the steel tube, then connect the grounding wire.
   7. Tighten the screws.

Steel Tube   Screws   Heating Element

Plastic Guard

Reference: Replacing the heating element

Nozzle style（specifications and sizes）

The nozzles sizes match with their corresponding IC sizes.