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Sumsour 8898

Sumsour 8898 Soldering Station: 2-in-1 Hot Air Rework & Soldering Iron User Manual

This manual provides detailed instructions for the safe and efficient operation of your Sumsour 8898 Soldering Station. Please read thoroughly before use.

1. Important Safety Information

Always observe basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and personal injury. Failure to follow these instructions may result in serious injury or damage to the equipment.

- Use the soldering station in a well-ventilated area. Soldering fumes can be harmful if inhaled.
- Wear appropriate personal protective equipment, including safety glasses, to protect against splashes and hot debris.
- Do not touch the hot air gun nozzle or soldering iron tip when hot. These components reach very high temperatures and can cause severe burns.
- Ensure the power cord is undamaged and properly grounded. Do not use if the cord is frayed or damaged.
- Keep the soldering station and its components out of reach of children and unauthorized personnel.
- Disconnect the unit from the power supply when not in use, before cleaning, or before performing any maintenance.
- Do not operate the soldering station near flammable materials, liquids, or gases.
- The unit operates at high temperatures; allow adequate cooling time for all components before storage.
- Only use genuine replacement parts and accessories recommended by Sumsour.

2. Product Overview and Features

The Sumsour 8898 is a versatile 2-in-1 soldering station designed for both hot air rework and traditional soldering tasks. It integrates advanced microcomputer control for rapid heating and PID technology for precise and stable temperature regulation, making it suitable for a wide range of electronic repair and assembly applications.

Key Features:

- Microcomputer control for quick warming-up, reducing waiting time.
- PID technology to enhance temperature stability, ensuring consistent performance.
- Easy adjustment of airflow and temperature control via rotation knobs and buttons.
- Intelligent self-detection function for safe personal operation, alerting to potential issues.
- Automatic rotation stop when the hot air gun temperature is less than 70°C, enhancing safety and energy efficiency.
- Handle with sensor switch features access operating mode when picked up or standby mode when laid down, extending component life.
- Automatic cooling function for effectively prolonging the heater's life and protecting the hot air gun.
- ESD (Electrostatic Discharge) design of the soldering iron to protect sensitive electronic components.
- International standard heater for convenient use and exchange, ensuring broad compatibility.

Included Components:

- 1 x Sumsour 8898 Soldering Station Main Unit
- 1 x Hot Air Gun
- 1 x Soldering Iron
- 1 x Solder Wire
- 1 x Tweezers
- 1 x Hot Air Gun Holder
- 1 x Soldering Iron Stand
- 1 x Power Cord

3. Product Diagram

Familiarize yourself with the components and controls of the 8898 Soldering Station for optimal use.



Figure 1: Front panel controls and indicators. This image highlights the Airflow heating indicator, Iron temperature display, Iron heating indicator, Soldering iron temperature adjustment buttons (- and +), Airflow/Temperature switch, and Airflow temperature adjustment buttons (- and +).



Figure 2: Dimensions of the Sumsour 8898 Soldering Station base unit, showing approximate measurements of 13.7 cm (5.4 inches) in width and 8.5 cm (3.3 inches) in height.



Figure 3: A user holding the hot air gun, demonstrating its ergonomic design and connection to the main unit. This illustrates how the

tool is handled during operation.



Figure 4: Rear view of the soldering station, clearly showing the power input socket for connecting the main power cord.

4. Setup Instructions

Follow these steps to set up your Sumsour 8898 Soldering Station before initial use.

1. Unpack all components from the packaging and inspect them for any signs of damage during transit.
2. Place the soldering station main unit on a stable, flat, and heat-resistant surface. Ensure there is adequate space around the unit for ventilation.
3. Connect the hot air gun cable to the designated**"REWORK"** port on the front panel of the main unit. Ensure the connection is secure.
4. Connect the soldering iron cable to the designated**"SOLDER"** port on the front panel of the main unit. Ensure the connection is secure.
5. Place the hot air gun securely in its dedicated holder when not in active use. This holder is designed to safely store the hot air gun and activate its standby mode.
6. Place the soldering iron in its stand.
7. Connect the power cord to the station's rear input socket, then plug the other end into a grounded electrical outlet.

5. Operating Instructions

5.1 General Operation

1. Turn on the main power switch located on the front panel of the station.
2. The LCD displays for both the soldering iron and hot air gun will illuminate, showing their current temperature settings.
3. Use the **'SET'** button to toggle between adjusting the temperature and airflow for the hot air gun, or to select the soldering iron for temperature adjustment.
4. Use the **'+'** and **'-'** buttons to increase or decrease the desired temperature or airflow level.

5.2 Using the Soldering Iron

1. Ensure the soldering iron is connected to the station. If necessary, use the **'SET'** button to select the soldering iron function.
2. Adjust the soldering iron temperature using the **'+'** and **'-'** buttons. A recommended temperature range for most general soldering tasks is 300-400°C.
3. Allow the iron to reach the set temperature. The "Iron heating indicator" on the display will show activity during heating.
4. Before soldering, clean the electronic components and the soldering iron tip.
5. Apply a small amount of solder to the heated iron tip (tinning) to prevent oxidation and improve heat transfer.
6. Proceed with your soldering repair work.
7. After use, return the soldering iron to its stand and allow it to cool completely before storage.

5.3 Using the Hot Air Gun

1. Ensure the hot air gun is connected to the station. Select the hot air gun function using the **'SET'** button if needed.
2. Adjust the desired temperature and airflow using the **'+'** and **'-'** buttons. The "Airflow heating indicator" will show activity during heating.
3. When the hot air gun handle is picked up from its holder, the system will automatically enter operating mode and begin heating to the set temperature and airflow.
4. Direct the hot air stream onto the component to be reworked, maintaining a safe distance to avoid damage.
5. When the hot air gun handle is returned to its holder, the system will automatically enter standby mode and initiate an automatic cooling process to prolong the heater's life.

6. Maintenance

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

- **Soldering Iron Tip Cleaning:** Regularly clean the soldering iron tip with a damp sponge or brass wool to remove excess solder and oxidation. Re-tin the tip after cleaning to prevent further oxidation.
- **Hot Air Gun Nozzle:** Ensure the hot air gun nozzle is clear of any debris or blockages. Clean gently if necessary, only when the unit is cool and unplugged.
- **Connections:** Periodically check all cable connections (power, hot air gun, soldering iron) for tightness and signs of wear or damage.

- **Storage:** Store the unit in a dry, dust-free environment when not in use. Protect it from extreme temperatures and humidity.
- **Cleaning the Unit:** Do not use abrasive cleaners, solvents, or harsh chemicals on the unit's housing. Wipe with a soft, damp cloth if needed. Ensure the unit is unplugged before cleaning.

7. Troubleshooting

This section addresses common issues you might encounter with your Sumsour 8898 Soldering Station.

7.1 Common Issues and Solutions

Problem	Possible Cause	Solution
Unit does not power on.	Power cord not connected; main power switch off; faulty electrical outlet.	Check power cord connection to both the unit and the wall outlet; ensure the main power switch is in the 'ON' position; test the outlet with another device.
Soldering iron not heating.	Incorrect temperature setting; loose connection; faulty heating element or tip.	Verify the temperature setting on the display; check the soldering iron's connection to the station; inspect the tip for damage or excessive oxidation. Replace tip if necessary.
Hot air gun not blowing or heating.	Hot air gun handle not picked up from holder; incorrect temperature/airflow settings; blocked nozzle.	Ensure the hot air gun handle is off the stand to activate operation; check and adjust temperature/airflow settings; clear any obstructions from the nozzle (when cool).
Temperature unstable or fluctuating.	Environmental factors (drafts); sensor issue; worn heating element.	Ensure the working environment is stable and free from strong drafts; if the problem persists, contact customer support.
Automatic cooling not activating for hot air gun.	Hot air gun handle not properly seated in its holder.	Ensure the hot air gun handle is fully and correctly seated in its designated holder.
Solder not melting properly.	Insufficient temperature; oxidized soldering iron tip; incorrect solder type.	Increase the soldering iron temperature; clean and re-tin the tip; ensure you are using solder appropriate for the application.
Hot air gun airflow weak.	Airflow setting too low; internal blockage or fan issue.	Increase the airflow setting using the control buttons; check for and clear any external blockages around the air intake or nozzle.

8. Technical Specifications

Detailed technical specifications for the Sumsour 8898 Soldering Station.

Feature	Specification
Model	8898
Brand	Sumsour
Power Source	AC/DC
Voltage	110 Volts
Wattage	700 watts
Display Type	LCD or LED
Product Dimensions (L x W x H)	25.4 x 15.2 x 10.2 Centimetres
Item Weight	1 Kilogram
Hot Air Gun Temperature Range	100°C ~ 480°C
Hot Air Gun Air Flow	120L/min (max)
Soldering Iron Temperature Range	180°C - 500°C
Temperature Stability (Soldering Iron)	±1°C
Temperature Stability (Hot Air Gun)	±2°C
UPC	666945374844

9. Warranty and Support

For specific warranty information and technical support, please refer to the documentation provided with your purchase or contact Sumsour customer service directly. It is recommended to keep your purchase receipt as proof of purchase for any warranty claims.

Manufacturer: Sumsour

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Return Policy: 30 days (refund/replacement)

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