High-Power Hot Air Rework Station

OPERATION INSTRUCTION

English

Made in China

Thank you for purchasing this product. Please read the manual carefully before operating and keep this manual for future reference.

Statement: The company reserves the right to improve & upgrade products, product specifications and design are subject to change without notice.

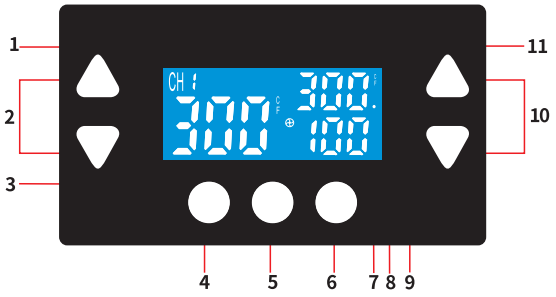
SPECIFICATION

Control unit dimensions	L278xW205xH165mm ±5mm
Operating ambient temperature	0°C～40°C/32°F～104°F
Airflow type	Compressor Motor
Airspeed	2m/s ~ 7m/s (measured with a nozzle diameter of 6mm)
Temperature range	100°C～500°C/212°F～932°F
Display	LCD

I. APPLICATION

1. ***Suitable for rework and desoldering applications on SOIC, CHIP, QFP, PLCC, BGA components, and more.***
2. ***Suitable for heat shrinking, drying, paint removal, adhesive removal, de-frosting, preheating, sterilizing purposes.***
3. ***Suitable for applications where different air volumes and thermal requirements are needed.***
4. ***Suitable for Lead-Free desoldering and rework applications.***

II. PART LIST



1. **Preset Channel Indicator**
2. **Temperature / Data Increase and Decrease Button**
3. **Set Temperature**
4. **Preset Channel 1 / Digital Temperature Calibration Button**
5. **Preset Channel 2 Button**
6. **Preset Channel 3 / °F or °C Temperature Unit Conversion Button**
7. **Simulated Air Volume**
8. **Operation Indicator Light**
9. **Actual Temperature**
10. **Air Volume Increase/decrease Button**
11. **°F or °C Mode Indicator (Only the selected mode will be displayed)**

III. OPERATION

Hot Air Rework Station

1. Set the hot air rework station correctly, and place the hot air gun onto the holder.
2. Install the nozzle of the desired diameter (use of large diameter nozzles is recommended), and then connect the station's power cord to an electrical outlet.
3. Turn ON the master power switch located at the rear of the station, then turn ON the hot air gun's power switch. The hot air temperature display will show "---" to indicate the station in standby mode. Press the temperature increase or decrease button to set the desired temperature, and pick up the hot air gun. The hot air gun will enter the standard operation status, and its operation indicator (the dot located at the bottom-right corner of the display) will turn ON. The indicator stays ON when the hot air gun heating, blink rapidly when the temperature stabilizes, turns OFF when the hot air gun cooling. Adjust the air volume adjustment knob to select the desired air volume. Begin operation once the temperature has stabilized. The rapidly blinking indicator light indicates the temperature stabilization of the hot air gun, the PID program is tracking and compensating the actual hot air gun temperature in milliseconds – The hot air gun is now in high stability & high precision thermostatic state.

Program real-time tracking & temperature compensation indicator

4. Once the operation has been complete, the hot air gun must be returned to the holder. The hot air gun operation indicator light will turn OFF, and enter the heating element cooling mode. When the temperature is cooled below 100°C / 212°F, the hot air temperature display will turn OFF. Turn OFF the station's master power switch and DISCONNECT the power plug when the station is not in use for an extended period.

Digital Temperature Calibration

Temperature discrepancies may occur due to the change in the environment's temperature or due to 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 extend the lifespan of the heating element.

1. Turn ON the power switch, and set the temperature that requires calibration. We recommend setting the temperature at 300°C / 572°F, and adjust the air volume to maximum.
2. Start up the hot air gun, and place the hot air gun onto the appropriate thermometer to measure the actual temperature. Once the temperature has stabilized, press and hold the CH1 button for approximately 3 seconds. The display will show value as per the graph below, and the station will enter the calibration interface.

3. Press the temperature / data increase and decrease buttons to enter the measured temperature value, and press CH1 to confirm. The system will automatically calibrate, save temperature value and exit the calibration interface.

NOTE: Should minor temperature discrepancy persist, repeat the calibration procedure.

°F / °C Temperature Display

This function allows the station to adapt to user preferences in different regions.

1. Turn ON the power switch.
2. Press and hold the CH3 button for approximately 3 seconds, and the display will show value as per the graph below.
3. Press the temperature/data increase or decrease button to select either the Fahrenheit or Celsius temperature display mode. Press CH3 to confirm the selection, and the system will automatically save the setting and exit the setting interface – setting complete.

Cool / Hot / Standby Function (One Press Quick-Access)

While holding the hot air gun in hand, click the switch on the hot air gun to switch between cool or hot air modes. Press and hold the switch for approximately 2 seconds, and the hot air gun will begin cooling. The hot air gun will eventually go into standby mode. (The display will show '═══' or '- - -' to indicate the specific status).

IV. MAINTENANCE & PRECAUTIONS

1. Keep the air outlet clear and free of any blockages.
2. Install the nozzles ONLY when the steel tube and nozzles cool off. Install the nozzles correctly, and DO NOT install the nozzles with brute force or pull the edge of the nozzle with pliers. DO NOT over-tighten the installation screws.
3. Select the appropriate nozzle size based on the operation requirement(temperatures may vary when using nozzles in different diameters). When using nozzles smaller than the stock nozzles, you MUST use the maximum air volume with a relatively lower temperature setting. Complete this operation in the shortest duration possible to prevent damaging the hot air gun.
4. Keep a minimum distance of 2mm between the object 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. On first use, the hot air gun may generate white fumes that will dissipate shortly.

Note
The station's hot air gun and soldering iron handles use 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 using a brand-new station; Rest assured for regular usage.

V. TROUBLESHOOTING

The system will prompt error codes when faults are detected, and it will beep to alert the user until the power is DISCONNECTED. E.g., If the below error codes are prompted, users can troubleshoot when guided by the instructions below.

1. "S-E" – This is an indication that the station's sensor module is faulty. To resolve this, you need to replace the heating element (the heating element and sensor modules).
2. "H-E" – This is an indication that the heating element is faulty. To resolve this, you need to replace the heating element (the heating element and sensor modules).
3. "ERR" – This is an indication that the electric motor or the motor's power circuitry is faulty ; Please check the motor and its power circuitry.