

857DW+

Quick 857DW+ SMD Rework Station Hot Air Gun User Manual

Model: 857DW+

1. INTRODUCTION

The Quick 857DW+ is a high-performance SMD rework station featuring a hot air gun, designed for precise desoldering and soldering of various electronic components. It incorporates a microcomputer for temperature control, an LED digital display, and a brushless fan for soft, adjustable airflow. This manual provides essential information for the safe and effective operation, setup, maintenance, and troubleshooting of your device.

2. IMPORTANT SAFETY INSTRUCTIONS

Read all instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always operate the hot air gun in a well-ventilated area to avoid inhaling fumes.
- The nozzle and heated air can reach very high temperatures (up to 500°C). Avoid direct contact with skin or flammable materials.
- Do not point the hot air gun at people, animals, or heat-sensitive objects.
- Ensure the power cord is not damaged and is properly grounded.
- Unplug the unit from the power outlet when not in use or before performing any maintenance.
- Allow the unit to cool down completely before storing it.
- Keep the work area clean and free of clutter.
- Do not use the device near liquids or in damp conditions.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

3. PACKAGE CONTENTS

Carefully unpack the box and ensure all items are present and undamaged. If any items are missing or damaged, contact your supplier immediately.

- Quick 857DW+ Main Rework Station Unit
- Hot Air Gun Handle
- Hot Air Gun Stand
- Assorted Nozzles (typically 3-4 different sizes)
- Heating Element (replacement)
- Power Cord

4. PRODUCT OVERVIEW

The Quick 857DW+ rework station consists of a main control unit and a hot air gun handle. The main unit features controls for temperature and airflow, along with a digital display for precise monitoring.



Quick 857DW+ SMD Rework Station main unit with digital LED temperature display, air control knob, temperature control knob, power switch, and the connected hot air gun handle.



Assortment of hot air nozzles and a replacement heating element for the Quick 857DW+ SMD Rework Station.

Main Unit Features:

- **LED Digital Display:** Shows real-time temperature with 1°C resolution.
- **Air Control Knob:** Adjusts the airflow rate (up to 120 liters/minute).
- **Temperature Control Knob:** Sets the desired temperature (100°C - 500°C).
- **Power Switch:** Turns the unit on or off.

Hot Air Gun Handle:

- **Induction Switch:** Automatically activates the working mode when picked up and enters standby when placed in the holder.
- **Brushless Fan:** Provides soft, consistent airflow with low noise and long lifespan.
- **High-Quality Heating Element:** Ensures rapid heating and stable temperature.

5. SPECIFICATIONS

Parameter	Value
Model	Quick 857DW+
Power Consumption	700 Watts
Voltage	220V/50HZ (also supports 110V-240V)
Airflow Type	Brushless fan soft wind
Gas Flow Rate	120 liters/minute
Temperature Control Range	100°C - 500°C

Parameter	Value
Display Form	LED Digital (resolution 1°C)
Handle Component Length	120 cm
Noise	Less than 45 dB
Display Type	LED digital
Temperature Stability	100 degrees_celsius (range)
Number of Channels	1

6. SETUP

Follow these steps to set up your Quick 857DW+ rework station:

1. **Unpack:** Carefully remove all components from the packaging.
2. **Placement:** Place the main rework station unit on a stable, heat-resistant, and level surface in a well-ventilated area.
3. **Connect Hot Air Gun:** Securely connect the hot air gun handle cable to the designated port on the main unit.
4. **Install Nozzle:** Select the appropriate nozzle for your application and attach it firmly to the hot air gun handle.
5. **Position Holder:** Place the hot air gun handle in its designated holder on the side of the unit.
6. **Connect Power:** Plug the power cord into the main unit and then into a suitable grounded electrical outlet.

7. OPERATING INSTRUCTIONS

The Quick 857DW+ is designed for user-friendly operation. Familiarize yourself with the controls before beginning work.

1. **Power On:** Flip the POWER switch to the 'ON' position. The LED display will illuminate, showing the current temperature.
2. **Adjust Temperature:** Use the 'TEMP CONTROL' knob to set the desired temperature. The digital display will show the set temperature, and then gradually rise to meet it.
3. **Adjust Airflow:** Use the 'AIR CONTROL' knob to adjust the airflow rate. Start with a lower setting and increase as needed for your application.
4. **Begin Operation:** Pick up the hot air gun handle from its holder. The induction switch will detect this, and the unit will quickly enter working mode, heating to the set temperature and starting airflow.
5. **Working Applications:** This station is suitable for desoldering various components such as SOIC, CHIP, QFP, PLCC, and BGA (especially for mobile phone lines). It can also be used for heat shrinking, drying, paint removal, glue removal, thawing, preheating, and welding tasks.
6. **Standby Mode:** When you place the hot air gun handle back into its holder, the induction switch will activate standby mode. The system will automatically cool down the heating element with air before turning off the fan, prolonging the life of the heating element.
7. **Power Off:** After use, ensure the hot air gun is in its holder and has cooled down. Then, flip the POWER

switch to the 'OFF' position and unplug the unit from the power outlet.

8. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your rework station.

- **Clean Nozzles:** Periodically clean the nozzles to prevent blockages from flux residue or solder. Use a soft brush or non-abrasive tool.
- **Inspect Heating Element:** Check the heating element for any signs of damage or wear. Replace if necessary (refer to the replacement heating element included in the package).
- **Keep Air Vents Clear:** Ensure the air intake and exhaust vents on the main unit are free from dust and debris to maintain proper airflow and cooling.
- **Clean Unit:** Wipe the exterior of the unit with a soft, dry cloth. Do not use harsh chemicals or solvents.
- **Storage:** Store the rework station in a dry, dust-free environment when not in use.

9. TROUBLESHOOTING

If you encounter issues with your Quick 857DW+ rework station, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on	No power supply; Power cord loose; Power switch off	Check power outlet; Ensure power cord is securely plugged in; Turn power switch to 'ON'
No heat from hot air gun	Heating element failure; Temperature set too low; Handle not picked up (in standby)	Replace heating element; Increase temperature setting; Pick up handle from holder
Insufficient or no airflow	Air control knob set too low; Fan blockage; Nozzle blockage	Increase air control setting; Clear air vents; Clean or replace nozzle
Temperature unstable	Sensor issue; Drafts in work area; Heating element wear	Ensure stable environment; Inspect sensor connection; Consider replacing heating element

10. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms, duration, and conditions, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support, spare parts, or service inquiries, please contact the vendor or manufacturer directly through their official support channels.

