

## YIHUA 948DQ-II

# YIHUA 948DQ-II Soldering Station with Fume Extractor User Manual

Model: 948DQ-II | Brand: YIHUA

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## 1. SAFETY INSTRUCTIONS

Please read all safety instructions carefully before operating the YIHUA 948DQ-II Soldering Station with Fume Extractor. Failure to follow these instructions may result in electric shock, fire, or personal injury.

- **Electrical Safety:** Ensure the unit is connected to a properly grounded 110-127V AC power outlet. Do not operate with wet hands or in damp conditions. Disconnect power before performing any maintenance or when the unit is not in use.
- **Heat Hazard:** The soldering iron tip reaches high temperatures (up to 896°F / 480°C). Avoid direct contact with the tip or heated components. Use appropriate heat-resistant tools and surfaces. Allow the iron to cool completely before storage.
- **Fume Extraction:** Always use the fume extractor when soldering to minimize exposure to harmful fumes. Ensure filters are clean and properly installed for effective operation. Work in a well-ventilated area.
- **Personal Protective Equipment (PPE):** Wear safety glasses to protect your eyes from solder splatter. Consider wearing gloves to protect your hands.
- **Work Area:** Keep your workspace clean, organized, and free of flammable materials. Ensure adequate lighting.
- **Children and Pets:** Keep the soldering station out of reach of children and pets.
- **Maintenance:** Only perform maintenance as described in this manual. Refer servicing to qualified personnel if needed.

## 2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1 x YIHUA 948DQ-II Fume Extractor Soldering Station Main Unit
- 1 x 917GC Soldering Iron
- 1 x Integrated Soldering Iron Holder
- 1 x Integrated Solder Wire Dispenser
- 1 x Spool of Solder Wire
- 8 x Activated Carbon Filters (Front + Rear)
- 3 x Soldering Tips
- 1 x Tip Cleaner (Brass + Rosin)
- 1 x Power Cord (US-standard)

### 3. PRODUCT OVERVIEW

The YIHUA 948DQ-II is a versatile 2-in-1 unit combining a temperature-controlled soldering station with an integrated fume extractor. It is designed to provide a compact and efficient soldering solution.

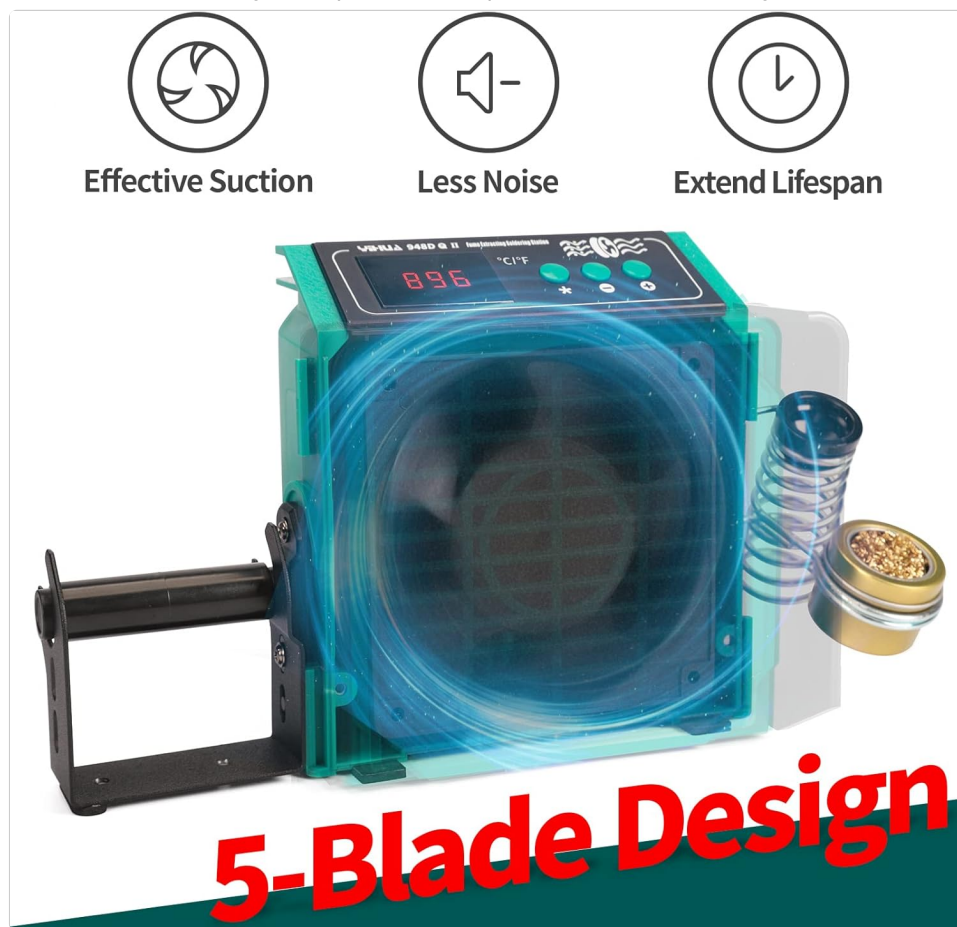


Figure 3.1: YIHUA 948DQ-II Soldering Station with Fume Extractor. This image shows the complete unit with the soldering iron, holder, and solder wire dispenser attached.

#### 3.1 Main Unit Features

- **Digital Display:** Shows current temperature in Celsius or Fahrenheit.
- **Temperature Control Buttons:** Adjusts soldering iron temperature.
- **Fume Extractor Fan:** Integrated fan with 5-blade design for effective smoke absorption.
- **Dual Filtration System:** Features activated carbon filters at the front and rear for comprehensive fume removal.
- **Integrated Soldering Iron Holder:** Provides a secure resting place for the soldering iron.
- **Integrated Solder Wire Dispenser:** Conveniently holds and dispenses solder wire.

- **Individual Power Switches:** Separate switches for the soldering station and fume extractor.



Figure 3.2: Fume Extractor Fan Design. This image highlights the 5-blade fan design for efficient fume extraction.



Figure 3.3: Double Layered Filtration System. This image illustrates the front and rear activated carbon filters for effective fume absorption.



Figure 3.4: Integrated Accessories and Switches. This image shows the integrated soldering iron holder, solder wire dispenser, individual power switches, and detachable soldering iron connection.

## 4. SETUP

Follow these steps to set up your YIHUA 948DQ-II Soldering Station:

1. **Unpack Components:** Carefully remove all items from the packaging and ensure all listed package contents are present.
2. **Attach Soldering Iron Holder and Solder Wire Dispenser:**
  - Slide the integrated soldering iron holder onto the designated slot on the side of the main unit.
  - Attach the solder wire dispenser to the other side of the main unit.
  - Insert the spool of solder wire onto the dispenser.
3. **Install Filters:** Ensure the activated carbon filters are properly seated in both the front and rear compartments of the fume extractor.
4. **Connect Soldering Iron:** Plug the soldering iron cable into the corresponding port on the main unit. Ensure it is securely connected.
5. **Place Tip Cleaner:** Position the tip cleaner (brass wool with rosin) near your work area.
6. **Power Connection:** Connect the power cord to the main unit and then plug it into a grounded 110-127V AC power outlet.





Figure 4.1: YIHUA 948DQ-II in a typical setup, ready for use.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Powering On and Off

1. **Turn On:** Flip the individual power switches for the "SOLDERING STATION" and "FUME EXTRACTOR" to the ON position. The digital display will illuminate.
2. **Turn Off:** Flip both power switches to the OFF position. Disconnect the power cord from the outlet when not in use for extended periods.

### 5.2 Adjusting Soldering Iron Temperature

1. **Temperature Range:** The soldering iron temperature can be adjusted from 200°C to 480°C (392°F to 896°F).
2. **Adjust Temperature:** Use the **+** and **-** buttons on the control panel to increase or decrease the desired temperature. The digital display will show the set temperature.
3. **Temperature Stabilization:** The unit features built-in PID temperature stabilization to maintain a consistent temperature during operation.



Figure 5.1: Adjusting the soldering iron temperature using the control buttons.

### 5.3 Celsius/Fahrenheit Conversion

To switch between Celsius (°C) and Fahrenheit (°F) display:

- Press the **°C/°F** button on the control panel to toggle between the two units.



Figure 5.2: Switching between Celsius and Fahrenheit temperature display.

### 5.4 Using the Fume Extractor

- Ensure the "FUME EXTRACTOR" power switch is ON.
- Position the fume extractor close to your soldering work, ideally within 10cm (3.93 inches) for optimal effectiveness.
- The 5-blade fan and dual filters will absorb harmful fumes and odors.



Figure 5.3: Fume extractor actively removing smoke during soldering.

## 5.5 Sleep Mode and Automatic Shutdown

- **Sleep Mode:** If the soldering iron is left in its holder unused for 10 minutes, it will automatically enter sleep mode to preserve tip lifespan and save energy. The display will show "SLP".
- **Automatic Shutdown:** Approximately 30 minutes after entering sleep mode, the unit will automatically shut down for safety.
- **Resume Operation:** To exit sleep mode or automatic shutdown, simply pick up the soldering iron or press any button.



Figure 5.4: Illustration of the sleep mode (top) and automatic shutdown (bottom) features.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your YIHUA 948DQ-II.

- **Filter Replacement/Cleaning:**
  - The activated carbon filters should be inspected regularly. Replace them when they appear saturated or if fume extraction efficiency decreases.
  - Some filters can be gently cleaned or rinsed, but always refer to the filter manufacturer's instructions. Ensure filters are completely dry before reinstallation.
- **Soldering Tip Care:**
  - Always tin the soldering iron tip before and after use to prevent oxidation.
  - Clean the tip frequently using the included brass wool tip cleaner.
  - Replace worn or damaged soldering tips to maintain soldering quality.
- **Unit Cleaning:**
  - Ensure the unit is powered off and unplugged before cleaning.
  - Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
  - Keep the fan intake and exhaust clear of obstructions.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your soldering station.

Problem	Possible Cause	Solution
Unit does not power on.	Power cord not connected; Power switch off; Outlet malfunction.	Ensure power cord is securely plugged in. Check both power switches are ON. Test the outlet with another device.
Soldering iron not heating up.	Soldering iron not connected properly; Temperature set too low; Faulty heating element.	Check soldering iron connection to the main unit. Increase the set temperature. If issue persists, contact support.
Fume extractor not working effectively.	Fume extractor switch off; Filters clogged or improperly installed; Unit too far from work.	Ensure fume extractor switch is ON. Inspect and clean/replace filters. Position the unit closer to the soldering point (within 10cm).
Temperature display is inaccurate.	Digital temperature calibration needed.	The unit has digital temperature calibration. Refer to the full manual or contact support for calibration procedures if necessary.
Unit enters sleep mode or shuts down unexpectedly.	Automatic sleep/shutdown feature activated.	This is a normal safety and energy-saving feature. Pick up the iron or press a button to resume operation.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	948DQ-II



Feature	Detail
Rated Voltage Range	110V-127V
Maximum Power	125W
Rated Power	23W
Main Unit Dimensions (L x W x H)	90 x 145 x 164mm (3.54 x 5.71 x 6.46 inches) ±5mm
Temperature Range	200 ~ 480°C / 392 ~ 896°F
Temperature Stability	Excellent
Display Type	LED Digital
Material	Copper (for certain components)
Item Weight	3.08 pounds
Manufacturer	Guangzhou Yihua Electronic Equipment Co., Ltd.

## Solid Compact Soldering Fume Extractor



Figure 8.1: Dimensions of the YIHUA 948DQ-II main unit.

## 9. WARRANTY AND SUPPORT

YIHUA provides comprehensive support for its products.

- **Warranty:** Enjoy 12-month US-exclusive manufacturer technical coverage from the date of purchase.

- **Technical Assistance:** For any technical questions, troubleshooting, or warranty claims, please contact YIHUA customer support. You can typically find support contact information on the official YIHUA website or through the platform where the product was purchased.
- **Online Resources:** Additional resources, FAQs, and product information may be available on the YIHUA official website.